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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

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Total	763	

Order No. 3804

U. S. PATENT OFFICE, *Washington, D. C., Mar. 17, 1944.*

Acting under the provisions of Section 483 of the Revised Statutes (U. S. C., title 35, sec. 6) and with the approval of the Secretary of Commerce, rule 153 of the Rules of Practice (Patents) and rule 60 of the Trade-Mark Rules are amended as set forth below to take effect May 1, 1944.

Rule 153 (Patents)

By striking out the last sentence and inserting in place thereof:

In contested cases the practice on points to which the rules are not applicable shall conform as nearly as practicable to the Rules of Civil Procedure for the District Courts of the United States.

Rule 60 (Trade-Marks)

By striking out the last sentence and inserting in place thereof:

Pleadings and procedure with respect thereto shall be governed by the Rules of Civil Procedure for the District Courts of the United States except as otherwise provided.

CONWAY P. COE,
Commissioner.

Adjudicated Patents

(C. C. A. Ohio.) Cushman patent, No. 1,652,703, for a corrugated metal culvert, *Held* invalid. *American Rolling Mill Co.* v. *Republic Steel Corporation,* 140 F.(2d) 514.

(C. C. A. Ohio.) Cushman patent, No. 1,735,732, for process of protecting metal culverts, *Held* invalid. *Id.*

(C. C. A. Ohio.) Wolters patent, No. 1,904,912, for monolithic file cabinet and attachments therefor, claims 1, 10, 13, and 22 *Held* not infringed. *Remington Rand* v. *Meilink Steel Safe Co.,* 140 F.(2d) 519.

(C. C. A. Mo.) Worden patent, No. 1,955,569, for licensing of motor vehicles, claim 3 *Held* invalid. *Warden* v. *City of St. Louis, Mo.,* 140 F.(2d) 615.

(D. C. Mich.) Kreug patent, No. 2,240,789, for sheet packing and gasket, *Held* invalid. *Detroit Gasket & Manufacturing Co.* v. *Wolverine Fabricating & Manufacturing Co.* 53 F. Supp. 966.

Changes in Classification

Order No. 3,805, dated March 27, 1944, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH CLASS

165—DESIGNS

ESTABLISH CLASSES

Design classes (identified by a "D", followed by a number), are established, in general one for each abolished design subclass.

Note.—Copies of the class and subclass titles of these classes may be seen in the Search Room, Scientific Library, and the Classification and Designs Divisions.

NOTICE

Attorneys and agents filing amendments and other papers in connection with pending applications are urged to indicate thereon the division to which the application has been assigned for examination. This will frequently eliminate the necessity of correspondence between the Richmond Office and the Washington Office, and thereby avoid delay.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business April 15, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 44,168; Trade-Mark Division, 1,327. Oldest new case, May 13, 1943; oldest amended, May 14, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Dec. 6	Nov. 20	421
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 19	Oct. 1	510
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Aug. 26	Aug. 28	936
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 15	Oct. 11	466
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 3	Sept. 8	988
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 3	Sept. 8	1,168
7. JARBOE, C. G., Optics, Photography	Dec. 12	Nov. 9	693
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 29	Nov. 24	455
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 30	Oct. 30	672
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 1	Oct. 20	280
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Aug. 14	July 6	958
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Nov. 1	Nov. 5	530
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 6	Nov. 24	588
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Oct. 4	Oct. 5	763
16. SPENCER, C. J., Telegraphy; Telephony	Nov. 15	Nov. 9	540
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 10	Aug. 6	519
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 13	May 14	837
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Oct. 13	Oct. 19	528
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Nov. 17	Nov. 2	391
21. THOMPSON, T. J., Textiles	Oct. 28	Nov. 1	390
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Aug. 23	Aug. 23	1,121
23. BARROWS, B., Cash Registers; Calculators (part)	July 10	June 30	175
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 6	Nov. 1	566
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Oct. 12	Oct. 19	723
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 12	July 15	912
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Aug. 6	Aug. 2	516
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Aug. 5	July 29	712
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 27	Oct. 25	610
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	July 23	July 16	1,043
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 4	Nov. 4	1,107
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Oct. 11	Sept. 29	579
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Nov. 27	Oct. 29	619
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders: Signals and Indicators.	Nov. 22	Aug. 13	501
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Nov. 5	Nov. 19	442
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Dec. 9	Dec. 20	359
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 18	Aug. 10	660
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 20	Aug. 2	490
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 5	Nov. 18	614
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 10	Dec. 2	601
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines: Check-Controlled Apparatus.	July 17	Aug. 27	403
42. MARANS, H., Electric Signaling	Dec. 14	Nov. 25	348
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Oct. 14	Sept. 6	758
44. HARVEY, L. P., Refrigeration; Preserving	Sept. 6	Aug. 26	411
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Oct. 13	Oct. 11	966
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Oct. 18	Oct. 1	466
47. KANOF, WM. J., Brakes; Boring and Drilling; Land Vehicles (part)	Dec. 2	Nov. 15	603
48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Sept. 2	Sept. 4	809
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 16	Oct. 4	650
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Sept. 25	Sept. 30	1,326
51. CROCKER, A. W., (Acting), Radiant Energy, Multiplex Telephony, Modulators	Sept. 6	Sept. 10	1,357
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Oct. 22	Sept. 2	747
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Oct. 25	Aug. 7	400
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 3	May 26	750
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Aug. 7	Aug. 11	660
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Oct. 8	Oct. 1	742
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 25	Sept. 2	691
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Aug. 11	Oct. 16	626
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 4	Sept. 3	1,286
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Aug. 13	Aug. 13	724
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Aug. 16	Sept. 24	451
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 24	Nov. 29	688
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 1	Aug. 11	916
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Nov. 27	Nov. 23	1,044
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	July 10	July 10	855
TRADE-MARKS: RICHMOND, F. A.	†Feb. 18	†Feb. 10	468
DESIGNS: KALUPY, H. H.	†Mar. 5	†Mar. 17	1,327

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

ISLAND ROAD BOTTLING COMPANY

v.

DRINK-MOR BEVERAGE COMPANY

No. 4,789. Decided January 3, 1944

[—F.(2d)—]

TRADE-MARKS—OPPOSITION—EX PARTE REJECTION OF APPLICATION.

Where the opposition of Drink-Mor Beverage Company to the application of Island Road Bottling Company for registration under the Trade-Mark Act of 1905 of the notation "Mammy's" as a trade-mark for soft drinks was dismissed, but it was adjudged, ex parte, that said application was barred by a registration of the notation "Ma's" for goods of the same descriptive properties granted to opposer, and the applicant appealed, but the opposer did not, *Held* that the applicant could not rely upon testimony taken in the opposition proceeding to show that the registered mark had been abandoned prior to its registration, and *Held* that the application was properly rejected upon the basis of such registration.

APPEAL from the Patent Office. Affirmed.

Messrs. Caesar and Rivise (*Mr. A. D. Caesar* of counsel) for Island Road Bottling Company.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Commissioner of Patents (speaking through an Assistant Commissioner) in a trade-mark registration controversy which originated as an opposition proceeding, but which, by reason of the final decision of the Commissioner, hereinafter stated, and the failure of Drink-Mor Beverage Company to appeal, became an ex parte case. See decision of this court in *Island Road Bottling Co.* v. *Drink-Mor Beverage Co.*, 30 C. C. P. A. (Patents) 708, 132 F.(2d) 129, 548 O. G. 3.

The factual aspects of the controversy are somewhat unusual.

On June 24, 1940, the Island Road Bottling Company filed an application, Serial No. 433,315, for registration, under the Trade-Mark Registration Act of February 20, 1905, of the notation "Mammy's" as a trade-mark for "nonalcoholic, noncereal, maltless beverages sold as soft drinks, and syrups, extracts and flavors used in making same," use of such mark being alleged "since May 1, 1940." It was published in the OFFICIAL GAZETTE of the Patent Office August 13, 1940, and, on September 12, 1940, Drink-Mor Beverage Company filed notice of opposition to the registration so sought. In the notice of opposition no registered mark was pleaded, but use and ownership of the notation "Ma's" as a trade-mark for goods of the same descriptive properties was asserted, use thereof being alleged "continuously since long prior to May 1, 1940"—the date claimed by applicant. A specimen label stated to represent the form in which the "Ma's" mark was used was attached to and made a part of the notice, which notice contained allegations in the usual form respecting injury to the opposer.

In its answer to the notice of opposition applicant conceded that the goods of the respective parties were of the same descriptive properties but, in effect, denied confusing similarity as to the marks, likelihood of injury to opposer, etc. An important statement in the answer, as the case subsequently developed, read as follows:

Applicant denies that the opposer is using the label attached to the notice of opposition. On the contrary, applicant avers on information and belief that opposer is not using and has not used the label attached to the notice of opposition.

Testimony was taken by both parties, but before considering the testimony it is necessary, under the presentation here made, to recite another matter as a part of the history of the case.

It appears from the record that on January 27, 1940, Drink-Mor Beverage Company filed an application (Serial No. 427,929) for registration of the notation "Ma's" as a trade-mark for beverages of the type, or kind, already described, use of same being alleged since January 9, 1940. That application antedated the application of Island Road Bottling Company here at issue, but no reference was made to it in the notice of opposition. To state the matter differently, although opposer had pending at the time of filing its notice of opposition an application for registration of the mark which it alleged it was using, no reference was made to such application in the notice. So, the attention of Island Road Bottling Company was not directed to it by the notice.

The testimony on behalf of Drink-Mor Beverage Company, which appears to have been a partnership, was taken December 21, 1940. Among the witnesses examined on that date was Isaac Rothstein, one of the partners in the company who seems to have been in charge of the company's plant or plants. He stated, in substance, that he procured two thousand labels bearing the imprint "Ma's Old Fashion Root Beer," and that some twelve hundred of those labels were applied to bottles of root beer which were shipped to various points during the months of January and February 1940, and that after the batch of labels was exhausted during those months he did not subsequently bottle any syrup on which labels bearing the imprint were applied. He was asked by his counsel, "Why not," and replied:

A. Well, there was a dispute came up on that over some opposition there, and before we would go ahead and invest any money advertising more labels, we wanted to know where we stood.

The witness was not cross-examined and the above was the only reference in any of the testimony to any "opposition." However, after the conclusion of all the testimony on behalf of Drink-Mor Beverage Company and immediately before the

certificate of the notary, the following statement appears in the record:

(Counsel for the *opposer* and the *applicant* wish to point out that the matter of opposition referred to by the first witness, Isaac Rothstein, was opposition No. 19,869, filed by Chicago Distilled Water & Beverage Co., of 2800 North Tamlin Avenue, Chicago, Illinois, against application Serial Number 427,929, filed on January 27, 1940, by Drink-Mor Beverage Company of Wilkes-Barre, Pa. and published in the OFFICIAL GAZETTE of the United States Patent Office on April 2, 1940, page 25, column 2.) [Italics ours.]

The record shows that counsel for Island Road Bottling Company was present during the taking of the testimony on behalf of Drink-Mor Beverage Company and (although he did not cross-examine any of the witnesses) frequently made objection to some of the questions asked certain of them.

Inasmuch as the parenthetical statement above quoted recited that counsel for the opposer and the applicant "wish to point out," etc., it would seem that Island Road Bottling Company knew on that date (December 21, 1940) of the pendency of an opposition to the Drink-Mor Beverage Company's application.

On March 19, 1941, subsequent to the closing of the testimony in the instant case (Island Road Bottling Company having completed its testimony in February 1941) the Examiner of Interferences dismissed the notice of opposition of Chicago Distilled Water & Beverage Company, Inc. (it "having failed to file any testimony within the time allowed for that purpose") to the application of Drink-Mor Beverage Company and adjudged the latter entitled to the registration which it sought.

The certificate of registration was issued May 20, 1941, which was after the time had been set for final hearing of the instant case before the Examiner of Interferences on June 11, 1941.

In the decision of the Examiner of Interferences, rendered June 23, 1941, it was stated that a copy of the registration so issued was attached to the brief on behalf of Drink-Mor Beverage Company filed before him at the hearing. With respect to it he held, in effect, that since no notice was given under Patent Office rule 154(*c*) of an intention to use the application or the registration resulting therefrom as evidence, it might not be properly utilized, and so he declined to consider it, but he stated:

Moreover, any prima facie evidence of use of the mark afforded by this registration has been overcome by the testimony as heretofore stated.

In a prior part of his decision the Examiner of Interferences had found from the testimony that Drink-Mor Beverage Company had, in January 1940, procured the printing of labels bearing the notation "Ma's," which labels it had affixed to bottled root beer sold by it; that the supply of such labels was soon exhausted and no further use of the mark was made after February 1940 to the time the testimony was taken, and that the opposer (Drink-Mor Beverage Company) was not using the notation relied upon either at the time it filed the notice of opposition or within the seven month period immediately preceding such time.

Having so found, the Examiner of Interferences dismissed the notice of opposition and held Island Road Bottling Company entitled to the registration which it sought.

Drink-Mor Beverage Company took appeal to the Commissioner, alleging, inter alia, that the Examiner of Interferences erred in holding that the prima facie evidence of use of the mark afforded by the registration of May 20, 1941, had been overcome by the testimony, and that he erred in not holding that applicant's mark should be refused on that registration.

In the course of his decision the Commissioner, after quoting the statement above quoted from the record relative to the application of Drink-Mor Beverage Company and the opposition of Chicago Distilled Water & Beverage Company thereto, together with rule 154(*e*), said:

Clearly, the notice contemplated by rule 154(*e*) is notice of intention to present the record or special matter as evidence at the hearing. Although the statement referred to identifies the application on which registration No. 387,476 issued I find nothing in the statement which serves notice of any intention on the part of either party to offer the application in evidence at final hearing. Mere notice of the existence of a record or special matter without notice of intention to use it as evidence is not, in my opinion, a compliance with the provisions of rule 154(*e*). Therefore I consider the Examiner to have been correct in excluding the registration as evidence in support of the notice of opposition.

Opposer's record shows affirmatively that opposer stopped applying the mark to its goods and distributing goods with the mark applied thereto after February 1940, and shows no resumption of use of the mark. The notice of opposition was filed September 12, 1940. Further there is no testimony of any intention to resume use of the mark. Since the record shows opposer has not used the mark since February, 1940 and shows no intention by opposer of resuming use of the mark, the opposer has failed to establish by competent evidence probable damage by registration of applicant's mark, and for this reason the notice of opposition cannot be sustained. *The Touraine Company* v. *F. B. Washburn Co.*, 52 App. D. C. 356, 286 Fed. Rep. 1020, 309 O. G. 676.

However, after the foregoing holding which, in effect, affirmed the decision of the Examiner of Interferences, so far as dismissal of the notice of opposition was concerned, the Commissioner continued:

Nevertheless, the right of applicant to registration in view of the registration No. 387,476 issued to opposer must be considered even though the registration issued after the notice of opposition was filed. *Sparklets Corporation* v. *Walter Kidde Sales Company*, 26 C. C. P. A. 1342, 42 U. S. P. Q. 73, 104 Fed.(2d) 396.

He then held that the marks ("Ma's" and "Mammy's") had "the same significance and considerable similarity in appearance and in sound," and that their concurrent use on identical goods would "be likely to result in confusion and mistake and to deceive purchasers."

Then, returning to the registration of May 20, 1941, he said:

A registration is prima facie evidence of ownership and use of the mark and to my mind abandonment by opposer has not been shown. The fact that opposer prosecuted the application for this registration successfully through an opposition proceeding and took out the registration would seem to indicate that opposer did not intend to abandon the mark and offsets any inference to the contrary that might be drawn from opposer's nonuse of the mark after February 1940. Further, in my opinion the mere fact that opposer was not successful in introducing the registration in evidence does not deprive the registration of being prima facie evidence of ownership and use. The registration issued on an application filed prior to the date of first use claimed by applicant of its mark, and in my opinion bars the grant of the registration for which applicant has applied.

In view of the above the decision of the Examiner of Interferences dismissing the notice of opposition is affirmed. His decision adjudging applicant entitled to the registration for which it has made application is reversed and it is adjudged, ex parte, that applicant is not entitled to the registration for which it has made application.

So, it appears from the foregoing that although the notice of opposition was dismissed and Drink-Mor Beverage Company thereby eliminated as a party to the case (in the absence of an appeal by it from the judgment of dismissal, which it did not take), nevertheless the registration which it had obtained was considered ex parte by the Commissioner and, in effect, made the basis of his ex parte decision, reversing the decision of the Examiner of Interferences, so far as it adjudged the applicant entitled to registration of the notation "Mammy's."

After unsuccessfully seeking a rehearing by the Commissioner, applicant appealed to this court, and a record in which the case naturally was styled as it had been considered in the Patent Office was certified to us.

After it had been so certified, Drink-Mor Beverage Company, evidently regarding itself as still being a party, filed application for certiorari to correct diminution of the record, seeking to have the certificate of registration of the "Ma's" mark (No. 387,476) included. Upon examining the record, we found upon the facts as above recited that it had become, in fact, an ex parte case, and held Drink-Mor Beverage Company not to be a party to the appeal "other than in form" and, therefore, not entitled to make the motion respecting diminution of the record or to appear in any other respect as a party. *Island Road Bottling Co.* v. *Drink-Mor Beverage Co.*, supra.

In our decision there we pointed out that the controversy had become one solely between appellant, and the Commissioner of Patents representing the public, and stated that the Solicitor for the Patent Office should take part in the proceeding, representing the Commissioner.

The Solicitor did this. Within due time he filed motion to have Certificate No. 387,476 for the notation "Ma's" made a part of the record. His motion was granted by us December 1, 1942, and it became part of the record printed January 26, 1943. (It may be said here that we obtained the dates above recited as to the filing of the application and the issuance of the registration from that document, while the information respecting the outcome of the opposition of Chicago Distilled Water & Beverage Company, Inc., was obtained from the final decision of the Examiner of Interferences in that case, which was a part of the record as originally certified to us.) The Solicitor, on July 9, 1943, filed a brief in answer to the brief of appellant, which had been filed June 21, 1943, and appeared and made oral argument before us at the hearing.

From the facts above recited, it is obvious that the case, as already has been stated, presents unusual features.

As has been indicated, the certificate of registration issued May 20, 1941, to Drink-Mor Beverage Company shows that the application for it was filed January 27, 1940, and that use of the mark ("Ma's") was alleged "since January 9, 1940." So, that application antedated the application of appellant, filed June 24, 1940, and the date of beginning use alleged (January 9, 1940) antedated the date of the beginning use of "Mammy's" alleged by appellant (May 1, 1940). It may be further pointed out that at the time of filing the application (January 27, 1940) Drink-Mor Beverage Company appears to have been actually using the mark on the labels which it had caused to be printed, although a few weeks later it ceased to use it and was not using it at the time the notice of opposition was filed, nor at the time the certificate was issued, as was found by the tribunals below.

At this point it is proper to note that the Island Road Bottling Company had constructive notice of the application of Drink-Mor Beverage Company by reason of the publication in the OFFICIAL GAZETTE of April 2, 1940, but obviously Island Road Bottling Company had no interest in the matter on that date since its application was not filed until June 24, 1940, and no use of the notation "Mammy's" was claimed by it earlier than May 1, 1940. So, the constructive notice afforded by the publication has no particular bearing on the case. Island Road Bottling Company, however, did have actual notice as early as December 21, 1940, of the pending of the application of Drink-Mor Beverage Company and the fact that that application was involved in an opposition proceeding, but, so far as the record discloses, it took no action relative thereto.

It is true, of course, that appellant here had no notice, actual or constructive, of the registration of the Drink-Mor Beverage Company's "Ma's" mark until after the instant case was ready for trial before the Examiner of Interferences, because the certificate of registration was not issued until May 20, 1941, and, as has been stated, that certificate was given no weight by the tribunals of the Patent Office in determining the opposition proceeding.

The Commissioner did consider it, however, in connection with the determination of the case ex parte, and appellant claims that this was error.

Numerous reasons of appeal were stated in connection with the appeal to us, but there was no claim of error respecting the Commissioner's holding to the effect that the marks, "Ma's" and "Mammy's," have the same significance and considerable similarity in appearance and sound so that when applied to identical goods confusion, mistake, and deception of purchasers would be likely. We, therefore, have no occasion to consider or pass upon that question.

In the final analysis appellant's claim, in effect, is that use of the "Ma's" mark was shown by the testimony taken in the opposition proceeding to have been abandoned prior to its registration and that, therefore, it was error on the part of the Commissioner to reject its application upon the basis of such registration.

The brief on behalf of appellant states:

In view of the *facts established* by the *concurrent decisions* of the Examiner of Interferences and the Commissioner of Patents, there only remains for consideration the Commissioner's anomalous holding that, in spite of the fact that opposer had discontinued use of the trademark "Ma's" months before it filed the notice of opposition, in spite of the fact that opposer discontinued use of the mark "Ma's" almost two months before the publication

date of the application which matured into Certificate No. 387,476, in spite of the fact that opposer had shown no intention of resuming the use of the mark "Ma'a," in spite of the fact that opposer was not using the trade-mark "Ma's" when Certificate No. 387,476 issued and had not been using said trade-mark "Ma's" during almost the entire fifteen month period that the application which matured into said Certificate No. 387,476 was pending in the Patent Office, and in spite of the fact that said Certificate No. 387,476 was not admissible under rule 154–*c*, nevertheless said Certificate No. 387,476 was a basis for ruling ex parte that the appellant was not entitled to the registration for which it had made application. [Italics quoted.]

It is then argued that the Commissioner's decision is anomalous and that he made inconsistent rulings, basing his decision

"on the assumption that a certificate of registration is prima facie evidence of ownership and use of a mark and that to his mind 'abandonment by the opposer had not been shown'."

It is contended that the prima facie evidence of ownership and use implied in a registered mark is merely a rebuttable presumption which can be overcome by competent evidence, and that it was overcome in this case by (1) the evidence of an official of Drink-Mor Beverage Company who stated that use of the mark "Ma's" was discontinued about a month after the filing of the application for its registration; (2) by the fact that Drink-Mor Beverage Company failed to use the mark during substantially the entire fifteen month period prior to the issuance of the certificate of registration, and (3) that that concern failed to present evidence of an intention to resume use of the mark.

We think it unnecessary to state appellant's contentions in greater detail. They have been very carefully studied and considered together with the authorities cited and discussed in appellant's brief. However forceful its contentions and arguments might be were this a cancellation proceeding, we are unable to agree that they are applicable here. In the final analysis, appellant's position is that the registration issued to Drink-Mor Beverage Company was invalid at the very time the certificate was issued, because use of the mark had been abandoned prior to that time.

It is well settled by a long line of consistent decisions that the validity of a registered mark cannot be challenged in an opposition proceeding. In the case of *Englander, Etc.* v. *Continental Distilling Co.*, 25 C. C. P. A. (Patents) 1022, 95 F.(2d) 320, 496 O. G. 274, we cited an extensive list of decisions so holding. The holding grows out of the terms of the statute relating to oppositions, by which statute the Patent Office and the courts, of course, are bound. See sections 6 and 7 of Trade-Mark Registration Act (15 U. S. C. §§ 86 and 87).

In its brief and in a supplemental brief filed by permission of the court appellant has endeavored to distinguish the instant case from the Englander case, supra, and the several cases therein cited. It is true that the facts of this case differ from the facts of those cases, but this difference does not, in our opinion, affect the principle of law involved. In our decision in the Englander case, supra, after the citation of the many prior decisions, we said:

It was pointed out in our decisions in some of those cases that the Congress specially provided, in section 13 of the Trade-mark Act, supra, for proceedings for the cancellation of a trade-mark registration by one who deemed himself injured by such registration, and that, if an interested party desired to question the validity of a trade-mark registration, he should proceed in accordance with the provisions of that section.

Certainly, no principle of the trade-mark registration law is better settled than that the validity of a registered mark may not be attacked in an opposition proceeding. Whether such an attack might be made in an interference proceeding need not be passed upon here because there was no such proceeding in this case. We think it obvious that in a case where, as here, the question becomes an ex parte one, the testimony taken in an opposition proceeding may not be relied upon to show the invalidity of a registered mark.

We know of no reason why appellant (even after the case had been set for final hearing before the Examiner of Interferences) might not, upon learning of the issuance of the certificate, properly have requested a continuance and instituted a cancellation proceeding under section 13 (15 U. S. C. § 93) of the Trade-Mark Registration Act, and we apprehend that, under the particular facts appearing, such an application probably would have been granted and the opposition case suspended pending the outcome of a cancellation proceeding. This we say merely to indicate that appellant was not without opportunity for remedy if it had a grievance proper to be remedied.

Whatever the possibilities might have been in that regard in this case, however, it is clear to us that upon the facts appearing and the law applicable thereunder appellant may not prevail in this proceeding.

The decision of the Commissioner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE TSCHOP

No. 4,818. Decided December 7, 1943

[— F.(2d) —]

PATENTABILITY—ANODE.

Certain claims to a nickel anode *Held* not to distinguish patentably over the prior art in reciting that the anode is of "unfused" electrodeposited nickel and is "substantially devoid of carbon."

APPEAL from the Patent Office. Affirmed.

Mr. Anthony William Deller for Tschop.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming (except on a question of new matter) the decision of the Examiner rejecting four claims, numbered 57 to 60, inclusive, of appellant's application for patent bearing the broad title, "For Nickel Anodes." All the claims are for the product.

Claim No. 57 reads as follows:

57. As a new article of manufacture, a nickel anode, said anode being of unfused electrodeposited nickel throughout the cross-section thereof, being at least 0.25 inch thick, having a grain size greater than the wave length of light, being substantially devoid of carbon and containing about 0.01% to about 0.25% sulfur and the balance nickel including small amounts of cobalt and incidental impurities not subversive of the corroding characteristics of said anode, said electrolytic nickel anode corroding uniformly and smoothly, being active up to about pH 5.5 and producing only a small amount of sludge and loose nickel when corroded as an anode in conventional nickel electroplating baths.

The other claims are similar, except that they embrace limitations respecting quantities of some ingredients not specified in claim No. 57.

Claim No. 58 recites a sulfur content of "about 0.045%" and a copper content of "about 0.01%." Claim No. 59 recites a sulfur content of "about 0.071%," a copper content of "about 0.040%," a lead content of "about 0.04%," and an iron content of "less than about 0.05%." Claim No. 60 recites a sulfur content of "about 0.05%," a copper content of "about 0.04%," an iron content of "less than about 0.05%," a zinc content of "about 3.13%," and a lead content of "about 2.015%."

We think it will be conducive to clearness relative to subsequent parts of this opinion to state at this point that the only ingredient of appellant's anode which is claimed to be critical is the sulfur element and that the criticalness claimed for it, apparently, is not based so much upon any particular percentage of it named in any one of the claims as it is upon the element per se.

Each of the claims describes the nickel anode as

"being substantially devoid of carbon,"

and one ground upon which the Examiner based rejection of them was that this phrase constituted new matter because it does not appear in the specification. The Board, for reasons stated by it, held that the phrase does not constitute new matter, thus reversing that phase of the Examiner's decision, but added:

"However, the phrase is purely negative and can be given no patentable weight. In our opinion it is immaterial whether this phrase remains in the claims or not."

The other ground of rejection by the Examiner was lack of invention over prior art cited and that ground was sustained by the Board, the references relied on being: Geiger, 1,941,257, December 26, 1933; Waite, 2,112,818, March 29, 1938; "The Metal Industry," published in London, January 22, 1937, pages 141 to 144, inclusive.

The field in which appellant's alleged invention lies is highly technical and difficult of satisfactory description to persons not skilled in the art of what is designated as "electro-deposition." In the introductory part of its brief appellant has favored the court with a general statement respecting the art which we have found informative and interesting, but the actual issues which we are called upon to determine seem to us to be comparatively simple, and no detailed discussion of the art is required.

All the claims before us are product claims—that is, they are for an anode composed of certain ingredients. They do not describe the product by the process of manufacture and, hence, the method of production is not involved.

It is clear that the prior art cited discloses nickel anodes containing a sulfur ingredient, the percentage of sulfur being substantially within the percentage range defined in appellant's claims.

The Examiner pointed out that all the elements of claim No. 57 are disclosed in the Geiger patent, the claims of which are method claims with the single exception that while Geiger melts or fuses his electro-deposited nickel to add sulfur thereto, appellant does not melt, his being (as described in each of his claims) an anode "of unfused electrodeposited nickel throughout the cross-section thereof."

The Examiner made an analytical statement respecting claim No. 57 and the disclosures in the Geiger patent, which we take the liberty of reproducing here:

Claim 57 may be taken as typical. It reads in full:
(*a*) "57. As a new article of manufacture, a nickel anode,
(*b*) said anode being of unfused electrodeposited nickel throughout the cross-section thereof,
(*c*) being at least 0.25 inch thick,
(*d*) having a grain size greater than the wave length of light,
(*e*) being substantially devoid of carbon.
(*f*) and containing about 0.01% to about 0.25% sulfur and the balance nickel including small amounts of cobalt and incidental impurities not subversive of the corroding characteristics of said anode.
(*g*) said electrolytic nickel anode corroding uniformly and smoothly, being active up to about pH 5.5 and producing only a small amount of sludge and loose nickel when corroded as an anode in conventional nickel electroplating baths.
This claim stands rejected as failing to define inventively over Geiger. It is clear that limitations *a*, *c*, *d*, *e*, *f*, and *g* are each present in Geiger, as follows:
(*a*) Page 1, line 3, "nickel anodes."
(*c*) Page 1, lines 16, 17, since cast or rolled anodes are conventionally at least ¼ inch thick.
(*d*) Since light has a wavelength of approximately 0.00001 inch, the grain size of the reference must exceed this value.
(*e*) Page 1, lines 41 to 47.
(*f*) Page 2, lines 98, 99.
(*g*) Page 1, lines 89 to 97.
Limitation *b* reads on Geiger, except for the single word "unfused".

It was the view of the Examiner that the difference between the fused and unfused anodes did not lend patentability to the claims. He said:

This distinction is not of patentable weight, since it states what applicant does not do rather than what he does. The claim fails to define a single characteristic or property of the anode, that is not true of the reference. If there is any novel *anode* produced by the mere omission of Geiger's fusion step, this claim fails to point out such novelty. Applicant's article is produced by a different process from that of Geiger, but the article (as recited) is identical with the patentee's. [Italics quoted.]

In his discussion of the other claims the Examiner pointed out that the sulfur content named in them is within the range designated in claim No. 57.

"The Metal Industry" publication, apparently, was principally relied upon for the disclosure of a nickel anode containing various ingredients such as copper, iron, manganese, etc. It also discloses a small percentage of sulfur.

Certain physical exhibits of types of anodes were presented before the Board and before us. Discussing these, the Board said:

It must be admitted that there is quite a noticeable difference between the physical characteristics of electrodeposited and cast or rolled nickel, but these differences are well known in this art. The publication shows that pure nickel used in industry is usually supplied in the form of electrodeposited plates or sheets of about one-quarter inch in thickness. These plates are cut up into pieces of suitable size. This publication also states that unmodified electrodeposited nickel is not suitable for use as an anode and this is substantiated by the affidavits of record.

We feel constrained to agree with the tribunals of the Patent Office that appellant has failed to demonstrate anything patentable over Geiger, so far as the product is concerned. The product resulting from Geiger's process obviously must contain sub-

stantially the same elements or ingredients as those defined in the claims here in issue.

It may be that the anode which appellant claims is superior to that of Geiger by reason of the sulfur being introduced without the metal being melted or fused, but that is not regarded as a patentable distinction with respect to the product.

Furthermore, notwithstanding appellant's contentions respecting the Waite patent, we fail to see wherein it is not a pertinent reference.

Of this patent, the Board said:

[It] relates to the electroplating of metal with nickel so as to form a comparatively thin and bright coating. In order to obtain this result, a small amount of naphthalene sulfonic acid is added to the bath. An analysis of the nickel deposit as given in lines 1–5, column 2, page 5, shows that it contains .04% of sulphur. This clearly comes within the range given in the appealed claims.

Elsewhere, the Board said:

The Waite patent shows that there was no difficulty involved in incorporating sulfur in the electrodeposited nickel.

It is insisted in the brief for appellant that of the seven examples of bath compositions given by Waite from which bright nickel may be electroplated only one of them teaches that bright nickel electroplates can be obtained with a "*mixture* of the elements carbon, sulfur and cadmium or zinc [italics quoted]," and the following is quoted from the Waite specification:

The deposits obtained *when using cadmium or zinc in conjunction with a sulfonic addition agent* or "catalyst" as in Example 7 hereinabove, are found upon analysis to contain carbon and sulfur together with either cadmium or zinc as the case may be. [Italics quoted from brief.]

The fact that only one out of the seven examples specified a sulfur content does not seem to us to affect the validity of the patent as a reference. One may teach as much as many.

It is contended, in effect, that the statement of the Board that the Waite patent shows there was no difficulty involved in incorporating sulfur in the electrodeposited nickel is not justified. The statement obviously was a conclusion of the Board based upon its study of the patent. From our own study of the patent, in the light of appellant's argument concerning it, we can discern no reason for questioning the Board's conclusion in that regard.

Appellant's most serious argument on this phase of the case seems to be predicated upon the fact that Waite names carbon as an element, whereas appellant's claims recited an anode "substantially free of carbon." This, we think, has been sufficiently discussed above, and we agree with the Board's holding on that phase of the case.

During the prosecution of the case in the Patent Office certain affidavits and documentary exhibits were introduced by appellant. These were discussed in some detail in the statement of the Examiner following the appeal to the Board, and, as appears from its decision, were duly considered by the Board.

We have examined them in the light of appellant's elaborate discussion of them in his brief and during oral argument. We fail to find in them any convincing evidence that the concurring decisions of the tribunals of the Patent Office rejecting the claims as presenting nothing patentable over the prior art cited were erroneous.

The decision of the Board is affirmed.

Affirmed.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Mar. 31, 1944.*

Estate of Abraham Shalit, the assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Max Ams, Inc., Greenwich and N. Moore Sts., New York, N. Y., to effect the cancellation of trade-mark registration of the Estate of Abraham Shalit, 524 E. 134th St., Bronx, New York, N. Y., No. 330,341, dated November 26, 1935, and the notice of such proceeding sent by registered mail to said Estate of Abraham Shalit at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Estate of Abraham Shalit, the assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Disclaimers

2,249,459.—*Thomas F. Crocker*, Chicago, Ill. TELEPHONE SYSTEM. Patent dated July 15, 1941. Disclaimer filed March 28, 1944, by the assignee, *Automatic Electric Laboratories, Inc.*; the inventor, consenting.

Hereby enters this disclaimer to claims 1, 2, 34, 35, 36, 37, 38, 39, 72, and 73 of said Letters Patent.

2,295,748.—*Frank V. Moore*, Los Angeles Calif. ADDRESSING MACHINE. Patent dated September 15, 1942. Disclaimer filed April 10, 1944, by the assignee, *John M. Alford.*

Hereby enters this disclaimer to claim 4 in said specification.

2,315,010.—*John Ellis Ostline*, Chicago, Ill. SIGNALING SYSTEM. Patent dated March 30, 1943. Disclaimer filed April 6, 1944, by the assignee, *Automatic Electric Laboratories, Inc.*

Hereby enters this disclaimer to claims 1, 2, and 3 of said Letters Patent.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 2, 1944

[VOL. 562. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 459,098. WARREN F. WILHELM, doing business as New Products Laboratories, Chicago, Ill. Filed Mar. 13, 1943.

PACQUET

FOR RECEPTACLES—NAMELY, MOISTURE IMPERVIOUS OR RESISTANT CARTONS AND CONTAINERS MADE OF WATERPROOF PAPER, PASTEBOARD, OR OTHER CELLULOSE MATERIAL, TO CONTAIN LIQUIDS OR THE COMBINATION OF SOLID MATTER AND LIQUIDS.

Claims use since Mar. 3, 1943.

Ser. No. 467,955. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Mar. 4, 1944.

B-Tex

FOR WOVEN COTTON FABRIC BAGS.

Claims use since Dec. 31, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 467,884. GLASDON LEATHER NOVELTIES COMPANY, New York, N. Y. Filed Mar. 1, 1944.

Glasdon

FOR LEATHER WALLETS, LEATHER BAGS, AND POCKETBOOKS.

Claims use since January 1944.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 458,462. KELITE PRODUCTS, INC., Los Angeles, Calif. Filed Feb. 10, 1943.

KENU

FOR CLEANING AND WASHING POWDER FOR USE IN CLEANING WOODWORK AND FLOORS AND FOR WASHING DISHES AND LAUNDRY.

Claims use since June 1940.

Ser. No. 467,615. C. A. NASH & SON, INC., Norfolk, Va. Filed Feb. 21, 1944.

NA-NOR

FOR FLOOR CLEANING COMPOUND.

Claims use since 1940.

Ser. No. 467,859. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa. Filed Feb. 29, 1944.

QUASOL

FOR WATER SOLUBLE OR EMULSIFIABLE SOLVENT CLEANSERS AND DETERGENTS.

Claims use since August 1937.

Ser. No. 467,928. LUCIEN LELONG, INC., Chicago, Ill. Filed Mar. 2, 1944.

WHISPER

FOR SOAP.

Claims use since Sept. 1, 1941.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 457,039. NATIONAL MINERAL COMPANY, Chicago, Ill. Filed Nov. 25, 1942.

CASCADE

FOR PERMANENT HAIR WAVING SOLUTION, PERMANENT HAIR WAVING NEUTRALIZER, AND SHAMPOO.
Claims use since Sept. 8, 1941.

Ser. No. 458,354. RUY DE BARROS CHALMERS, Rio de Janeiro, Brazil. Filed Feb. 5, 1943.



No claim is made to the words "Chalmers' Perfumes" apart from the mark.
FOR PERFUMES.
Claims use since Dec. 23, 1941.

Ser. No. 465,099. SAMUEL BONAT & BRO., New York, N. Y. Filed Nov. 18, 1943.

Bonat Harol

The word "Bonat" is disclaimed except as shown.
FOR HAIR SHAMPOO AND HAIR SHAMPOO LIQUID CREAM LOTIONS.
Claims use since Oct. 15, 1943.

Ser. No. 465,839. COLONIAL ALLOYS COMPANY, Philadelphia, Pa. Filed Dec. 17, 1943.

ELECTRODIZING SALTS

No claim is made to the word "Salts."
FOR SALTS FOR ELECTROLYTIC BATHS.
Claims use since December 1941.

Ser. No. 466,643. GEORGE C. ERICKSON, Chicago, Ill. Filed Jan. 17, 1944.



FOR CATALYTIC BARIUM CHLORIDE, COMBINED WITH SLIGHT QUANTITIES OF OTHER ELEMENTS USED TO PRODUCE MINUSCLE RADIATIONS FOR INVIGORATING AND STIMULATING NORMAL FUNCTIONING OF THE BODY.
Claims use since Jan. 12, 1944.

Ser. No. 466,773. W. F. STRAUB & COMPANY, Chicago, Ill. Filed Jan. 21, 1944.

GONATROPE

FOR EXTRACT OF THE PITUITARY GLAND USED TO CORRECT GONAD HYPO-FUNCTION.
Claims use since Dec. 18, 1943.

Ser. No. 466,817. WATTS-WAGNER COMPANY, INC., New York, N. Y. Filed Jan. 22, 1944.

CHEMI-GUARD

The term "Guard" is disclaimed apart from the mark.
FOR LIQUID HAND PROTECTING CREAM.
Claims use since October 1943.

Ser. No. 467,195. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Feb. 5, 1944.

REDO-CALCIUM

Applicant disclaims the word "Calcium" apart from the mark.
FOR MEDICINAL PREPARATION RECOMMENDED FOR USE IN PROPHYLAXIS AND TREATMENT OF CONDITIONS WHERE CALCIUM AND VITAMINS ARE INDICATED.
Claims use since Jan. 20, 1944.

Ser. No. 467,293. FANNINGS & Co., Chicago, Ill. Filed Feb. 9, 1944.



BELLE FANNINGS

The portrait is that of Belle Fannings.
FOR HAIR POMADES AND FOOT BALM.
Claims use since July 11, 1943.

Ser. No. 467,303. WM. J. STANGE CO., Chicago, Ill. Filed Feb. 9, 1944.

N. D. G. A.

FOR ANTI-OXIDANT (CONSISTING OF NORDIHYDROGUAIAROTIC ACID) FOR VARIOUS EDIBLE PRODUCTS AND PHARMACEUTICALS.
Claims use since Oct. 10, 1943.

Ser. No. 467,470. IVOR RICH, New York, N. Y. Filed Feb. 16, 1944.

MEXICAN HAYRIDE

The word "Mexican" is disclaimed apart from the mark.
FOR PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, LIPSTICK, AND ROUGE.
Claims use since Nov. 30, 1943.

Ser. No. 467,495. LENTHERIC, INCORPORATED, New York, N. Y. Filed Feb. 17, 1944.

RANSOM

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.
Claims use since Jan. 17, 1944.

Ser. No. 467,533. MONEAU CORP. OF NEW YORK, New York, N. Y. Filed Feb. 18, 1944.

if . . .

FOR PERFUMES.
Claims use since Jan. 15, 1944.

Ser. No. 467,543. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 18, 1944.



FOR INSECTICIDE SPRAY.
Claims use since Jan. 1, 1938.

Ser. No. 467,550. WESTWOOD PHARMACAL CORPORATION, Buffalo, N. Y. Filed Feb. 18, 1944.

WESTHIAZOLE

FOR SULFATHIAZOL SOLUTIONS.
Claims use since Jan. 31, 1943.

Ser. No. 467,581. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Feb. 19, 1944.

Quatresin

FOR MEDICINAL PREPARATION FOR USE AS A GERMICIDE AND AN ANTISEPTIC PREPARATION.
Claims use since July 30, 1943.

Ser. No. 468,030. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Mar. 7, 1944.

ROCAVIT

FOR MEDICINAL PREPARATION RECOMMENDED FOR USE IN PROPHYLAXIS AND TREATMENT OF CONDITIONS WHERE CALCIUM AND VITAMINS ARE INDICATED.
Claims use since Feb. 11, 1944.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 466,249. ANSBACHER-SIEGLE CORPORATION, Brooklyn, N. Y. Filed Jan. 1, 1944.

RESINIDE

FOR RESINOUS MATERIALS USED IN INKS, SAID RESINOUS MATERIALS PROVIDING IN THE CLASS OF GOODS DESCRIBED A FILM CHARACTERIZED BY RAPID DRYING, IMPROVED DURABILITY AND STABILITY TO REAGENTS, AND IMPROVED ADHESION.
Claims use since Apr. 30, 1943.

Ser. No. 466,340. ALLIED CARBON & RIBBON MFG. CORP., New York, N. Y. Filed Jan. 6, 1944.

MASTERITER

FOR CARBON PAPER.
Claims use since June 1, 1943.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 458,265. THE CEMENTATION COMPANY (SUBSIDIARIES) LIMITED, London, England. Filed Feb. 1, 1943.

THERMACOUST

FOR HEAT-INSULATING AND ACOUSTICAL BUILDING SLABS AND BUILDING BLOCKS, MADE OF NON-ARGILLACEOUS MATERIALS AND MAINLY OF WOOD WOOL AND CALCAREOUS CEMENT.
Claims use since Oct. 3, 1935.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 466,664. ANDERSON FIRE-FIGHTING EQUIPMENT COMPANY, INC., New York, N. Y. Filed Jan. 18, 1944.

AN-FE-CO

FOR HOSE COUPLINGS AND HOSE NOZZLES.
Claims use since Dec. 13, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 465,787. MAX STERN, New York, N. Y. Filed Dec. 15, 1943.

Mechanical Ingot

The term "Ingot" is disclaimed apart from the mark.
FOR BLOCKS COMPOSED OF FERROUS AND NON-FERROUS METAL SCRAP.
Claims use since April 1943.

CLASS 15

OILS AND GREASES

Ser. No. 466,531. INDUSTRIAL RAW MATERIALS CORPORATION, New York, N. Y. Filed Jan. 13, 1944.

INDRALATUM

FOR PETROLEUM WAX USED FOR CANDLES.
Claims use since Dec. 11, 1943.

Ser. No. 467,541. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 18, 1944.

AEROVAC

FOR LUBRICATING OILS AND GREASES.
Claims use since Jan. 2, 1943.

Ser. No. 467,542. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 18, 1944.

LO-HI

Applicant is the owner of registration No. 404,307 covering the term "Lo-Hy."
FOR LUBRICATING GREASES.
Claims use since Jan. 17, 1944.

Ser. No. 467,773. THE TEXAS COMPANY, New York, N. Y. Filed Feb. 25, 1944.

DOLMAR

FOR LUBRICATING OILS—VIZ., MARINE ENGINE OILS.
Claims use since July 1, 1939.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 459,983. THE CELOTEX CORPORATION, Chicago, Ill. Filed Apr. 19, 1943.

CELOTEX

FOR PAINTS AND PAINTERS' MATERIALS—NAMELY, ASPHALT ROOF PAINT, ASBESTOS ROOF PAINT, AND PAINTS HAVING AN ASPHALT AND/OR COAL TAR BASE.
Claims use to paints and painters' materials—namely, to asphalt roof paint since Sept. 8, 1938; to asbestos roof paint since Sept. 2, 1938; and to paints having an asphalt and/or coal tar base since Oct. 8, 1939.

Ser. No. 462,954. THE PETROL CORPORATION, Los Angeles, Calif. Filed Aug. 23, 1943.



No claim is made to the word "Petrol" apart from the mark.
FOR PAINT IN PASTE FORM.
Claims use since Aug. 6, 1943.

Ser. No. 467,420. WHI-TEX COMPANY, St. Louis, Mo. Filed Feb. 14, 1944.

Whi-Tex

FOR COMBINATION COLD WATER PAINT AND WATER-PROOFING AGENT FOR APPLICATION TO MASONRY SURFACES.
Claims use since Feb. 9, 1944.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 466,868. STEINWAY & SONS, New York, N. Y. Filed Jan. 25, 1944.

"RAYTRONIC"

FOR RESIN BONDED WOOD AIRCRAFT STRUCTURAL PARTS AND ASSEMBLIES.
Claims use since July 14, 1943.

Ser. No. 467,011. BELL AIRCRAFT CORPORATION, Buffalo, N. Y. Filed Jan. 31, 1944.

AIRACOMET

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Jan. 24, 1944.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 467,071. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Feb. 1, 1944.

ELKALOY

FOR ELECTRIC CONTACTING ELEMENTS—NAMELY, ELECTRIC MAKE-AND-BREAK CONTACTS, SLIDING ELECTRIC CONTACTS, AND PRESSURE EXERTING WELDING ELECTRODES.
Claims use since Oct. 21, 1930.

Ser. No. 467,739. YOUNGSTOWN ALLOY CASTING CORPORATION, Youngstown, Ohio. Filed Feb. 24, 1944.

GYROCAST

FOR BRACKETS FOR ELECTRIC BUS BAR, CLIPS FOR ELECTRIC BUS BAR.
Claims use since July 15, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 465,002. JAMES M. MACDONALD, Evanston, Ill. Filed Nov. 15, 1943.

RALLY ROUND

FOR GAME BOARD.
Claims use since Nov. 11, 1943.

Ser. No. 467,316. EDMUND J. GEARY COMPANY, Detroit, Mich. Filed Feb. 10, 1944.

Red-hed
PLAYING CARDS

No claim is made to the words "Playing Cards" apart from the mark.
FOR PLAYING CARDS.
Claims use since Nov. 5, 1943.

Ser. No. 468,033. IDEAL NOVELTY & TOY CO., Long Island City, N. Y. Filed Mar. 7, 1944.

Pin-Up Girl

FOR DOLLS.
Claims use since Feb. 1, 1944.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 464,460. WESTERN ABRASIVE SUPPLY COMPANY, Reno, Nev. Filed Oct. 27, 1943.

Wasco

FOR ABRASIVE OR GRINDING MACHINERY.
Claims use since June 1942.

Ser. No. 464,580. MACHINERY MANUFACTURING CO., Los Angeles, Calif. Filed Nov. 1, 1943.

CAL CUTTER

The term "Cutter" is disclaimed apart from the mark.
FOR TOOLS—NAMELY, CUTTING TOOLS USED ON POWER DRIVEN METAL CUTTING MACHINES INCLUDING FACE MILLS, HALF SIDE MILLS, END MILLS, SHELL END MILLS, SLITTING SAWS, COUNTERBORE CUTTERS, AND INTERLOCKING MILL CUTTERS.
Claims use since Sept. 15, 1942.

Ser. No. 466,240. WHEEL TRUEING TOOL COMPANY OF DELAWARE, Detroit, Mich. Filed Dec. 31, 1943.



No claim is made to the illustration of the tool apart from the mark.
FOR DIAMOND POINTED TOOLS FOR DRESSING AND TRUEING.
Claims use since Jan. 1, 1943.

Ser. No. 466,799. R. G. LETOURNEAU, INC., Stockton, Calif., and Peoria, Ill. Filed Jan. 22, 1944.

TOURNALIFT

FOR SELF-PROPELLED HOIST TRUCKS.
Claims use since June 1, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 467,526. GEORGE M. LAUB, New York, N. Y. Filed Feb. 18, 1944.

FAMILY

FOR PAPER DRESS PATTERNS.
Claims use since Jan. 12, 1944.

Ser. No. 467,528. GEORGE M. LAUB, New York, N. Y. Filed Feb. 18, 1944.

Silhouette

FOR PAPER DRESS PATTERNS.
Claims use since Jan. 12, 1944.

Ser. No. 467,716. DAVIS ENGINEERING CORPORATION, Elizabeth, N. J. Filed Feb. 24, 1944.

FLOWDICATOR

FOR INDICATOR FOR INDICATING THE FLOW OF A LIQUID.
Claims use since July 1943.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 466,004. CORO, INC., New York, N. Y. Filed Dec. 23, 1943.

Thorobreds

FOR NECKLACES, BRACELETS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES, AND JEWELRY INITIALS.
Claims use since June 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 467,333. BRET CIPES, doing business as Process Company of America, New York, N. Y. Filed Feb. 11, 1944.

PRO-CO

FOR BOOK-ENDS.
Claims use since November 1943.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 466,851. THE STANDARD STOKER COMPANY, INC., New York, N. Y. Filed Jan. 24, 1944.

MB

FOR FUEL STOKERS.
Claims use since Oct. 25, 1939.

Ser. No. 466,917. W. A. KING, Brownsville, Tex. Filed Jan. 27, 1944.

WASK

FOR PYROPHORIC LIGHTERS.
Claims use since Dec. 14, 1943.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 466,325. DECCA RECORDS, INC., New York, N. Y. Filed Jan. 5, 1944.



The drawing is lined for black and gray. No claim is made to the words "Language" and "Series" apart from the mark.
FOR PHONOGRAPH RECORDS.
Claims use since December 1943.

Ser. No. 466,326. DECCA RECORDS, INC., New York, N. Y. Filed Jan. 5, 1944.

DECCA
PERSONALITY SERIES

No claim is made to the word "Series" apart from the mark.
FOR PHONOGRAPH RECORDS.
Claims use since November 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 456,811. D. MINARD SHAW, New York, N. Y. Filed Nov. 13, 1942.

MY Baby

FOR MAGAZINE.
Claims use since Jan. 9, 1941.

Ser. No. 465,909. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Dec. 20, 1943.

PERISH THE THOUGHT DEPT.

No registrable rights are claimed for the word "Dept." apart from the mark.
FOR MAGAZINE COLUMN.
Claims use since Jan. 5, 1929.

Ser. No. 467,758. THE HEARST CORPORATION, New York, N. Y. Filed Feb. 25, 1944.

IT'S A GIRL'S LIFE

FOR NEWSPAPER SECTION OR DEPARTMENT.
Claims use since Dec. 6, 1941.

Ser. No. 467,839. THE CHESAPEAKE AND OHIO RAILWAY COMPANY, Richmond, Va. Filed Feb. 29, 1944.

TRACKS

FOR MONTHLY MAGAZINE.
Claims use since Dec. 10, 1943.

CLASS 39

CLOTHING

Ser. No. 454,386. THE UNITED STATES SHOE CORPORATION, Cincinnati, Ohio. Filed July 21, 1942.



The drawing is lined to indicate black.
FOR SHOES MADE OF LEATHER, RUBBER, FABRIC AND/OR A COMBINATION OF THESE MATERIALS.
Claims use since October 1898.

Ser. No. 458,024. MILTON UNGER, Boston, Mass. Filed Jan. 19, 1943.

Hats by Jingo
Exclusive with LAMPELL'S
BOSTON — BALTIMORE

The words "Hats," "Exclusive with Lampell's," "Boston," and "Baltimore" are disclaimed apart from the mark.
FOR WOMEN'S HATS.
Claims use since 1942.

Ser. No. 459,940. MARY MUFFET, INC., St. Louis, Mo. Filed Apr. 16, 1943.



Applicant disclaims the word "Twill" except as shown.
FOR LADIES' AND MISSES' DRESSES.
Claims use since Feb. 15, 1942.

Ser. No. 465,677. DUMARI TEXTILE CO., INC., New York, N. Y. Filed Dec. 10, 1943.

Episode

FOR WOMEN'S AND MISSES' WEARING APPAREL — NAMELY, DRESSES, NIGHTGOWNS, WAISTS, AND NEGLIGEES.
Claims use since June 1943.

Ser. No. 465,733. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Dec. 13, 1943.

TUFF-MASTER

The word "Tuff" is disclaimed apart from the mark.
FOR MEN'S AND BOYS' HOSE MADE OF COTTON YARNS.
Claims use since June 11, 1943.

Ser. No. 467,135. JULIUS PINCUS, WILLIAM MARKS, AND IRVING PINCUS, Plymouth, Pa. Filed Feb. 3, 1944.

Blanché-Ann CLASSIC

Applicant disclaims the word "Classic" apart from the mark.
FOR LADIES' OUTER GARMENTS — NAMELY, DRESSES AND SUITS.
Claims use since Jan. 1, 1944.

Ser. No. 467,556. BROWNING KING & CO., INC., Philadelphia, Pa. Filed Feb. 19, 1944.

KINGUNA

FOR MEN'S AND YOUNG MEN'S TOPCOATS AND OVERCOATS.
Claims use since Jan. 2, 1941.

Ser. No. 467,575. JACOB SIEGEL COMPANY, Philadelphia, Pa. Filed Feb. 19, 1944.

ALPERU

ROYALE

FOR MEN'S AND YOUNG MEN'S TOPCOATS AND OVERCOATS.
Claims use since April 1940.

Ser. No. 467,612. THE LINADA COAT CO., INC., New York, N. Y. Filed Feb. 21, 1944.

LINADA ORIGINALS

The word "Originals" is disclaimed apart from the mark.
FOR LADIES', MISSES', AND JUNIORS' COATS, SUITS, SKIRTS, JACKETS, AND COAT AND SUIT ENSEMBLES.
Claims use since June 3, 1940.

Ser. No. 467,622. SMITHKEN & KLEINMAN, New York, N. Y. Filed Feb. 21, 1944.

A BONFIRE ORIGINAL

The word "Original" is disclaimed apart from the mark.
FOR BOYS', GIRLS' AND CHILDREN'S COATS, SUITS, COAT AND SUIT COMBINATIONS, AND LEGGING SETS.
Claims use since Dec. 15, 1942.

Ser. No. 467,647. COHAN ROTH & STIFFSON, New York, N. Y. Filed Feb. 22, 1944.

ULTRA TROJAN

FOR NECKTIES.
Claims use since December 1941.

Ser. No. 467,753. CONCHITA G. DE NIDO, Santurce, P. R. Filed Feb. 25, 1944.

Conchita

FOR INFANTS' AND CHILDREN'S DRESSES, BLOUSES, HANDKERCHIEFS, AND SCARFS.
Claims use since Jan. 15, 1944.

Ser. No. 467,763. THE MANHATTAN SHIRT COMPANY, New York, N. Y. Filed Feb. 25, 1944.

MAN-LO

FOR OUTER SHIRTS.
Claims use since Feb. 3, 1944.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 466,029. STAR PLASTIC MFG. CO. INC., New York, N. Y. Filed Dec. 23, 1943.

STAR SOR

FOR NAIL HEADS, BEADS, BUGLES, SEQUINS, AND SPANGLES ALL IN THE NATURE OF TRIMMINGS APPLIED DECORATIVELY ON GOODS, BY EMBROIDERING, FRINGING, OR PASTING THE AFOREMENTIONED ITEMS TO SAID GOODS.
Claims use since August 1942.

Ser. No. 467,085. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C. Filed Feb. 1, 1944.



NORTHERN PLAINS INDIANS CRAFTS ASSOCIATION

Applicant disclaims the phrase "Crafts Association" except as shown.
FOR BEADED BAGS (OPEN RECEPTACLES, OR WITH DRAWSTRING CLOSURE); MEDALLIONS IN THE NATURE OF FANCY WORK FOR USE IN MAKING DOILIES, BED SPREADS, AND DRAPERIES; HORN BUTTONS; HORN GARMENT ORNAMENTS; HORN HAIR ORNAMENTS; BEAD ORNAMENTS IN THE NATURE OF A HAIR DRESS, A GARMENT TRIMMING, OR LAPEL DECORATION; BEADWORK AND PORCUPINE-QUILL WORK BUTTONS AND NAPKIN RINGS; BEADWORK AND PORCUPINE-QUILL WORK RINGS FOR USE ON PILLOWS, DRAPERIES, OR OTHER ROOM FURNISHINGS.
Claims use since Aug. 23, 1943.

Ser. No. 467,279. TILLIE HOUTS, doing business as Tillie's Booquet, Wheaton, Ill. Filed Feb. 8, 1944.

TILLIE'S BOOQUET

Applicant disclaims "Booquet" except as shown.
FOR LAPEL, AND DRESS AND COAT ORNAMENTS.
Claims use since Aug. 19, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 466,987. HAYWARD-SCHUSTER CO., INC., New York, N. Y. Filed Jan. 29, 1944.



Applicant disclaims the outline of the label per se and the word "Pile" apart from the mark.
FOR WOOLEN PIECE GOODS.
Claims use since February 1937.

Ser. No. 466,989. HAYWARD-SCHUSTER CO., INC., New York, N. Y. Filed Jan. 29, 1944.

Velvamode

FOR WOOLEN PIECE GOODS.
Claims use since February 1937.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 467,817. RELIANCE DENTAL MFG. CO., Chicago, Ill. Filed Feb. 28, 1944.

Dura-Liner

The word "Liner" is disclaimed apart from the mark.
FOR DENTURE LINERS.
Claims use since Feb. 15, 1944.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 425,215. BERNICE G. GOLD, doing business as Delicious Chocolate Pudding Reg'd., Montreal, Quebec, Canada. Filed Nov. 6, 1939.

CHOC-O-PUD

FOR PREPARATION FOR MAKING PUDDINGS AND DESSERTS.
Claims use since Feb. 1, 1933.

Ser. No. 444,796. M. J. & H. J. MEYER CO., INC., New York, N. Y. Filed June 24, 1941.

KING DAVID

FOR CANNED FISH.
Claims use since 1926.

Ser. No. 459,454. VEDA LIMITED, Edinburgh, Scotland. Filed Mar. 27, 1943.

VEDA

FOR WHEAT FLOUR, BARLEY FLOUR, OAT FLOUR, CORN FLOUR AND RICE FLOUR; AND BREAD, BISCUITS, AND CAKES MADE OF SAID FLOUR.
Claims use since October 1900.

Ser. No. 467,232. CINDERELLA FOODS, Dawson, Ga. Filed Feb. 7, 1944.

GOLDEN SLIPPER

No claim is made to the word "Golden" apart from the mark.
FOR PEANUT BUTTER.
Claims use since Dec. 23, 1943.

Ser. No. 467,332. BLU MOON FOOD PRODUCTS, INC., Brooklyn, N. Y. Filed Feb. 11, 1944.

LARRY'S

FOR CHOCOLATE SYRUP FOR USE IN MAKING MILK DRINKS.
Claims use since 1930.

Ser. No. 467,577. NORBERG THOMPSON, doing business as A. Granday Canning Company, Key West, Fla. Filed Feb. 19, 1944. Under 10-year proviso.

A. GRANDAY'S

FOR CANNED GREEN SEA TURTLE MEAT AND SOUP.
Claims use since Jan. 18, 1895.

Ser. No. 467,752. CINDERELLA FOODS, Dawson, Ga. Filed Feb. 25, 1944.

Prince Charming

Applicant is the owner of trade-mark registration No. 177,116.
FOR PEANUT BUTTER.
Claims use since Dec. 11, 1943.

Ser. No. 467,871. THE BORDEN COMPANY, New York, N. Y. Filed Mar. 1, 1944.

W. S. B.

FOR DRIED MIXTURE OF SOY FLOUR, BUTTERMILK, AND WHEY FOR USE IN BREAD, ROLLS, CAKE AND OTHER BAKED GOODS.
Claims use since Jan. 29, 1944.

Ser. No. 467,971. NICK GIANANDREA, doing business as Valley Growers Exchange, San Jose, Calif. Filed Mar. 4, 1944.

Surety
CALIFORNIA VEGETABLES
VALLEY GROWERS EXCHANGE

No claim is made to the words other than "Surety" apart from the mark.
FOR FRESH VEGETABLES.
Claims use since Feb. 1, 1944.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 466,377. THE GIBSON DISTILLING COMPANY, New York, N. Y. Filed Jan. 7, 1944. Under 10-year proviso.

PICKWICK CLUB

FOR WHISKEY, GIN, BRANDY, RUM, AND ALCOHOLIC CORDIALS.
Claims use since 1868.

Ser. No. 467,589. CAMEO VINEYARDS CO., Fresno, Calif. Filed Feb. 21, 1944.

Croix Royale
LIQUEUR
STREGONE

No claim is made to the word "Liqueur" apart from the mark.
FOR LIQUEURS.
Claims use since Feb. 10, 1944.

Ser. No. 467,770. RICHARDS, BOGGS & KING, INC., Chineapolis, Minn. Filed Mar. 8, 1944.

TEAKWOOD

FOR WHISKEY.
Claims use since March 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 467,770. RICHARD BOGGS & KING. INC., Chicago, Ill. Filed Feb. 25, 1944.

KADAR

FOR ARTIFICIAL LEATHER.
Claims use since Oct. 14, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 2, 1944

406,833. DOLLS. GRACE NEFF, doing business as Kate Greenaway Designs, New York, N. Y.
Filed January 26, 1942. Serial No. 450,487. PUBLISHED FEBRUARY 22, 1944. Class 22.

406,834. PLANT BALLS. HENRY PHILLIPS, Barryton, Mich.
Filed September 15, 1942. Serial No. 455,539. PUBLISHED FEBRUARY 22, 1944. Class 1.

406,835. PLANT BALLS. HENRY PHILLIPS, Barryton, Mich.
Filed September 15, 1942. Serial No. 455,540. PUBLISHED FEBRUARY 22, 1944. Class 1.

406,836. ROTATING REGULATORS FOR CONTROLLING THE EXCITATION OF ELECTRIC GENERATORS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed October 10, 1942. Serial No. 456,135. PUBLISHED February 22, 1944. Class 21.

406,837. OFFICE FURNITURE—NAMELY, DESKS, CHAIRS, TABLES AND FILING CABINETS, FILING CASES, FILING BOXES, FILE HOLDERS, SEPARATORS, BOARDS, FRAMES, TUBS, TRANSFER RACKS AND CASES FOR MAINTAINING CARDS AND PAPERS IN PRESCRIBED ORDER AND ARRANGEMENT. VISUAL RECORDS CORPORATION, Washington, D. C.
Filed November 10, 1942. Serial No. 456,735. PUBLISHED May 4, 1943. Class 32.

406,838. ZINC CHROMATE COMPOUND IMPREGNATED MATERIAL IN THE FORM OF A TAPE FOR USE IN SEALING FUEL TANKS AND EFFECTING GENERAL HULL WATER TIGHTNESS AND FOR SIMILAR PURPOSES. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed November 18, 1942. Serial No. 456,896. PUBLISHED FEBRUARY 22, 1944. Class 12.

406,839. FLOWER BULBS. UNIVERSAL BULB CORPORATION, Yonkers, N. Y.
Filed November 26, 1942. Serial No. 457,071. PUBLISHED FEBRUARY 22, 1944. Class 1.

406,840. WINDSHIELDS OF TRANSPARENT MATERIAL, NOT INCLUDING GLASS. CROASDALE & DE ANGELIS, Haverford Township, Delaware County, Pa.
Filed December 3, 1942. Serial No. 457,185. PUBLISHED MARCH 2, 1943. Class 19.

406,841. OLEOMARGARINE. THE CUDAHY PACKING COMPANY, Chicago, Ill.
Filed June 11, 1943. Serial No. 461,305. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,842. APPARATUS IN TELEPHONE SYSTEMS—NAMELY, SUBSTATION PROTECTORS, CENTRAL-OFFICE DISTRIBUTING FRAMES, PROTECTED AND UNPROTECTED TERMINAL UNITS, AND UTILITY PROTECTORS. COOK ELECTRIC COMPANY, Chicago, Ill.
Filed June 14, 1943. Serial No. 461,354. PUBLISHED FEBRUARY 22, 1944. Class 21.

406,843. WINDOW GLASS SUBSTITUTE. C. B. HENSCHEL MANUFACTURING CO., Milwaukee, Wis.
Filed June 14, 1943. Serial No. 461,376. PUBLISHED FEBRUARY 22, 1944. Class 50.

406,844. SOUND ABSORBING FIBREBOARD PANELS HAVING A PLURALITY OF SOUND ENTRY OPENINGS FORMED IN A FACE THEREOF. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed June 30, 1943. Serial No. 461,762. PUBLISHED FEBRUARY 22, 1944. Class 12.

406,845. POTTERY DINNERWARE—NAMELY, BAKERS, NAPPIES, SALAD BOWLS, CASSEROLES, PLATTERS, PLATES, FRUIT DISHES, CEREAL DISHES, SOUP CUPS, PICKLE DISHES, SAUCE BOATS, SUGARS, CREAMERS, TEAPOTS, COFFEEPOTS, CUPS AND SAUCERS. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill.
Filed July 3, 1943. Serial No. 461,840. PUBLISHED FEBRUARY 22, 1944. Class 30.

406,846. PENCILS AND TRANSFER PAPER. WALTER M. FUCHS, Detroit, Mich.
Filed July 3, 1943. Serial No. 461,847. PUBLISHED FEBRUARY 22, 1944. Class 37.

406,847. CANDY. JONAT CANDY CORP., Brooklyn, N. Y.
Filed August 26, 1943. Serial No. 463,023. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,848. PACKINGS AND GASKETS FOR WARM AND COLD AIR REGISTERS. JOHN R. RAUHUT, doing business as Excel Heating & Air Conditioning Co., Chicago, Ill.
Filed July 19, 1943. Serial No. 462,169. PUBLISHED FEBRUARY 22, 1944. Class 35.

406,849. AIRPLANES AND STRUCTURAL PARTS THEREFOR. LOCKHEED AIRCRAFT CORPORATION, Burbank, Calif.
Filed October 25, 1943. Serial No. 464,395. PUBLISHED FEBRUARY 22, 1944. Class 19.

406,850. FIRE AND BURGLAR PROOF RECEPTACLES—NAMELY, SAFES, CABINETS, VAULTS AND STRONG BOXES, AND DOORS, LIDS, DRAWERS, AND SHELVES FOR USE WITH AND TO COMPLETELY EQUIP THE FOREGOING. MEILINK STEEL SAFE CO., Toledo, Ohio.
Filed July 30, 1943. Serial No. 462,405. PUBLISHED FEBRUARY 8, 1944. Class 25.

406,851. WATCHES, WATCH MOVEMENTS, WATCH CASES, NAVIGATION WATCHES, CALENDAR WATCHES, AVIATION WATCHES, AND CHRONOMETERS. A. WORONOCK & SON, New York, N. Y.
Filed September 30, 1943. Serial No. 463,804. PUBLISHED FEBRUARY 22, 1944. Class 27.

406,852. ANIMAL TRAPS. MCGILL METAL PRODUCTS COMPANY, Marengo, Ill.
Filed October 29, 1943. Serial No. 464,513. PUBLISHED FEBRUARY 22, 1944. Class 50.

406,853. HORSE AND MULE FEED. FORT SMITH COTTON OIL CO., Fort Smith, Ark.
Filed November 2, 1943. Serial No. 464,606. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,854. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES, AND MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 2, 1943. Serial No. 464,620. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,855. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES, AND MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 2, 1943. Serial No. 464,621. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,856. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES, AND MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 2, 1943. Serial No. 464,622. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,857. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES, MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 2, 1943. Serial No. 464,624. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,858. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES, MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 2, 1943. Serial No. 464,625. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,859. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 5, 1943. Serial No. 464,763. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,860. BROOCHES, BRACELETS, NECKLACES, LAVALIERS, PENDANTS AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 5, 1943. Serial No. 464,764. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,861. ADDRESS BOOKS, DIARIES, AND MEMORANDUM BOOKS. HORNSTEIN SALES, Chicago, Ill.
Filed November 8, 1943. Serial No. 464,818. PUBLISHED FEBRUARY 22, 1944. Class 37.

406,862. WOMEN'S HANDBAG FRAMES AND POCKETBOOK FRAMES MADE OF PLASTIC MATERIAL. MODERN PLASTICS MANUFACTURING COMPANY, New York, N. Y.
Filed November 17, 1943. Serial No. 465,077. PUBLISHED JANUARY 25, 1944. Class 3.

406,863. WATCHES. ELREX WATCH COMPANY, INC., New York, N. Y.
Filed November 18, 1943. Serial No. 465,104. PUBLISHED FEBRUARY 22, 1944. Class 27.

406,864. SMOKERS' PIPES. JOHN HUDSON MOORE, INC., New York, N. Y.
Filed November 19, 1943. Serial No. 465,143. PUBLISHED FEBRUARY 22, 1944. Class 8.

406,865. LADDERS. HUGH W. RICHARDS, doing business as H. W. Richards Lumber Co., Carrollton, Ga.
Filed November 19, 1943. Serial No. 465,151. PUBLISHED FEBRUARY 22, 1944. Class 50.

406,866. HAND-WROUGHT JEWELRY. PAUL H. ACKERMAN, Phillipsburg, N. J.
Filed November 20, 1943. Serial No. 465,173. PUBLISHED FEBRUARY 22, 1944. Class 28.

406,867. BOARD AND CARD GAMES. EMPIRE LITHOGRAPHING COMPANY, INC., New York, N. Y.
Filed November 25, 1943. Serial No. 465,287. PUBLISHED FEBRUARY 22, 1944. Class 22.

406,868. ACTIVATED CARBON. PITTSBURGH COKE & IRON COMPANY, Pittsburgh, Pa.
Filed November 26, 1943. Serial No. 465,324. PUBLISHED FEBRUARY 22, 1944. Class 1.

406,869. A COMBINATION OF DRY SKIMMED MILK AND A SMALL PERCENTAGE OF CEREAL FLOUR USED IN BAKING FOODS. BOWMAN DAIRY COMPANY, Chicago, Ill.
Filed November 29, 1943. Serial No. 465,353. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,870. OLIVE OIL AND OLIVES IN TIN AND GLASS. SUPERIOR OLIVE PRODUCTS CO., Visalia, Calif.
Filed December 8, 1943. Serial No. 465,640. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,871. PREPARATION FOR MAKING A FOOD BEVERAGE CONSISTING OF THE DRIED LEAFY PORTION OF CEREAL GRASSES. CEROPHYL LABORATORIES, INC., Kansas City, Mo.
Filed December 13, 1943. Serial No. 465,731. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,872. BOXING AND FIGHTING GLOVES, AND PUNCHING BAGS. A. E. LEVINSON, San Francisco, Calif., assignor to C. T. Braun, San Francisco, Calif.
Filed December 17, 1943. Serial No. 465,844. PUBLISHED FEBRUARY 22, 1944. Class 22.

406,873. CHEWING GUM. AMERICAN CHEWING PRODUCTS CORP., Newark, N. J.
Filed December 18, 1943. Serial No. 465,859. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,874. A COMPOUND OF STABILIZED WHEAT GERM, SOYA AND TREATED CEREAL FLOURS. NORTHWESTERN YEAST COMPANY, Chicago, Ill.
Filed December 18, 1943. Serial No. 465,876. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,875. CANNED FRUITS, CANNED VEGETABLES, CANNED FRUIT COCKTAIL, CANNED FRUITS FOR SALAD, CANNED FRUIT JUICE FOR FOOD PURPOSES, CANNED VEGETABLE JUICES FOR FOOD PURPOSES, CANNED TOMATO SAUCE AND TOMATO CATSUP. F. M. BALL & COMPANY, Oakland, Calif.
Filed December 21, 1943. Serial No. 465,939. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,876. CANNED FRUITS. BANNING CANNING CO., Banning, Calif.
Filed December 21, 1943. Serial No. 465,940. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,877. DESSERT POWDER. GENERAL DESSERTS CORPORATION, New York, N. Y.
Filed December 24, 1943. Serial No. 466,039. PUBLISHED FEBRUARY 22, 1944. Class 46.

406,878. SANITARY NAPKINS. THE HOSPITAL SPECIALTY COMPANY, Cleveland, Ohio.
Filed December 27, 1943. Serial No. 466,086. PUBLISHED FEBRUARY 22, 1944. Class 44.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

406,879. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MACSELWORTH CORPORATION, Ardmore, Pa. Filed Mar. 25, 1941. Serial No. 441,917.



Applicant disclaims the words "Silver Bath" and "The Time and Silver Saver" apart from the mark. The drawing is lined for silver.

FOR SPECIAL PREPARATION IN PASTE FORM FOR REMOVING TARNISH FROM STERLING OR PLATED SILVER AND FOR RESTORING THE LUSTRE THEREOF, BY A RUBBING APPLICATION THERETO, AND ALSO FOR USE IN WATER TO FORM AN ELECTROLYTIC BATH FOR USE IN REMOVING TARNISH AND RESTORING LUSTRE TO STERLING AND PLATED SILVERWARE AND ARTICLES OF ALUMINUM.
Claims use since Oct. 5, 1940.

406,880. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WALTER S. DYAR, doing business as Dyar Hybrid Seed Corn Company, Metamora, Ill. Filed Oct. 17, 1942. Serial No. 456,258.



Without waiving any common law rights thereto applicant disclaims the use of the surname "Dyar," and the words "It pays to buy top quality hybrids" and "Accurately Graded" apart from the mark.
FOR HYBRID SEED CORN.
Claims use since June 1, 1942.

406,881. (CLASS 32. FURNITURE AND UPHOLSTERY.) MASTER MANUFACTURING CORPORATION, Sioux City, Iowa. Filed Dec. 16, 1942. Serial No. 457,442.

CONSERVATOR

FOR FOOD CABINETS.
Claims use since Sept. 24, 1942.

406,882. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed Mar. 6, 1943. Serial No. 458,932.

RE-SHADE

FOR WINDOW SHADES.
Claims use since Feb. 1, 1943.

406,883. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Apr. 6, 1943. Serial No. 459,674.



FOR PURE, TECHNICAL, OR COMMERCIAL HYDROCARBON CHEMICALS OF 1 TO 16 CARBON ATOMS PER MOLECULE—NAMELY, PURE METHANE, PROPANE, ISOBUTANE, NORMAL BUTANE, ETHANE, BUTANE, PENTANE, ISOPENTANE, NORMAL PENTANE, NEOHEXANE, 2-METHYL PENTANE, 3-METHYL PENTANE, NORMAL HEXANE, HEXANE, HEPTANE, NORMAL HEPTANE, ISOOCTANE, OCTANE, CYCLOPENTANE, METHYL CYCLOPENTANE, PROPYLENE, ISOBUTYLENE, BUTENE-1, BUTENE-2, PENTENE-1, PENTENE-2, ISOHEPTENE, ISOOCTENE, BUTADIENE, TOLUENE, NAPHTHA, AND PETROLEUM ETHER.
Claims use since Sept. 12, 1940.

406,884. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLBROOKE CANDIES, INC., Brooklyn, N. Y. Filed Apr. 30, 1943. Serial No. 460,299.

Gorham's

FOR CANDY.
Claims use since May 1, 1920.

406,885. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) DAISY BRADFORD, doing business as Madam S. B. Bradford, Idlewild, Mich. Filed June 10, 1943. Serial No. 461,275.

MADAM S. B. BRADFORD ★ HAIR GROWER ★

FOR HAIR TONIC AND OINTMENT FOR STIMULATING THE GROWTH OF HAIR.
Claims use since 1934.

406,886. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) IVOR RICH, New York, N. Y. Filed Aug. 27, 1943. Serial No. 463,052.

soft-glo

FOR FACE POWDER.
Claims use since Jan. 21, 1943.

406,887. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) WILLARD P. LUNTE, doing businuess as The Limber-Up Laboratories, Cleveland, Ohio. Filed Nov. 12, 1943. Serial No. 464,948.

Limber-Up!

FOR PREPARATION FOR RELIEF OF RHEUMATIC AND MUSCULAR ACHES AND PAINS.
Claims use since October 1935.

406,888. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) PAUL C. BRAGG, doing business as Live Food Products Co., Burbank, Calif. Filed Nov. 20, 1943. Serial No. 465,177.

BRAGG

B FORTO-FIDE

FOR VITAMIN TABLETS.
Claims use since 1939.

406,889. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) AMERICAN DIETAIDS COMPANY, INC., Yonkers, N. Y. Filed Dec. 16, 1943. Serial No. 465,790.

NYCE

FOR COLD CREAM.
Claims use since May 30, 1938.

406,890. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LA BOUR COMPANY, INC., Elkhart, Ind. Filed Dec. 29, 1943. Serial No. 466,170.

LABOUR

FOR CENTRIFUGAL PUMPS AND PARTS THEREOF OF THE NON-PRIMING AND THE SELF-PRIMING TYPES, AND PUMPING UNITS EMPLOYING SUCH TYPES OF PUMPS EITHER COUPLING-CONNECTED OR DIRECT CONNECTED TO THE DRIVING DEVICE.
Claims use since January 1922.

406,891. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) HEYMAN COMPANY, New York, N. Y. Filed Jan. 21, 1944. Serial No. 466,758.

JAIPUR

FOR CRUDE GROUND TALC.
Claims use since Jan. 10, 1936.

406,892. (CLASS 33. GLASSWARE.) SESSIONS BROTHERS COMPANY, Enterprise, Ala. Filed Jan. 26, 1944. Serial No. 466,903.

AMERICAN

FRUIT JARS

FOR FRUIT JARS MADE OF GLASS FOR CANNING FRUITS AND VEGETABLES.
Claims use since December 1939.

406,893. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK RYSER CO., doing business as Red Rooster Foods, Chicago, Ill., and Mayville, Wis. Filed Jan. 31, 1944. Serial No. 467,048.

MILLTOWN

FOR CHEESE.
Claims use since Oct. 3, 1941.

406,894. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) B. D. EISENDRATH TANNING CO., Chicago, Ill. Filed Feb. 4, 1944. Serial No. 467,148.

KINROSS GRAIN

FOR LEATHER.
Claims use since July 1, 1927.

TRADE-MARK REGISTRATIONS RENEWED

25,168. **MAGNOLIA.** ANTIFRICTION METALS, ALLOYS, AND JOURNAL-BEARINGS. Registered August 21, 1894. MAGNOLIA METAL COMPANY, New York, N. Y. Re-renewed August 21, 1944, to Magnolia Metal Company, Elizabeth, N. J., a corporation of West Virginia.

25,169. **REPRESENTATION OF A MAGNOLIA BUD.** ANTIFRICTION METALS, ALLOYS, AND JOURNAL-BEARINGS. Registered August 21, 1894. MAGNOLIA METAL COMPANY, New York, N. Y. Re-renewed August 21, 1944, to Magnolia Metal Company, Elizabeth, N. J., a corporation of West Virginia.

160,220. **FLATTER-U.** BRASSIÈRES AND CORSETS. Registered October 17, 1922. THE KABO COMPANY. Renewed October 17, 1942, to Kabo Corset Company, Chicago, Ill., a corporation of Illinois, successor.

164,809. **F. E. B.** IRON AND STEEL. Registered February 27, 1923. FORSBACKA JERNVERKS AKTIEBOLAG, Forsbacka, Sweden, a corporation of Sweden. Renewed February 27, 1943.

169,176. **"BOOMERANG" AND DRAWING.** MOUTH ORGANS, ACCORDIONS, FLUTES, AND FLAGEOLETS. Registered June 12, 1923. MICHAEL FRANCOIS ALBERT, doing business as J. Albert and Son. Renewed June 12, 1943, to J. Albert and Son Pty. Limited, Sydney, New South Wales, Australia, an incorporated company of New South Wales, Australia, assignee.

178,513. **RADIOVOX.** TELEPHONE RECEIVING SETS AND RADIO RECEIVING SETS. Registered January 15, 1924. THE MAGNAVOX COMPANY, Oakland, Calif. Renewed January 15, 1944, to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware, assignee by mesne assignments.

179,490. **LYKSILK.** COTTON PIECE GOODS. Registered February 12, 1924. EDWIN E. BERLINER & CO. Renewed February 12, 1944, to Edwin E. Berliner & Co., New York, N. Y., a firm of limited partnership, assignee by mesne assignments.

180,170. **GLOSSO.** BRILLIANTINE. Registered February 26, 1924. MARINELLO COMPANY, La Crosse, Wis. Renewed February 26, 1944, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

180,196. **"K" AND DESIGN.** WATCHCASES. Registered February 26, 1924. AARON KAMION, doing business as A. Kamion, New York, N. Y. Renewed February 26, 1944.

180,202. **SUPREME.** WATCHCASES AND WATCH MOVEMENTS. Registered February 26, 1924. ILLINOIS WATCH CASE COMPANY. Renewed February 26, 1944, to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois, assignee.

180,415. **VARSITY.** BAND AND ORCHESTRAL MUSICAL INSTRUMENTS—NAMELY, MANDOLINS, BANJOS, GUITARS, UKULELES, VIOLINS, DRUMS, CORNETS, TROMBONES, AND TRUMPETS. Registered February 26, 1924. H. A. WEYMANN & SON, INC. Renewed February 26, 1944, to Weymann Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania, assignee.

180,528. **LENTHÉRIC.** PERFUMES, TOILET WATERS, EAU DE COLOGNE, BRILLIANTINE, ROUGE, LOTION FOR THE SKIN AND HAIR, DYE FOR THE HAIR. Registered March 4, 1924. VELSCH & HOLTZ, Paris, France. Renewed March 4, 1944, to Lentheric Incorporated, New York, N. Y., a corporation of New York, assignee by mesne assignments.

180,540. **COTY.** PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET POWDER, LOTION FOR THE SKIN AND HAIR, BRILLIANTINE, DENTIFRICES, ROUGE, EAU DE COLOGNE. Registered March 4, 1924. COTY, INC., Wilmington, Del., and New York, N. Y. Renewed March 4, 1944, to Coty, Inc., New York, N. Y., a corporation of Delaware, successor.

180,681. **ROSENTEUR.** ESSENTIAL OILS SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered March 4, 1924. MORANA, INCORPORATED. Renewed March 4, 1944, to Van Ameringen-Haebler, Inc., New York, N. Y., a corporation of New York, assignee.

180,682. **JASENTEUR.** ESSENTIAL OILS SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered March 4, 1924. MORANA, INCORPORATED. Renewed March 4, 1944, to Van Ameringen-Haebler, Inc., New York, N. Y., a corporation of New York, assignee.

130,683. **LYSENTEUR.** ESSENTIAL OILS SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered March 4, 1924. MORANA, INCORPORATED. Renewed March 4, 1944, to Van Ameringen-Haebler, Inc., New York, N. Y., a corporation of New York, assignee.

180,684. **NARSENTEUR.** ESSENTIAL OILS SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered March 4, 1924. MORANA, INCORPORATED. Renewed March 4, 1944, to Van Ameringen-Haebler, Inc., New York, N. Y., a corporation of New York, assignee.

180,685. **VIOSENTEUR.** ESSENTIAL OILS SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered March 4, 1924. MORANA, INCORPORATED. Renewed March 4, 1944, to Van Ameringen-Haebler, Inc., New York, N. Y., a corporation of New York, assignee.

180,782. **"TIP TOP" AND DRAWING.** FRESH GRAPES. Registered March 4, 1924. NAVELENCIA FRUIT GROWERS, Navelencia, Calif. Renewed March 4, 1944, to American Fruit Growers Incorporated, Pittsburgh, Pa., a corporation of Delaware, successor.

181,272. **CREFORT.** CHEESE. Registered March 18, 1924. PHENIX CHEESE CO., New York, N. Y. Renewed March 18, 1944, to Kraft Cheese Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

181,274. **"LA FAMILIA" AND DRAWING.** WHEAT FLOUR. Registered March 18, 1924. FISHER FLOURING MILLS COMPANY, Seattle, Wash., a corporation of Washington. Renewed March 18, 1944.

181,505. **"FELLOWS" AND DRAWING.** PREPARATION OF HYPOPHOSPHITES. Registered March 18, 1924. FELLOWS MEDICAL MANUFACTURING COMPANY, INC., New York, N. Y., a corporation of New York. Renewed March 18, 1944.

181,555. **COBCUT.** CANNED GOODS—NAMELY, CORN. Registered March 25, 1924. HAAS-LIEBER GROCERY COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed March 25, 1944.

181,607. **BUDDIBOY.** SUITS, OVERCOATS, SWEATERS, HATS, AND CAPS, ALL FOR BOYS. Registered March 25, 1924. J. SAMUELS AND BROTHER, INCORPORATED. Renewed March 25, 1944, to The Outlet Company, Providence, R. I., a corporation of Rhode Island, assignee.

181,613. **ARBORLUX.** DECORATIVE ELECTRIC-LIGHTING OUTFITS FOR CHRISTMAS TREES AND THE LIKE. Registered March 25, 1924. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed March 25, 1944.

181,927. **"BETTER BREAD" AND DRAWING.** WHEAT FLOUR. Registered April 1, 1924. THE ABILENE FLOUR MILLS COMPANY. Renewed April 1, 1944, to The Abilene Flour Mills Company, Abilene, Kans., a corporation of Delaware, assignee.

182,009. **ROAMER.** RUBBER HEELS. Registered April 1, 1924. LAING, HARRAR & CHAMBERLIN, Philadelphia, Pa. Renewed April 1, 1944, to The O'Sullivan Rubber Company, Inc., Winchester, Va., a corporation of Delaware, assignee.

182,184. **REPRESENTATION OF A BELL-BOY.** MEN'S SUITS, COATS, VESTS, AND TROUSERS. Registered April 1, 1924. MICHAELS, STERN & Co. Renewed April 1, 1944, to Michaels, Stern & Company, Inc., Rochester, N. Y., a corporation of New York, successor.

182,348. **YOSEMITE.** CANNED FRUITS, CANNED VEGETABLES, OLIVES, PICKLES, CANNED OYSTERS, FOOD-FLAVORING EXTRACTS, SALAD OIL, TOMATO CATCHUP, VINEGAR, TEA, COFFEE, AND BREAKFAST BEVERAGE COMPOUND USED AS A SUBSTITUTE FOR COFFEE. Registered April 8, 1924. WILLIAM CLUFF CO., Wilmington, Del., and San Francisco, Calif. Renewed April 8, 1944, to Filice & Perrelli Canning Company, Incorporated, Richmond, Calif., a corporation of California, assignee.

182,719. **"MAIZENA" AND DRAWING.** CORN FLOUR. Registered April 15, 1924. CORN PRODUCTS REFINING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed April 15, 1944.

182,747. **ROSE.** FRESH GRAPES. Registered April 15, 1924. THE SANGER FRUIT GROWERS ASSOCIATION, Sanger, Calif., a cooperative corporation of California. Renewed April 15, 1944.

182,938. **TAILOR MAID.** LADIES' BLOUSES; LADIES', MEN'S, AND CHILDREN'S DRESS SHIRTS; LADIES', MEN'S, AND CHILDREN'S NEGLIGEE SHIRTS; LADIES', MEN'S, AND CHILDREN'S WORK SHIRTS. Registered April 22, 1924. RICE-KLEIN Co. Renewed April 22, 1944, to Tailor Maid Blouses, Los Angeles, Calif., a limited partnership, successor.

183,269. **"L. A." AND DESIGN.** ELECTRIC MOTORS, GENERATORS, ROTARY CONVERTERS, INVERTED ROTARIES, FREQUENCY CHANGERS, CONTROLLERS, AND COMPENSATORS. Registered April 29, 1924. THE LOUIS ALLIS COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed April 29, 1944.

183,401. **"SERVUS" AND DESIGN.** RUBBER SHOES AND RUBBER-SOLED CANVAS SHOES. Registered April 29, 1924. THE SERVUS RUBBER COMPANY, Rock Island, Ill., a corporation of Illinois. Renewed April 29, 1944.

183,467. **O-KAY.** BRAN FLAKES PREPARED READY FOR HUMAN CONSUMPTION. Registered April 29, 1924. UNCLE SAM BREAKFAST FOOD COMPANY, Omaha, Nebr., a corporation of Nebraska. Renewed April 29, 1944.

183,640. **MYOSOTIS.** SILK PIECE GOODS. Registered May 6, 1924. COURTAULDS, LIMITED, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed May 6, 1944.

184,147. **MON-O-POST.** ENVELOPES. Registered May 20, 1924. UNITED STATES ENVELOPE COMPANY, Springfield, Mass., a corporation of Maine. Renewed May 20, 1944.

184,251. **TURNOVER.** DOORS. Registered May 20, 1924. J. EDWARD OGDEN COMPANY INCORPORATED, New York, N. Y., a corporation of New Jersey. Renewed May 20, 1944.

184,400. **RODINE.** INGREDIENT IN SOLID OR LIQUID FORM FOR CONTROLLING ACID BATHS USED FOR PICKLING METALS. Registered May 20, 1924. AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Renewed May 20, 1944, to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware.

184,919. **CHAMOISETTE.** FABRIC GLOVES. Registered June 3, 1924. JULIUS KAYSER & Co., New York, N. Y., a corporation of New York. Renewed June 3, 1944.

186,067. **"TRI-A-NOL".** OIL USED IN FABRIC TREATMENT FOR DEGUMMING AND KIER BOILING AND IN THE COMBINED BOILING OFF AND DYEING OPERATIONS. Registered July 1, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 1, 1944.

186,068. **"KIER-WITE".** PREPARATION FOR THE TREATMENT OF TEXTILE FABRICS DURING BOILING-OUT OPERATIONS. Registered July 1, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 1, 1944.

186,157. **"TRISCO".** SOFTENER, INTENSIFIER, AND FINISH FOR USE IN TREATING TEXTILE FABRICS. Registered July 1, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 1, 1944.

186,158. **"BROSCO".** SCOURING AND FULLING OILS, AND SOFTENERS USED IN THE TREATMENT OF TEXTILES. Registered July 1, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 1, 1944.

186,159. **"CREAMOYL".** SOFTENERS FOR SOFTENING AND FINISHING IN THE TEXTILE TRADES. Registered July 1, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 1, 1944.

186,160. **"TRISULPHOIL".** PREPARATION FOR USE IN TREATING TEXTILE FABRICS, PARTICULARLY DURING THE DYEING OPERATION. Registered July 1, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 1, 1944.

186,366. **"STS".** SOAPS FOR USE BY THE TEXTILE AND LAUNDRY TRADES. Registered July 8, 1924. SCHOLLER BROTHERS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 8, 1944.

186,389. **JOBBER TOPICS.** MONTHLY MAGAZINE. Registered July 8, 1924. TOPICS, INCORPORATED. Renewed July 8, 1944, to The Irving-Cloud Publishing Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

186,588. **"BIG YANK JUNIOR" AND DESIGN.** WORK SHIRTS. Registered July 22, 1924. RELIANCE MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 22, 1944.

186,646. **BETTY BROOKS.** WOMEN'S AND CHILDREN'S APRONS, DRESSES, HOUSE DRESSES, PORCH FROCKS, COATS. Registered July 22, 1924. LESTER I. BROOKS, doing business as Betty Brooks Apron Co., Los Angeles, Calif. Renewed July 22, 1944, to Betty Brooks Co., Huntington Park, Calif., a firm, successor.

186,657. **TRUE FORM.** CORSETS AND BRASSIÈRES. Registered July 22, 1924. TRUE FORM CORSET Co. Renewed July 22, 1944, to William Barg, doing business as True Form Corset Co., Philadelphia, Pa., assignee.

186,867. **"COLLEGE MAID" AND DRAWING.** HOSIERY. Registered July 22, 1924. MICHELMAN-GRASS HOSIERY Co. Renewed July 22, 1944, to College Maid Company, Inc., New York, N. Y., a corporation of New York, successor.

187,103. **CALITE.** HEAT-RESISTING AND HEAT-ENDURING ALLOYS. Registered July 29, 1924. THE CALORIZING COMPANY, Pittsburgh, Pa., a corporation of Delaware. Renewed July 29, 1944.

187,150. **SANIMAC.** WOMEN'S SANITARY NAPKINS. Registered July 29, 1924. R. H. MACY & Co., INC., New York, N. Y., a corporation of New York. Renewed July 29, 1944.

187,312. **ECONOMY.** CAST, DRAWN, ROLLED, EXTRUDED, PRESSED, AND MACHINED NONFERROUS METALS AND ALLOYS AND INGOTS, CASTINGS, SHEETS, ROLLS, WIRE STRIPS, AND BARS MADE FROM SUCH METALS AND ALLOYS. Registered July 29, 1924. ANACONDA COPPER MINING COMPANY, New York, N. Y. Renewed July 29, 1944, to Anaconda Copper Mining Company, Butte, Mont., a corporation of Montana.

187,492. **POUR VOUS.** TALCUM, FACE POWDER, BATH SALTS, SACHET, TOOTH POWDER, ALMOND MEAL, TOILET WATER, HEADACHE COLOGNE, SMELLING SALTS, DRY CREAM, COLD CREAM, TOOTH PASTE, PERFUME, LIP ROUGE, BATH POWDER, AND TOILET CERATE. Registered August 5, 1924. RICHARD HUDNUT, New York, N. Y., a corporation of New York. Renewed August 5, 1944.

187,536. **CLIMAX.** READY-MIXED PAINT, FLAT WALL PAINT, ROOF PAINT, CEMENT PAINT, FLOOR PAINT, GLOSS PAINT, VARNISH STAINS, OIL STAINS, PAINT ENAMELS, FLAT MISSION STAIN, BLACK SLATING, BRONZE LIQUID, BANANA OIL, FLAT COLORS, OIL COLORS (IN PASTE FORM), JAPAN COLORS (IN PASTE FORM), AND WOOD FILLERS. Registered August 5, 1924. ANSON R. THOMPSON Co., INC., Troy, N. Y., a corporation of New York. Renewed August 5, 1944.

187,538. **EGYPTIAN.** LACQUERS, LACQUER THINNERS AND LACQUER ENAMELS. Registered August 5, 1924. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed August 5, 1944.

187,704. **REPRESENTATION OF GIRL IN COSTUME.** COSMETIC CONTAINERS—VIZ, POWDER BOXES, ROUGE BOXES, VANITY CASES, PERFUME VIALS, LIP STICKS, AND EYEBROW PENCILS, THE SAME BEING MADE OF GOLD, SILVER, GOLD-FILLED, AND SILVER-PLATED METAL. Registered August 12, 1924. ELGIN AMERICAN MANUFACTURING Co. Renewed August 12, 1944, to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois, assignee by mesne assignments.

187,737. **MOBO.** FURNITURE AND AUTOMOBILE BODY POLISHES. Registered August 12, 1924. JOHN T. STANLEY Co., INC., New York, N. Y., a corporation of New York. Renewed August 12, 1944.

187,763. **DRYVIN.** EXPANSION SHIELDS. Registered August 12, 1924. STAR EXPANSION BOLT COMPANY. Renewed August 12, 1944, to Star Expansion Bolt Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

187,764. **"CHARTER OAK" AND DRAWING.** FUSE FOR BLASTING AND MINING PURPOSES. Registered August 12, 1924. THE ENSIGN-BICKFORD Co., Simsbury, Conn., a corporation of Connecticut. Renewed August 12, 1944.

187,765. **"CLOVER BRAND" AND DRAWING.** FUSE FOR BLASTING AND MINING PURPOSES. Registered August 12, 1924. THE ENSIGN-BICKFORD Co., Simsbury, Conn., a corporation of Connecticut. Renewed August 12, 1944.

187,795. **ALTA CRESTA.** CANNED FRUITS. Registered August 12, 1924. BANNING CANNING Co., Banning, Calif., a corporation of California. Renewed August 12, 1944.

187,842. **CINDERELLA.** NONALCOHOLIC, MALTLESS FLAVORINGS AND COLORINGS FOR SOFT DRINKS. Registered August 12, 1924. J. F. LAZIER MANUFACTURING Co. Renewed August 12, 1944, to The Mil-K-Botl Corporation of America, St. Louis, Mo., a corporation of Missouri, assignee.

187,850. **CHANCELLOR.** CLOTH OF COTTON, SILK, WOOL, AND MIXTURES OF SAME, BOTH IN THE PIECE AND IN THE BOLT, FOR SHIRTS, BLOUSES AND SUITS. Registered August 12, 1924. ELDER MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed August 12, 1944.

187,884. **"SURE FIRE" AND DESIGN.** LIQUID-FUEL CAMP STOVES. Registered August 12, 1924. GOLDBERG BROTHERS, Denver, Colo., a firm. Renewed August 12, 1944.

188,061. **PIKNIK.** MAYONNAISE, PREPARED VEGETABLE AND EGG PASTE USED AS A SANDWICH FILLER, AND THOUSAND ISLAND DRESSING. Registered August 19, 1924. FLEMING-GREEN CO. INC. Renewed August 19, 1944, to The Piknik Products Co., Montgomery, Ala., a corporation of Alabama, assignee by mesne assignments.

188,067. **BOSS INJINEAR.** COMBINATION LEATHER AND CLOTH GLOVES AND MITTENS. Registered August 19, 1924. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., a corporation of Illinois. Renewed August 19, 1944.

188,088. **LEGG'S CLOVER MEADE, ETC.** SAUSAGE SEASONING. Registered August 19, 1924. A. C. LEGG PACKING COMPANY, Birmingham, Ala., a corporation of Alabama. Renewed August 19, 1944.

188,125. **UP AND UP.** SELF-RISING FLOUR. Registered August 19, 1924. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y., a corporation of New York. Renewed August 19, 1944.

188,151. **MORO.** CANNED TUNNY FISH. Registered August 19, 1924. WESTGATE SEA PRODUCTS Co., San Diego, Calif., a corporation of California. Renewed August 19, 1944.

188,178. **"CRESCENT" AND DRAWING.** FUSE FOR BLASTING AND MINING PURPOSES. Registered August 19, 1924. THE ENSIGN-BICKFORD Co., Simsbury, Conn., a corporation of Connecticut. Renewed August 19, 1944.

188,234. **WHITE PEARL.** ALIMENTARY PASTE PRODUCTS—NAMELY, MACARONI, SPAGHETTI, VERMICELLI, AND EGG NOODLES. Registered August 19, 1924. THARINGER MACARONI Co., Milwaukee, Wis., a corporation of Wisconsin. Renewed August 19, 1944.

188,343. **BLUE MOUNTAIN.** TEA AND COFFEE. Registered August 26, 1924. JAS. H. FROBES TEA & COFFEE Co., St. Louis, Mo., a corporation of Missouri. Renewed August 26, 1944.

188,369. **VELRAIE.** WOOLEN PIECE GOODS. Registered August 26, 1924. MADISON WOOLEN Co., Madison, Maine, a corporation of Maine. Renewed August 26, 1944.

188,370. **VELSILVA.** WOOLEN PIECE GOODS. Registered August 26, 1924. MADISON WOOLEN Co., Madison, Maine, a corporation of Maine. Renewed August 26, 1944.

188,411. **C. F'S.** PREPARATIONS FOR HEADACHE, NEURALGIA, SLEEPLESSNESS, BRAIN FATIGUE, LA GRIPPE, EARACHE, RHEUMATISM, FEMALE PAINS, DISORDERS OF KIDNEYS, COLDS, CONGESTION OF THE LUNGS, AND OTHER NAMED AILMENTS. Registered August 26, 1924. CANEY FOSTER, doing business as Roanoke Medicine Company, Weldon, N. C. Renewed August 26, 1944.

188,473. **LYCANOL.** ANTHELMINTICS. Registered August 26, 1924. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed August 26, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, assignee.

188,475. **TRIPHAL.** PREPARATIONS FOR THE TREATMENT OF TUBERCULOSIS AND OTHER INFECTIOUS DISEASES. Registered August 26, 1924. H. A. METZ LABORATORIES, INC. Renewed August 26, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

188,490. **MERION.** THREADS. Registered August 26, 1924. MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed August 26, 1944.

188,514. **OLESAL.** PREPARATIONS FOR THE TREATMENT OF SPIROCHETAL AND OTHER INFECTIOUS DISEASES. Registered August 26, 1924. H. A. METZ LABORATORIES, INC. Renewed August 26, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

188,528. **"RICHMOND" AND DESIGN.** WHEAT FLOUR. Registered August 26, 1924. CITY MILLS COMPANY, Columbus, Ga., a corporation of Georgia. Renewed August 26, 1944.

188,532. **ICCO.** CHEESE. Registered August 26, 1924. ANTONIO CORRAO, doing business as Italian Cheese Co., New York, N. Y. Renewed August 26, 1944, to Icco-Cheese Company, Inc., Brooklyn, N. Y., a corporation of New York, successor.

188,554. **BREDAN.** EGGS AND CHEESE. Registered August 26, 1924. BREDAN CREAMERY, INC., Denver, Colo., a corporation of Colorado. Renewed August 26, 1944.

PLANT PATENTS

GRANTED MAY 2, 1944

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

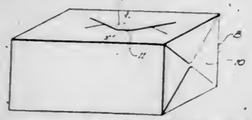
626
ROSE PLANT
Edward E. Marsh, Pasadena, Calif.
No Drawing. Application October 15, 1943,
Serial No. 506,319½
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its strong and vigorous climbing habit and the habit of producing profuse flowers in greater quantity than can be found on its bush parent, substantially as described.

PATENTS

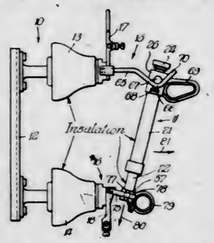
GRANTED MAY 2, 1944

2,347,640
METHOD AND MEANS OF PACKAGING AND MIXING PLASTICS
Leo Peters, Chicago, Ill.
Application December 21, 1940, Serial No. 371,085
11 Claims. (Cl. 99—148)



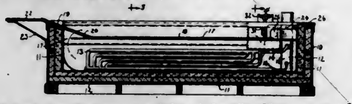
1. In a method for mixing coloring material with oleomargarine, the steps of enclosing the oleomargarine and coloring material within a translucent flexible container, said oleomargarine and said material being spaced apart within said container, sealing the container to form an air-tight enclosure and while keeping the container closed, manipulating the container and contents to mix the coloring material uniformly with the oleomargarine.

2,347,641
FUSE CONSTRUCTION
Allan Ramsey, Evanston, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application January 29, 1942, Serial No. 428,662
22 Claims. (Cl. 200—114)



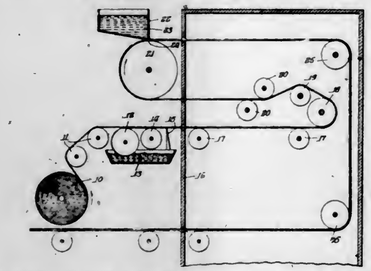
2. Circuit interrupting means comprising, in combination, a first circuit terminal having a first support means extending therefrom the outer end of which is bifurcated and hook-shaped opening upwardly, a second circuit terminal having a second support means extending therefrom the outer end of which is bifurcated and hook-shaped opening inwardly, a first fuse tube, a second fuse tube telescoped with said first fuse tube, a first fuse terminal closing one end of said first fuse tube and having a pair of oppositely extending arms for mounting in said upwardly opening hook-shaped end of said first support means, means on said first fuse terminal interfitting with said first support means and arranged and adapted to prevent separation thereof except when the former is moved to a predetermined position relative to the latter, a second terminal at one end of said second fuse tube but leaving the same open, said second terminal having a pair of oppositely extending ribs for mounting in said inwardly opening hook-shaped end of said second support means, said fuse tubes being biased apart, and a conductor including a fusible section interconnecting said first and second fuse terminals and restraining said fuse tubes from movement apart as long as said fusible section remains intact, said second terminal on blowing of said fusible section moving out of engagement with said second support means and said first terminal rotating in said first support means with said fuse tubes, whereby an air gap is formed between said second terminal and said second support means.

2,347,642
REFRIGERATING CABINET
George D. Reinhardt, San Antonio, Tex.
Application September 28, 1940, Serial No. 358,897
11 Claims. (Cl. 62—101)



1. A heat exchange cabinet including, an elongate outer casing, a longitudinal deck disposed within the upper portion of the casing and having a plurality of longitudinal channels to receive the articles to undergo heat exchange, means for circulating a heat exchanging liquid within the casing below and above the deck and along said channels in intimate contact with the articles supported thereon, said channels being spaced from each other, a heat exchanging apparatus within the casing including a plurality of coils which extend longitudinally within the casing below the deck, and means for admitting a heat exchange agent to said coils.

2,347,643
CONTINUOUS METHOD FOR PRODUCING ADHESIVE TAPE
Gustave Schieman, Bronx, N. Y., assignor to International Plastic Corporation, Morristown, N. J., a corporation of Illinois
Application November 26, 1942, Serial No. 467,000
1 Claim. (Cl. 117—68.5)

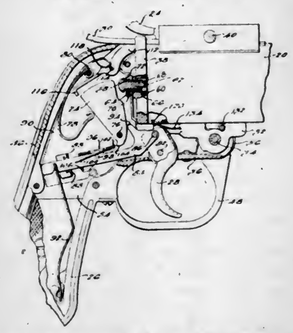


A continuous method for producing a tape having pressure-sensitive adhesive on one side and repellent on the opposite side without subjecting the tape during any stage of its process of manufacturing to any appreciable cooling stages and without reheating any part of the structure during its process of manufacturing which comprises the combination of steps of continuously passing a film after applying a coating of repellent to one side thereof through a drying oven a sufficient time to dry the repellent, then continuously and instantaneously passing the film out of and back into the drying oven and applying pressure-sensitive adhesive to the opposite surface of the film without subjecting the film to any appreciable cooling, then continuously subjecting the composite tape to the temperature of the drying oven as it continuously travels through the drying oven where it is continuously subjected to the temperature of the drying oven to dry and remove all solvent and moisture from the composite film, then passing the composite film free of solvent and moisture direct from the drying oven to a drying roll.

2,347,644
PENCIL FOR LAUNDRY MARKING
Francis M. Sell, Cincinnati, Ohio, assignor to The National Marking Machine Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application October 8, 1941, Serial No. 414,159
6 Claims. (Cl. 250—71)

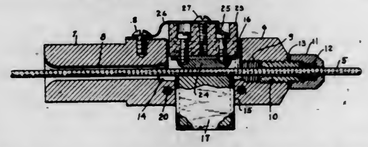
1. A pencil for use in normally invisible laundry marking, comprising a rigid pencil body firm enough for use as a pencil and of such degree of friability that when used for marking textile fabrics a substantial amount of the pencil will adhere to the fabric, and a colorless fluorescent dyestuff dispersed through the pencil body and having such affinity for textile fabrics that when applied thereto in the form of a mark, a substantial amount of the dyestuff will separate from the pencil body and become affixed to the fabric in the manner of a dyestuff, said pencil body ingredient being subsequently removable from the fabric without removing the dyed mark.

2,347,645
FLARE PISTOL
John M. Sherrer, Glen R. Severance, and Ephraim S. Huntington, Detroit, Mich., assignors to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application June 29, 1942, Serial No. 448,920
3 Claims. (Cl. 42—69)



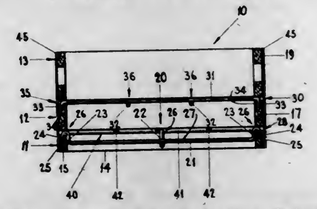
1. A trigger operated hand pistol comprising a barrel, a breech block having an opening arranged coincident with the axis of the barrel of the pistol, a bushing arranged in said opening and having a head seated against the rear face of said block, the forward end of said bushing being threaded, a bushing retainer seated in a recess in the forward face of said block and having a threaded opening cooperable with the threaded end of said bushing for securing the same to said block, said bushing having an opening therethrough formed with an internal shoulder, a firing pin arranged in said bushing and having a shoulder thereon, a spring confined between said shoulders for positioning said firing pin, a stop carried by the head of said bushing and cooperable with the shoulder formed on said pin for limiting rearward movement thereof, and a trigger controlled hammer adapted to strike a head formed on the rear end of said firing pin for actuating the same.

2,347,646
METALLIC ARC WELDING NOZZLE
William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application March 21, 1942, Serial No. 435,663
8 Claims. (Cl. 219—8)



8. An arc welding nozzle having a passage therethrough to slidably receive an electrode and a lateral opening extending therefrom, and a conductor bodily insertable into said lateral opening in any of a plurality of positions to engage different portions thereof with said electrode as other portions of the conductor become worn.

2,347,647
DOUBLE VERTICAL INTERLOCK BOTTLE CRATE
Louis B. Tarter and William Tarter, New York, N. Y., assignors, by mesne assignments, to Morris Goldman, Aldenville, Pa.
Application April 26, 1943, Serial No. 484,650
3 Claims. (Cl. 217—19)



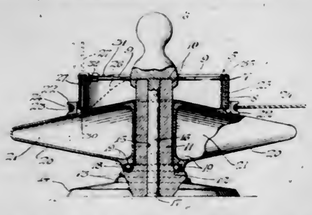
1. In a bottle crate having bottom intermediate and top sections made of slats, said bottom and intermediate slats having vertically positioned wire receiving apertures extending downwardly from their upper surfaces and terminating in the upper portions of said slats, a bottom grid adapted for supporting bottles, said bottom grid being supported between said bottom and intermediate sections with its supporting surface positioned below the upper level of said bottom section, said bottom grid having U-shaped lateral extensions providing end portions in interlocking engagement with said vertical apertures in said bottom slats, portions of said U-shaped extensions being in contacting relation wtih the vertical inner surfaces of said bottom slats and providing abutments for said bottom slats, a bottle spacing frame supported between said bottom and intermediate sections and lying in a horizontal plane on the upper surfaces of said bottom section, said bottle spacing frame having L-shaped lateral extensions in interlocking engagement with vertical apertures in the upper portions of said bottom slats, and a bottle spacing grid mounted between said upper

and intermediate sections and having lateral extensions in interlocking engagement with vertical apertures in the upper portions of said intermediate slats, said grids serving to maintain said crate sections in spaced-apart relation and providing openings for ventilation between said sections, and corner angle members uniting said sections in unitary relation.

2,347,648
CONVERSION OF HYDROCARBON OIL
Charles L. Thomas and Edward C. Lee, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 30, 1938, Serial No. 243,261
16 Claims. (Cl. 196—52)

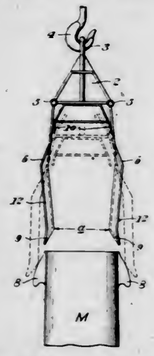
2. A conversion process which comprises subjecting hydrocarbon oil at cracking temperature to the action of a calcined mixture of precipitated silica, alumina and zirconia.

2,347,649
EXHIBITING TOP
Frank E. Thomas, Chicago, Ill.
Application March 11, 1942, Serial No. 434,227
5 Claims. (Cl. 40—28)



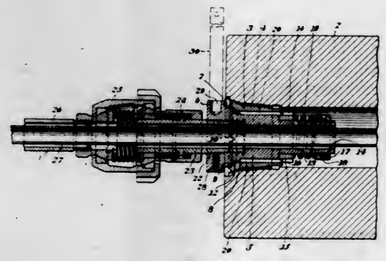
1. In a device of the character described, mobile standard means, top means rotatably secured thereto, cam means provided on said top means, and concealed name plate means contacting the said cam means and slidably secured to said mobile standard means adapted to be exposed to view by virtue of the gyration of said top means.

2,347,650
TONG
Stanley F. Wadzinski, Gary, Ind.
Application August 31, 1942, Serial No. 456,823
4 Claims. (Cl. 294—106)



1. A tong for ingot molds and the like having hook lugs thereon, including a yoke, a pair of depending stirrups freely hinged thereto, a stop normally separating the stirrups, said stirrups comprising flat plates of substantial width each having a lug-receiving aperture therein and being adapted to be spread apart by straddling said stirrups over the mold or the like, the mass of the respective stirrups being disposed to urge said stirrups inwardly toward each other and embrace said mold or the like upon registration and engagement of the apertures with the hook lugs of the mold or the like, means adjacent the upper limit of the apertures coacting with the hook lugs of the mold for outward deflection of the stirrups upon being lowered for disengagement from the mold, and said stirrups having marginal portions about said apertures to permit sliding said stirrups over the lugs without engagement with the latter.

2,347,651
MEANS FOR COOLING ROLLING MILL ROLLS AND THE LIKE
Patrick Henry Washam, Jr., Pittsburgh, Pa.
Application December 3, 1942, Serial No. 467,819
8 Claims. (Cl. 80—41)

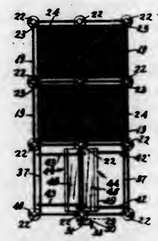


1. Connecting means for supplying a fluid into an interiorly bored rolling mill roll and the like comprising a coupling member adapted to be connected with the roll bore at one end thereof, a removable bushing-like member telescopically arranged within said coupling member and adapted to extend into the bore of the roll, an annular member arranged on the inner end of said bushing-like member for slidable movement longitudinally thereof and secured against rotative movement relative thereto, said annular member having a plurality of radially extending projecting portions arranged around the periphery thereof which cooperate in one position with the inner end of said coupling to lock the bushing-like member therein, said coupling member having a plurality of axially extending slots arranged on the inner periphery thereof similar in number to the number of said radially extending projecting portions carried by said annular member and with which they are adapted to cooperate when said bushing-like member is inserted into and through said coupling, said projecting portions adapted to cooperate with the inner end of said coupling to lock said bushing-like member therein upon rotatable movement of said bushing-like member, resilient means arranged on the inner end of said bushing-like member for maintaining said annular member in yieldable engagement with the inner end of said coupling, and means arranged on the outer end of said bushing-like member for connecting the same to a source of fluid supply.

2,347,652
METHOD OF MAKING 3,4-DIMETHYL-ANILINE
Walter A. Wisansky, Forest Hills, N. Y., assignor, by mesne assignments, to American Home Products Corporation, Jersey City, N. J., a corporation of Delaware
No Drawing. Application July 19, 1941, Serial No. 403,163
3 Claims. (Cl. 260—581)

1. The process of making 3,4-dimethyl-aniline which consists in selecting 4-bromo-ortho-xylene and ammonolysing it.

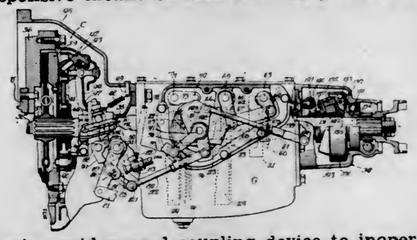
2,347,653
PORTABLE SAFETY BOMBPROOF SHELTER
Isidore Zuckermann, New York, N. Y.
Application December 22, 1941, Serial No. 423,959
2 Claims. (Cl. 135—5)



1. In a portable safety bomb-proof shelter, a frame comprising a central frame section and end frame sections spaced from either side of said central frame section, a horizontal shaft rotatively supported on said central frame section, means for turning said shaft in either direction, sprockets mounted on said shaft adjacent the ends thereof, complementary sprockets rotatively mounted on said end frame sections, endless chains engaging over said sprockets, spring retracted rollers mounted on said central frame section above and below said shaft, fireproof awnings wound on said rollers and having their outer ends attached across the sides of said endless chains so that said awnings will be extended from said central frame section to said end frame sections and simultaneously wind up the springs of said rollers when said shaft is turned in one direction, and means restraining said shaft from turning in the opposite direction preventing energy stored in the springs of said rollers from rewinding said awnings.

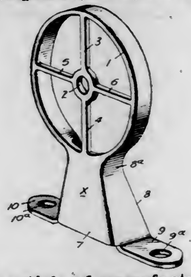
2,347,654
TRANSMISSION
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application April 8, 1941, Serial No. 387,510
35 Claims. (Cl. 192—3.5)

1. In an automatic transmission, a driving element, a driven element, an automatic clutch having a driving part, a driven part and speed responsive means determining engagement or disengagement of said parts, said speed responsive means acting to engage said parts at a speed above the normal idling speed of the driving element, means forming a driving connection between said driven element and the driven part of said automatic clutch including first and second coupling devices utilizable in producing differing drive ratios of the transmission, each of said devices having an operative and an inoperative condition, said driving connection forming means providing a first speed ratio when both coupling devices are inoperative, a lower speed ratio when said first coupling device is operative and said second coupling device inoperative, and a still lower speed ratio when said second coupling device is operative, means controlled by the speed responsive means of said automatic clutch re-



turning said second coupling device to inoperative condition when said driving element drops to its normal idling speed, and means responsive to the speed of said driven element operating to return said first coupling device to inoperative condition when said driven element coasts to a speed at which the transmission should normally operate in the first speed ratio.

2,347,655
GUN SIGHT
Hobert L. Barsalou, Dayton, Ohio
Application July 28, 1942, Serial No. 452,602
2 Claims. (Cl. 33—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

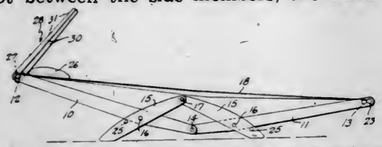


1. As a new article of manufacture, a gun sight made of a unitary stamping consisting of a single sheet of material comprising an outer sighting ring, an inner sighting ring, said rings being substantially concentric, arms interconnecting said rings, and a base merging with said outer ring, a portion of the material adjacent the marginal edges of the base and of the outer ring forming a continuous flange constituting the sides of the base and extending around the outer ring.

2,347,656
PORTABLE HAMMOCK
Clarence F. Benjamin, Devon, Conn.
Application September 18, 1942, Serial No. 458,826
2 Claims. (Cl. 5—120)

2. A portable hammock comprising two pairs of laterally spaced side members of substantially the same length and with the members of each pair pivoted together at their inner ends and outwardly and upwardly inclined in opposite directions from said pivot, transverse members connecting the outer ends of similar side members, a flexible hammock member extending be-

tween and connected to the transverse members, one of said transverse members being mounted for turning movements to wind and unwind the flexible member to adjust the free length of this member, means to secure the transverse member in adjusted positions, an upwardly and inwardly inclined leg member pivoted intermediate its length to each side member outwardly of the pivot between the side members, the outer end



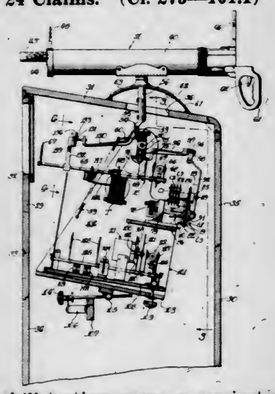
portions of the side members located outwardly of their pivotal connections to the leg members being much longer than the inner end portions at the opposite side of these pivots, a pivotal connection between the upper ends of each pair of leg members pivoted to the side members of each pair, and stop means to limit downward movement of the transverse members and determine their lower positions, independently of the flexible member.

2,347,657

SKILL TESTING GAME

Melvin J. Binks, River Forest, Ill., assignor to J. H. Keeney & Co., Inc., Chicago, Ill., a corporation of Illinois

Application March 15, 1940, Serial No. 324,064
24 Claims. (Cl. 273—101.1)



1. In a skill testing game, a projector for projecting a target onto a screen, a universal mounting for said projector, means for driving the projector to cause the target projected thereby to traverse the screen, an electrical contact carried by said projector and movable therewith, an aiming element movable by an operator of the game, a universal mounting for said aiming element, and a contact carried by and movable with said aiming element and positioned to engage the contact on said projector when the aiming element is properly aimed at the target on the screen.

2,347,658

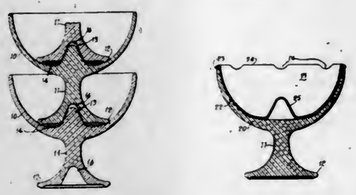
ICE CREAM GOBLET

Raymond D. Bourne, Middletown, Ohio

Application February 19, 1943, Serial No. 476,375
5 Claims. (Cl. 65—15)

1. In a receptacle for serving a solid or semi-solid substance, a concave wall means adapted to support a substance to be served, means extending radially inwardly from said wall means upon which a substance is adapted to be impaled to prevent movement of the substance relative to the wall means, and flange means extending from said wall means for supporting the receptacle within a container.

5. A serving goblet having a body supported upon a stem extending from a foot, a protrusion extending upwardly from the body of the goblet upon which a substance is adapted to be impaled to prevent movement of a substance within the



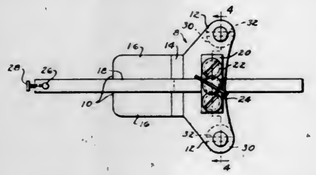
body in a manner that the substance is prevented from sliding upwardly along the body when individual portions are being removed from the substance, and a recess in the foot of the goblet of substantially the same contour as said protrusion to permit the foot of one goblet to be placed within the body of another goblet and thereby stack the same with said protrusion extending within said recess to prevent movement of said foot relative to the body when supported therein.

2,347,659

ADJUSTABLE CIRCUMFERENCE SCRIBER

Thomas Harold Burch, Dayton, Ohio

Application April 15, 1943, Serial No. 483,106
1 Claim. (Cl. 33—42)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An improvement on an adjustable scriber of the kind having a beam with a scriber near one end, a base with guideways in which said beam is endwise slidable, means to fix said beam against endwise movement in said guideways, arms extending oppositely from said base and gauge means depending from said arms near their ends, said improvement comprising a base which consists of a body portion with two oppositely extending arms at one end, said base being constructed of relatively heavy sheet stock offset flatwise intermediate its ends, the upwardly offset or body portion being slotted through to provide a sliding guideway for a beam, and each said arm having secured thereto on its underside one or more gauge collars, said beam lying upon the upper surface of the downwardly offset portion, a yoke secured to the upper surface of said downwardly offset portion over said beam, said yoke having the underside grooved to slidably receive said beam, and a thumbscrew having threaded bearing in said yoke and adapted to clamp said beam against endwise movement in said yoke.

2,347,660

MANUFACTURE OF EXPLOSIVES

Jerome G. Burtle, Godfrey Township, Madison County, Ill., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Delaware

No Drawing. Application July 16, 1941, Serial No. 402,720
11 Claims. (Cl. 260—577)

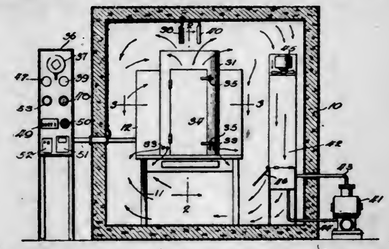
1. In the manufacture of explosives, the process comprising preparing a 10% to 50% solution of a nitro-aromatic explosive in a volatile oxygen-containing organic solvent normally reactive therewith to impair its thermal stability, said solution containing 0.05 to 0.25 part of nitric acid per part of the said nitro-aromatic explosive to inhibit such deteriorating effect, and mixing said solution with water to separate the said explosive.

2,347,661

HEAT CONDUCTIVITY APPARATUS

Ralph A. Butland, Washington, D. C.

Application September 5, 1941, Serial No. 409,690
2 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for testing the heat conductivity of textiles comprising an insulated chamber, a metal cylinder containing a fluid medium inside said chamber and spaced from the walls thereof, means for heating said fluid medium, means responsive to the temperature inside the cylinder for controlling the energy supplied to the heating means to maintain the temperature inside the cylinder at a constant temperature, means for controlling the temperature inside of the insulated chamber, a fan for circulating air within the chamber at a selected velocity, said cylinder being adapted to have a textile to be tested wrapped about the same, and means to measure the energy supplied to the means for heating the fluid medium to maintain the inside of the cylinder at a constant tempertaure as an index of the heat conductivity of the textile under test.

2,347,662

RESIN BONDED ABRASIVE SHEET MATERIAL

Richard Paul Carlton and Byron J. Oakes, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application January 27, 1934, Serial No. 708,662
18 Claims. (Cl. 51—298)



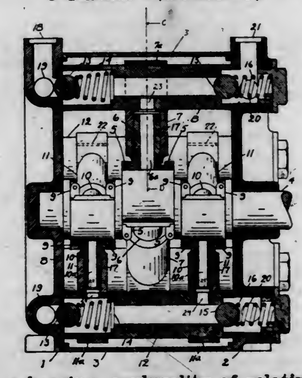
1. A flexible abrasive article comprising a backing sheet and abrasive particles bonded thereto, the bond comprising a blend of a heat-convertible synthetic resin and a volatile organic solvent solution of a film-forming thermoplastic resin which is compatible with said heat-convertible synthetic resin, the said blend being reacted and polymerized to a hardened flexible state.

2,347,663

HYDRAULIC BALANCED BEARING

Orson A. Carnahan, Syracuse, N. Y.

Application November 2, 1939, Serial No. 302,587
5 Claims. (Cl. 308—9)



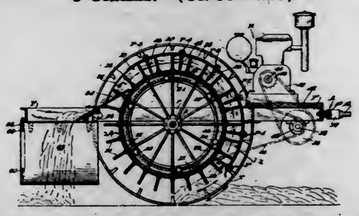
1. In a bearing, a plurality of relatively movable members having mating surfaces in engagement over a bearing area, a cavity provided in the engaging surface of one of said members, means comprising a passageway for supplying said cavity with a lubricant under pressure, means for applying a lubricant to one of said members under pressure which creates a force tending to move said member towards a second member, said first-mentioned means also serving to apply a lubricant pressure between said engaged members which creates a force equal to said aforementioned force tending to separate said members, said latter force comprising a force created within the said cavity by said lubricant pressure and a force between said movable members external of said cavity.

2,347,664

FODDER TREATING MEANS

Forrest S. Chilton, Pompton Plains, N. J.

Application August 4, 1942, Serial No. 453,547
5 Claims. (Cl. 55—118)



1. A fodder treating means adapted to striating the stems of fodder plant toppings, without materially comminuting, slicing or crushing the plants, and comprising an axle shaft, rotatable traction wheels mounted on the ends of said shaft, a rotatable drum positioned horizontally between said wheels, a plurality of pin bars positioned over a portion of and parallel to said drum, pins in said pin bars which project toward said drum and are separated laterally by spaces that progressively decrease in length with the

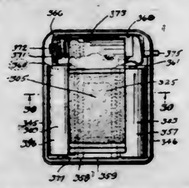
successive bars, V-shaped threads on said pins, rows of fingers which are mounted on said drum and travel in progressively diminishing numbers through the successive spaces between said pins in the order of their decreasing lengths, V-shaped threads on said fingers; clearances between the tips of said fingers and the ground line between the traction wheels, substantial clearances between said fingers and said pins and means for removing the striated plants from said fingers.

2,347,665

INTERNAL REFLECTION LIGHTING MEANS

Geneva Bandy Christensen and Christian Christensen, New Rochelle, N. Y.

Application March 4, 1941, Serial No. 381,702
1 Claim. (Cl. 240—2)



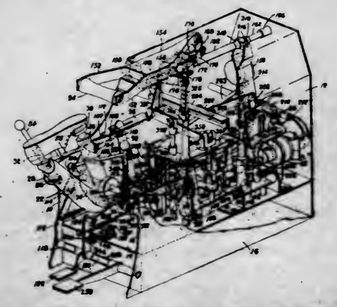
A device for viewing transparencies comprising, a casing having a viewing orifice; a source of illumination in said casing; a disperser comprising a body of light transmitting material having first and second opposed principal surfaces and an edge portion of substantial thickness; said source of illumination being positioned with relation to said edge portion as to cast light rays into the said edge portion and into said body; a plurality of light reflecting and refracting elements on each of said surfaces; said light reflecting and refracting elements being distributed entirely over said surfaces and being disposed in concentration increasing in proportion to the distance from the light source; said disperser having one of its principal surfaces adjacent said viewing orifice to transmit light from the light from the light source outwardly through said viewing orifice.

2,347,666

MACHINE FOR OPERATING UPON SHOES

Alfred S. Clark, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application November 18, 1942, Serial No. 465,975
36 Claims. (Cl. 12—34)



1. In a leveling machine, a shoe support, a leveling tool, means for effecting relative movement of the shoe support and the leveling tool in directions lengthwise of a shoe on the support to cause the tool to operate progressively along the shoe bottom, and fluid-pressure-operated means acting on said tool to force it against the shoe bottom.

2,347,667

ISOMERIZATION OF CONJUGATED DIOLEFINS

David Craig, Silver Lake Village, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York

No Drawing. Application September 22, 1941, Serial No. 411,888
8 Claims. (Cl. 260—680)

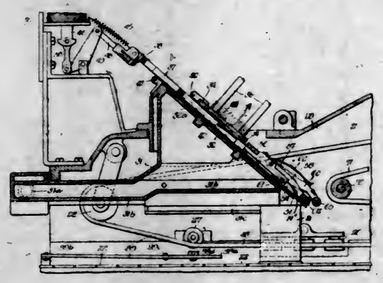
1. The method of isomerizing piperylene which comprises reacting substantially pure high-boiling piperylene with sulfur dioxide to form monomeric piperylene sulfone, and decomposing the sulfone to form low-boiling piperylene.

2,347,668

APPARATUS FOR SEALING CANS AND THE LIKE

Lynn E. Davies, Park Ridge, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware

Application April 21, 1938, Serial No. 203,425
7 Claims. (Cl. 113—27)



1. In a closure applying apparatus having a conveyor for moving containers progressively, a runway sloping at an angle such that closures may slide down it by gravity and having its lower end arranged over the path of the containers, and a non-yielding stop disposed adjacent the lower end of the runway and projecting upwardly therefrom in position to engage a lateral portion of a closure thereon and detain it stationarily in sloping position with its forward portion in position to be engaged and lifted by an advancing container, the height and arrangement of the stop being such as to permit the lateral portion of the closure to pass over it when the forward portion of the closure is swung upwardly from the runway by the advancing container.

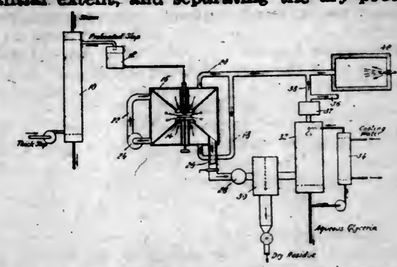
2,347,669

DISTILLATION PROCESS

Wolcott Dennis, Darien, Conn., assignor, by mesne assignments, to U. S. Industrial Chemicals, Inc., a corporation of Delaware

Application August 29, 1941, Serial No. 408,837
7 Claims. (Cl. 202—64)

1. The process of recovering from distillers' slop a dry product in the form of discrete particles capable of retaining their original form upon exposure to atmospheric humidity which comprises spraying the fermentation residue into a stream of inert gas at a temperature not substantially lower than 900° F. but insufficient to char or coke the resultant particles to any substantial extent, and separating the dry product



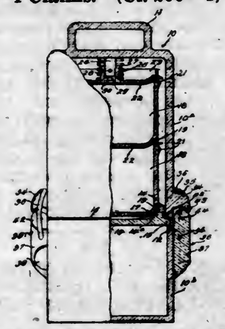
from the gas stream while the temperature is above the point at which condensation of volatile products therein can occur.

2,347,670

LUNCH BOX

James H. Devine, Chicago, Ill., assignor to Devinsular Company, St. Louis, Mo., a corporation of Missouri

Application March 27, 1942, Serial No. 436,448
4 Claims. (Cl. 206—4)



1. In a device of the class described, a casing comprising upper and lower sections, food tank supporting means in said lower section and confined entirely within the walls thereof, latch means comprising a lug on said upper section and a latch member on said lower section, said upper section having a notch therein below said lug to permit access to a portion of said tank supporting means, and said latch member comprising a swingable lever having a portion adapted for engagement with said lug to force said sections apart and a second portion for projection into said notch and over said tank supporting means.

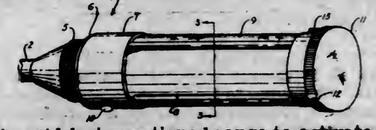
2,347,671

ULTRAVIOLET FLUORESCENT INSTRUMENT ILLUMINATION

Arnold D. Dircksen, Dayton, Ohio

Application December 26, 1940, Serial No. 371,819
3 Claims. (Cl. 240—8.16)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of illuminating portions of an instrument panel having fluorescent indicia capable of activation by ultraviolet light comprising generating ultraviolet radiation, transforming said radiation into light having a spectral band substantially entirely included in the range between three thousand and six thousand Angstrom units, filtering out of said band all wave lengths outside of the range between approximately three thousand one hundred Angstrom units and three thousand nine hundred Angstrom units, floodlighting said panel with light



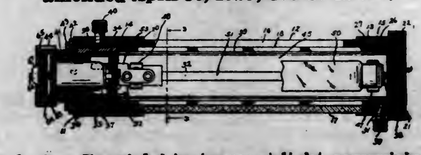
within said last-mentioned range to activate said fluorescent indicia, and making available light from said above described spectral band of three thousand to six thousand Angstrom units for selective directional illumination of controllable intensity.

2,347,672

ULTRAVIOLET INSTRUMENT LIGHT

Arnold D. Dircksen, Dayton, Ohio, and John M. Roper, Washington, D. C.

Application January 31, 1941, Serial No. 376,730
16 Claims. (Cl. 240—8.16)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



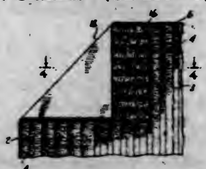
1. An ultraviolet instrument light comprising a cylindrical housing, an ultraviolet filter window extending longitudinally thereof, a slit, allowing rays of light having a frequency within the visible spectrum to pass therethrough, extending longitudinally thereof circumferentially displaced from said ultraviolet filter window, a fluorescent lamp mechanism within said housing, and a rotatable shutter mechanism within said housing between said lamp mechanism and said housing permitting light rays from said fluorescent lamp to reach either said longitudinal slit or said filter window exclusively.

2,347,673

VALVE BAG

James F. Doyle, Forest Hills, Long Island, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a corporation of New York

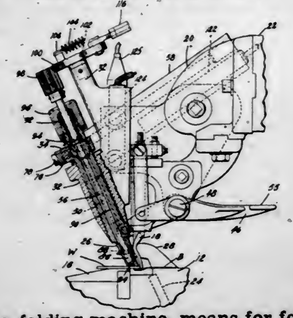
Application February 6, 1941, Serial No. 377,614
2 Claims. (Cl. 150—9)



1. In a container of the class described comprising a textile bag and a lining of paper inserted in said bag, the paper lining having crinkles extending transversely thereof to provide for longitudinal stretchability and having longitudinally extending means to provide for circumferential stretchability, the improvement which comprises said lining having a valve extension at one corner of the mouth thereof integral therewith, said valve extension and the corresponding corner of the bag being tucked in to form a valve with the

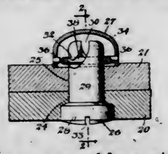
lining of the valve extending a distance inwardly beyond said tucked in valve portion of the bag, and a seam securing together and closing the mouths of the bag and lining and securing the upper edges of the side walls of the valve.

2,347,674
FOLDING MACHINE
Harry E. Dow and Irving B. Andrews, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 11, 1942, Serial No. 454,396
15 Claims. (Cl. 12—54)



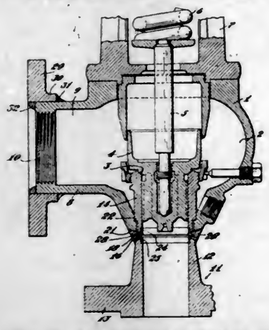
1. In a folding machine, means for folding the margin of a piece of work, means for pressing the folded margin of the work, a member for delivering adhesive to the body of the work just inwardly of the line of fold concomitantly with the folding of the margin, and a rotatable valve at the delivery end of said member for controlling the flow of adhesive to the work.

2,347,675
FASTENER ASSEMBLY
William Dzus, West Islip, N. Y.
Application January 3, 1942, Serial No. 425,523
11 Claims. (Cl. 24—221)



5. In a fastener assembly a stud member and an anchoring member rotatable with respect to each other, the anchoring member comprising a hollow supporting portion having side walls and having longitudinally extending slots formed in opposite sides thereof, a pin extending transversely of the supporting portion and mounted in the slots so as to be shiftable longitudinally thereof, and a pair of annular members disposed in the supporting member and mounted in the slots, at least one of the annular members being resilient so as normally to hold the pin in a predetermined position, and the said stud member being cooperable to enter into the supporting portion of the anchoring member and project through the annular members, and being provided with means for interengagement with the pin so as to cause partial compression of the resilient member and releasably retain the members in interengaged relationship when the stud member is rotated with respect to the anchoring member.

2,347,676
SAFETY VALVE
Albert D. Eplett, Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application March 10, 1943, Serial No. 478,629
6 Claims. (Cl. 251—156)



1. A safety valve having a casing comprising a hollow body portion terminating at its lower end in a downwardly and inwardly bevelled annular surface and having an interior annular shoulder spaced above said surface, a seat bushing seated upon the interior annular shoulder of the body and having its lower end bevelled to form a substantial continuation of the lower surface of the body, a base including a tubular neck portion whose upper end is inwardly and upwardly bevelled, thereby, in cooperation with the bevelled surfaces of the body and seat bushing, to provide portions of the walls of an external circumferential groove, and a single annular body of welding metal filling said groove and permanently uniting the body, seat bushing and base.

2,347,677
FILM, FILAMENT, FIBER, OR OTHER SHAPED ARTICLE MADE BY HARDENING PROTEINS COAGULATED FROM THEIR SOLUTIONS
Eric Cecil Fieldsend, London, England, and William Harry Douglas Boyes, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application March 20, 1939, Serial No. 263,094. In Great Britain March 21, 1938
6 Claims. (Cl. 18—48)

1. A process which comprises treating articles formed from denatured vegetable globulin with an aqueous saline halide bath containing at least 30 parts of saline halide to 100 parts water and containing a minor amount of a hydrogen halide selected from the class consisting of hydrogen chloride and hydrogen bromide, and treating the article with a hardening agent at a stage of operations not later than treatment of the article in said bath.

2,347,678
EMULSION
Kenneth M. Gaver, Columbus, Ohio, assignor to The Komel Corporation, Dayton, Ohio, a corporation of Delaware
No Drawing. Application February 15, 1941, Serial No. 379,126
6 Claims. (Cl. 252—311.5)

2. As a new composition of matter, a water insoluble substance selected from the group consisting of oils, bituminous substances and waxes emulsified with a product comprising an aqueous colloidal suspension of sodium starchate.

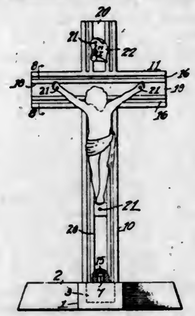
2,347,679
WAX EMULSION
Kenneth M. Gaver, Columbus, Ohio, assignor to The Komel Corporation, Dayton, Ohio, a corporation of Delaware
No Drawing. Original application February 15, 1941, Serial No. 379,126. Divided and this application October 18, 1941, Serial No. 415,640
6 Claims. (Cl. 106—10)

6. A liquid cleaning and polishing composition comprising an emulsion of wax in water including an alkaline metal starchate as an emulsifying agent, said composition comprising 50 parts by weight of paraffin wax, from 25 to 40 parts by weight of stearic acid and from 5 to 10 parts by weight of a starchate emulsifying agent comprising 50 parts by weight of sodium starchate and 75 to 100 parts by weight of water.

2,347,680
WETTING AND EMULSIFYING AGENT
Kenneth M. Gaver, Columbus, Ohio, assignor to The Komel Corporation, Dayton, Ohio, a corporation of Delaware
No Drawing. Original application February 15, 1941, Serial No. 379,126. Divided and this application October 18, 1941, Serial No. 415,641
9 Claims. (Cl. 106—28)

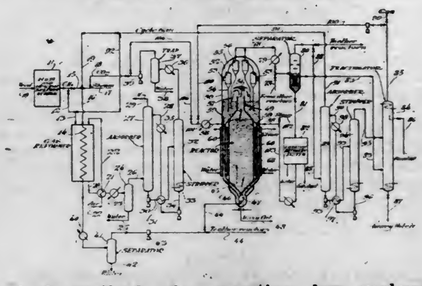
1. A new composition of matter including oil and dispersed pigment emulsified with an alkali metal starchate.

2,347,681
DUAL CROSS COMMUNION SET
Delphus Goudreau, Northbridge, Mass.
Application August 23, 1940, Serial No. 353,980
1 Claim. (Cl. 206—19)



A composite cross structure for displaying a face of a cross member in direct and edge unobstructed relation with the edge portion of the corresponding face of a larger cross member comprising separate, correspondingly shaped and proportioned cross members of different front surface extents, one forming a base member, the smaller and larger members having rearward and front face portions respectively engaging with each other in the longitudinally superposed face contacting relation of the members, which contacting face portions are located in planes lying outwardly of remaining portions of the crosses, cooperating interengaging means carried by the rearward face of the smaller member and the front face of the larger member positioned to coincide substantially with the center lines of the intersecting arms of the members to provide a single holding means for the members, and retaining means comprising a pin projecting from the contacting face of said base member and engaging a portion of the other member in the superposed face contacting relation of the members to retain the members in position whereby substantially symmetrical display areas of the front face of the larger member will project outwardly unobstructedly from the edge of the smaller member throughout their edge extents when the members are in superposed face contacting relation, said pin member being also engageable with an end portion of the smaller member when said smaller member is in an upright display position relative to the larger member whereby the smaller member may be supported by the larger member in upright display position relative thereto.

2,347,682
HYDROCARBON SYNTHESIS
Robert C. Gunness, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application April 24, 1941, Serial No. 390,203
4 Claims. (Cl. 260—449.6)

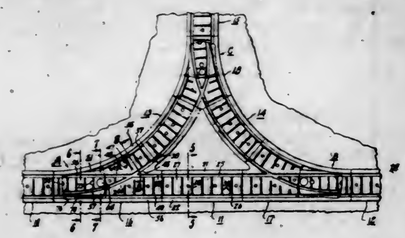


1. A method of converting low molecular weight hydrocarbon gases into hydrocarbons of higher molecular weight which comprises mixing said hydrocarbon gases with carbon dioxide, recycled gas from the synthesis step hereinafter described and steam in such proportions as to provide an atomic proportion of hydrogen, carbon and oxygen of about 4:1:1, contacting said mixture with a reforming catalyst at a sufficiently high temperature and for a sufficient period of time to convert said mixture chiefly into hydrogen and carbon monoxide whereby a make gas is produced having a hydrogen to carbon monoxide ratio of about 2:1, suspending a synthesis catalyst in said make gas, maintaining the temperature of said catalyst suspension at a level in the approximate range of 225 to 425° F. and substantially constant and uniform by directly admixing relatively cool materials with the mixture in a synthesis zone, continuing said contact of make gas with suspended catalyst in said synthesis zone for a period of time sufficient to effect synthesis, then separating suspended catalyst from gases and reaction products, separating unreacted gases and low molecular weight hydrocarbon gases from higher molecular weight reaction products, and recycling said unreacted gases and low molecular weight hydrocarbon gases to said mixing step.

2,347,683
NARROW GAUGE RAILROAD
Berger R. Habel, Riverside, Ill., assignor to American Brake Shoe Company, a corporation of Delaware
Application April 26, 1941, Serial No. 390,526
9 Claims. (Cl. 238—6)

1. In a narrow gauge railway, a switch section comprising a stationary plate-like member hav-

ing a stem end and branch ends, each end having treadways, the inner treadways of said branch ends intersecting to form a frog, said member having an extensive shallow recess between said stem end and said frog and between the outer treadways of said stem, a switch plate in said recess comprising a plate-like casting having outer treadways and an inner walkway connected by U-shaped portions forming flangeways, said



switch plate having a pivoted end and a free end, said switch plate treadways being widened and having reenforcing ribs on the underside at said pivoted end, said switch plate treadways tapering to form switch points at said free end, said switch section and said switch plate having pivot openings near said frog and between the converging flangeways of said switch plate, and a pivot in said pivot openings.

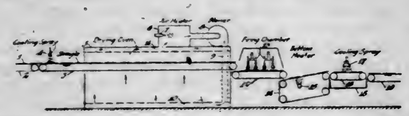
2,347,684

COATING CALCINABLE LITHIC SLABS

Lloyd Arthur Hatch, St. Paul, and Maurice Edwin Bussell, Mahtomedi, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application December 9, 1938, Serial No. 244,864

18 Claims. (Cl. 117—126)



1. A continuous process of producing weatherproof siliceous coatings upon asbestos cement slabs, comprising coating the slabs with an aqueous solution of alkali silicate intimately admixed with an argillaceous aluminum silicate and a coloring pigment, the latter two components being roughly equal in amount and the alkali silicate on a dry basis amounting to approximately 0.5–1.2 parts per part of the total other solids in the coating, moving the coated slabs in succession through a heating zone and subjecting them therein to a uniform cross-current of heated air having a temperature of 400–600° F. for not exceeding approximately one-half hour to partially dehydrate the coating and condition the slabs and coatings for subsequent firing, moving the thus heated slabs in succession through a firing zone and subjecting them therein to a firing heat applied directly to the coatings so as to minimize heating of the bodies of the slabs, each coating being fired to a temperature of 700–1100° F. for not exceeding approximately five minutes.

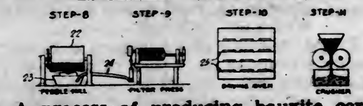
2,347,685

BAUXITE PROCESS AND PRODUCT

John Allen Heany, New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y.

Application March 16, 1937, Serial No. 131,126

12 Claims. (Cl. 106—65)



1. A process of producing bauxite ceramics, which comprises heating the bauxite material to a temperature above 500° C. and below about 1000° C. until it is dehydrated, wet grinding to a fineness of less than 50 microns and ranging primarily between 5 and 20 microns, forming and firing.

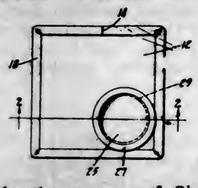
2,347,686

CONTAINER

John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 7, 1940, Serial No. 369,090

1 Claim. (Cl. 229—7)



A single service tamper-proof fibre container for oleaginous material, comprising a leak-proof tubular fibre body, portions of said body adjacent an end being bent to form an annular end receiving channel, a substantially flat rigid top fibre end member for said tubular body having its outer annular marginal edges adhesively secured in said channel to form an end joint, said top end member having a filling opening adjacent one corner of the container, a metal band member disposed in said opening and having vertically spaced outwardly extending inner and outer peripheral flanges disposed in tight clamping engagement with the inner and outer surfaces of said end member to reenforce the filling opening, and a metal friction plug closure having its inner end expanded so as to be permanently secured in said filling opening in interlocking engagement with said inner and outer flanges of the reenforced band member to provide a non-removable tamper-proof seal for the container.

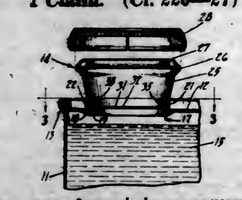
2,347,687

CONTAINER

John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 12, 1940, Serial No. 369,298

1 Claim. (Cl. 220—27)



A tamper-proof container comprising a body having a top end member secured thereto, said

end member having a dispensing opening defined by an upstanding peripheral flange, a dispensing nozzle having an inner straight wall portion telescoped over and secured to said flange in tight fitting engagement therewith, and a cup shaped imperforate rupturable metal sealing disc member disposed within said nozzle in seating engagement upon the upper end of said flange, said disc member having an upstanding peripheral flange constituting an outer friction wall permanently disposed in tight frictional engagement with the inner straight wall portion of said nozzle to protect the container contents, said disc member constituting a fracturable nozzle closure element which cannot be removed from said nozzle without being destroyed or deformed so that tampering with the container may be readily detected.

2,347,688

ROSIN AND ABIETIC ACID SALTS OF A GUANIDINE AS A MOTHPROOFER

David W. Jayne, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 8, 1940, Serial No. 317,890

3 Claims. (Cl. 167—37)

1. A mothproofing composition containing a substance chosen from the group consisting of a guanidine rosinate and a guanidine abietate.

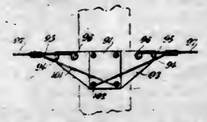
2,347,689

MODEL AIRPLANE

Harold R. Johnson, Bayside, N. Y.

Application February 16, 1940, Serial No. 319,246

5 Claims. (Cl. 46—76)



1. In a model airplane having a fuselage, a lifting wing and rear control surfaces mounted thereon, an under-carriage comprising an M-shaped metal plate secured beneath the fuselage, the center portion presenting a substantial area in contact with said fuselage, a spring wire secured to each depending leg of said plate and extending below the same each wire being bent outwardly at its free end to form an axle, and a wheel mounted on each axle.

2,347,690

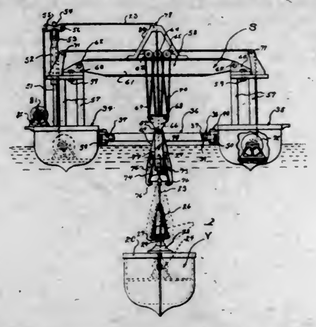
SALVAGING APPARATUS FOR SUNKEN VESSELS

William K. Kannenberg, Milwaukee, Wis.

Application November 27, 1941, Serial No. 420,658

11 Claims. (Cl. 114—51)

1. In an apparatus for locating and raising sunken vessels, a drum and a buoy on the vessel, a leader guide line wound upon said drum and connected to the buoy, the buoy being adapted to float to the surface upon the sinking of the vessel and to pay out the line from said drum, means on a surface vessel including a windlass for pulling said leader guide line taut, a tension mechanism for maintaining the leader guide line taut, irrespective of the rise and fall of the surface vessel under influence of a sea, a grappling member slidable on said taut line for engaging the sunken vessel, and a hoisting equipment for raising said grappling mechanism, said means for maintaining the leader guide line taut including an elevated mast on the surface vessel arranged at one side of the windlass, a sliding weight on the mast, spaced guide pulleys



on the mast over which the leader guide line is trained, and an idle pulley on the weight engaging the leader guide line between the pulleys on the mast.

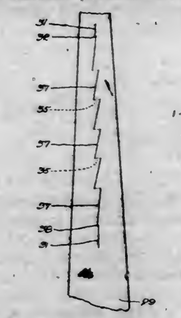
2,347,691

LINING FOR TIES

Max Kleinmann, New York, N. Y., assignor, by mesne assignments, to Dimple Tie Corporation, New York, N. Y., a corporation of New York

Application March 17, 1938, Serial No. 196,439

1 Claim. (Cl. 2—146)



A stretchable necktie of the four-in-hand type having stitching disposed in the knot forming area thereof for automatically forming a dimple in the necktie when it is made up into a knot, said dimple extending from within the knot to a point below said knot, said stitching comprising longitudinal rows of loops on one side of the material, said rows being spaced from each other across the width of said necktie, and loops on the other side of the material transversely disposed with respect to the longitudinal axis of the necktie, said longitudinal loops being substantially longer than the transverse loops.

2,347,692

NECKTIE AND METHOD OF MAKING SAME

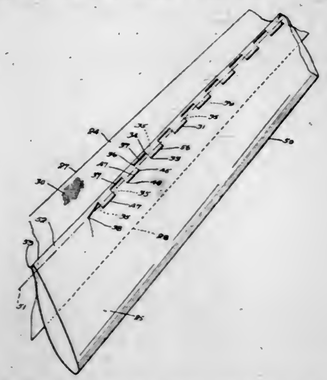
Max Kleinmann, New York, N. Y., assignor, by mesne assignments, to Dimple Tie Corporation, New York, N. Y., a corporation of New York

Application August 1, 1938, Serial No. 222,530

6 Claims. (Cl. 2—146)

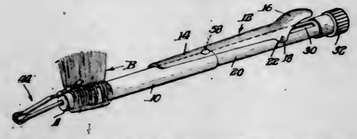
1. The method of making a necktie including the steps of: Folding the necktie casing blank along the longitudinal central axis thereof, wrong side out forming a first fold; substantially align-

ing the free longitudinal edges of the casing; folding the longitudinal edges upon themselves forming a second fold; stitching through said second fold with a simple running or slip stitch;



opening said second fold and adjusting the stitches so that the edges may lie flat; and turning the complete, now tubularly formed casing, right side out thereby opening the first fold.

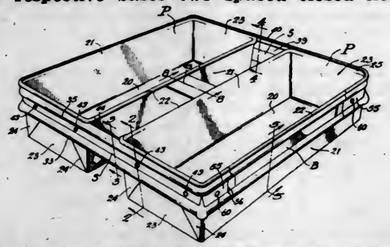
2,347,693
HAIR CURLER
Rudolf Krasberg, Chicago, Ill.
Application October 7, 1940, Serial No. 360,035
5 Claims. (Cl. 132—34)



1. A hair curler device comprising an elongated supporting member having a manually engageable end portion, a sleeve slidably mounted on said member for longitudinal movement relative thereto, said sleeve providing an external, peripheral hair curling surface, hair retaining clamping means secured to said supporting member and extending therefrom in overlying relation to said sleeve to clamp the hair wound on said sleeve when the sleeve is in a retracted position on the supporting member, said sleeve being slidable longitudinally of the supporting member to an extended position in which the hair wound on the external peripheral surface of the sleeve is spaced from the hair retaining clamping means thereby permitting longitudinal manual removal of the curl from the external peripheral surface of said sleeve.

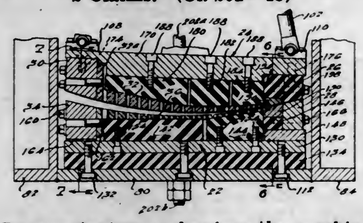
2,347,694
MULTIPLE BAKING PAN
Adrien L. Langel, Chicago, Ill., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 31, 1942, Serial No. 429,056
19 Claims. (Cl. 220—23.2)

1. A baking pan set consisting of a plurality of pans having aligned ends, and means interconnecting the pans comprising a strap extending lengthwise of the pan set and bent twice upon itself to provide two integral base plies from the outer ones of which the strap is outwardly bowed through substantially a semi-circle to form with the respective bases two spaced closed hollow



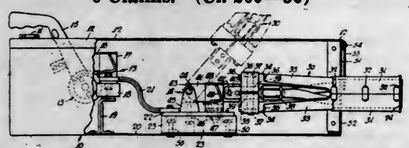
ribs, one above the other, and means connecting the pans to the strap in a fixed unitary relation.

2,347,695
RHEOSTAT
Chester F. Leathers, Detroit, Mich., assignor to Progressive Welder Company, Detroit, Mich., a corporation of Michigan
Application February 25, 1942, Serial No. 432,194
2 Claims. (Cl. 201—48)



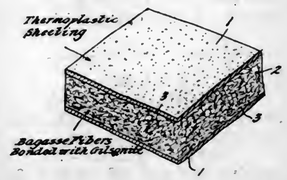
1. In a contactor mechanism, the combination of a relatively fixed contact member having arcuately arranged portions, respectively, of low resistance, high resistance, and of insulating character, a relatively movable contact member having corresponding portions arranged on an arc of smaller radius, and means for rocking said relatively movable contact member from a position in which said insulating portions are in engagement through a position in which said high resistance portions are in engagement to a position in which said low resistance portions are in engagement.

2,347,696
DISCONNECTOR SWITCH
Marvin Lee, Rye, and Irving Frederick Matthysse, New York, N. Y., assignors to Burndy Engineering Company, Inc., a corporation of New York
Application February 4, 1943, Serial No. 474,750
6 Claims. (Cl. 200—50)



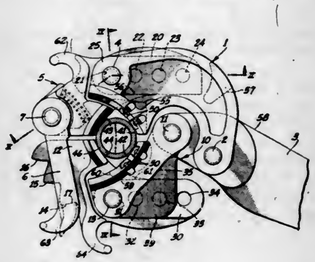
1. A disconnector switch for connection to a device requiring electric current, said switch having a terminal and a connection to a cable leading to the device, comprising in combination a handle; a knife blade forming a rigid unitary structure therewith; means for connecting the cable to the knife blade; a hinge block for pivotally supporting the knife blade; a spring contact clip for engaging the knife blade; means for connecting the contact clip to the terminal; and means for readily detaching the knife blades from the hinge block and removing the handle, knife blade and cable connection as a unitary assembly from the disconnector switch.

2,347,697
MOLDED MATERIAL
Constance D. Levey, New Orleans, La.
Application December 2, 1939, Serial No. 307,275
3 Claims. (Cl. 154—2)



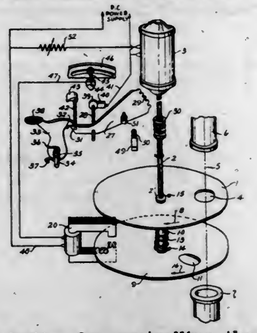
2. A composite article composed of a highly compacted mixture of powdered bagasse having less than 10% of moisture, and powdered gilsonite, there being present 1 to 2 parts of the gilsonite to 4 parts by weight of the bagasse, at least one outer surface of the article comprising pre-formed thermoplastic sheeting bonded to the bagasse.

2,347,698
PIPE TONG
Chester A. Lundeen, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application November 26, 1941, Serial No. 420,469
10 Claims. (Cl. 81—66)



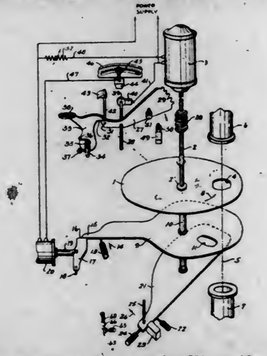
1. In a pipe tong, a lever, two series of pivotally interconnected pipe-encircling jaw segments defining a pipe opening therebetween each segment having a pipe-engaging surface on the inner wall thereof, means pivotally connecting one end segment of each series to the lever at spaced points thereon, latch means providing a readily releasable connection between the other end segments of the series at a point on the side of said pipe opening substantially opposite said lever, whereby the tong may be applied laterally to and released laterally from a pipe in the direction of the longitudinal axis of the lever, and one jaw segment of each series having means providing a plurality of selective points of pivotal connection with an adjacent jaw segment of the series, whereby the effective length of each series of segments may be varied to vary the size of the pipe opening between the segments while maintaining the latch means substantially on the opposite side of the pipe opening from the lever.

2,347,699
CAMERA SHUTTER
George A. Magnus and Samuel Aronoff, Dayton, Ohio
Application February 16, 1942, Serial No. 431,079
21 Claims. (Cl. 95—53)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a shutter for controlling the passage of light through the optical system of a camera, the combination of means for briefly and repeatedly uncovering the system for the passage of light therethrough, a second means for briefly and repeatedly uncovering the system for the passage of light therethrough but at a different time from said first-mentioned means, means for varying the speed of rotation of said second means, and means selectively operable by said first-mentioned means for so controlling said varying means as to cause said second means to uncover the system at the time when it is uncovered by said first-mentioned means thereby permitting a momentary passage of light through the system.

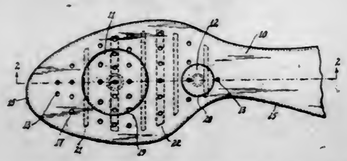
2,347,700
CAMERA SHUTTER
Samuel Aronoff, Dayton, Ohio
Application February 16, 1942, Serial No. 431,119
17 Claims. (Cl. 95—53)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a shutter for controlling the passage of light through the optical system of a camera, the combination of a rotating shutter lying in the path of the light passing through the system, said shutter having an aperture therein which passes through the optical axis of the system with each rotation of the shutter, a screening member likewise lying in the path of the light passing through the system and having a normal

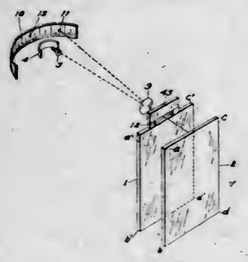
position and a moved position, said member being provided with an aperture which lies out of line with the optical axis when said member is in either its normal or its moved position but which passes through the optical axis as said member passes from its normal to its moved position, means for moving said member from its normal to its moved position, and means operable in accordance with the movement of said shutter for so controlling said moving means as to cause the aperture in said member to pass through the optical axis at the same time that the aperture in said shutter passes therethrough.

2,347,701
MIDDLE SOLE AND INSOLE COMBINATION
Meyer Margolin, Elgin, Ill.
Application December 2, 1941, Serial No. 421,292
5 Claims. (Cl. 36—3)



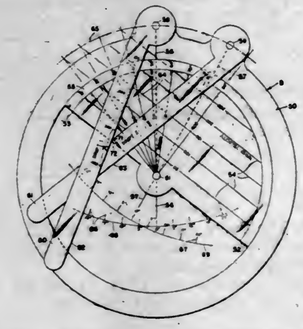
1. In combination, a middle sole and insole, said insole having at least one opening extending through the thickness thereof, said middle sole having at least one projection positively secured thereto and extending upwardly therefrom, said projection positively having a neck portion and an extending mushroom-like top portion, said neck portion extending through said opening in said insole, said mushroom-like top portion extending over said insole adjacent said opening.

2,347,702
DEVICE FOR MEASURING EXTREMELY SMALL ANGLES
Harry B. Maris, Riverdale, Md.
Application April 11, 1941, Serial No. 388,101
12 Claims. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Means for measuring extremely small angles, comprising means bearing a first plane reflecting surface, means bearing a second plane reflecting surface, means normally supporting said first and second surface bearing means with their reflecting surfaces in inclined face-to-face relation and supporting said second surface bearing means for relative movement with respect to said first surface bearing means about an axis normal to the line of intersection of the planes containing said normally inclined surfaces, means for directing a substantially parallel beam of light from a point behind said first surface past an edge of said first surface at its end remote from said line on to said second surface, said beam of light lying in a plane normal to said surfaces prior to relative movement thereof and incident on said second surface at such an angle that it will be reflected a plurality of times between said surfaces and after having been so reflected will emerge at substantially its point of incidence, whereby relative movement of said surfaces about said axis will cause said emerging beam to swing through an angle depending on the magnitude of relative movement of said surfaces and the number of reflections between said surfaces.

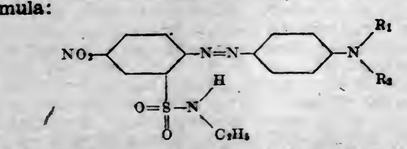
2,347,703
WIND CALCULATOR
Harry B. Maris, Riverdale, Md.
Application March 31, 1943, Serial No. 481,213
7 Claims. (Cl. 33—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A wind calculator comprising a support, a disc rotatable relative to the support, said disc provided with spaced arcuate wind velocity indicia concentric with the axis of rotation of the disc and delineations defining the angle between alternate courses of flight, and arms pivoted to the support for swinging movement about an axis spaced from the axis of rotation of said disc, said arms provided with ground speed indicia spaced to correspond with the spacing of said wind velocity indicia.

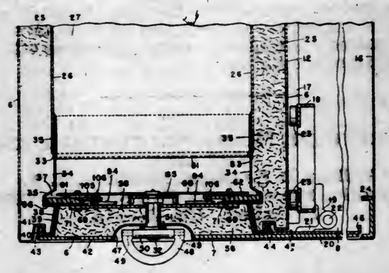
2,347,704
AZO COMPOUNDS
James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application January 8, 1942, Serial No. 426,056
3 Claims. (Cl. 260—205)

3. The azo compounds having the general formula:



wherein R_1 represents a member selected from the group consisting of a lower alkyl group and a lower hydroxyalkyl group and R_2 represents a lower hydroxyalkyl group.

2,347,705
INSULATED RECORD CONTAINER
Edwin H. Mosier, New York, N. Y., and Harry H. Lynn, Wyoming, Ohio, assignors to The Mosler Safe Company, Hamilton, Ohio, a corporation of New York
Application January 5, 1940, Serial No. 312,578
7 Claims. (Cl. 109—59)

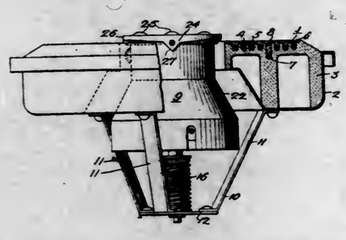


1. Boltwork for a door having a front panel of rectangular formation having a hinge edge, and a rectangular jamb frame on one face of the panel comprising flanges parallel to the edges of the panel and projected inwardly toward the middle point of the panel, said boltwork comprising a series of elongated horizontal and vertical bolt plates one on each of the flanges, and means slidably mounting each bolt plate upon its flange for movement to extended and retracted positions in parallelism with the front panel, mitered ends on each bolt plate adapted to abut when the bolt plates are fully retracted, means including links and link shifters on the door, for selective positive extension and retraction of the door bolts from a location at one side of the door panel, and inclines on the upper and lower horizontal bolt plates, said inclines being formed on those outer edges of said plates which are nearest the hinge edge of the door and meeting the mitered ends of said plates at a point such that the inclines will act as cams against a doorway, to automatically retract the vertical as well as the horizontal bolt plates through the agency of the links and link shifters when the door is moved toward a closed position with the bolt plates extended.

2,347,706
COPPER-ZINC-MANGANESE ALLOY
Cresap M. Moss, Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill.
No Drawing. Application August 15, 1941, Serial No. 407,005
1 Claim. (Cl. 75—155)

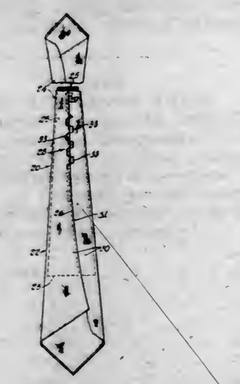
An alloy of copper, zinc and manganese containing not more than 0.05% iron and free from the oxides of aluminum and silicon, said alloy containing about 45% zinc, about 8% manganese having a purity of at least 99%, balance substantially all copper, said alloy possessing an elongation at least equal to that of an alloy of copper and zinc having the same zinc content but devoid of manganese and, in the sand cast form, an elongation of at least 20% in two inches, and a tensile strength of at least 70,000 pounds per square inch in the sand cast form.

2,347,707
ELECTRICAL COOKING APPARATUS
Joseph W. Myers, Philadelphia, Pa., assignor to Procter & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Original application February 24, 1941, Serial No. 380,341. Divided and this application February 3, 1942, Serial No. 429,423
7 Claims. (Cl. 219—37)



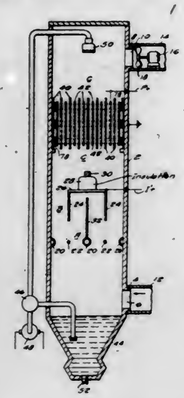
1. In a cooking apparatus, a heating unit, and a control device constructed and arranged to receive heat by thermal conduction from a cooking vessel placed on said heating unit, said control device including a member adapted to engage the bottom of said vessel, mounting means for said member constructed and arranged to enable said member to adjust itself to the contour of the bottom of said vessel, and a plurality of spaced protuberances on said member, whereby uniform thermal contact between said member and said vessel is assured.

2,347,708
NECKTIE
Henry Naftali and Valentine Naftali, Bronx, N. Y., assignors, by mesne assignments, to Dimple Tie Corporation, New York, N. Y., a corporation of New York
Application March 10, 1938, Serial No. 195,038
10 Claims. (Cl. 2—146)



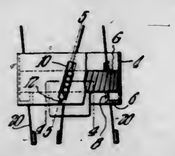
1. A stretchable necktie of the four-in-hand type having stitching disposed in the knot forming area thereof for automatically forming a dimple in the necktie when it is made up into a knot, said dimple extending from within the knot to a point below said knot, said stitching comprising loops disposed transversely of the longitudinal axis of the necktie, said transverse loops being interconnected and facing the front part of the necktie.

2,347,709
ELECTRICAL DUST PRECIPITATOR
Gaylord W. Penney, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 12, 1941, Serial No. 382,852
13 Claims. (Cl. 183—7)



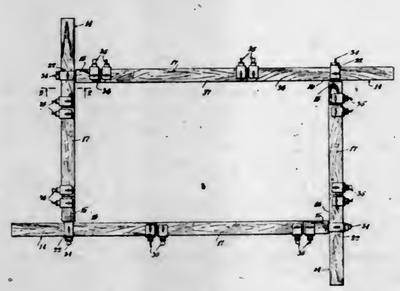
1. Electrostatic precipitating-apparatus for removing foreign particles from a gas-stream, comprising the combination, with duct-means for maintaining said gas-stream, of ionizing-means for ionizing, without entirely precipitating, foreign particles in said gas-stream, and precipitating-means for precipitating charged particles from said gas-stream, said precipitating-means comprising a plurality of closely spaced, thin, flexible, precipitator-plates having a plurality of insulating spacer-means distributed at a plurality of points across their surfaces, means for holding said precipitator-plates in assembled relation, with their spacers between them, and means for maintaining an electrostatic potential-difference between said precipitator-plates.

2,347,710
WORK HOLDING DEVICE
Henry Warden Plumadore, Springfield, Thomas Collins, Jr., Westfield, and John Oakley, Springfield, Mass., assignors to Perkins Machine and Gear Company, West Springfield, Mass., a corporation of Massachusetts
Application April 3, 1943, Serial No. 481,756
2 Claims. (Cl. 51—216)



1. A work holder for a gear having peripheral teeth, a member having an end wall and an annular peripheral wall extending therefrom forming an open-ended cup for receiving a gear, said end wall provided with openings spaced therearound adjacent said annular wall, a plurality of elongated openings spaced around said annular wall terminating inwardly of opposite ends of said wall, said annular and end walls provided with interconnected slots connecting the ends of said openings in the annular wall with those of the end wall, a retainer for each of said openings in the annular wall each including a relatively flexible elongated body member having a plurality of separate members on the intermediate portions thereof, said retainers constructed and arranged whereby one end of the body member may be inserted in an opening of the annular wall to extend under said wall towards the open end of the cup with the members thereof disposed in said openings and in the space between the teeth of a gear in said cup with the other end of the body member passed downwardly through said slots into the opening of the end wall.

2,347,711
STRETCHER FRAME FOR CURTAINS AND THE LIKE
William D. Redmond, Scarsdale, N. Y.
Application September 29, 1942, Serial No. 460,057
20 Claims. (Cl. 45—24.3)



3. A stretcher frame for curtains and the like comprising, in combination, a plurality of side members arranged in symmetrical order with respect to each other and with each having one end opposed to the inside edge of the preceding member for adjusting movement therealong whereby their faces substantially lie in common planes, each side member being formed of front and back clamping strips having complementary faces adapted for clamping curtain material therebetween, clamp members hinging said front and back clamping strips together along their outside edges with each clamp member fastened to the opposing end of the back strip of the succeeding side member and having hinged sections between which the front and back clamping strips of the preceding side member are slidably received and by which the latter are hinged together, and means selectively to prevent hinging movement of said clamp members when said front and back strips are to be clamped together thereby.

2,347,712
TREATING OF LEATHER
Edwin A. Robinson, Chatham, and Ralph E. Porter, East Orange, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application June 13, 1941, Serial No. 397,913
14 Claims. (Cl. 8—94.23)

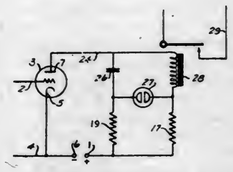
1. In a process of treating natural leather, the step which comprises applying thereto a composition the active components of which consist essentially of a blown fatty oil and a water-insoluble liquid ester containing at least 9 carbon atoms and selected from the class consisting of esters or monohydric alcohols with higher fatty acids, esters of fatty alcohols, containing at least 8 carbon atoms, with lower fatty acids, monoesters of dihydric alcohols with higher fatty acids, and diesters of dihydric alcohols with higher fatty acids.

2,347,713
TOOL INSTALLED CONNECTOR AND PROCESS FOR ITS INSTALLATION
Julian Rogoff, New York, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York
Application March 19, 1941, Serial No. 384,079
2 Claims. (Cl. 173—269)



1. A sheet metal connector attached to a metal cable, having a U-shaped body section formed into a cable receiving socket and made of malleable metal adapted to be cold worked under pressure; a metal plate made of malleable metal having two parallel slots therein through which the legs of the U-shaped body section extend; said legs bent over to lock the cable receiving socket and the plate in contact with the metal cable; the metal cable and connector locked to each other by an indentation by which the metal of the connector is cold worked into the metal of the cable.

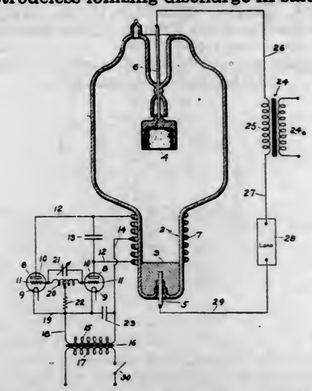
2,347,714
PROPORTIONALIZING CONTROL
Edward M. Sorensen, Coscob, Conn.
Application September 5, 1941, Serial No. 409,702
29 Claims. (Cl. 175—320)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



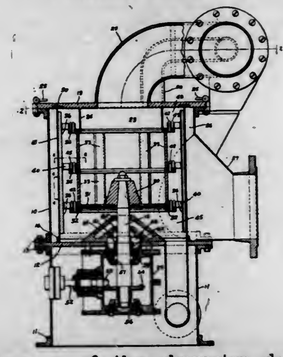
1. The method of exerting a resultant control effect proportional to the value of a source of control energy comprising cyclically accumulating and releasing said energy to exert said control effect, and causing the frequency of said cyclical operation to vary in accordance with the value of said energy.

2,347,715
ARC STARTING DEVICE
Percy L. Spencer, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application July 27, 1940, Serial No. 347,915
6 Claims. (Cl. 315—248)

1. An arc discharge device comprising a pool type cathode, an anode, an ionizable atmosphere adjacent said cathode and means for producing an electrodeless ionizing discharge in said atmosphere adjacent said cathode of sufficient intensity to initiate an arc spot on said cathode.

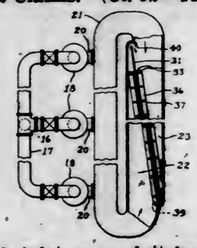


2,347,716
APPARATUS FOR SCREENING PAPER STOCK
Stephen A. Staege, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application July 19, 1939, Serial No. 285,362
7 Claims. (Cl. 92—34)



1. A screen of the character described for screening fibrous material comprising a fixed vertically extending cylindrical screening surface, means providing supply and discharge chambers respectively on the inner and outer sides of said screening surface, means for supplying material to the top of said supply chamber, a rotor operable in the supply chamber and having an annular series of blades provided with screen cleaning portions inclined forwardly toward the screening surface in the direction of rotation and having a maintained scraping engagement with the screening surface in normal operation, means for rotating said rotor at a comparatively slow rate of speed, the blades being of a comparatively large number with a plurality of blades in each quadrant of the rotor so that each opening in the screen is cleaned by the scraping action of the blades up to 30 to 45 times per second although the centrifugal force on the material being screened at the screening surface is substantially negligible, means for withdrawing heavy matter settling in the supply chamber from the bottom of the supply chamber, and means for maintaining the discharge chamber completely filled with screened material.

2,347,717
PAPER MACHINE STOCK INLET
Stephen A. Staege, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application August 26, 1940, Serial No. 354,170
12 Claims. (Cl. 92—44)



9. In a stock inlet, a conduit box, a partition wall in said box extending diagonally between opposite ends thereof to divide the box into a pair of tapered conduits, a stock inlet pipe communicating with the wide ends of said conduits, and said partition wall terminating short of the box walls to join the narrow ends of the conduits with the wide ends whereby excess stock can recirculate between the conduits.

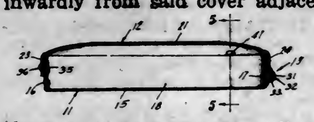
2,347,718
MOORING DEVICE
Matson C. Terry, Toledo, Ohio
Application August 8, 1941, Serial No. 405,954
18 Claims. (Cl. 114—230)



1. A mooring device of the character described, including a handle, a member carried by the handle and movable relative to the latter and of a size to be passed through a mooring ring, and means for connecting a hawser to said movable member, the arrangement of the elements and relative movement therebetween being such that when the handle is engaged with the ring and a pull is exerted thereon the movable member and thereby the hawser will be passed through the said ring and continued movement of the handle in the same direction will position the handle so that same is released from said ring while the hawser remains threaded through said ring.

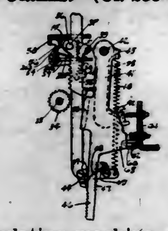
2,347,719
CONTAINER
Edward O. Then, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 8, 1939, Serial No. 283,465
2 Claims. (Cl. 220—36)

1. A hinged tablet box and the like comprising a one-piece body of substantially rectangular shape with rounded corners and having upright parallel front and rear walls and parallel side walls all of substantially uniform height throughout, a one-piece cover corresponding in shape to said body and having a semiflattened domed top wall and depending parallel front and rear walls and parallel side walls which slip over said body walls to close said box with a releasable frictional engagement, a floating hinge connection between the rear cover and body walls to provide relative vertical movement between said rear walls, and an integrally struck indentation extending inwardly from said cover adjacent the



juncture between its top and a side wall and in a rear portion thereof, said indentation constituting an inwardly projecting fulcrum of relatively small area engaging the upper edge of the adjacent body side wall, so that when said body and cover are pinched together rearwardly of said indentation the cover rocks on said body side wall on said fulcrum within the limits of the vertical movement of said floating hinge connection to release said frictional engagement between the box body and cover and to effect initial opening of the cover.

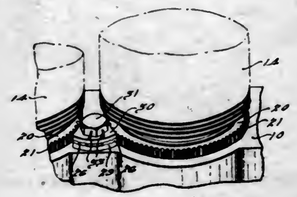
2,347,720
CALCULATING MACHINE
Ferdinand J. Tillman, St. Louis, Mo.
Application April 3, 1937, Serial No. 134,818
18 Claims. (Cl. 235—59)



1. In a calculating machine, a slide having a definite extent of movement from and to a starting position, a rack pivotally supported by said slide, a pinion mounted for rotation by said rack during movement of said slide from said starting position, a cam device movable to a position to engage and hold said rack positively in engagement with said pinion during movement of said slide from said starting position and movable to another position to engage and hold said rack out of engagement with said pinion during return movement of said slide to its starting position, and means for moving said cam to said last named position.

2,347,721
ENGINE
John Tjaarda, Grosse Pointe, and Gunnar E. Ehrling, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 12, 1941, Serial No. 382,924
11 Claims. (Cl. 121—194)

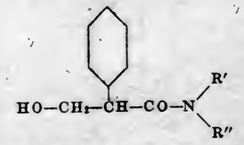
8. In an engine, a crankcase having an opening, a cylinder having an end adapted to enter said opening and also having annularly arranged threads, an internally threaded ring cooperable with said threads and having exterior teeth engageable by a tool to effect rotation of the ring to clamp the cylinder in said opening, a locking member mounted externally of the cylinder and mainly within the confines of lines which are projections of radii of the adjacent cylinder and



forming an included angle of less than forty-five degrees, said locking member having a toothed portion coacting with teeth of said ring, and means engaging said locking member for detachably securing the same in fixed position.

2,347,722
DERIVATIVE OF TROPIC ACID AMIDE
Wilhelm Wenner, Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Original application June 26, 1939, Serial No. 281,269. Divided and this application October 14, 1942, Serial No. 462,063. In Germany July 7, 1938
4 Claims. (Cl. 260—559)

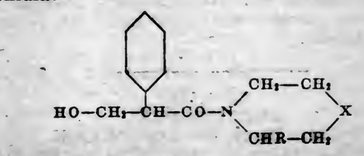
1. A derivative of tropic acid amide of the formula



wherein R' is selected from the group consisting of hydrogen and a lower alkyl and R'' is a lower alkyl.

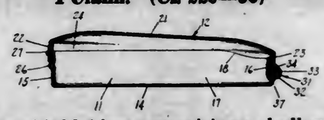
2,347,723
TROPIC ACID AMIDE AND MANUFACTURE THEREOF
Wilhelm Wenner, Montclair, N. J., assignor to Hoffmann-La Roche, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Original application June 26, 1939, Serial No. 281,269. Divided and this application October 14, 1942, Serial No. 462,064. In Germany July 7, 1938
4 Claims. (Cl. 260—247)

1. A derivative of tropic acid amide of the formula:



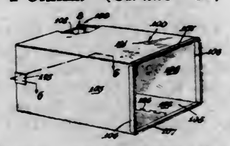
wherein X is selected from the group consisting of a methylene group and oxygen and R is selected from group consisting of hydrogen or a lower alkyl radical.

2,347,724
CONTAINER
Richard J. White, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 16, 1939, Serial No. 295,328
1 Claim. (Cl. 220—36)



A hinged tablet box comprising a shallow walled body member, a walled cover member, a floating pintle hinge connection including spaced pintle pockets disposed in the rear wall of the box for permanently securing said members together, said hinge connection permitting relative movement of said members towards one another when the box is pressed adjacent said hinge to open said cover, and an integral outwardly projecting stop lug in the rear wall of said body member located between and beneath said pintle pockets adjacent the bottom of the box, said lug engaging the pintle carrying portion of the rear wall of said cover member when the cover is hinged outwardly towards open position while bodily moving said floating hinge connection to limit initial opening of the box cover, whereby said cover is first raised into a released partially open position to avoid spilling of the box contents.

2,347,725
WALL AND CLOSURE SUPPORT
Philip Zalkind, New York, N. Y.
Application December 31, 1938, Serial No. 248,820
1 Claim. (Cl. 229—37)

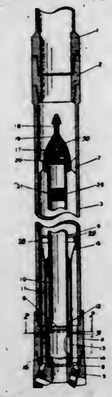


In a container comprising walls, a panel rotatably connected at the free end of one of said walls, a second panel secured to said first mentioned panel and having a common terminal edge therewith along the opposite end of said first panel, and an extension hingedly connected to said latter panel at the end opposite the said common edge thereof, said members forming a reinforced closure element when said first mentioned panel is rotated into the container; said panels having a channel mounted thereover at their common boundary.

2,347,726
WIRE LINE PRESSURE RETAINING CORE BARREL
Donald W. Auld and Louis J. Weber, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application August 29, 1939, Serial No. 292,526
10 Claims. (Cl. 255—72)

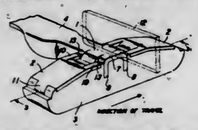
1. A pressure retaining coring assembly to recover a core on the surface of the ground at the same pressure the core left the formation, comprising a string of drill tubing, a core barrel adapted to be lowered into and raised completely out of the string of drill tubing during normal drilling operations, a seat on the lower end of the drill tubing to support the barrel, a bit having a passage in the center thereof attached to

the end of the drill tubing to cut the core, the core when cut passing upwardly through the passage in the bit and into the lower end of the barrel member, means on the core barrel to receive lifting means lowered within the drill tubing to lift the core barrel completely out of the drill pipe when coring is completed, valve means in



the upper and lower portions of the barrel, the upper valve means being opened during coring by gas pressure and the lower valve being opened by the core entering the barrel, the upper valve closing by upward movement thereof relative to the barrel and said lower valve closing in response to the upward movement of the barrel member to make the barrel pressure tight.

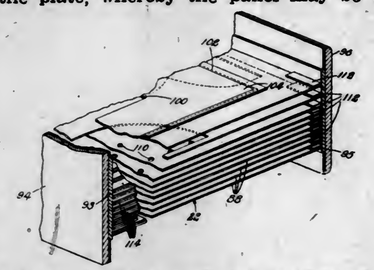
2,347,727
PANEL SELECTOR CONTACT SHOE
Charles C. Barber, Rockville Centre, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 16, 1942, Serial No. 462,249
4 Claims. (Cl. 200—171)



1. A multiple brush contact shoe for a panel bank selector comprising a formed insulating support, two metallic elements imbedded in said support to provide inclined runways to the center of said support, and a central contact element imbedded symmetrically about the center of said support to provide an arcuate approach to the center of said contact element from the inner portion of each of said two metallic elements.

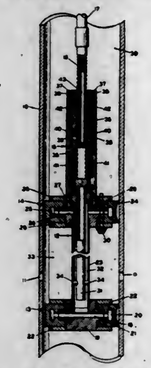
2,347,728
COATING MATERIAL SPRAY RECOVERY MEANS
Charles C. Bell, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application January 8, 1940, Serial No. 312,848. Divided and this application December 7, 1940, Serial No. 368,969
6 Claims. (Cl. 183—107)

1. In a spray booth, a stacked series of parallel closely spaced baffle plates, the top plate having a centrally disposed rectangular opening of relatively large area therein, and a panel arranged to occupy said opening, said panel being hinged to the plate, whereby the panel may be tilted



back to expose the second plate, said panel having an aperture therein.

2,347,729
WELL TOOL
Lewis W. Benz, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 24 1941, Serial No. 399,525
10 Claims. (Cl. 166—11)

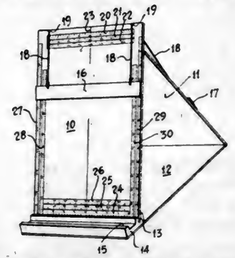


1. A well tool of the character described comprising a pair of spaced fluid expansible hollow packers, an outer tubular member disposed between the packers, an inner tubular member within the outer tubular member and spaced therefrom to form an annular passage that communicates with the interior of both packers, a conduit establishing communication between the interior of the inner tubular member and the exterior of the outer tubular member at a point intermediate the packers, and fluid conducting means coupled to one of the packers and including a member movable with respect to the packers, said means being adapted to transmit fluid material to the annular passage when the movable member is in one predetermined position with respect to the packers and to the inner tubular member when the movable member is in another predetermined position with respect to the packers.

2,347,730
COPYHOLDER
Franklin Black, Los Angeles, Calif.
Application March 31, 1943, Serial No. 481,303
2 Claims. (Cl. 120—33)

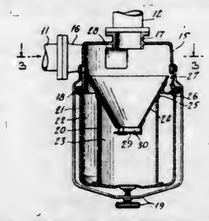
1. In combination, a copy holder comprising a front panel extending upwardly and rearwardly for supporting a copy member thereagainst, and

a line guide comprising a pair of strips of substantially equal weight and extending horizontally, said strips being interconnected by a pair of strings adjacent the ends of said strips, said



strings being adapted to extend across and be suspended by the top edge of said front panel with one of said strips lying against the copy on said panel and the other strip being suspended by the strings at the rear of the panel.

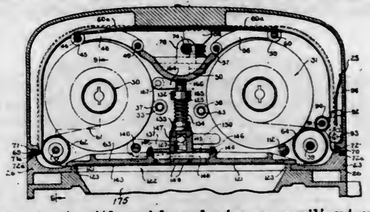
2,347,731
GAS PURIFIER
Jean Ivan Ragnar Boivie, Stockholm, Sweden
Application July 3, 1942, Serial No. 449,611
In Sweden December 7, 1940
3 Claims. (Cl. 209—144)



1. In a device for centrifugally separating solid particles from gas, a member open at the bottom and providing a generally cylindrical chamber, means forming an inlet communicating tangentially with said chamber, means forming an outlet communicating with the top of said chamber, a generally cylindrical solid particle collector open at the top, a cylindrical partition in said collector dividing the latter into a central and an annular chamber, an open ended conical member supported by the upper edge of said partition and having its smaller lower end extending into said central chamber, and its larger upper end extending into said cylindrical chamber, means for spacing said upper end from the wall of said cylindrical chamber to provide an annular space communicating with said annular chamber, and means for removably securing the open upper end of said collector in substantially air tight relation to the open bottom end of the first-mentioned member.

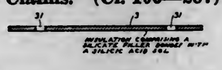
2,347,732
CAMERA
Ambrosius Briechle, Brooklyn, Roy T. Hurley, Dobbs Ferry, and George E. Merritt, Staten Island, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application March 22, 1938, Serial No. 197,402, now Patent No. 2,283,788, dated May 19, 1942. Divided and this application November 22, 1940, Serial No. 366,680
6 Claims. (Cl. 242—71)

1. In a camera having a magazine and a casing detachably secured to said magazine, a pair of film rolls with disc-like end pieces, a three-point support for each of said rolls, each of said three-point supports including three rotatable members engaging the periphery of the film roll end pieces, a pivotable arm carrying one of said members, and spring means engaging said arm to keep the member carried thereby in frictional



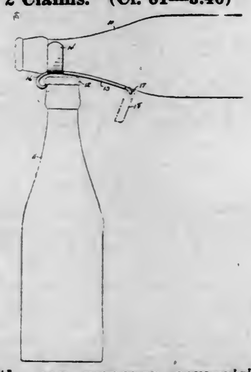
engagement with said end pieces, resilient means carried by said casing, said resilient means engaging the pivotally mounted member of each of said three-point supports to augment the action of said spring means, and spring pressed means frictionally engaging the side walls of each of the film roll end pieces to locate each of said rolls longitudinally.

2,347,733
SWITCHING DEVICE
Carl J. Christensen, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 6, 1941, Serial No. 396,845
3 Claims. (Cl. 106—287)



1. An adherent insulating composition for insulating electrical conductors comprising an inorganic filler bonded with a silicic acid sol produced by combining approximately 45 parts of ethyl silicate, 18 parts of 0.6 normal hydrochloric acid, and 36 parts of ethylene glycol monobutyl ether.

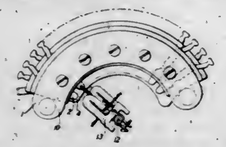
2,347,734
BOTTLE CAP REMOVER
Charles H. Cowan, Jr., Stonington, Conn.
Substituted for abandoned application Serial No. 406,549, August 12, 1941. This application May 24, 1943, Serial No. 488,210
2 Claims. (Cl. 81—3.46)



1. A bottle cap remover comprising, a resilient lever curved longitudinally and transversely to fit the contour of the neck of a bottle, curved arms integral with the forward end of

the lever adapted to embrace the neck of the bottle to secure the lever to the bottle to permit the bottle to form a handle for exerting leverage on the lever, said lever being provided at said end thereof with a rearwardly and upwardly extending hook to engage underneath and remove the metal cap of a bottle disposed at substantially a right angle to the first named bottle.

2,347,735
SWITCHING MECHANISM
Howard L. Coyne, Rockville Centre, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 19, 1942, Serial No. 458,949
7 Claims. (Cl. 200—164)

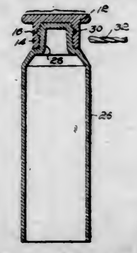


1. In a switch, a shaft, terminal banks, wiper assemblies secured to said shaft, said shaft being operable to cause the wipers of said assemblies to engage the terminals in said banks, each of said wipers in said assemblies consisting of a helically coiled wire and a stiffening wire core therein to maintain a yielding engagement between said coiled wires and the terminals in said banks.

2,347,736
PROCESS FOR PRODUCING ALUMINA
Elbert E. Fisher, St. Louis, Mo., assignor to Marlew W. Fisher, St. Louis, Mo.
No Drawing. Application July 24, 1943, Serial No. 496,044
5 Claims. (Cl. 23—52)

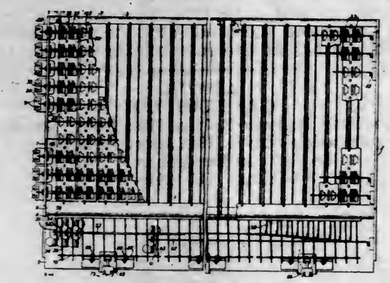
1. In a process for treating an aluminous siliceous material from an aluminous siliceous material which comprises mixing with the material a calcium compound and a sodium compound, subjecting the mixture to a temperature above 1500 degrees Fahrenheit but not greater than 2000 degrees Fahrenheit for a period greater than four hours, adding to the product a sodium compound, re-subjecting the resultant mixture to approximately the same temperature for approximately one hour, and then mixing the resulting product with water to remove the sodium aluminate formed during the two heating steps.

2,347,737
MANUFACTURE OF DISPENSING CONTAINERS
Joseph C. Fuller, Newton, Mass.
Application November 14, 1942, Serial No. 465,603
5 Claims. (Cl. 18—47.5)



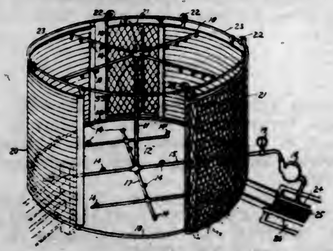
1. The method of producing a dispensing container comprising a top and a cooperating closure which together function as a valve characterized by preforming one of said elements with a peripheral portion constituting a surface of revolution having a shoulder, molding the other element as an integral mass in close fitting but non-adhering relation to said surface and about said shoulder to effect an inseparable connection of the parts in relatively rotatable relation, and piercing the so joined elements at a point removed from the axis of revolution.

2,347,738
SWITCHING MECHANISM
Henry C. Harrison, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 6, 1942, Serial No. 453,856
8 Claims. (Cl. 179—27.54)



1. In a switching device a plurality of crossbar switches, each having horizontal and vertical rows of contacts intersecting each other for the establishing of connections between the contacts of any horizontal row and the contacts of any vertical row at the cross-point of said two rows, horizontal bars common to all switches, vertical bars in each switch, means for preselecting one vertical bar in each switch by flexing them, means associated with each switch for actuating a vertical bar in said switch operative when it has been flexed, means for actuating any horizontal bar and means responsive to the actuation of a vertical bar in any switch and a horizontal bar for establishing a connection between the contact sets at the cross-point of said two bars.

2,347,739
SPRAYING SHEEP AND OTHER ANIMALS
Walter Henry Higgins, Wagga, New South Wales, Australia
Application December 30, 1940, Serial No. 372,409
In Australia January 6, 1940
5 Claims. (Cl. 119—159)



1. Apparatus for spraying sheep and other animals comprising, hollow overhead rotatable spray arms assembled to receive spray fluid from a source of fluid supply, a series of spray jets on each spray arm, said spray jets being inclined downwardly at an angle to the vertical position, the outer of each series of spray jets being inclined outwardly, a circular enclosure about said spray arms having its wall placed within the spray path of said outer jets, a floor for said enclosure, rotatable spray arms provided with upwardly directed spray jets below said floor and assembled to rotate when the overhead spray arms rotate, and said floor having openings to permit the spray fluid to pass therethrough from the spray jets below the floor.

2,347,740
SHOE SOLE STRUCTURE
Charles Rapelje Hill, Toronto, Ontario, Canada
Application September 18, 1942, Serial No. 458,810
In Canada October 4, 1941
7 Claims. (Cl. 36—3)



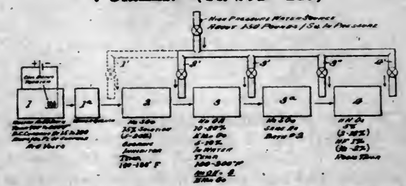
1. A sole interlayer for shoes comprising a sheet of creped paper having a waterproof coating on one side thereof and a multiplicity of punctures therein, said punctures being substantially uniformly disposed throughout the sheet.

2,347,741
DENTAL CHUCK
Herbert Leslie Hobday and Norman George Brown, Melbourne, Victoria, Australia, assignors to said Hobday
Application August 10, 1940, Serial No. 352,138
In Australia August 8, 1939
8 Claims. (Cl. 51—194)



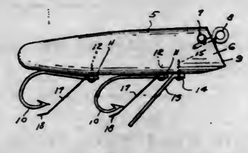
1. A dental chuck comprising, a cylindrical member axially bored for operative connection to the live spindle of a power source, a shank, a cushioning sleeve on said shank, a longitudinal pin spaced from said shank, to fasten a sheet of abrading material and a resilient coupling member detachably fitted to the end of said shank and adapted for the interchangeable mounting thereon of a cutting or filing tool or abrading medium.

2,347,742
PICKLING PROCESS
Walter Lewis Keene, Baltimore, Md., assignor to Rustless Iron and Steel Corporation, Baltimore, Md., a corporation of Delaware
Application September 18, 1939, Serial No. 295,520
7 Claims. (Cl. 204—145)



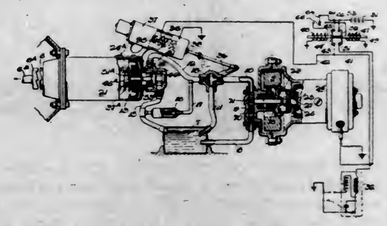
1. In the removal of a light scale from stainless steel products, the art which comprises the steps of removing the greater part of the oxide content of the outerlying scale by subjecting the scale-covered metal to cathodic treatment in a bath of fused sodium hydroxide at a temperature of about 700° to 800° F. followed by quenching the metal in water, and thereafter forming soluble compounds of the remaining scale by subjecting the metal to non-electrolytic treatment in a dilute sulfuric acid bath containing an organic inhibitor and maintained at a temperature of at least 140° F.

2,347,743
ARTIFICIAL WEEDLESS FISHING LURE
Herman J. Koering, Pierz, Minn.
Application January 1, 1942, Serial No. 425,315
2 Claims. (Cl. 43—46)



1. A fishing lure comprising a body, a hook depending from the body, a flexible weed guard flap depending from the body in advance of the hook, and a member interposed between the flap and the hook to prevent fouling of the flap on the hook.

2,347,744
ENGINE STARTING
Samuel K. Lehman, New York, N. Y., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application January 11, 1943, Serial No. 472,082
6 Claims. (Cl. 123—179)



3. In an inertia starter for internal combustion engines, an inertia member, means for accelerating said inertia member to relatively high speed, an engine-engaging member and hydraulic means for converting the high speed rotation of the inertia member into low speed rotation of said engine-engaging member.

2,347,745
SAFETY SADDLE AND SCAFFOLDING
Elmer E. McKinney, Reading, Pa.
Application October 20, 1942, Serial No. 462,735
3 Claims. (Cl. 304—5)

1. A scaffolding of the character described comprising a trestle having a horizontal beam, a saddle structure on each end of the beam disposed transversely of the beam, stage planks disposed longitudinally of the beam and upon the saddles, and retaining means for the stage boards, said retaining means comprising clamp plates disposed over certain edges of the boards and bolt members extending downwardly from the

clamp plates and through end portions of the saddle structures, and a guard rail structure rising from the clamp plates at one side edge of one of the boards.

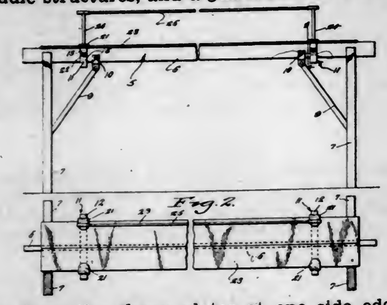
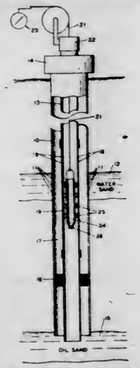


Fig. 2.

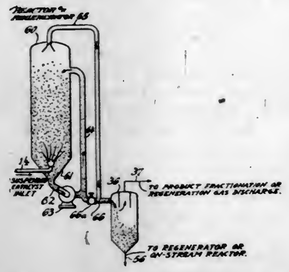
2,347,746
METHOD OF MEASURING FLUID FLOW
Lawrence L. McWilliams, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 17, 1941, Serial No. 374,943
2 Claims. (Cl. 73—51)



1. In a method of measuring the volume of fluid transmitted from a fluid-bearing formation into a second formation through a well bore that communicates with both formations and that has a conduit therein, the steps comprising placing the interior of the conduit in communication with the fluid-bearing formation, providing a seal between the exterior of the conduit and the well bore at a point intermediate the formations, restricting the flow of fluid through the conduit, and simultaneously ascertaining the resulting drop in fluid pressure at the surface of the ground.

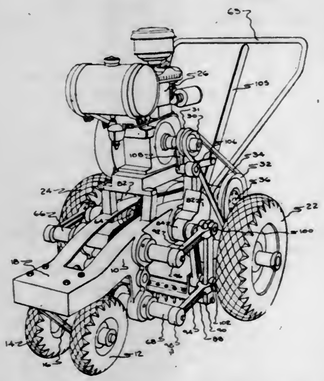
2,347,747
SUSPENDED CATALYST TECHNIQUE
Ralph M. Melaven, Highland, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 30, 1939, Serial No. 311,813
8 Claims. (Cl. 196—52)

6. In a catalytic hydrocarbon conversion system employing a powdered catalyst containing fine and coarse particles substantially all of which are less than 200 mesh in particle size, the method of operation which comprises suspending such powdered catalyst in a hydrocarbon vapor stream, introducing said stream and suspended catalyst at a low point in an enlarged vertical contacting zone, maintaining operating conditions in said contacting zone for effecting substantial conversion of said hydrocarbons into reaction products of different characteristics, withdrawing reaction products together with fine catalyst particles from the top of said reaction zone, settling and downwardly withdrawing coarse catalyst particles from said reaction zone at a point below the point at which said suspended catalyst stream is introduced thereto,



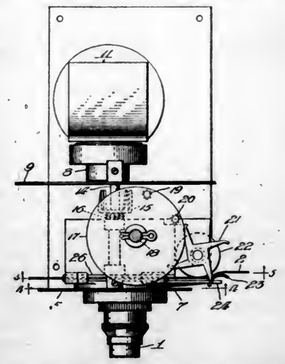
returning a portion of the coarse catalyst particles from the lower to the upper part of the contacting zone, separating fine catalyst particles from reaction products and commingling said fine particles with the unrecycled portion of said downwnwardly withdrawn coarse particles whereby the fine and coarse catalyst particles may be simultaneously regenerated while in a commingled state and fractionating the vapors from which the fine and coarse particles have been separated.

2,347,748
TURF PERFORATOR
Herman W. Melling, Jackson, Mich.
Application May 17, 1940, Serial No. 335,687
7 Claims. (Cl. 97—44)



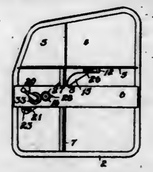
1. A turf perforating machine comprising a rigid bar carrying a plurality of perforating instruments, a rotated shaft located above and parallel to said bar, heavy bodies of concentrated mass mounted upon opposite ends of said shaft and rotated therewith, and a direct crank and rod connection between said bodies and the ends of said bar.

2,347,749
PHOTOGRAPHIC APPARATUS
Spencer F. Monroe, Chicago, Ill., assignor to Monroe Camera Corporation, Chicago, Ill., a corporation of Illinois
Application February 24, 1941, Serial No. 380,243
1 Claim. (Cl. 88—18.3)



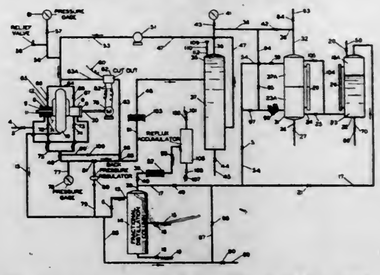
In a photographic camera the combination of separate lenses with individual shutters for each lens, means for guiding photographically sensitive material between said lenses comprising thin strips of metal with portions cut out to permit the passage of light rays so as to impinge on opposite sides of said sensitive material, means for causing said sensitive material to move between said strips of metal, means for simultaneously operating said shutters and means for correlating the motion of said sensitive material and said shutters comprising a revolving disk with a plurality of pins extending down therefrom so as to engage successively said means for moving said material and said means for operating said shutters.

2,347,750
MOUNTING AND REGULATING MECHANISM OF SLIDING WINDOWS
Laurence Francis Moroney, Moonee Ponds, near Melbourne, Victoria, Australia
Application August 2, 1940, Serial No. 349,927
In Australia August 28, 1939
8 Claims. (Cl. 268—126)



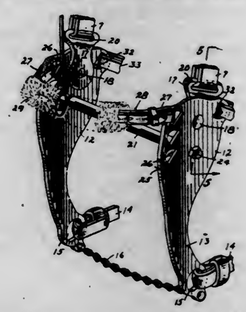
1. Improved mountings and actuating mechanism for a sliding window of a motor-car or other vehicle, comprising a mounting plate; a tube-like guideway fixed vertically beneath the window opening, said guideway being provided with a longitudinal slot; a runner slidable vertically in said guideway and provided with bearings operative to restrain movement other than vertical; a member on said runner projected through said slot and providing a support for a glass window panel; an operating lever fulcrumed to said mounting plate; a shaft rotatable on said mounting plate; a crank arm fixed on said shaft and engaging an end of said operating lever; a movable operating connection between the other end of said operating lever and said glass panel supporting member, and a regulator handle adapted to impart rotary motion to the shaft mounting said crank arm to raise and lower the window panel in a vertical path controlled by said runner in said guideway.

2,347,751
PUMPING SYSTEM
William B. Reeves and Edward L. Utsinger, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application June 2, 1941, Serial No. 396,368
5 Claims. (Cl. 103—111)



1. In a system for sealing a stuffing box of a pump employed to pump fluids at elevated pressures, means to circulate a sealing fluid in an endless circulatory cycle including said stuffing box as a part thereof and means placing the discharge fluid of said pump in pressure communication with the sealing fluid while preventing contact therewith thereby to impose upon said sealing fluid a pressure at least substantially equal to that of said discharge fluid.

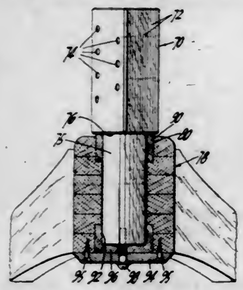
2,347,752
BRIDLE
John J. Schmelz, Contra Costa County, Calif.
Application February 28, 1941, Serial No. 381,008
5 Claims. (Cl. 54—6)



1. In a hackamore bridle, a head-stall including cheek straps, complementary cheek-plates depending from said cheek straps in mutually opposed relation, a curb band for connecting corresponding rearward points of the cheek plates for the rearward extension of its loop transversely of the common plane of the cheek straps, a bosal band for connecting corresponding forward points of the cheek-plates for the forward extension of its loop transversely of said common plane of the cheek straps, means to attach the ends of said bands to said cheek-plates

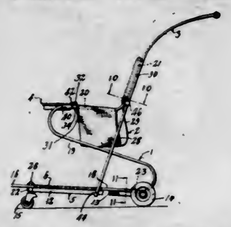
at corresponding different points thereof for selected and different mutual spacings of the planes of the transversely extending bands with the bosal band no higher than the curb band, and means to rock said cheek-plates in their planes for effecting a cooperative and forcible control gripping by the bands of the nose of an animal wearing the bridle.

2,347,753
CHAIR
William J. Sengpiel, Buffalo, N. Y., assignor to The Sikes Company, Buffalo, N. Y.
Application August 19, 1942, Serial No. 455,301
6 Claims. (Cl. 155—95)



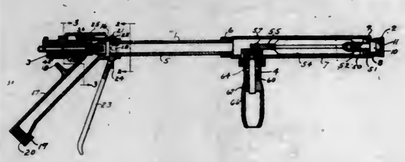
1. A rotatable seat device comprising a base including a hub, a spindle extending into said hub and rotatably bearing thereon and extending upwardly therefrom, and a seat fixed to the extending end portion of said spindle, said base comprising a leg structure and said hub mounted upon the upper end of said leg structure, said hub comprising a socket-like member of plywood, and said leg structure having dowel pins extending therefrom into different of the laminations of said hub and cemented therein, the individual plies of said hub being of sufficient thickness to more than receive a single of said dowel pins.

2,347,754
CHILD'S CHAIR
Cora E. Shay, Los Angeles, Calif.
Application October 15, 1940, Serial No. 361,229
6 Claims. (Cl. 155—22)



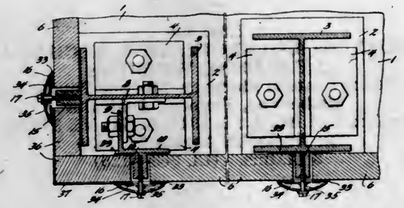
1. A device of the type described comprising: a supporting frame including a pair of side members extending substantially parallel and horizontally, said members being continuous at their rear ends with a back member, a flexible seat comprising a continuous belt section looped about said side members whereby it can be removed and attached by slipping it over said back member, and a flexible back rest continuous at its lower edge with one lap only of said belt section and having an inverted pocket thereon at its upper end for engaging said back member.

2,347,755
SPRAY GUN VALVE
Warren M. Spreng, Ashland, Ohio, assignor to The F. E. Myers & Bro. Company, Ashland, Ohio, a corporation of Ohio
Application July 15, 1940, Serial No. 345,519
5 Claims. (Cl. 251—134)



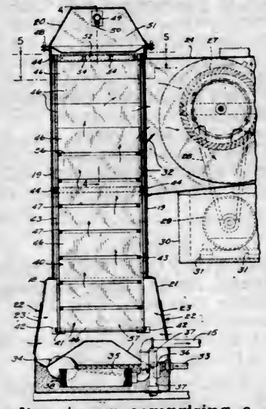
1. A hand-operated valve mechanism for controlling liquid passing through the barrel of a spray gun, said mechanism comprising a shield partially surrounding the barrel and adapted to move with respect thereto, a hollow handle secured to said barrel, said shield having sides which lie adjacent to said handle, said handle providing a passageway which communicates with the interior of said barrel, said passageway being normally closed by a valve, a trigger mounted on said barrel and adapted to move said shield longitudinally of the barrel when a gripping force is applied to the trigger, said shield being connected to said valve in order to open the passageway through the valve when the trigger is operated.

2,347,756
WALL CONSTRUCTION
George E. Swenson, Hastings on Hudson, N. Y., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application January 8, 1942, Serial No. 426,091
6 Claims. (Cl. 189—34)



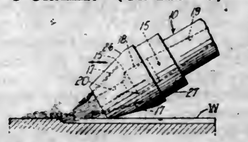
1. In a building wall the combination of vertical structural members; an anchor bar disposed centrally of the outer face of each of such members and forming a recess therewith, each bar provided with a plurality of bores extending inwardly from the outer surface thereof; a plurality of similarly formed wall panels arranged in a horizontal row, each wall panel spanning the space between two adjacent such members, the ends of each panel closely fitting such recesses, adjacent panels separated from each other by an anchor bar; tension means engaging a bore of each of said bars and securing said wall panels in place; a batten disposed at the vertical joint between said adjacent panels, said batten being arcuate in transverse section with the side edges thereof engaging the outer surfaces of said adjacent panels and the central portion of said batten spanning said tension means and an additional tensioning means engaging a bore of said bar and securing said batten in place.

2,347,757
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 6, 1941, Serial No. 392,090
4 Claims. (Cl. 261—112)



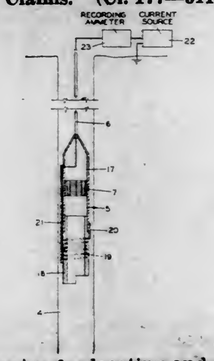
1. A cooling tower comprising a casing providing an upright shaft having an inlet for air in the lower part thereof and an outlet for air at the upper part thereof, members in said passage providing liquid bearing surfaces projecting above said air outlet, liquid distribution structure for depositing liquid on said surfaces and forming a liquid film thereon in a zone above said air outlet, said structure including a barrier to flow of air between the zone in which liquid is deposited on said surfaces and said air outlet, said liquid bearing surfaces being substantially continuous in vertical extent in the region of said air outlet so that all the liquid descending by gravity through this region is adherent to said members so as not to be entrained by air flowing from the passage at high velocity, and said surfaces having small gaps at places below said air outlet so that liquid is redistributed on said surfaces by dripping across said gaps, the spacing between said members being proportioned so that the velocity of air is substantially the same on all sides of said gaps so that the dripping liquid is not displaced into the air streams.

2,347,758
METHOD OF REMOVING METAL FROM METAL BODIES
Wesley S. Walker, Larchmont, N. Y., and Wilgot J. Jacobsson, Plainfield, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application November 26, 1937, Serial No. 176,400, now Patent No. 2,266,834, dated December 23, 1941, which is a division of application Serial No. 536,254, May 9, 1931. Divided and this application May 28, 1940, Serial No. 337,632
3 Claims. (Cl. 148—9)



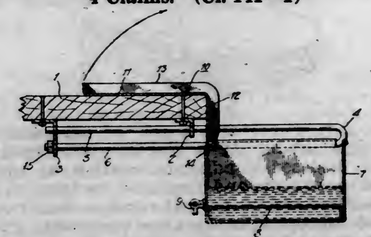
1. Method of scarfing or gouging a shallow layer of surface metal from a ferrous metal body, such as a steel billet, which comprises heating at least a portion of the surface of said billet to be gouged to an ignition temperature; providing a relatively voluminous stream of oxidizing gas; reducing the velocity of flow of said stream; discharging said stream through an orifice elongated transversely of the direction of flow to provide a substantially sheet-like stream having a predetermined velocity; directing said stream at an acute angle against the preheated surface portion; maintaining said sheet-like stream positioned with its longer transverse dimension substantially parallel to said surface; and relatively moving said stream and said surface in a direction parallel to the surface and in the general direction of flow of said stream.

2,347,759
FISHING TOOL
Thomas C. Wherry, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 29, 1941, Serial No. 385,927
5 Claims. (Cl. 177—311)



1. In apparatus for locating and recovering an object in a well bore, the combination comprising a housing that is open at its lower end and that is adapted to be moved through the well bore and to receive at least a portion of the object through said open lower end, means within the housing for engaging the object when a predetermined portion thereof has been received in the housing, an electric circuit including means within the housing and responsive electrically to variations in the distance between the housing and the object, a source of electric current, and an indicator responsive to electrical variations in the circuit.

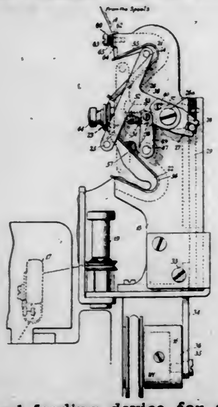
2,347,760
ATTACHMENT FOR WORKBENCHES
Charles Wulstein, New York, N. Y.
Application December 12, 1942, Serial No. 468,856
4 Claims. (Cl. 141—1)



1. Attachment for work benches and the like, comprising in combination with a drawer-type

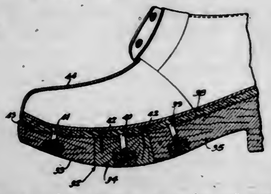
structure adapted to be slidably secured beneath the top of the bench, a container mounted on said structure so as to be extensible from beneath to a position in front of said top, a tray hinged to said container to form a lid-like member, said tray having a bent shape so as to project towards the bottom of said container when turned down while having one portion of said tray rest on said top when said container is in the extended position and said tray turned up, another portion of said tray when in said turned-up position forming a drain leading into said container.

2,347,761
STITCHING MACHINE
Joseph W. Bedard, Hoosick Falls, N. Y.
Application February 5, 1941, Serial No. 377,502
13 Claims. (Cl. 112—242)



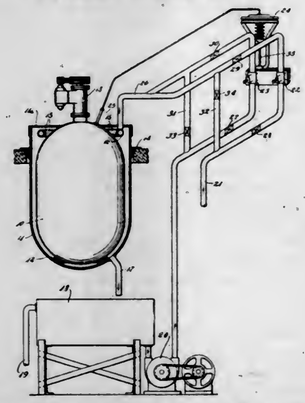
4. A thread-feeding device for stitching machines presenting a thread storage supply station adapted to accommodate a length of thread from a supply spool, a thread storage receiving station adapted to accommodate the thread from the supply station, a rocking member for transferring the thread from the supply station to the receiving station, and means for preventing the transfer of thread between the two stations while a new length is being deposited in the supply station.

2,347,762
SHOE
Gus E. Bergman, Columbus, Nebr.
Application December 16, 1942, Serial No. 469,152
2 Claims. (Cl. 36—13)



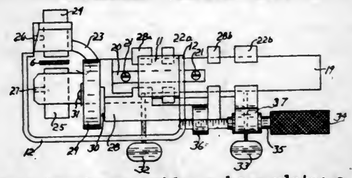
1. A shoe comprising a sole of substantially rigid material having a plurality of separable sections disposed in adjacent relation, an insole secured to said sole and overlying the same to secure said sections in hinged relation, said insole being of substantially the same peripheral shape as said sole and being of a slightly flexible material whereby the portions of the insole registering with the junctions of the separable sections of the sole flex when said sections move in hinged relation, a welt of flexible slightly compressible material secured to the upper surface of said sole along the periphery thereof and disposed between said sole and said insole, an upper portion of flexible material adapted to receive the foot of the wearer, said upper portion having a lower opening of substantially the same shape as the peripheral shape of the sole, the lower edge of said portion being secured to the lower side of said insole along the peripheral edge thereof, and means for drawing said insole and said sole together to compress said welt and bring said welt and said lower edge into tight engagement with each other and to bring said lower edge into sealing engagement with the peripheral edge of the lower side of said insole.

2,347,763
TEMPERATURE CONTROL SYSTEM
Willard F. Bixby, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 12, 1941, Serial No. 388,345
1 Claim. (Cl. 23—260)



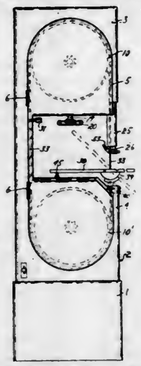
In combination with a chemical reaction vessel, means for controlling the temperature of the contents of the vessel comprising a tank below the vessel for reception of temperature control liquid, temperature control means including a pipe line having a pump and a valve therein for recirculating a portion of said temperature control liquid, a fresh liquor supply pipe line having a valve therein connected to said first pipe line and communicating with a source of supply of fresh liquid for introducing fresh temperature control liquid into the circulating system, gears operatively connected to said valves, a third gear having an interrupted thread operatively connected to both said gears, thermostatic means operatively connected to said third gear and responsive to temperature conditions in said reaction vessel, said valves and gears being so interconnected and arranged as to cause the valve in said fresh liquor supply line to open and the valve in said temperature control means to close as the temperature in said reaction vessel increases and to cause the valve in said fresh liquor supply line to close and the valve in said temperature control means to open as the temperature in said reaction vessel decreases and to move the valve in said temperature control means toward the closed position after the valve in said fresh liquor supply line has fully closed.

2,347,764
BAND SAW
William B. Boice and John E. Boice, Toledo, Ohio
Application June 3, 1941, Serial No. 396,434
6 Claims. (Cl. 143—161)



2. In a band saw guide; a base plate; a frame slidably mounted on said base plate and supporting one set of guides; a second frame mounted on said plate and supporting a second guide; an adjusting screw connecting said frames and alternate locking means on each of said frames adapted to selectively lock them to said base plate comprising a locking screw for the one frame and a locking screw for said second frame.

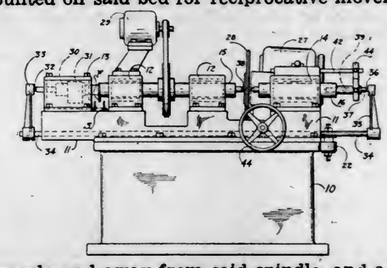
2,347,765
BAND SAW
William B. Boice and John E. Boice, Toledo, Ohio
Application July 11, 1941, Serial No. 402,014
3 Claims. (Cl. 143—17)



2. In a unitary band saw head; a reinforced column formed from U shaped sheet metal; a lower assembly secured to said column, said assembly comprising an L shaped wall section and a cover section secured thereto; means to reinforce said wall which comprises a pair of bar members and a pair of transversely disposed triangular sheet metal elements one of which is secured to said cover; an upper assembly secured to said column which comprises an L shaped wall and a reinforced U shaped element to stiffen said wall; a cover for said housing, and means on said lower assembly to support a table bracket.

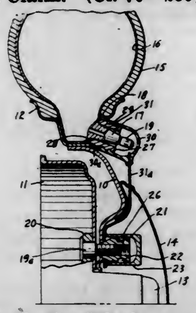
2,347,766
GRINDING MACHINE
Ottis R. Briney, Jr., Pontiac, Mich.
Application May 21, 1942, Serial No. 443,871
3 Claims. (Cl. 51—95)

3. A grinding machine comprising a bed, a spindle bearing rigidly supported thereby, a spindle therein, a thread on said spindle, a nut engaged with said thread and secured against axial movement relative thereto, a motor mounted on said bed operatively connected with said spindle, a foot stock bearing rigidly supported on said bed, a dead center mounted for restricted reciprocative movement therein, a grinding wheel mounted on said bed for reciprocative movement



towards and away from said spindle, and a yoke spanning the ends of said spindle and said dead center and supported in spring pressed relation therewith.

2,347,767
TIRE AND WHEEL LOCK
Frank C. Burrell, Lyons, Ill.
Application January 28, 1942, Serial No. 428,496
1 Claim. (Cl. 70—259)

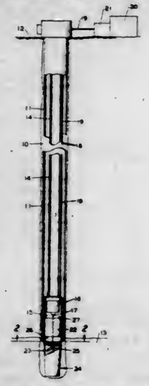


In a tire and wheel lock, a removable dust cover arranged to fit over the hollow hub of a wheel, said wheel having a tire, rim and outstanding valve stem extending from said tire through said rim, said dust cover being arranged to conceal nuts for securing said wheel to a support member, one of said nuts being provided with a key operated lock, a collar having external multiple threads, a valve locking cap removably engaging the multiple threads on said collar, said collar surrounding said valve stem and having an outstanding flange extending between said tire and said rim, said dust cover having an opening, a flexible locking arm extending through the opening in said dust cover, said arm being rigidly secured to said locking nut and said locking cap so as to prevent the deflation of said tire and the removal of said dust cover and locking nut until said key lock is operated.

2,347,768
APPARATUS FOR PRODUCING WELLS
Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 4, 1941, Serial No. 386,926
7 Claims. (Cl. 103—204)

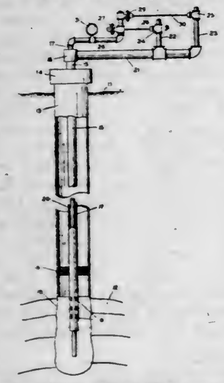
1. In well apparatus of the character indicated wherein rotary pumping means is positioned in a well bore and is employed to raise well fluid upwardly therethrough to the surface of the ground, the improvement comprising centrifugal

separator means adapted to extend below and rotate with the pumping means in the well bore and including inlet means and outlet means adapted to communicate with the well bore and the interior of the pumping means, respectively, said separator means being adapted to separate solid material from well fluid admitted thereto



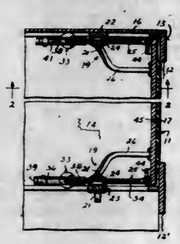
through the inlet means and to transmit well fluid substantially free of solid material through the outlet means to the pumping means, a receptacle adapted to be disposed in the well bore for receiving and retaining the separated solid material, and means for indicating a predetermined rise in level of separated solid material in the receptacle.

2,347,769
SECONDARY RECOVERY APPARATUS
Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 27, 1941, Serial No. 412,646
8 Claims. (Cl. 166—1)



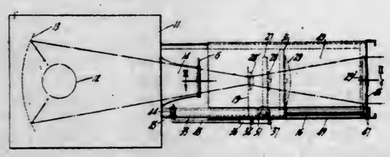
1. Apparatus for use in the recovery of hydrocarbons from a partially depleted hydrocarbon-bearing formation that is penetrated by a well bore comprising means for transmitting fluid comprising a liquid component and a gaseous component into and downwardly through the well bore, and pressure actuated valve means for increasing the quantity of one component of the fluid and decreasing the quantity of the other component of the fluid transmitted into the well bore in response to a change in pressure in the lower portion of the well bore.

2,347,770
COUNTERBALANCED OVERHEAD DOOR
Adelbert S. D'Autremont, Kernville, Calif.
Application February 23, 1942, Serial No. 431,970
11 Claims. (Cl. 20—16)



1. In a device for counterbalancing a door which is mounted for its swinging between a limiting upright closed position at a doorway opening and a limiting overhead horizontal open position about a fixed horizontal axis which is transversely spaced from a door side and parallel to the door, a counterweight, a suspension member supporting said counterweight from a top point of the door for its swinging movement with respect to the door as the door is moved about said axis, and means carried by the door in fixed relation thereto and directly cooperative with said suspension member to so limit the swinging movement of the counterweight with respect to the door that the line of action of the counterweight is maintained at the opposite side of said axis from the opening while the door-and-counterweight assembly is arranged for its swinging about said axis through a position of unstable equilibrium with respect to said axis at a door position between said limiting positions of the door.

2,347,771
LIGHT PROJECTOR
Walter G. Dion and Gerald J. Dion, Buffalo, N. Y.
Application March 7, 1942, Serial No. 433,756
9 Claims. (Cl. 240—3)

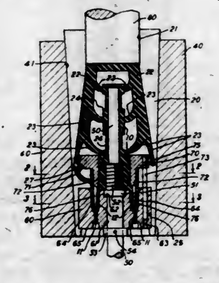


4. In a spot-light for uniformly illuminating areas of various diameters at given distances, a source of light and a fixed light aperture therebefore for receiving a quantity of light from said source, adjustable refracting means before said aperture for selectively spreading or converging a beam of light passing therethrough, said refracting means comprising a long focus lens disposed axially of said beam and movable manually toward and away from said source and said aperture and a short focus substantially spherical convex lens disposed axially of said beam between the long focus lens and the aperture, and means operable by and upon adjusting movement of said long focus lens for automatically moving said short focus lens to a position for directing the light beam from said aperture against said long focus lens as a beam of uniform distribution for efficient projection thereby.

2,347,772
ALIPHATIC DICARBYLAMINES AND PROCESS OF PRODUCING THEM
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 10, 1942, Serial No. 434,064. In Great Britain March 10, 1941
10 Claims. (Cl. 260—464)

1. Straight chain aliphatic compounds containing two carbylamine groups.

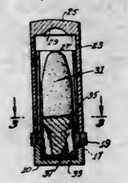
2,347,773
MOLDING APPARATUS
Erwin E. Franz, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1941, Serial No. 421,869
2 Claims. (Cl. 18—42)



2. A holding apparatus comprising a plurality of matched segments of a mold proper having together a conical exterior surface and parted along planes containing the axis of the said surface, and a chase to receive the matched segments and having a conical bore to receive and match the conical exterior surface of the matched segments, the matched mold segments being formed in their parting surfaces with cavities providing in the complete mold proper a compression chamber and a plurality of branched runners from the compression chamber communicating with the molding cavity of the mold proper at spaced points along the same and the matched mold segments being formed in their parting surfaces with corresponding recesses each to receive an externally cylindrical core member and hold the same against either lateral or longitudinal displacement, in combinamatching segments of a plurality of cylindrical tion with a core member in each of the said recesses and an aligning member extending through corresponding bores in two of the core members and in an intervening portion of a mold segment.

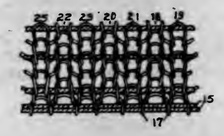
2,347,774
COSMETIC HOLDER
Albert Gelardin, New York, N. Y.
Application August 16, 1941, Serial No. 407,178
2 Claims. (Cl. 206—56)

1. A cosmetic holder of the character described, in combination, a sleeve comprising a cup-shaped bottom having a shoulder portion, said sleeve being formed with at least one longitudinal slot, a cosmetic stick carrier having integral therewith at least one lug on its peripheral surface adapted to be disposed within the slot in the sleeve and supporting an annulus concentric with the sleeve and a cover telescoping over the sleeve and engaging the annulus, said annulus being of an outside diameter greater than that of the cover whereby said carrier may be retracted



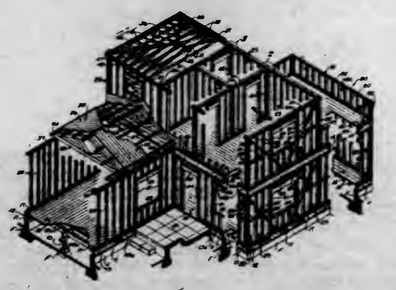
by the cover in its movement in telescoping over the sleeve.

2,347,775
STOCKING TOP
Isaac H. C. Green and Eugene St. Pierre, Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Original application February 14, 1938, Serial No. 190,516, now Patent No. 2,345,666, dated April 4, 1944. Divided and this application December 29, 1943, Serial No. 516,004
5 Claims. (Cl. 66—172)



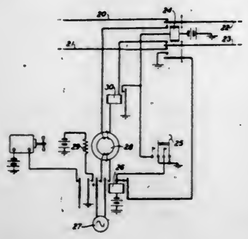
2. A selvage for a stocking top including knitted sinker loops of a plain yarn and an elastic yarn passing through each sinker loop and passing twice through at least a few sinker loops to overlap upon itself.

2,347,776
TERMITE CONTROLLING BUILDING CONSTRUCTION
John W. Gunn, Montrose, Calif.
Application June 23, 1941, Serial No. 399,371
8 Claims. (Cl. 20—1)



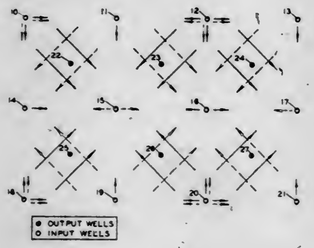
1. A building framework comprising a plurality of juxtaposed wood frames, each comprising a plurality of untreated wood members bounded by termite treated wood members, said termite treated members mutually isolating the untreated members of the respective frames, in such manner that no untreated member of any frame is permitted to contact an untreated member of another frame.

2,347,777
SIGNALING CIRCUIT
Clarence D. Hanscom, Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 23, 1941, Serial No. 424,100
4 Claims. (Cl. 177—380)



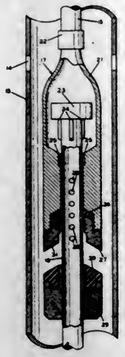
1. In a signaling system, means for transmitting a signal of definite duration comprising a signaling source, a receiving circuit, a repeating coil connecting said source to said circuit, the core of said coil made of an alloy having a Curie point slightly above room temperature, means for automatically arresting the transmission of current from said source to said circuit comprising means for heating said core to said Curie point to terminate said signal and means for simultaneously starting said signaling and said heating operation.

2,347,778
METHOD OF RECOVERING HYDROCARBONS
Willis A. Heath, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 10, 1941, Serial No. 418,599
9 Claims. (Cl. 166—21)



1. In a method of recovering hydrocarbons from a hydrocarbon-bearing formation that is substantially devoid of natural fluid energy and that is penetrated by a plurality of input wells and at least one output well, the steps comprising shutting in the output well, injecting fluid under pressure into the formation through at least one input well to effect movement of hydrocarbons through the formation in one general direction and toward the output well, subsequently injecting fluid under pressure into the formation through at least another input well to effect movement of hydrocarbons through the formation toward the output well in a general direction that is across the direction of movement effected by the preceding step, and opening the previously shut-in well and withdrawing fluid from the formation therethrough.

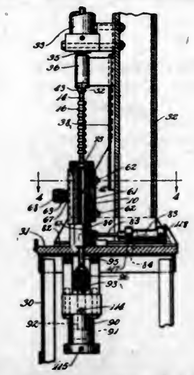
2,347,779
WELL APPARATUS
Willis A. Heath, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 7, 1942, Serial No. 438,035
4 Claims. (Cl. 137—34)



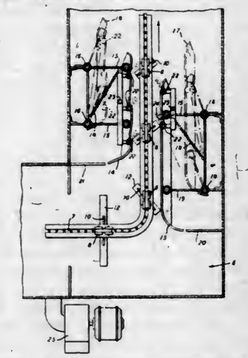
1. In apparatus of the character described, the combination comprising an outer conduit, an inner conduit extending into and spaced from the outer conduit to form an annular passage therewith, one of the conduits being longitudinally movable with respect to the other conduit, means comprising a flexible member carried by one of the conduits for forming a fluid seal across the annular passage, a combined stop and valve member carried by the inner conduit for limiting longitudinal movement of the movable conduit with respect to the other conduit in one direction and for cooperating with one end of the outer conduit to form a fluid seal between the annular passage and the exterior of the outer conduit, means for effecting coupling engagement between the conduits upon predetermined longitudinal movement of the movable conduit in the opposite direction to limit relative movement of the movable conduit with respect to the other conduit in said opposite direction and to prevent relative rotational movement of either conduit with respect to the other conduit while permitting relative longitudinal movement of the movable conduit with respect to the other conduit in the first mentioned direction, and a plurality of longitudinally spaced ports in the inner conduit, one of said ports establishing communication between the interior of the inner conduit and the exterior of the outer conduit upon predetermined longitudinal movement of the movable conduit in one direction, additional ports coacting with the flexible member and establishing communication between the interior of the inner conduit and the exterior of the outer conduit upon further predetermined longitudinal movement of the movable conduit in the same direction.

2,347,780
APPARATUS FOR ASSEMBLING RESILIENT JOINTS
Otto E. Hermanns, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 31, 1943, Serial No. 489,203
4 Claims. (Cl. 29—88.2)

1. Apparatus for assembling a pin and resilient bushing in a housing, said apparatus comprising means for supporting a housing, means for supporting the cross pin and bushing in determinately oriented position, means for forcing the cross pin and bushing into the housing in one direction to a position beyond the normal position, and means for forcing the cross pin in the opposite direction to its normal position.



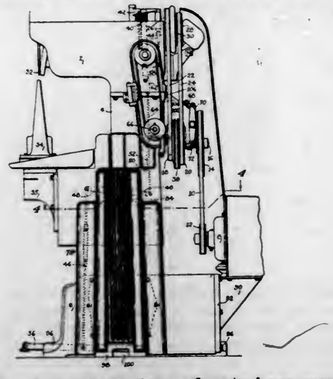
2,347,781
DRYING APPARATUS
Fred D. Johnston, Towson, and Sloan S. Sherrill, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 23, 1941, Serial No. 408,014
11 Claims. (Cl. 34—232)



1. In a drying apparatus, a pair of walls forming a narrow path for articles to be dried, a conveyor for carrying articles through the path, means for movably supporting one of the walls so that said wall may be moved by an incorrectly positioned article carried by the conveyor to laterally expand the path and thereby prevent damage to the article or the wall, resilient means for returning the wall to its original position, and means for projecting a drying medium upon the articles.

2,347,782
SHOE MACHINE FRAME
Clyde L. Knott, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application March 8, 1938, Serial No. 194,594. Divided and this application July 30, 1941, Serial No. 404,681
13 Claims. (Cl. 112—258)

1. A machine of the class described having, in combination, a main frame of generally rectangular horizontal section, operating devices in the frame, a base of generally rectangular horizontal section, means for raising and lowering the frame relatively to the base to adjust the height of the operating devices to the height of the operator, and substantially imperforate base covering guide plates having opposed surfaces between which the frame is mounted to slide vertically secured to opposite sides of the base while exposing for convenient access a side of the base on which no guide plates are secured.



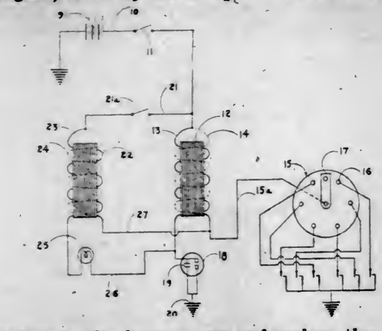
2,347,783
METHOD OF PROCESSING WOOD FOR THE RAPID MATURATION OF WHISKY AND OTHER ALCOHOLIC LIQUORS AND WINES
Ernst T. Krebs, San Francisco, Calif.
No Drawing. Application October 1, 1941, Serial No. 413,180
10 Claims. (Cl. 99—48)

1. A method of treating wood to insure the prolific growth of fungi Penicillia, and to activate the wood so that it will produce in spirituous liquor in a relatively short time the same physical, chemical and biological phenomena as will occur over a period of years when spirituous liquor is treated with normal unactivated wood, comprising moistening tannin-containing wood with a growth-activating vegetable hormone, developing in said wood a prolific growth from cryptogamic spores, and processing the resulting batch until there is produced a fruit mustard-like odor indicative of the prolific development of fungi Penicillia.

2,347,784
WARNING SIGNAL
Joseph La Rocca, Cleveland, Ohio
Application July 14, 1941, Serial No. 402,288
1 Claim. (Cl. 177—311.5)

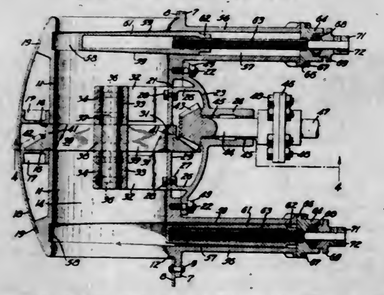
The combination, with an ignition system of an automotive vehicle, said system including a battery, an ignition coil having a primary and a secondary winding, a distributor, a circuit including the secondary winding and the distributor, a circuit breaker, a circuit including the battery, the primary winding and the circuit breaker; of a second coil having a primary winding and a secondary winding, a signal lamp, a lead from one end of the primary winding of the second coil to said lamp, means for connecting the primary winding of the second coil and the lamp in parallel with the primary winding of the first coil and for connecting the secondary winding of the second coil in parallel with the secondary winding of the first coil, and means

for varying the periodicity of the circuit breaker throughout the entire range of speed of the engine, whereby the lamp will produce a flicker



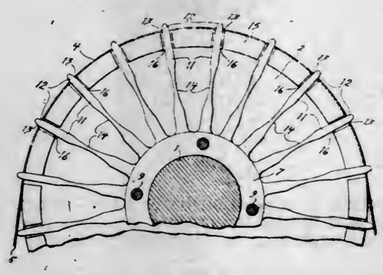
visible to the human eye only when the engine is driven at a low rate of speed and an apparently continuous light when the engine is driven at higher rates of speed.

2,347,785
SHIP PROPULSION
Earl V. Lovell, Napa, Calif.
Application November 10, 1942, Serial No. 465,130
5 Claims. (Cl. 115—42)



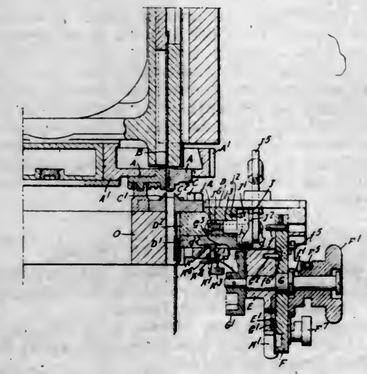
2. In a ship having an aperture in a submerged portion of the hull thereof and intermediate the bow and stern of said hull and extending exteriorly thereof through said aperture, said casing having therein a cylindrical passage, extending longitudinally of the hull, and an aperture axially intersecting said passage and through which the passage and the interior of the hull may communicate, a cover plate removably secured to said casing, closing said aperture, having an arcuate portion thereof forming a part of the wall of said passage and provided with struts carrying bearings concentrically positioned with respect to said passage, a shaft journaled in said bearings, a rotor carried by said shaft having impeller vanes for engaging and forcing sea water through said passage, a bevel gear carried by said rotor, a bevel pinion meshing with said bevel gear and carried by a drive shaft journaled in said cover plate, means within said hull and connected with said drive shaft for revolving said rotor, chambered housings on said casing at the respective ends thereof, each having a chamber therein and extending radially from the casing into the interior of said hull, valves slidably mounted in said chambers and movable transaxially of said passage so as to partially or totally close said passage, screws journaled in said housings and threadedly engaged with said valves, and cranks secured to said screws, at the end thereof within the hull, by means of which said screws may be rotated so as to move said valves across said passage.

2,347,786
STRIP FEED SPROCKET
Louis A. McNabb, Evanston, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application September 8, 1941, Serial No. 410,050
2 Claims. (Cl. 74—243)



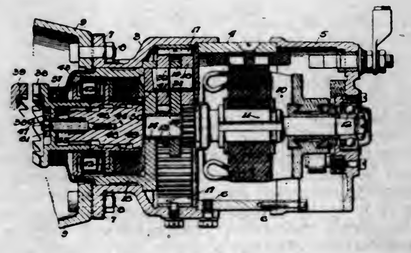
1. In a strip feed sprocket, the combination with means providing a peripheral strip supporting surface, of sprocket teeth spaced angularly about the sprocket for engagement with feed perforations of a strip on said supporting surface, resilient shanks on said teeth and extending radially inward from said surface and rigidly fixed together only at their inner ends and operative to normally maintain said teeth in uniformly spaced positions and to permit individual yielding movement of said teeth angularly of the sprocket out of said positions, and positive stop means in the region of said supporting surface and operative to limit said movement of said teeth out of said positions.

2,347,787
SLUG TRIMMING MECHANISM FOR TYPOGRAPHICAL CASTING MACHINES
Richard R. Mead, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application March 6, 1942, Serial No. 433,596
20 Claims. (Cl. 199—59)



1. In or for a typographical casting machine, slug trimming mechanism including, in combination, means for effecting primary adjustments of the mechanism within a relatively low range for slugs of different thicknesses without overhang type-bearing portions, and means for effecting supplementary adjustments thereof within a different and higher range for slugs with overhang type-bearing portions.

2,347,788
ENGINE STARTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application October 22, 1940, Serial No. 362,272. Divided and this application April 20, 1942, Serial No. 439,761
2 Claims. (Cl. 74—305)



1. A multiple planetary gearing for an engine starter of the like, said gearing including an orbit gear, a plurality of gears in mesh with said orbit gear near one end thereof, a second plurality of gears in mesh with said orbit gear near the opposite end thereof, means for supporting said gears for planetary movement, said supporting means consisting of plane-surfaced planet carriers mounted on a common rotatable bearing, and of solid coaxially aligned cylindrical members of uniform diameter throughout, and having their ends disposed entirely within the end surfaces of the gears, on the one end, and entirely within the end surfaces of the planet carriers, on the other, and means integral with one of said plane-surfaced planet carriers to transmit rotation from one of said plurality of gears to the other, said last-named planet carrier constituting the sole member occupying space between said two pluralities of gears, and also constituting the sole retaining means for certain of said solid cylindrical members, the other of which solid cylindrical members act as abutments to assure correct positioning of the first-named solid cylindrical members.

2,347,789
SKI POLE
Charles Nichols, Brooklyn, N. Y.
Application May 20, 1941, Serial No. 394,245
14 Claims. (Cl. 280—11.37)

1. The combination with the shaft of a ski pole, of a collar intended to detachably hold a basket on the shaft, said collar comprising male and female portions, said male portion having a frusto-conical head and a threaded shank, with a hole running axially therethrough and being permanently secured to the shaft, and said female portion being frusto-conical and internally threaded to receive the threaded shank of the male portion, said portions when assembled providing a V-shaped annular groove adapted to receive and

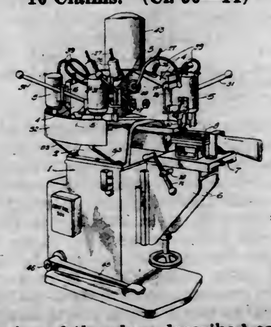


to flexibly hold a basket between the frusto-conical surfaces of the male and female portions.

2,347,790
ALKYLATION PROCESS
Arlie A. O'Kelly, Woodbury, N. J., and Dale P. J. Goldsmith, Cambridge, Mass., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 15, 1940, Serial No. 324,085
17 Claims. (Cl. 260—683.4)

1. The process of alkylating paraffinic hydrocarbons with olefinic hydrocarbons which comprises contacting the paraffins and olefins under alkylating conditions in the presence of an active alkylation catalyst consisting essentially of solid material selected from the group consisting of compounds of the general type MX, and associations between such compounds, wherein M is a metal and X is chlorine or fluorine and wherein MX is a metal halide that is a solid, stable compound at 800° F., and controlling the concentration of olefins during reaction so that the principal reaction is said alkylation.

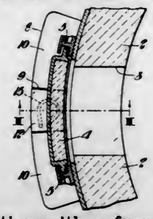
2,347,791
TURRET HEAD ROUTER
Rudolph F. Onsrud, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois
Application July 16, 1942, Serial No. 451,105
10 Claims. (Cl. 90—14)



1. A device of the class described comprising a rotatable turret carrying spaced guideways thereon permitting axial and lateral movement, a plurality of angularly spaced spindle heads carried by said guideways for independent movement in both axial and lateral directions, a work car-

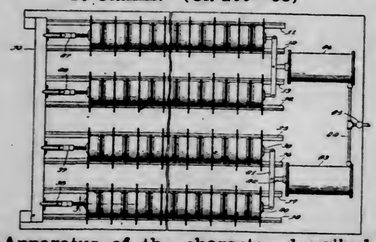
riage, and stop means coacting with said turret to locate said spindle heads selectively in working position with respect to said carriage, each of said spindle heads having a single operating lever engaging a spindle head and mounted on the turret so as to shift the spindle head in both lateral and axial directions.

2,347,792
DOORSILL FOR ELECTRIC FURNACES
Tom James Peters, Chicago, Ill.
Application July 29, 1941, Serial No. 404,558
2 Claims. (Cl. 122—499)



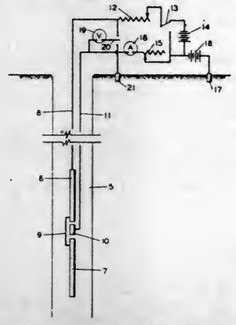
1. In combination with a furnace of the class described having an opening arranged in the side thereof for removing slag therefrom and a door for closing said opening, a sill arranged below said opening upon which said door is adapted to rest when moved to its closed position, said sill including an insert member arranged directly opposite said opening and over which the slag is adapted to flow, said insert member comprising a substantially flat relatively thick metallic body member consisting of a solid casting having a relatively high coefficient of heat conductivity, and means embedded in and cast integral with said body member for conveying a cooling fluid therethrough for cooling the same.

2,347,793
CHEESE PRESS
Thorkild Petersen, Elgin, Ill., assignor to Pure Milk Cheese Co., a corporation of Illinois
Application September 15, 1941, Serial No. 410,924
10 Claims. (Cl. 100—55)



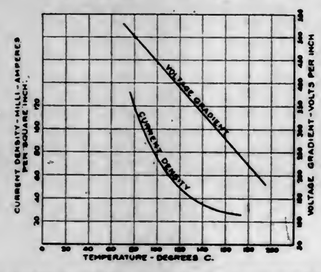
1. Apparatus of the character described for pressing cheese, including: a plurality of hoops adapted to receive the cheeses to be pressed; a pair of spaced parallel guide rails for supporting the hoops with their axes horizontal; a plurality of followers equal in number to the number of hoops, each follower being of sheet metal and having a circular portion adapted to be received within the hoop with which it cooperates and another portion adapted to engage said guide rails to support the followers with their circular portions coaxial with the hoops, both the hoops and followers being horizontally movable along said guide rails; and pressure applying means adapted to force the followers at least partly within their cooperating hoops to press said cheeses.

2,347,794
WELL SURVEYING DEVICE
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 15, 1941, Serial No. 383,592
8 Claims. (Cl. 175—182)



1. A method of electrically logging a bore hole comprising suspending an elongated electrode in the bore hole to be logged, grounding a second electrode, setting up an electrical potential between the two electrodes whereby electric current flows between the two electrodes, suspending an exploring electrode in the well bore intermediate the ends of the elongated electrode end electrically insulated therefrom, simultaneously setting up an electrical potential between the exploring electrode and the second electrode, simultaneously moving the elongated electrode and the exploring electrode in fixed relation thereto along the bore hole, and simultaneously measuring the current flowing between the exploring electrode and the second electrode as the exploring electrode moves along the bore hole.

2,347,795
CARBON-COMPOSITION RESISTOR
Leon Podolsky, Pittsfield, Mass., assignor to Sprague Products Company, North Adams, Mass., a corporation of Massachusetts
Application February 19, 1943, Serial No. 476,382
3 Claims. (Cl. 201—75)

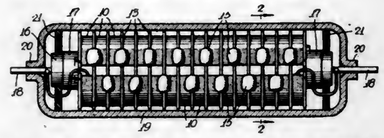


1. A high-resistance carbon-composition resistor for use in high-voltage circuits under operating temperatures in excess of 80° C., whose dimensions are such that the current density does not exceed the approximate value given by the formula

$$D=\frac{734,400}{T^2}$$

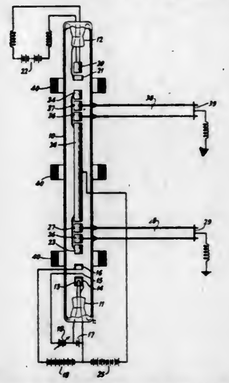
where D is the current density in milli-amperes per square inch, and T is the operating temperature in degrees centigrade.

2,347,796
ELECTRICAL RESISTOR
Leon Podolsky, Pittsfield, Mass., assignor to Sprague Products Company, North Adams, Mass., a corporation of Massachusetts
Application February 19, 1943, Serial No. 476,383
9 Claims. (Cl. 201—75)



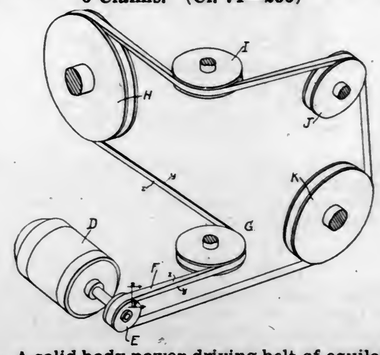
1. In a resistor of the character described, a plurality of flat resistance elements arranged in the form of a stack, each element having spaced edge portions serving as contact portions and defining between them a conductive path transverse with respect to the longitudinal axis of the stack, means interconnecting said contact portions for electrically establishing said elements in series, and insulating means between the elements to restrict the current travel to said transverse paths, said insulating means comprising a disc of insulating material between each adjacent pair of resistance elements, said disc extending laterally beyond said elements throughout the major portion of the periphery of said elements.

2,347,797
ELECTRON DISCHARGE DEVICE
Klaas Posthumus, Frans Michel Penning, Eduard Gerardus Dorgelo, and Cornelis Verburg, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application December 2, 1941, Serial No. 421,298
In the Netherlands July 19, 1940
5 Claims. (Cl. 250—27.5)



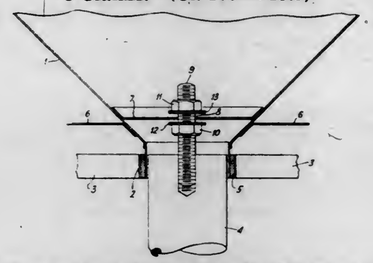
1. An electron discharge device including a cathode for supplying electrons and means for forming electrons from the cathode into a directed beam, a collector for said electrons, electrode means positioned between the beam forming means and the collector providing a control space and other electrode means within said control space comprising a pair of hollow electrodes through which the beam is to be directed, said electrodes being adapted to have high frequency voltages applied thereto out of phase with each other for successively accelerating the electrons in the beam and means between the collector and said control space providing means for extracting energy from the beam.

2,347,798
BELT
Victor G. Reiling, Dayton, Ohio, assignor to The Dayton Rubber Mfg. Company, Dayton, Ohio, a corporation of Ohio
Application March 10, 1941, Serial No. 382,468
6 Claims. (Cl. 74—233)



1. A solid body power driving belt of equilateral triangular shape comprising an equilateral triangular core of inextensible cords embedded in rubber composition.

2,347,799
LOUD-SPEAKER
Alexander Schaaf, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application September 5, 1941, Serial No. 409,598
In Germany September 4, 1939
3 Claims. (Cl. 179—115.5)

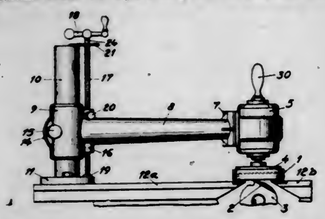


1. In a loudspeaker, a cone diaphragm, a member for centering the diaphragm affixed thereto, a disk provided with a central aperture and having its peripheral edge secured to the inner surface of the diaphragm adjacent the small end thereof, a fixed member extending through the disk aperture with sufficient clearance to prevent contact between the disk and said member, and a pair of spaced stop members carried by the fixed member, one on each side of the disk, adapted to coact with the portion of the disk surrounding the disk aperture for limiting the amplitude of vibration of the diaphragm during normal operation of the loud speaker.

2,347,800
DEVICE FOR GRINDING STRAIGHT EDGES ON PLANER CUTTER BLADES
Hjalmar Emanuel Sjöstrand, Stockholm, Sweden
Application August 25, 1941, Serial No. 408,276
In Sweden July 12, 1939
2 Claims. (Cl. 51—249)

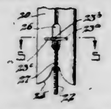
1. A device for grinding straight edges comprising a support, in combination with an arm

connected pivotally movable to said support, a frame pivotally connected to the outer end of said arm and comprising a rotatable shaft pro-



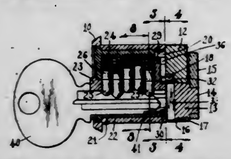
vided with a grinder, an auxiliary arm movably connecting the opposite side of said frame to an auxiliary support in order to guide the grinder in a more straight line.

2,347,801
YARN GUIDE DEVICE
Benjamin Subin, Abington Township, Montgomery County, Pa., assignor to Hosiery Patents Inc., Lansdale, Pa., a corporation of Pennsylvania
Application July 3, 1943, Serial No. 493,486
16 Claims. (Cl. 66—126)



1. A knitting machine yarn guide device adapted to be releasably associated with a support and comprising, a yarn guide section provided with an integral part which extends beyond the confines of said section and forms a latch element adapted to cooperate with complementary latching means on the support for retaining the device in position on the latter.

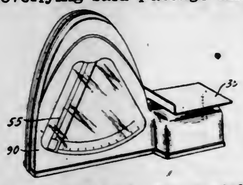
2,347,802
REMOVABLE CORE LOCK
Henry G. Voight, Hamden, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut
Application January 4, 1943, Serial No. 471,231
9 Claims. (Cl. 70—369)



1. In a lock structure, a housing, a tumbler core removably mounted in said housing, a key barrel rotatably mounted within the core, and a rollback operated by the key barrel, the axis of rotation of said rollback being offset from that of the key barrel and being closer to the periphery of the housing.

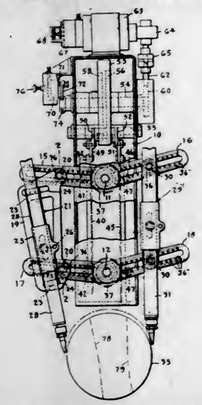
2,347,803
DASHPOT FOR SCALES
Kenneth C. Allen, Dayton, and David A. Meeker, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application October 15, 1941, Serial No. 415,108
4 Claims. (Cl. 188—96)

1. A dashpot adapted for controlling the oscillations of a scale and to be completely enclosed within and inaccessible from the exterior of the scale housing comprising a cylinder for receiving a quantity of hydraulic fluid, a plunger operating in said cylinder and movable in substantially sealed relation with respect thereto, a bypass passage for the flow of fluid from one side of said plunger through the interior and to the other side thereof, a temperature responsive element, a sleeve valve member cooperating with and closely overlying said passage and having a



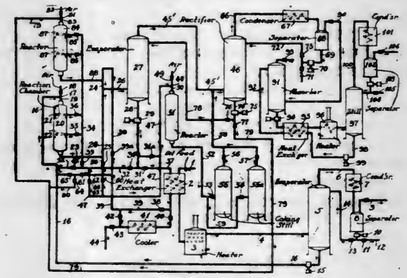
continuous opening therein for variable registry with said passage, one part of said opening being of substantially uniform cross-section, and another portion of said opening being of rapidly increasing cross-section, and means interconnecting said temperature responsive element and said valve to move the valve in response to temperature changes to maintain a substantially uniform damping effect throughout the range of room temperature conditions.

2,347,804
CUTTING MACHINE FOR ROUND BILLETS
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application January 25, 1940, Serial No. 315,473
6 Claims. (Cl. 266—23)



1. An oxygen cutting machine for cutting round stock including in combination a supporting frame located above a work-piece to be cut, two torch-holders, independently movable means on the frame for supporting the respective torch-holders and shifting said holders along arcuate paths corresponding to the surface of the work-piece to be cut, and apparatus for moving the supporting means in opposite directions to shift the torch-holders and the torches supported by said holders across the work-piece from opposite sides, said apparatus including an electric motor, mechanism operated by the motor to move one torch for a given distance across the work-piece and then back to its starting position, means operated by said motor for starting the movement of the other torch shortly before the first torch and moving said other torch in one direction during the entire remaining movement of the first torch both forward and backward to starting position, and automatic means for returning said other torch to its starting position after its cutting operation.

2,347,805
METHOD OF CONVERTING OIL
David B. Bell, Long Beach, Calif., assignor to Kenyon F. Lee, Los Angeles, Calif., as trustee
Application December 26, 1939, Serial No. 310,913
7 Claims. (Cl. 196—65)



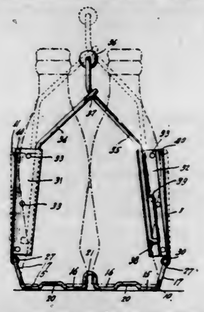
1. A process for converting oil which comprises preheating oil to a temperature of about 600–650° F., reacting said preheated oil at said temperature with an oxygen-containing gas to raise said oil to a temperature of about 800° F. or higher, separating the unvaporized oil from the vaporous fraction formed by said conversion, said separated oil being at a temperature of around 800° F., cooling said separated oil to a temperature of about 600–650° F. and reacting the separated oil so cooled with an oxygen-containing gas to raise the temperature of said oil from about 900° F. to about 950° F., to cause a coking of said separated oil, introducing said separated oil into a coking zone, and separating coke and vaporous fractions in said zone.

2,347,806
TRIM PANEL
Edward P. Bolen and Alvin C. Lind, Detroit, Mich., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application February 9, 1942, Serial No. 430,144
10 Claims. (Cl. 154—45.9)



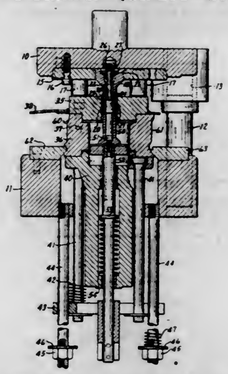
7. A trim panel having a panel board, padding material spaced apart on said panel board and cooperating therewith to provide an outwardly opening channel shaped recess, a strip of resilient material within and extending lengthwise of said recess, a trim fabric covering the padding material upon one side of the recess and having an edge portion overlying the strip of resilient material, a trim fabric covering the padding material upon the other side of the recess and having an edge portion overlying the edge portion of the first mentioned fabric, a decorative strip overlying the edge portions of said fabrics, and a strip of resilient material between the decorative strip and edge portions of said fabrics and bonded to the decorative strip and said edge portions.

2,347,807
BOTTLE CARRIER
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application July 17, 1941, Serial No. 402,825
7 Claims. (Cl. 224—48)



2. In a bottle carrier, a base comprising a plurality of discrete generally transverse, bottle-supporting wires, corresponding end portions of said wires extending in alined relation and longitudinally of the base at the sides thereof, a tubular connector within which the alined wire-ends at each side of the base are received, each of said tubular connectors having openings in its wall for the passage of the body portions of said wires, said openings being not materially larger than the body portions of said wires whereby said wires are prevented from material movement relative to each other or to said connector, sides mounted respectively on said connectors and rotatable relatively thereto, and means for releasably holding said sides in erect position.

2,347,808
DIE
Charles M. Brehm, Springfield, Ohio, assignor to The Steel Products Engineering Company, Springfield, Ohio, a corporation of Ohio
Application July 15, 1942, Serial No. 451,079
8 Claims. (Cl. 164—29)



1. In combination, a pair of cooperating die members adapted to be brought together and moved simultaneously in one direction in translation, trimming members carried respectively by said dies and shiftable relative to each other and with respect to a neutral position, means for shifting one of said trimming members relative to the other in one direction away from and back to said neutral position to break through

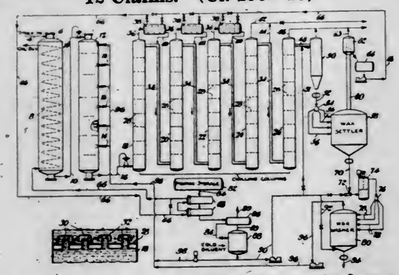
the scrap and to trim one part of the blank, means for thereafter shifting said one of said members relative to the other in a plurality of similar movements in different directions away from and back to neutral position to progressively complete the trimming of the blank, and means for effecting each shifting movement subsequent to the first in a direction adjacent to a preceding movement to provide for maintaining the scrap in a single piece.

2,347,809

METHOD FOR DEWAXING OILS

David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania

Application December 20, 1940, Serial No. 370,941
12 Claims. (Cl. 196—18)



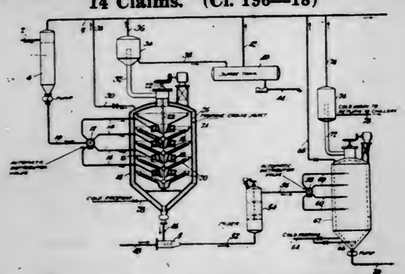
1. In a process for dewaxing petroleum oil stocks in which the stock to be dewaxed is dissolved in and diluted with a liquefied normally gaseous hydrocarbon diluent which is liquid at dewaxing temperatures, the improvement which comprises chilling the solution by passing it through a series of interconnected large zones held at progressively lower pressures by the hydrostatic head of the mixture in the succeeding zones, in each of which a substantial body of the oil-diluent mixture is maintained, vaporizing portions of the diluent in each zone and thereby chilling the mixture of oil and diluent therein, and passing vaporized diluent from each zone upwardly through succeeding zones in intimate contact with the oil mixture therein to effect agitation thereof.

2,347,810

PROCESS AND APPARATUS FOR SEPARATING WAX FROM MINERAL OIL SOLUTIONS

David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania

Application February 20, 1941, Serial No. 379,776
14 Claims. (Cl. 196—18)



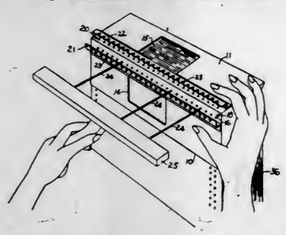
1. In a process for dewaxing mineral oil stock in which a cold mixture of mineral oil and diluent is produced containing wax in the form of substantially distinct separable particles, the improvement in the separation of the wax particles from the mixture which comprises continuously passing a stream of the oil mixture into a relatively large settling chamber provided with a plurality of vertically arranged interconnected settling zones, directing the stream of the oil mixture intermittently and alternately into each of said zones for a predetermined period of time, delivering the stream of oil mixture into each zone in such a manner as to substantially avoid disturbing the oil mixture being settled in other zones in the chamber, collecting the wax settled out in each zone in the lower portion of the chamber, collecting dewaxed oil from each zone in the upper portion of the chamber, and separately removing dewaxed oil and the settled wax from the chamber.

2,347,811

SORTING DEVICE

Roger Connor and Nelson S. Welk, Athens, Ohio, assignors to The McBee Company, Athens, Ohio, a corporation of Ohio

Application March 20, 1943, Serial No. 479,850
15 Claims. (Cl. 129—16.1)



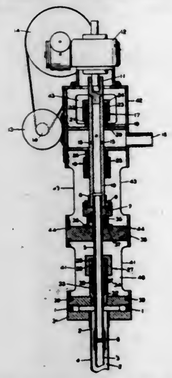
1. A plate for facilitating the sorting of perforated and slotted cards comprising an elongated member having two sides forming substantially a right angle with respect to each other, said sides connected at their ends by a cross piece, and guide means located on each of the said sides adjacent said angle.

2,347,812

DRIVEHEAD

Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application March 15, 1941, Serial No. 383,588
5 Claims. (Cl. 103—244)



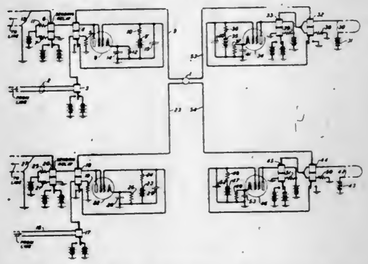
1. In a drive head for use with a deep well lifting device having stationary outer tubing and rotatable inner tubing spaced therefrom to form an annular passage therewith and in which pressure fluid is admitted into the passage for lifting well fluid through the rotatable inner tubing and in which the rotation of the inner tubing controls the passage of the pressure fluid, the combination comprising a housing, a bearing structure within the housing, a tubular member aligned within the bearing structure and rotatably suspended therefrom, the lower portion of the tubular member being adapted to be connected to and communicate with the upper end of the inner tubing, driving means adapted to be connected to a source of motive power for imparting rotary motion to the tubular member, means for fixedly attaching the housing to the upper end of the outer tubing, an inlet passage in the housing for transmitting fluid into the annular passage, a fluid outlet passage in the housing communicating with the tubular member, and sealing devices embracing the tubular member at the junctures of the tubular member and the inlet and outlet passages.

2,347,813

INVERSE NEUTRAL TELEGRAPH REPEATER HUB CIRCUIT

George C. Cummings, deceased, late of Orange, N. J., by Blanche Fry Cummings, executrix, Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 11, 1941, Serial No. 414,580
10 Claims. (Cl. 178—73)



1. In a telegraph system, an inverse neutral telegraph repeater, a branch therein arranged for connection to a plurality of other inverse telegraph repeaters through a common neutral point, a space discharge device in said repeater and means connected to said device for rendering said device conducting or non-conducting in response to telegraph signals transmitted through said repeater.

2,347,814

LUBRICANT

Truman E. De Villiers, Okmulgee, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware

No Drawing. Application November 7, 1942, Serial No. 464,897
14 Claims. (Cl. 252—34)

1. A crank case lubricating oil composition comprising a relatively large proportion of a solvent refined mineral lubricating oil normally tending to deteriorate and corrode the bearings of the crank case under conditions of normal use and a relatively small proportion of an oil-soluble stabilizing agent admixed therewith sufficient to inhibit such deterioration and prevent such corrosion, said agent comprising a tri-trialkanolamine phosphite, said composition being further characterized by a relatively high stability toward deterioration by oxidation under the conditions of normal use in the presence of the metals of the crank case.

2,347,815

CONTACT TERMINAL STRUCTURE

Joseph F. Ebert, Hollis, N. Y., assignor to Allied Control Company, Inc., New York, N. Y., a corporation of New York

Application September 12, 1942, Serial No. 458,175
3 Claims. (Cl. 200—166)



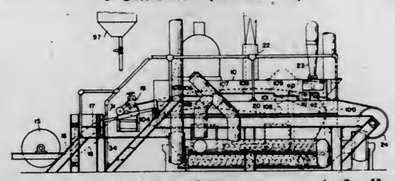
1. A contact terminal structure for electrical apparatus comprising a terminal base, a contact button secured to said base, the contact face of said button being spaced from said base, the opposite face of said button contacting with said base, a lead-in wire soldered to said terminal base, and an undercut at the area of contact sufficient to prevent the raising of liquid from said base by capillary action to said contact face.

2,347,816

CARPET MAKING APPARATUS

Harold P. Faris, Philadelphia, Pa., and John E. White, Trenton, N. J., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware

Application October 28, 1940, Serial No. 363,196
9 Claims. (Cl. 91—8)



1. A machine for making a cemented pile carpet having means for advancing adhesively coated sheet material in a predetermined direction, means above said advancing means for depositing cut fibers onto the adhesive coating of the material as the latter is advanced, and means beneath the advancing means at a series of separate points thereof for successively vibrating at different intensities the adhesively coated sheet material as it is advanced, said vibrating means including a series of spaced rotating beater bars engageable with the underside of the advancing means, the first two bars of the series being octagonal in cross section, the next four succeeding bars of the series being alternately substantially square shape and octagonal in cross section, and the last two bars of the series being square shape in cross section.

2,347,817

PERMANENT MAGNET MATERIAL

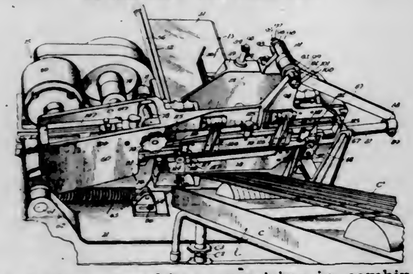
Oscar J. Finch, New York, N. Y., and John H. White, Cranford, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application September 17, 1941, Serial No. 411,156
2 Claims. (Cl. 75—124)

1. A workable alloyed composition adapted to be magnetized to serve as a permanent magnet comprising nickel between 10 and 30 per cent,

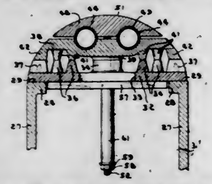
aluminum between 5 and 12 per cent, vanadium between 2 and 10 per cent, cobalt between 5 and 15 per cent and the balance iron.

2,347,818
SLICING MACHINE
Joseph Folk, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois
Application February 10, 1941, Serial No. 378,131
13 Claims. (Cl. 146—137)



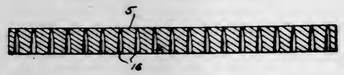
1. A slicing machine comprising in combination a supporting structure having a trough associated therewith for feeding the material to be sliced, an elongated arm extending transversely across the discharge end of the trough and pivotally connected at one end thereof to the supporting structure so that it is capable of oscillating up and down past said discharge end of the trough, a bar type knife extending longitudinally of the arm and carried by the arm so that it is slidable lengthwise, means for oscillating the arm, and means for sliding the knife in one direction during the down stroke of the arm and in the opposite direction during the up stroke of the arm embodying a link extending normally at an acute angle to the knife and having one end thereof pivotally connected to said knife and its other end connected to the supporting structure so as to pivot about a fixed axis that is offset with respect to the pivotal connection between the arm and said supporting structure.

2,347,819
STOKER APPARATUS
Robert A. Foresman, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 26, 1942, Serial No. 456,217
15 Claims. (Cl. 122—4)



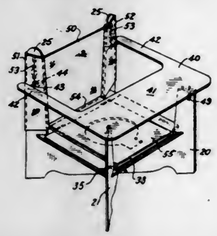
1. A furnace stoker comprising alternately-disposed retorts and tuyère rows, each of said tuyère rows comprising a pair of spaced side walls and a tuyère assembly bridging the space therebetween; said tuyère assembly comprising a plurality of lower tuyère members having openings therethrough for passage of air from the space between the side walls; said members extending from one side wall to the other and being supported thereby; a plurality of upper tuyère members carried by the lower tuyère members; said upper and lower members providing therebetween passages for flow of air laterally from the openings through the lower tuyère members; and a plurality of tuyère cap members overlying said upper tuyère members and providing a smooth upper fuel-supporting surface for each tuyère assembly.

2,347,820
DRY EXPANSION OF WOOD VENEER
Joseph R. Francek, Algonquin, Ill., assignor to Edmund J. Sheehan, Chicago, Ill.
Application December 2, 1940, Serial No. 368,240
6 Claims. (Cl. 144—309)



1. That process of treating thin veneer sheets prior to mounting the same on a wall or the like which comprises perforating the veneer from its rear face to its front face with a series of perforations made simultaneously along lines disposed diagonally to the grain of the veneer sheet whereby the fibers of the veneer are separated and the sheet is thereby expanded transversely of the grain.

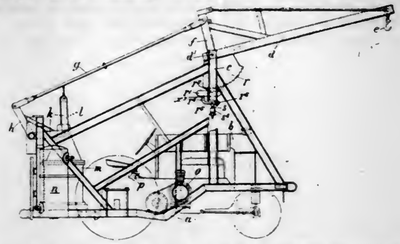
2,347,821
COLLAPSIBLE FURNITURE
Orville C. Goldner, San Mateo, Calif.
Application June 7, 1941, Serial No. 397,010
4 Claims. (Cl. 155—196)



1. A collapsible article of furniture, comprising a plurality of panels disposed on edge and vertically slotted between the vertical side edges thereof with their slotted portions interfitted to provide a substantially rigid X-shaped base, each of said panels having an end edge portion extending vertically above the adjoining upper edge portion of each panel, and a horizontal supporting member rested upon said adjoining edge portions of said panels and having diagonal slots therein interlocked with the vertically extended end edge portion of each panel.

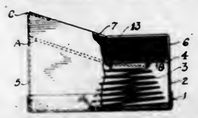
2,347,822
HOIST
Cecil Edgar Goldup, Ashford, England, assignor to Stanhay Limited, Ashford, England
Application April 6, 1943, Serial No. 482,004
In Great Britain March 3, 1942
4 Claims. (Cl. 212—8)

1. A portable hoist comprising a vehicle, a channel iron framework on the chassis thereof comprising two uprights, a jib arm pivoted in said uprights, members extending radially from the pivotal spindle of the jib arm, links connecting said members with levers mounted upon a spindle also carried by the framework on the vehicle and floating links connecting said spindle



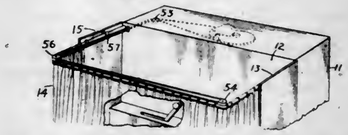
with the piston rod of a fluid pressure actuated piston operating in a cylinder.

2,347,823
DISPENSING CONTAINER FOR SHEET MATERIALS
Leon Goodman and Reinhold Brandwein, Chicago, Ill., assignors to Crystal Tube Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 19, 1941, Serial No. 423,636
3 Claims. (Cl. 312—62)



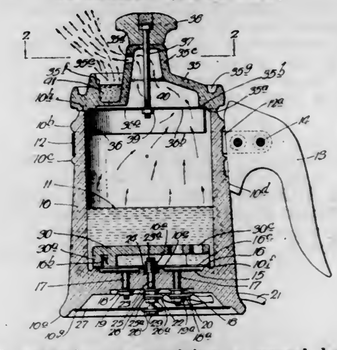
1. An irregularly shaped device for dispensing stacked sheets comprising a container having a rectangular bottom, end walls and side walls having top edges sloping upward at one end of said device, a rigid retaining means covering a part of said top, the end walls of said container having unequal vertical dimensions, an opening in the top for dispensing individual sheets from said container, corner pieces attached to the end wall having the greater vertical dimension and adjacent to said opening and extending over a portion of said opening, and means within said container for resiliently pressing sheets stacked therein against said rigid retaining means and said corner pieces.

2,347,824
VOTING MACHINE
Alvin N. Gustavson, Bemus Point, N. Y., assignor to Automatic Voting Machine Corporation, Jamestown, N. Y., a corporation of Delaware
Application December 19, 1942, Serial No. 469,540
9 Claims. (Cl. 20—3)



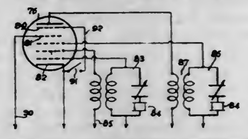
1. In a voting machine having a reciprocable mechanism connected with and adapted to operate a curtain, an actuator operably connected with said mechanism, said actuator being operable to repeatedly reciprocate said mechanism, latch means for securing said actuator against repeated operation when said mechanism has failed to complete a given reciprocation, and means operably connecting said latch means with said mechanism, said latch means being operable, by the completion of said given reciprocation of said mechanism, to release said actuator for further operation.

2,347,825
VAPORIZER
Marshall W. Hanks, Madison, Wis., assignor to Hankscraft Company, Madison, Wis., a corporation of Wisconsin
Application November 1, 1940, Serial No. 363,839
11 Claims. (Cl. 21—119)



1. A vaporizer comprising a vessel having a steam generating chamber, and a cover for said vessel having a receptacle for a medicament open to the atmosphere on its outer side and an orifice opening above said receptacle and adapted to discharge steam over the upper surface of the medicament in said receptacle directly to the atmosphere.

2,347,826
HIGH FREQUENCY SWITCHING MEANS
Donald A. Heisner, Lorain, Ohio, assignor to The Lorain County Radio Corp., Lorain, Ohio, a corporation of Ohio
Application October 21, 1941, Serial No. 415,927
3 Claims. (Cl. 250—36)



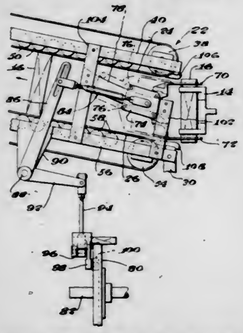
1. An oscillation generator comprising a tube containing a plurality of electrodes including a cathode, anode, control grid and a secondary emission suppression grid, an equipotential conductor connected directly between the suppressor grid and cathode, feed-back circuits connected between the cathode, anode and control grid; and a circuit-opening means in the suppressor grid circuit for determining whether or not oscillations will be generated within the tube.

2,347,827
LINEAR POLYMERIC ISOTHIOUREA AND SALTS THEREOF
Madison Hunt, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 31, 1942, Serial No. 437,091
15 Claims. (Cl. 260—2)

1. A linear polymeric isothiourea wherein the isothiourea groups are joined through the sulfur and one of the nitrogens of the isothiourea group by members of the class consisting of bivalent hydrocarbon radicals and bivalent ether interrupted hydrocarbon radicals, alternate members of said class being joined at both ends to sulfur

atoms of isothiourea groups and the remaining members of said class being joined at both ends to nitrogen atoms of isothiourea groups the intralinear nitrogen atom of the isothiourea groups being attached to said radical through carbon free from aliphatic unsaturation and the sulfur atom of the isothiourea groups being attached to said radical through only single bonded carbon, the valences of the nitrogens of the isothiourea groups which are not satisfied by intralinear atoms of the polymer being satisfied by members of the class consisting of hydrogen and alkyl groups of from one to six carbon atoms.

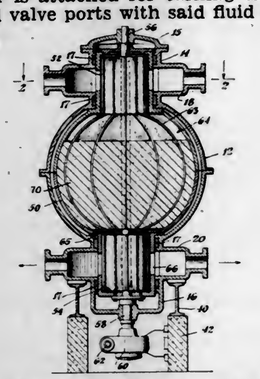
2,347,828
CONVEYING APPARATUS
William A. Joplin, Wollaston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application July 24, 1940, Serial No. 347,171
5 Claims. (Cl. 198—24)



1. The combination with a rotary packaging machine provided with a carton holding member having provision for operatively supporting a carton in a vertical position, of an elongated conveyer comprising a pair of spaced, superposed carton engaging belts having their adjacent runs parallel, said conveyer being angularly disposed with respect to said vertical carton to convey said carton to a different elevation, the entrance ends of said belts being disposed adjacent to but spaced from said carton holding member; and means operatively arranged relative to said belts and carton holding member for transferring said carton from said carton holding member to a position between said belts with said carton inclined so that the ends of said carton are disposed substantially parallel with said adjacent runs of said belts, said transfer means including carton engaging means and means for moving said carton engaging means in a curved path between said carton holding member and said belts.

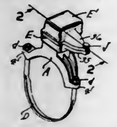
2,347,829
ROTARY REACTOR
Per Hilmer Karlsson and William D. Yerrick, Wellsville, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.
Application July 4, 1942, Serial No. 449,760
5 Claims. (Cl. 23—288)

1. In chemical reaction apparatus adapted to contain chemically reactant material for contact by fluid; a closed, hollow rotor divided by radial partitions into a plurality of compartments; a pair of valve ports for each compartment formed in the side wall of the rotor and spaced axially thereof; a stationary housing surrounding said rotor; a plurality of fluid supply and fluid discharge connections at opposite ends of said housing; means including a shaft to which said rotor is attached for turning the latter to aline said valve ports with said fluid supply and



discharge connections in succession; and radial walls intermediate said connections extending from the inner wall surface of said housing to positions closely adjacent said rotor to form a plurality of fluid supply chambers in said housing.

2,347,830
FLOW INDICATOR
John Kiburz and Jack Y. Kiburz, University City, Mo., assignors to John Kiburz Pattern Company, St. Louis, Mo., a corporation of Missouri
Application January 10, 1942, Serial No. 426,326
7 Claims. (Cl. 73—228)

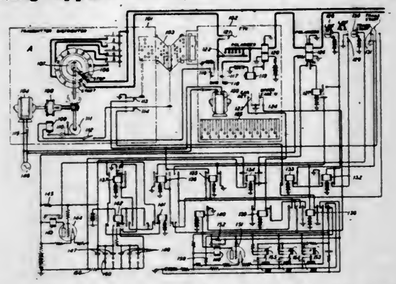


1. A flow indicator comprising a saddle for pipe-engagement, the saddle having an apertured wall for communication with the pipe-interior, a bridge-member fixed to, and including a wall spanning the aperture in, the saddle, the bridge-wall having an aperture in registration with the aperture of the saddle-wall, and a vane-assembly including a bellows fixed upon and upstanding from the saddle-wall, the bellows at its base surrounding the saddle-wall aperture, a shaft lengthwise loosely extending through said registering apertures, a vane fixed to the shaft for disposition within the pipe-interior, and a rigid plate fixed to the shaft and to the upper end of the bellows for loosely supporting the shaft, the plate having a mechanical pivot connection with the bridge-wall for vane-assembly oscillation responsive to fluid flow in the pipe.

2,347,831
COMMUNICATION SYSTEM
Fullerton S. Kinkead, New York, and Joseph A. Krecek, New Rochelle, N. Y., and William R. Young, Jr., Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 28, 1941, Serial No. 408,605
45 Claims. (Cl. 178—3)

1. In a telegraph system including a plurality of geographically separated stations, a single two-way transmission path extending between

said stations, an automatic telegraph transmission apparatus controlled by stored signals located at each of said stations, a receiving apparatus also located at each of said stations, apparatus for normally preventing the operation of said transmitting apparatus at each of said stations, apparatus for conditioning said transmitting apparatus for transmission of signals,



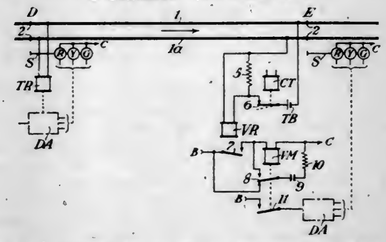
and time delay apparatus at each of said stations having a different period of delay at each station, a signal responsive apparatus for initiating the operation of said time delay apparatus, and an operating connection between said time delay apparatus and said transmitting apparatus for starting transmission from said conditioned transmitters.

2,347,832
WINDPROOF MATCH AND ITS APPLICATION TO CIGARETTES AND THE LIKE
Louis M. Klein, New York, N. Y.
Application August 11, 1941, Serial No. 406,332
3 Claims. (Cl. 44—42)



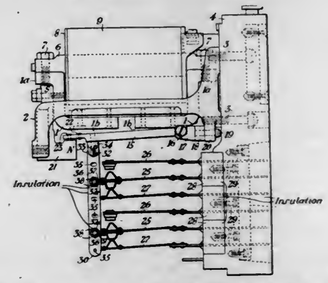
1. A match for insertion in the end of an article to be ignited, comprising a holder of inflammable material for insertion in the end of said article, a member of friction igniting material, and projections on said member and extending through said holder for igniting said holder and article when said member is ignited by being rubbed against a stationary surface, said holder being conical in shape and having its pointed end directed away from said member.

2,347,833
RAILWAY TRAFFIC CONTROLLING APPARATUS
Robert M. Laurenson, Elkhart, Ind., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 5, 1942, Serial No. 457,443
3 Claims. (Cl. 246—34)



1. In combination with a control relay that may be picked up and released alternately for variable lengths of time, a condenser, a second relay, a source of current, a normally closed charging circuit for said condenser including said source of current and a back contact of said second relay, an energizing circuit for said second relay including in series a front contact of said control relay and a winding of said second relay and said source of current, and a discharge circuit for said condenser comprising a front contact and the said winding of said second relay.

2,347,834
ELECTRICAL SWITCH
John W. Livingston, Milwaukee, Wis., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 11, 1942, Serial No. 465,218
5 Claims. (Cl. 200—1)



1. In a switching device comprising a plurality of contacts arranged side by side in pairs and each comprising cooperating fixed and movable flexible contact fingers, an insulating operating member movable between two positions, means for moving said member, and means for operatively connecting said member with said movable fingers comprising an opening provided in said member for each pair of contacts, a pin extending through each opening, bifurcations provided on the free end of each movable finger, and an insulating thimble disposed on each end of each pin and fitting in the bifurcations on one of said movable fingers.

2,347,835
BOTTLE STOPPER
Axel Moeller, Racine, Wis.
Application January 23, 1942, Serial No. 427,873
2 Claims. (Cl. 215—53)

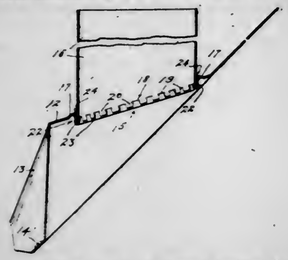


1. As a new article of manufacture, a combined nut and pivot for expansible bottle stoppers comprising an elongated internally threaded sheet metal sleeve and laterally extending pivot pintles formed on one end of the sleeve arranged at right angles to the opposite sides thereof.

2,347,836
ROOF FLASHING AND JACKET
Francis J. Moore, Minneapolis, Minn.
Application October 19, 1942, Serial No. 462,647
4 Claims. (Cl. 285—31)

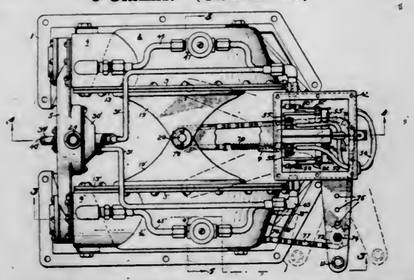
1. The combination with a roof flashing and a vent pipe jacket, of a joint connecting said flashing and jacket, said flashing having an aper-

ture and a channel surrounding the aperture and into which channel the lower end portion of the jacket is inserted, and solder rigidly securing the jacket in the channel, the inner side of the chan-



nel being serrated, said channel being formed by bending a portion of the flashing surrounding the aperture downwardly and then folding the same upon itself.

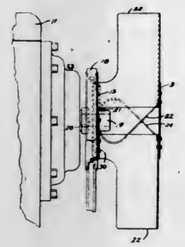
2,347,837
SERVOMOTOR
Jess S. Morrison, Southgate, Calif., assignor to Leo M. Harvey, La Canada, Calif.
Application December 31, 1940, Serial No. 372,447
5 Claims. (Cl. 121—48)



1. In a servo-motor having a pair of opposed bellows, mechanical means interposed between said bellows and movable thereby, and a source of vacuum, a normally closed diaphragm actuated valve associated with each bellows and operative when said diaphragm is opened to atmosphere to connect said source to said bellows, a duct connected to each of said diaphragms, a second duct connected to each bellows, and a pair of electro-pneumatic relays for energizing said servo-motor, each relay comprising an electromagnet, an armature for said magnet, a pair of valves carried by said armature, and means for normally closing said valves to block the ducts connecting respectively to one of said diaphragms and the opposed bellows from the atmosphere, whereby when neither of said relays is excited both of said bellows are completely sealed to lock said mechanical means in whatever position it may have been moved to.

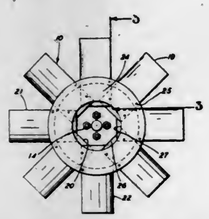
2,347,838
AIR IMPELLER
William A. Norris, Alhambra, Calif.
Application November 25, 1941 Serial No. 420,361
2 Claims. (Cl. 170—171)

1. An air impeller comprising a disc member having a hub thereon, said hub having an aperture adapted to receive a shaft, a plurality of impeller blades mounted on said disc member, each of said blades including a body portion which forms a vane, each of said body portions having a projection thereon, the projections being secured to the disc member, and an annular member arranged upon the body portions of the blades and



secured to the edge portions thereof, the center of said annular member being open to provide a path for the column of air being moved by the vane members.

2,347,839
IMPELLER
William A. Norris, Alhambra, Calif.
Application October 4, 1943, Serial No. 504,832
4 Claims. (Cl. 170—159)

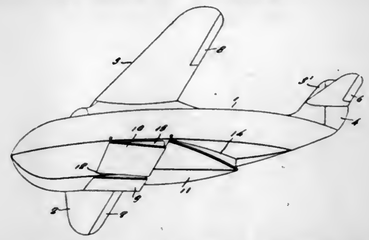


1. An air impeller comprising a disc member adapted to be secured to a shaft, a plurality of impeller blades mounted on said disc member, each of said blades including a body portion which forms a vane, each of said body portions having a projection thereon, the projections being secured to the disc member, and an annular member arranged upon the body portions of the blades and secured to the edge portions thereof, the center portion of said annular member being open to provide a path for the column of air being moved by the vane members, the outer diameter of the annular member being greater than the diameter of said disc.

2,347,840
CONDENSATION OF NITRO COMPOUNDS WITH POLYSULPHIDES AND PRODUCT THEREOF
Edwin M. Nygaard, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application September 23, 1942, Serial No. 459,445
20 Claims. (Cl. 260—79)

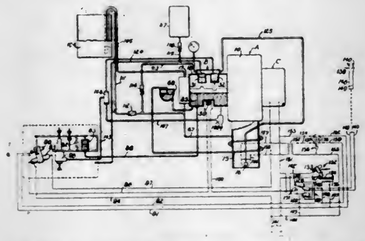
1. A composition of matter prepared by reacting an alkaline polysulphide with a substituted paraffin hydrocarbon having a nitro group and one other radical reactive with alkaline polysulphides on the same carbon atom.

2,347,841
SEAPLANE
James F. Parker, Guantanamo Bay, Cuba
Application May 14, 1941, Serial No. 393,436
5 Claims. (Cl. 244—106)



1. In a seaplane including a hull, a pair of right and left wings, a pair of right and left ailerons on said wings, and an aileron control, a pair of right and left steps at the bottom of the hull arranged upon opposite sides of the keel line, respectively, side by side beneath said wings and pivotally mounted for vertical swinging movement into different downwardly and rearwardly inclined positions, means to operate said steps comprising a fluid pressure circuit including a constantly operating pump, control valves in said circuit for said steps, respectively, means to operate said valves simultaneously through operation of the aileron control in conjunction with operation of the ailerons, and means to disable said last means as regards operation thereby of a selected valve and for subsequently operating the selected valve independently.

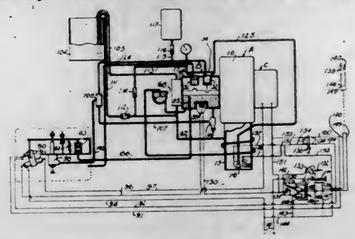
2,347,842
OIL BURNER AND SYSTEM
Charles L. Rayfield, Chicago, Ill., assignor, by mesne assignments, to C. L. Rayfield Company, Chicago, Ill., a corporation of Illinois
Application September 27, 1939, Serial No. 296,718
10 Claims. (Cl. 158—36.3)



1. In an oil burner construction in which mixed air and oil are supplied to a fuel nozzle, an air supply, an oil supply, pumping means for pumping air and oil from said supplies and delivering mixed air and oil to said nozzle, means for preheating the oil, and means responsive to the temperature of the pre-heated oil for controlling the amount of air supplied to the pumping means.

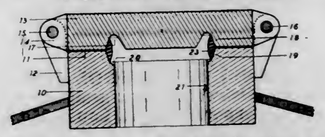
2,347,843
OIL BURNER AND SYSTEM
Charles L. Rayfield, Chicago, Ill., assignor to C. L. Rayfield Company, Chicago, Ill., a corporation of Illinois
Original application September 27, 1939, Serial No. 296,718. Divided and this application November 10, 1941, Serial No. 418,531
3 Claims. (Cl. 158—36.3)

1. In an oil burner having a nozzle, a conduit to said nozzle, means for mixing air and oil and delivering the mixture under pressure through said conduit, driving means for said first means, and a thermally actuated mechanism responsive to the temperature of space to be heated by said burner for starting and stopping said driving means, the improvements comprising means driven by said driving means for compressing



air, a storage tank, a conduit for receiving compressed air from said means during operation of said driving means and conducting the same to said tank, said last named conduit connecting with said first named conduit, and valve means for releasing said compressed air from said tank when said driving means is out of operation to flush said first conduit and said nozzle.

2,347,844
MANHOLE STRUCTURE
William A. Sandberg, Los Angeles, Calif.
Application December 15, 1941, Serial No. 423,013
3 Claims. (Cl. 220—46)

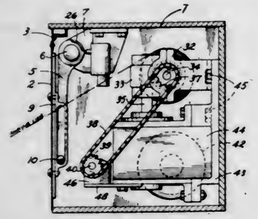


1. In a manhole structure having a metallic neck projecting through the wall of a tank, a cover plate adapted to be rigidly retained in substantial contact with the end of said neck, a tapered face formed within the outer end of said neck and a corresponding, inward-looking tapered face formed on the lowed side of said cover plate, said faces forming opposite, acute angles with the axis of said neck: sealing means consisting of a thin gasket of resilient, fluid-tight material resting loosely in the shallow recess formed by the juncture of said oppositely inclined tapered faces and adapted to be compressed solely by fluid pressure acting from within said tank, said gasket having two substantially straight faces abutting said tapered faces and meeting at an obtuse angle and a free face in the form of a relatively flat circular arc, said free face being convex and the intersection of said arc with said abutting faces forming feather edges on said gasket.

2,347,845
ELECTRICALLY OPERATED AWNING
Edward H. Schane, Lakewood, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 8, 1941, Serial No. 422,069
8 Claims. (Cl. 160—22)

1. In combination with a closure for an awning recess and an awning disposed on a roller in said recess and adapted to be unrolled and rolled up in said recess on said roller, means for rotating said roller including a reversible motor, a motor

circuit connecting said motor to a source of current, means for raising and lowering said closure and control means operated by the closure



including a circuit breaker in said roller motor circuit to hold the motor circuit open until the closure is moved to a predetermined position.

2,347,846

ANTHRAQUINONES CONTAINING TRIFLUOROMETHYL GROUPS AND A PROCESS OF PREPARING THEM

Otto Scherer, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. **Application February 6, 1941, Serial No. 377,669. In Germany February 14, 1940**

6 Claims. (Cl. 260—384)

1. Products selected from the class consisting of 2-trifluoro methyl-anthraquinone and its chlorine substitution products.

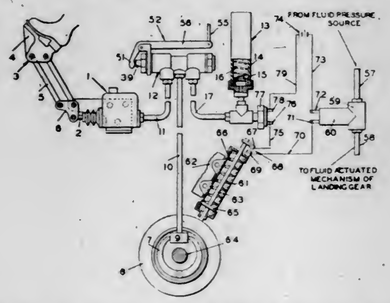
2,347,847

FLUID PRESSURE CONTROL SYSTEM

Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application January 14, 1942, Serial No. 426,698

16 Claims. (Cl. 244—102)



6. In a control means for airplanes having wheels mounted on a retractile landing gear, a wheel brake, operator-controlled means for applying the brake, means for maintaining the brake applied without operator effort, a control member for the retracting means of the landing gear, means operable when the airplane is in flight and the brake is applied and maintained applied for so controlling said control member that the landing gear will be retracted, means for so controlling the last named means that the control member will permit release of the landing gear to landing position when the maintaining means releases the brake, and means for releasing the maintaining means.

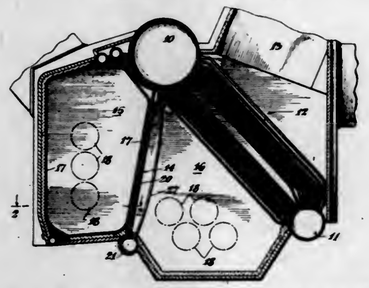
2,347,848

SEPARATELY FIRED SUPERHEATER

David M. Schoenfeld, New York, N. Y., assignor to Combustion Engineering Company, Inc., New York, N. Y.

Application October 21, 1939, Serial No. 300,543

7 Claims. (Cl. 122—473)



1. In a boiler having upper and lower drums interconnected by a bank of generating tubes, and means including front and rear walls defining a furnace space at one side of said bank; a wall dividing said space into a superheater furnace chamber and a boiler furnace chamber including generating tubes disposed in a substantially vertical row extending across said space and so arranged as to preclude gas flow thereover with the ends of said row spaced from said walls to provide passages adjacent both walls for the flow of gases from said superheater chamber to the other; a superheater in said superheater chamber having tubes arranged adjacent to said row of generating tubes and located between the ends thereof; fuel feeding means for said boiler furnace chamber located in the front wall thereof; and other fuel feeding means positioned to introduce fuel into the front portion of said superheater furnace chamber.

2,347,849

STARCH MODIFICATION

Joseph K. H. Seiberlich, Medfield, Mass.

No Drawing. **Application November 4, 1940, Serial No. 364,241**

2 Claims. (Cl. 127—33)

1. In the manufacture of starch products, the steps comprising treating raw starch in suspension in an aqueous solution of sodium hypochlorite with a chlorine content of 0.1 of one percent or less by weight of the suspension at a temperature below the gelatinization temperature of the starch for a period of time such as to obtain maximum swelling of the starch vesicles without substantial oxidation or disintegration thereof, maintaining the pH value of the suspension between 7 and 8.5 during said treatment, washing the thus treated starch, and thereafter heating a suspension of the thus treated starch to a temperature above its gelatinization temperature to form a glass clear liquid.

2,347,850

PAPER MACHINERY

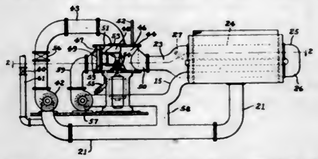
Stephen A. Staege, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio

Application May 25, 1940, Serial No. 337,230

2 Claims. (Cl. 92—38)

1. In a paper making apparatus, an enclosing screen casing, an annular screen within said casing and spaced from the walls of the casing,

means for supplying pulp to the inside of the screen under pressure to submerge the screen and fill said casing leaving no liquid-air surface therein, the space between the screen and the casing defining an annular discharge chamber for stock flowing through the screen, said casing having an outlet opening at one side thereof and a supply opening at the other side thereof and in direct communication with the discharge



chamber but remote from the outlet opening, a forming wire, a closed supply passage leading from the outlet opening of the casing to the forming wire, a receiver for water flowing through the wire, means for returning water from said receiver to the inside of the screen, and means for supplying some of the water from the receiver to the supply opening of the casing to flow around the screen and mix with the screened pulp.

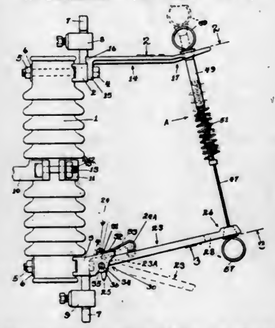
2,347,851

FUSE DEVICE

Alwin G. Steinmayer, Milwaukee, and William O. Schultz, South Milwaukee, Wis., assignors to Line Material Company, Milwaukee, Wis., a corporation of Delaware

Application July 20, 1940, Serial No. 346,572

2 Claims. (Cl. 200—114)



2. A fuse cutout comprising: a first fixed terminal, a second fixed terminal spaced from said first terminal, said first terminal including means for detachably anchoring and effecting electrical contact with one terminal of the hereinafter-recited fuse-link, a rigid elongate arm pivotally connected at one end only to said second terminal, said arm having a free end remote from said second terminal and including means for detachably anchoring and effecting electrical contact with the other terminal of said fuse-link, said second terminal including positive stop means for definitely limiting the movement of said arm about its pivotal center toward said first terminal, said stop means being operative to establish a firm electrical contact between said second terminal and said arm, a second positive stop means for definitely limiting the movement of said arm about its pivotal center away from said first terminal, said second stop means being operative to hold said arm in a position wherein a fuse-link can conveniently be attached to its free end when re-fusing the cutout, and a fuse-link interconnecting and supported by said first terminal and the free end of said arm, conjointly, said fuse-link including a fusible section and a tension spring, the latter being normally operative to hold said arm in contact with said first-mentioned stop while at the same time applying a predetermined tension to said fusible section.

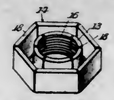
2,347,852

SELF-LOCKING NUT

Arthur H. Thompson, Chicago, Ill., assignor to Thompson-Bremer & Co., Chicago, Ill., a corporation of Illinois

Application August 12, 1942, Serial No. 454,525

5 Claims. (Cl. 151—14)



1. As a new article of manufacture, a one-piece self-locking nut adapted to be mounted on an externally threaded element projecting through a work piece, formed of comparatively thin stamped spring metal, and comprising a body adapted to engage the work piece and having an aperture in the central portion thereof, a sleeve having an internal screwthread extending from one end thereof to the other, joined to, and extending in one direction from, the aperture defining portion of the body, adapted when the nut is mounted on the externally threaded element to surround and interfit with the thread of said element and extend away from the work piece, having longitudinal laterally spaced notches extending inwards from its outer or free end and terminating adjacent its central part, and also having the portions thereof between such notches bent inwards so that they grip the element with spring pressure, and a flange structure connected to the outer marginal portion of the body, extending in the same direction as the sleeve, and forming a side wall around and in spaced relation with the sleeve.

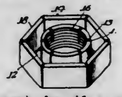
2,347,853

MANUFACTURE OF SELF-LOCKING NUTS

Arthur H. Thompson, Chicago, Ill., assignor to Thompson-Bremer & Co., Chicago, Ill., a corporation of Illinois

Original application August 12, 1942, Serial No. 454,525. Divided and this application April 14, 1943, Serial No. 482,951

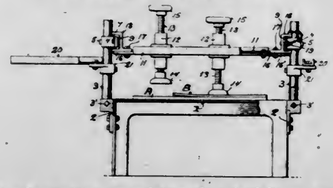
1 Claim. (Cl. 10—86)



That improvement in the manufacture of a self-locking nut which comprises first stamping from comparatively thin spring metal stock a flat blank consisting of an intermediate body forming portion, an inner centrally apertured sleeve forming portion with notches leading radially outwards from the aperture and terminating adjacent the midpoint of said inner portion, and an outer flange forming portion, then deforming the blank by extruding the inner portion thereof in one direction to form a central substantially cylindrical sleeve of greater height than the length of the notches and upsetting the outer portion in the same direction to form a substantially continuous flange structure

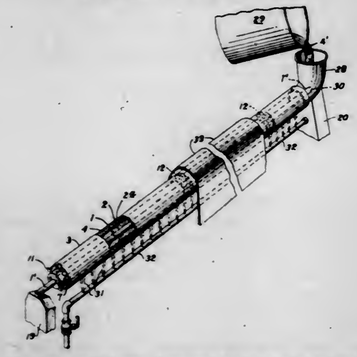
around and in spaced relation with the sleeve, then tapping the inner periphery of the sleeve from end to end to form an internal screw thread for interfitting with an externally threaded element, and finally completing the nut by bending inwards the portions of the outer or free end of the sleeve that are between the notches in order to cause them to grip with inward pressure the externally threaded element when the sleeve is mounted thereon.

2,347,854
UNIVERSALLY ADJUSTABLE CLAMPING MACHINE
Leonard Tyson, Manitowoc, Wis.
Application April 5, 1943, Serial No. 481,872
2 Claims. (Cl. 29—89)



1. A clamping machine for holding super-imposed plates adapted to be welded, the same comprising a work table, corner posts associated therewith, each having a series of locking apertures, companion pairs of longitudinally apertured track-bars, a slidable pair of collars mounted on each pair of posts, tongues connecting the collars and ends of each track-bar, locking pins engaging the collars and posts, whereby the position of said track-bars are adjusted with relation to the table, slidable couplings mounted upon the aforesaid track-bars, a rail secured to the couplings and jacks in slidable connection with the rails.

2,347,855
METHOD AND MEANS FOR PROTECTING PIPE
Stephen Varga, East Palo Alto, Calif., assignor, by mesne assignments, to Albert A. Durant, Honolulu, Territory of Hawaii
Application May 10, 1940, Serial No. 334,385
4 Claims. (Cl. 154—28)



1. An assemblage for making a protected pipe comprising an outer imperforate tubular shell of sheet material, a pipe with a layer of heat insulating material surrounding it spaced within said tubular shell and a sheet metal collar embracing said heat insulating material and having radially projecting spaced spider arms engaging said shell holding said pipe and insulating material concentrically spaced within said shell, and means closing one end only of said shell with said pipe and insulating material extending beyond the closing means, the opposite end of the space within said imperforate shell being open to receive a liquid cementitious material.

2,347,856
HONE
Herbert E. Wachter, Kirkwood, Mo., assignor to Katherine E. Wachter, Kirkwood, Mo.
Application March 17, 1943, Serial No. 479,407
1 Claim. (Cl. 51—186)

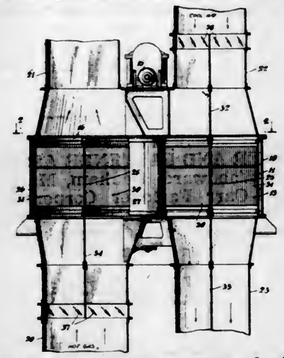


A hone comprising a one-piece circular stick forming a core, an integral end portion of the stick being formed as a handle and the remainder as an elongate conical support, and an abrasive-covered sheet which itself is conically formed and adhesively attached to said conical support, and having a bias arrangement with a butt joint between its edges, said joint being arranged as a helix of sharp helix angle with respect to the axis of the stick such that from and to end of the stick less than 360° of the circular arc of the stick is occupied by the wrapping form of said joint.

2,347,857
TEMPERATURE ZONED AIR PREHEATER
Joseph Waitkus, Wellsville, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.
Application October 15, 1941, Serial No. 415,047
3 Claims. (Cl. 257—6)

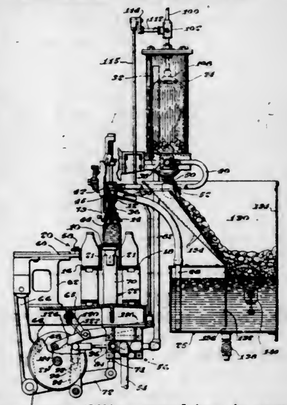
1. In regenerative heat exchange apparatus having passages for a heating gas and air or other gaseous fluid to be heated, ducts for supplying hot gas and relatively cool air to and for withdrawing the cooled gas and heated air from said passages, and a rotor divided by radial diaphragms into a plurality of compartments containing regenerative material adapted to be moved first through the gas passage and then into the air passage; a partition located intermediate the outer wall and the center of said rotor for dividing said compartments into inner and outer sections; baffle means disposed in the gas and air inlet ducts in alinement with said partition for sub-dividing the fluid currents therein into separate streams and directing the latter to the inner and outer sections of the rotor compartments; similar baffle means in the air outlet

duct alined with said partition for maintaining separation of the air streams flowing from the rotor; and damper means in said air duct for en-



abling variations in the amount of air flowing through each sub-division thereof to the inner and outer sections of the rotor compartments.

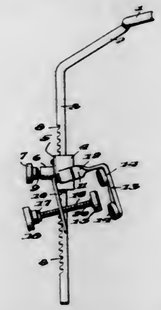
2,347,858
RECEPTACLE FILLING MACHINE
Walter H. Weeden, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application June 14, 1940, Serial No. 340,487
9 Claims. (Cl. 226—116)



3. In a vacuum filling machine, in combination, container supporting means, a liquid supply, a filling head adapted to fill a container by creating a vacuum therein, an overflow chamber adapted to receive the air and excess liquid from the container, vacuum creating means, means for alternately subjecting the chamber first to vacuum and then to atmospheric pressure, means for draining said chamber and means for releasing a stream of liquid into said chamber during the time when the chamber is under atmospheric pressure.

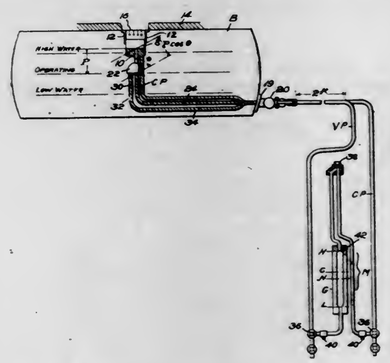
2,347,859
ADJUSTABLE HEADREST
Louise N. Williams, Raleigh, N. C.
Application December 3, 1940, Serial No. 368,283
2 Claims. (Cl. 155—177)

1. An adjustable head-rest including a horizontal supporting bar, bifurcated legs bent downwardly from each end of said bar, fixed contact cushions attached to one portion of each bifurcated leg, an adjustable contact cushion swiveled to a stem screw-threaded to the other portion of each bifurcated leg, a block affixed to the approximate center of the said supporting bar, a rack-bar slidably received in said block, a spring-



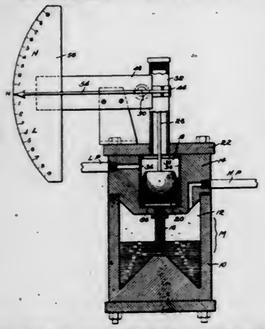
pressed pawl mounted in said block and adapted to engage the said rack-bar, a forwardly bent portion on the upper end of said rack-bar, and an arcuate tube forming a head-rest attached at its approximate center to the outer end of said bent portion of the rack-bar.

2,347,860
LIQUID LEVEL INDICATING SYSTEM
Lewis B. Winton, Greenwich, Conn., assignor to Philip A. Jerguson, Medford, Mass.
Application September 30, 1942, Serial No. 460,216
7 Claims. (Cl. 73—299)



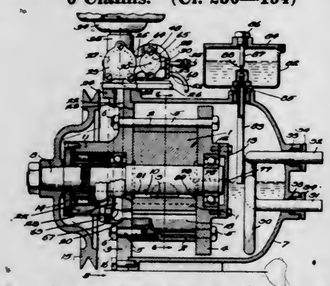
1. In a water level indicating system for containers, a cup within the container arranged to be replenished with liquid and having an overflow conduit leading from a point above normal liquid levels in the container to below normal water levels of the container, said conduit itself having an overflow port at an elevation between normal high and low levels, a differential manometer, one side of which is in communication with the cup and the other side of which has connections to said overflow conduit and also to the water-containing spaces of the container, at a point at least as low as the normal low level thereof, and valve means for controlling said latter connections to provide for alternative use thereof.

2,347,861
MEASURING SYSTEM, INCLUDING A HYDROSTATIC MANOMETER AND AN INDICATION TRANSLATING MECHANISM
Lewis B. Winton, Greenwich, Conn., assignor to Philip A. Jerguson, Medford, Mass.
Application October 5, 1942, Serial No. 460,783
20 Claims. (Cl. 73—31)



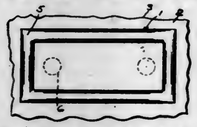
9. A float gage comprising a chamber for a liquid column and having an upward tubular extension of relatively small cross section, a float resting freely on the column comprising a partly spherical body having an upward projection into said extension and an armature at the end of the projection, means external to the extension free from mechanical connection or engagement with the armature but influenced by the traverse of said armature relative thereto to manifest the height of the column, the center of mass of the float being at the spherical center and the float being immersed substantially to an equatorial plane of the sphere.

2,347,862
COMPRESSOR
William W. Wishart, Chicago, Ill.
Application June 8, 1940, Serial No. 339,478
6 Claims. (Cl. 230—154)



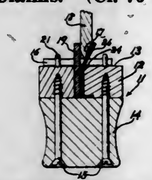
1. A rotary compressor including a driving shaft, a rotor mounted thereon, a cylindrical stator surrounding the rotor, an end plate having a bearing and a seal through which the shaft passes, a second smaller end plate provided with a bearing to receive one end of the shaft, an air-tight casing secured to the first end plate surrounding in spaced apart relation the stator and smaller end plate, means for assembling the rotor and stator between the end plates passing through the first end plate to engage the second end plate, said means also supporting the stator, and means upon the first end plate cooperating with similar means upon the second end plate for adjusting the relation of the stator to the rotor without removing the air-tight casing wherein the said assembly means includes bolts passing through both end plates, some of said bolts supporting the stator thereon; nuts threaded upon the ends of the bolts upon the exterior of the first end plate, and wherein the adjusting means includes the provision of sufficient clearance about the bolts in the end plates to accomplish the adjustment.

2,347,863
FASTENER AND FASTENER ASSEMBLY
Clement A. Woodward, Dedham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 30, 1941, Serial No. 391,107
3 Claims. (Cl. 24—73)



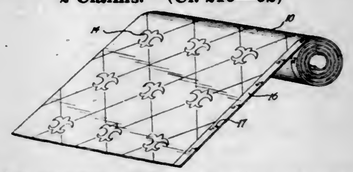
1. A fastener member adapted to be slipped upon and retained in gripping engagement with a stud part extending from a supported part to secure said supported part to a supporting panel, said fastener having a base bowed in one direction, stud-engaging means in the form of a hollow projection extending from said base, said hollow projection having an inner stud-engaging wall formed with an inwardly extending stud-gripping portion at the forward end thereof and defining a stud-receiving opening normally of less diameter than the diameter of the stud and said projection being slotted axially to the base dividing said projection into a plurality of transversely yieldable arcuate segments integrally joined to said base, said base being continuous in all directions surrounding said slot, said segments being yieldable at their junction with the base in a direction normal to the direction of curvature of said base, said bowed base being adapted to cooperate with said panel in tightened-down position to exert an axial tension on said stud through said segments to draw said supported part tightly against said panel.

2,347,864
LAWN MOWER BLADE SHARPENER
Frank D. Wulff, Chicago, Ill.
Application June 26, 1943, Serial No. 492,359
5 Claims. (Cl. 76—82.1)



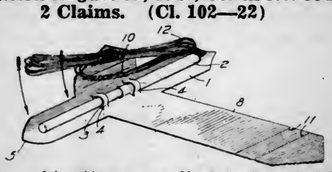
1. A lawn mower blade sharpener comprising a supporting member having a substantially flat side and a pair of files spaced apart on said side to act on the edge of the blade, a file mounted between said pair and projecting beyond them from said side to act on the side of the blade, means for mounting said files adjustably and replaceably on said member to bring different parts of said files into action, a guide plate projecting from said member adjacent said projecting file and cooperating therewith in guiding the sharpener along the blade, and means on said member for operating it by hand.

2,347,865
PROCESS OF HANGING PREPASTED WALLPAPER
William H. Yates, Chicago, and Le Roy W. Staunton, Evanston, Ill., assignors to Trimz Company Inc., Chicago, Ill., a corporation of Delaware
Application April 2, 1943, Serial No. 481,574
2 Claims. (Cl. 216—62)



1. The process of hanging a strip of prepasted paper, which comprises rolling said strip with the end which is to be first applied in at the core of the roll so formed, said rolling operation being characterized in that the prepasted surface is rolled inside, next, submerging the roll so formed in water and unrolling and rerolling the same while it is so submerged, said rerolling operation being characterized in that the prepasted surface is rolled inside and, while the paste is wet, applying the free end of said strip to the starting edge of the surface to be covered and thereafter advancing said roll over said surface and applying pressure to a portion of said paper which is removed from said roll, and causing successive portions of said paper strip to adhere to said surface during the roll advancing operation, and continuing said advancing and applying operations until the entire strip is applied to said surface.

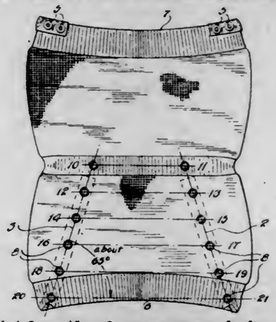
2,347,866
DETONATOR COMBINATION
Guy B. Young, Latrobe, Pa., assignor to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware
Application August 31, 1940, Serial No. 354,948
2 Claims. (Cl. 102—22)



1. In combination, a cylindrical cartridge, a blasting cap holder having an elongated shield of an area sufficient to cover the cap, but insufficient to cover the entire cartridge, said shield being provided with a longitudinal groove, a blasting cap in said groove, means securing the cap in said groove, and means for securing the cap and its holder to the outside of the cartridge.

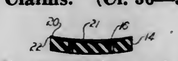
2,347,867
DIAPER
Laurabel W. Alban, Pontiac, Mich.
Application November 16, 1940, Serial No. 365,883
2 Claims. (Cl. 128—284)

1. In combination with a diaper, two fastener members spaced laterally of the diaper a predetermined distance, two spaced rows of fastener members, the fastener members in one row being arranged to selectively cooperate with one of the above two fastener members and the fastener members in the other row being arranged to selectively cooperate with the other of the above two fastener members, said rows extending generally lengthwise of the diaper, each fastener member in the one row being laterally spaced from a correspondingly positioned fastener member in the other row and also positioned lengthwise of the diaper from its respective cooperating fastener member of the said two fastener members, the sum of the distance between the said first mentioned two fastener members and the distance between any selected two corresponding fastener members in the said rows being equal



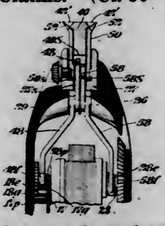
to the waist length of an average baby at a given age and the longitudinal distance between each of said first mentioned two fastener members and its respective cooperating fastener member of said selected two corresponding fastener members being equal to the distance between the umbilicus through the crotch to the fourth lumbar vertebra of the said average baby at the same given age.

2,347,868
HEEL CONSTRUCTION
Raymond P. Allen, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 2, 1941, Serial No. 413,281
3 Claims. (Cl. 36—35)



1. A heel lift comprising a body of resilient rubber-like material, a plate of sheet metal smaller in area than the attaching face of the lift and secured to said body centrally thereof, and a layer of particles of fibrous material adhered to the attaching face of the lift at least upon the marginal portions adjacent said plate of sheet metal.

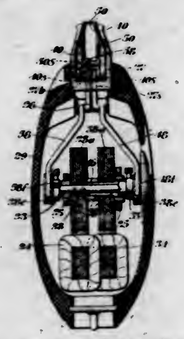
2,347,869
ELECTRIC DRY SHAVER
Leon H. Amdur, Brooklyn, N. Y.
Application August 9, 1940, Serial No. 352,038
25 Claims. (Cl. 30—43)



1. In a dry shaver adapted to be drawn longitudinally across the face, the combination of a face contacting member movable in a transverse direction and provided with a plurality of spaced elements separated by hair openings, the edges of the elements being formed as cutting edges, and a sheathed member provided with a plurality of cutting elements separated by hair

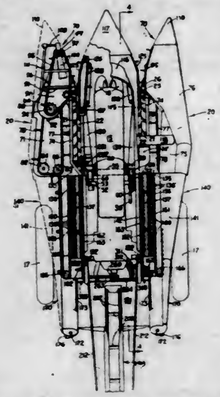
spaces and likewise movable in a transverse direction, said sheathed member having a higher cyclic rate of speed than the said face contacting member so that the said sheathed member moves relatively to the face contacting member to effect a shearing operation between the cutting elements of the sheathed member and the cutting edges of the said plurality of elements of the face contacting member.

2,347,870
ELECTRIC DRY SHAVER
Leon H. Amdur, Brooklyn, N. Y.
Application May 14, 1941, Serial No. 393,334
13 Claims. (Cl. 30—43)



1. In a dry shaver of the type which has a movable face contacting member and a movable sheathed member, the combination of a shaft, a sleeve encircling a portion of the said shaft, an armature and an eccentric cam mounted on the said inner shaft at one side of the shaver, a lever actuated by the said eccentric cam for moving the said sheathed cutting member, an armature and an eccentric cam mounted on the said sleeve at the other side of the shaver, and a lever actuated by the last named cam for moving the said face contacting member.

2,347,871
CORN HARVESTER
Norman F. Andrews, Moline, Ill., and Russell L. Dort, Davenport, Iowa, assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 23, 1941, Serial No. 394,806
39 Claims. (Cl. 56—18)



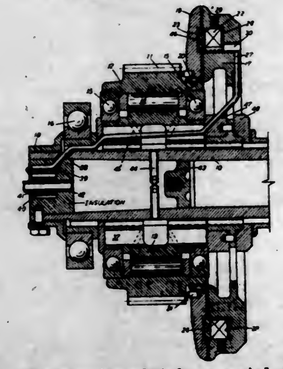
1. A harvesting implement comprising a mobile frame, a crop gathering unit pivotally mounted thereon by means providing for vertical movement relative thereto, a crop treating unit associated with said gathering unit for receiving gathered crops therefrom, means for pivotally supporting one end of said treating unit on said frame on an axis spaced from the pivot mounting of said gathering unit, and means for pivotally supporting the other end of said treating unit on said gathering unit.

2,347,872
RUBBER OUTSOLE FOR FOOTWEAR
Raymond H. Blanchard, Melrose, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 26, 1942, Serial No. 444,504
5 Claims. (Cl. 12—142)



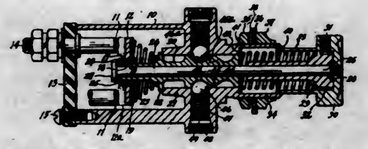
1. The method of building an article of footwear which comprises forming a rubber outsole base element comprising heel, shank, and sole portions, cutting out or otherwise forming from rubber a separate configured tread element smaller in lateral dimensions than the corresponding portion of the base element, and also a rand element, applying the configured tread element to the tread side of the base element and applying the rand element to the tread side of the base element contiguous to the edge of said base element to produce a unitary composite outsole assembly, and affixing the unitary outsole assembly to a lasted shoe upper with the configured tread element in tread position.

2,347,873
MAGNETIC CLUTCH
John J. Bloomfield, Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation, a corporation of California
Application July 7, 1941, Serial No. 401,328
6 Claims. (Cl. 192—84)



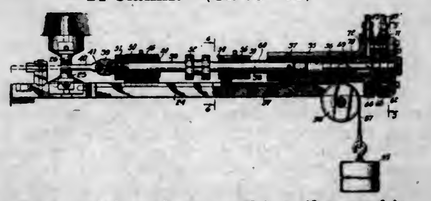
2. In a magnetic clutch, coaxial driving and driven members having frictional engaging surfaces of annular form, one of said members having a channel in its frictional surface, a preformed magnet winding adapted to be inserted in said channel, comprising a continuous strip of anodized aluminum wound upon itself to the desired number of turns, successive layers being insulated from each other by the anodic coating of said aluminum strip, and clamping means associated with the member having the channel in its frictional surface, said clamping means being adapted to retain said preformed winding in place and to ground one extremity thereof to said member.

2,347,874
ELECTRIC SWITCH
Arnold A. Bluemle, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 7, 1942, Serial No. 457,552
7 Claims. (Cl. 200—77)



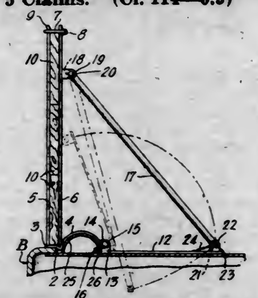
1. In an electric switch the combination comprising stationary contacts; a movable contact; a sleeve having cam means and supporting the movable contact; a shaft slidably supported by the sleeve; releasable holding means cooperating with the cam means; a plunger; spring means resisting movement of the plunger in one direction; a second spring biasing the movable contact toward the stationary contacts; means to actuate the plunger in one direction, said plunger when actuated in said one direction is capable of moving a certain distance relative to the sleeve before engaging the sleeve to move same and the movable contact into engagement with the stationary contacts, said sleeve gradually compressing the second spring after the movable contact engages the stationary contacts to increase the contact pressure between the contacts, and said releasable holding means cooperating with the cam means to hold the sleeve against retrograde movement on slight retrograde movement of the plunger so as to maintain the full pressure between the contacts up to the time the plunger moves the sleeve a certain distance in the reverse direction when the holding means moves the sleeve relative to the movement of the plunger in its reverse direction to separate the movable contact from the stationary contacts with a snap action.

2,347,875
METALWORKING MACHINE
Otto J. Bratz, Adrian, Mich., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York
Application February 10, 1943, Serial No. 475,450
14 Claims. (Cl. 78—98)



1. In a metal working machine, the combination of a movably mounted work support, a metal working element, a fluid pressure operated piston for moving said work support to feed the work to said working element, a fluid operated rotor for rotating said work support to rotate the work with respect to said metal working element, a fluid conduit for carrying fluid discharged from said rotor to the working side of said piston, and means for supplying fluid under pressure to said rotor.

2,347,876
SPLASHBOARD BRACKET FOR BARGES AND THE LIKE
Karl F. Braun, Clairton, and George T. Griffiths, McKeesport, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application December 9, 1943, Serial No. 513,510
5 Claims. (Cl. 114—0.5)

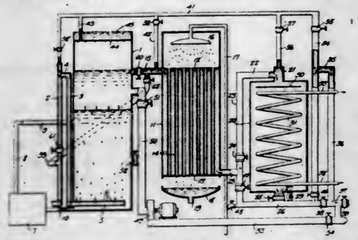


1. A collapsible splash board bracket for barges and the like comprising a base member, means for positioning and detachably holding said base member on the barge, upwardly extending means secured to said base member for accommodating and holding the splash boards, a plate-like member having the inner end thereof pivotally attached to said base member directly opposite said upwardly extending means, an angularly arranged brace member extending between said upwardly extending means and said plate-like member, means for pivotally connecting one end of said brace member to said upwardly extending means, and means for detachably connecting the opposite end of said brace member to said plate-like member adjacent the outer end thereof, said plate-like member in one position adapted to lie substantially in a horizontal position upon the deck of the barge when the bracket is in use and in another position adapted to be folded toward said upwardly extending means about its pivotal connection with said base member with the brace member adapted to pivot about its pivotal connection with the upwardly extending means and disposed directly next to said plate-like member when the bracket is folded and not in use.

2,347,877
METHOD AND APPARATUS FOR TREATING CRUDE OIL
Gustav de Bretteville, Venice, Calif.
Application October 14, 1941, Serial No. 414,971
5 Claims. (Cl. 196—5)

1. A method of treating crude oil to retain the natural volatile gases therein, consisting of conveying oil from a well gas trap in a vertical upward and thence downward course, introducing the oil from said course to the bottom of a dehydration unit for removing well water and other foreign matter therefrom, conveying the clean oil from the dehydration unit to the upper portion of a precooling unit, conveying the oil from the lower portion of the precooling unit to the top of a refrigeration unit, conveying the oil from the bottom of the refrigeration unit to storage, bypassing gases liberated from said oil in advance

of the precooling unit to prevent the latter from becoming gas locked, and introducing the liberated gases into the top of the refrigeration unit to cause absorption thereof with the oil therein.



2. In an apparatus for treating crude oil, a dehydration unit including an upright tank, means for circulating chemically treated hot water through the lower portion of the tank, a pipe line adapted for receiving oil as it issues from a well and including perforated means for introducing the oil into the lower portion of the tank for passage of the oil through the water to remove well water and foreign matter therefrom, a precooling unit having means of communication with the tank for receiving clean oil therefrom, a refrigeration unit having communication with the precooling unit for receiving the oil therefrom, and means for by-passing gases from the pipe line, tank and the communication means between the tank and the precooling unit for passing said gases to the refrigeration unit to prevent the precooling unit from becoming gas locked.

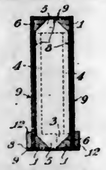
2,347,878
CHIPPER GUARD
Harry Brewer, Sidney, Nebr.
Application June 21, 1943, Serial No. 491,725
7 Claims. (Cl. 30—287)



1. The combination of a hammer having a head and a handle attached thereto, a guard extending about the head in a plane transversely thereof, and means connecting the guard to the handle.

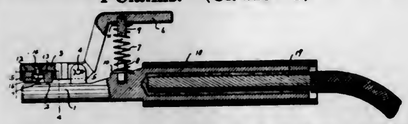
2,347,879
HOLLOW BEAM AND COLUMN FOR USE IN BUILDINGS
Bernard Brunton and Rolfe Gilbert Booth, London, England, assignors to Selection Engineering Co. Limited, London, England
Application April 1, 1942, Serial No. 437,296
In Great Britain April 30, 1941
3 Claims. (Cl. 20—0.5)

1. A fabricated hollow structural building element, including, a series of substantially rectangular inner vertical strut units disposed transversely of the structural element and spaced longitudinally thereof, each of said strut units including a body member having side, top and bottom surfaces connected by oblique corner surfaces, longitudinally disposed chord forming members of substantially triangular cross section



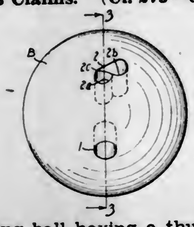
having the bases thereof secured to the said oblique corner surfaces of each body member, and an outer casing for the series of strut units comprising, top, bottom and side sheets abutting and secured to the side, top and bottom surfaces of said body members and also covering said chord forming members.

2,347,880
ELECTRODE HOLDER
Baylis F. Budd, Houston, Tex.
Application March 4, 1943, Serial No. 478,016
4 Claims. (Cl. 219—8)



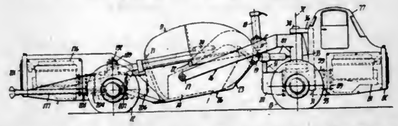
2. An electrode holder comprising pivotally connected jaws, a plane gripping face on one of said jaws, the other jaw having a circular socket facing said plane face, a disc fitted snugly in said socket and whose outer side projects beyond the corresponding jaw and is provided with a transverse groove to receive an electrode and yieldable means normally holding the disc in position to clamp the electrode between it and said plane face.

2,347,881
BOWLING BALL
Herman S. Cahen, University Heights, Ohio
Application February 12, 1943, Serial No. 475,623
3 Claims. (Cl. 273—63)



1. A bowling ball having a thumb hole and a unitary multiple-finger hole of generally oblong form in cross-section, said multiple-finger hole being arranged with the major axis of its surface opening inclined laterally away from the thumb hole, and the inner gripping-surface of said multiple-finger hole being provided with a rib extending lengthwise thereof and dividing the same into immediately adjacent individual finger-receiving portions so as to prevent lateral slipping along the inclined surface thereof and at the same time permit the fingers to be positioned in close proximity to each other for efficient aiming.

2,347,882
EXCAVATOR
Roy E. Choate and Ellsworth W. Austin, Cedar Rapids, Iowa, assignors to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa, a corporation of Delaware
Application September 21, 1940, Serial No. 357,672
7 Claims. (Cl. 37—126)



6. An excavator comprising a main frame and main bowl structure articulated to provide a front section and a rear section relatively rotatable about a transverse axis, front ground-engaging wheels supporting said front section, rear ground-engaging wheels supporting said rear section, means effective upon said front wheels to produce a torque reaction in said front section urging said front section to rotate in one direction about said axis, means effective upon said rear wheels to produce a torque reaction in said rear section urging said rear section to rotate in another direction about said axis, and means for resisting relative rotation of said sections about said axis in both directions.

2,347,883
PRODUCTION OF CELLULOSIC STRUCTURES
Norman Louis Cox, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 3, 1942, Serial No. 464,387
6 Claims. (Cl. 18—54)

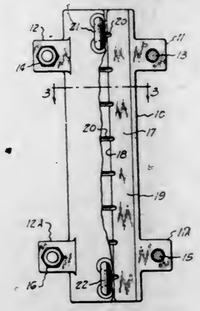
1. In the method of producing regenerated cellulose structures by the extrusion of viscose in an aqueous sulfuric acid spinning bath the step which comprises incorporating in said bath from 1%–8% maganous sulfate together with 0.1%–1% zinc sulfate.

2,347,884
METHOD OF PRODUCING CELLULOSIC STRUCTURES
Norman Louis Cox, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 3, 1942, Serial No. 464,388
6 Claims. (Cl. 18—54)

1. In the method of producing regenerated cellulose structures by extruding viscose in an aqueous sulfuric acid spinning bath the step which comprises incorporating in said bath from 1%–8% chromic sulfate together with 0.1%–1% zinc sulfate.

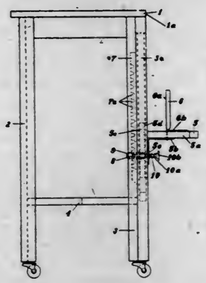
2,347,885
WIRE LINE GUIDE
Charles S. Crickmer, Dallas, Tex.
Application November 14, 1941, Serial No. 419,174
2 Claims. (Cl. 254—190)

1. A wire line guide including, an elongate shell formed of two substantially semi-circular sections, and a single resilient semi-circular bearing element permanently bonded to the inner surface of each section, each element extending throughout the entire length of the section and having its ends terminating in the same plane as the ends of the section, said bearing elements co-acting with each other when the sections of the shell are placed together to form an annular elongate guide sleeve through which the wire line extends, outwardly extending lugs on one section of the shell, complementary lugs on the other section of said shell and spaced from the first



mentioned lugs when the sections are placed together, and fastening bolts extending between and engaging the lugs for securing the sections together, said bolts providing supports for the attachment of alining cables to the device.

2,347,886
BOOK LETTERING TABLE
Leo T. Crismon, Louisville, Ky.
Application June 10, 1942, Serial No. 446,514
2 Claims. (Cl. 311—1)



1. An adjustable book holder for a work table, on one side of which books may be held for book marking purposes with their spines facing upwardly within a marking level adjacent the top edge of the table, comprising: vertical guide means; a book holding assembly composed of a vertically arranged backboard, a horizontally arranged shelf secured to the backboard at a level substantially below its top, and a clamp extending upwardly from the shelf and cooperating with it and the upper part of the backboard to define an open-top holding space into which a book may be placed for marking purposes, said clamp being slidably mounted on the shelf for manual movement horizontally toward and away from the backboard to vary the horizontal thickness of said space and thus accommodate books of different thicknesses and to clamp and release books in said space; and means slidably mounting the assembly on the guide means for manual movement upwardly toward and downwardly away from the marking level to vary the height between the bottom of the book space and the marking level and thus enable the spines of books of different widths to be adjusted to the marking level.

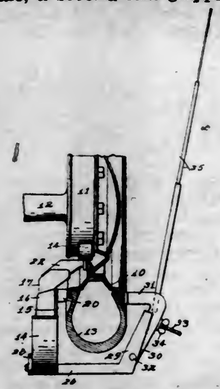
2,347,887
DUAL PUMP
Walter E. Cummins, Los Angeles, Calif.
Application January 18, 1943, Serial No. 472,713
15 Claims. (Cl. 103—172)



1. A pump adapted to be inserted into a well casing, said pump comprising a discharge pipe, a main pump barrel mounted in said discharge pipe and spaced therefrom, an enlarged cylinder mounted on the lower end of said barrel, said cylinder having its outer wall spaced from said discharge pipe and having spaced means affording communication between the interior of the cylinder and the exterior of the discharge pipe, a depending pump barrel on the lower end of said enlarged cylinder, said cylinder having an upper set and a lower set of circumferentially aligned apertures affording communication between the interior of the cylinder and the space between the cylinder and the discharge pipe, said spaced means being arranged intermediate said sets of apertures, a sucker rod in said main pump barrel and extending through said cylinder and into said depending pump barrel, pistons on said sucker rod above and below said cylinder, a valve member slidable relative to said sucker rod and slidable within said cylinder, said valve member having outwardly directed holes therein spaced from each end thereof, said valve member having communication forming means extending from the holes to the ends of the valve member, the length of said valve member being greater than the distance between said two sets of apertures and the length of the valve member being less than the distance from one set of apertures to the end of the working length of the cylinder which is remote from said one set of apertures.

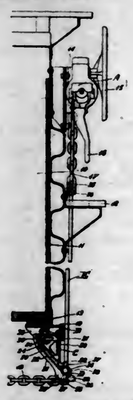
2,347,888
AUTOMOBILE JACK
Dugald Currie, Des Moines, Iowa
Application January 16, 1942, Serial No. 427,035
3 Claims. (Cl. 254—94)

3. An automobile jack, comprising a body adapted to be supported adjacent to the inner side of an automobile wheel to be serviced, having its upper end shaped to fit against the under surface of the brake drum of said wheel and a jaw adapted to engage the inner edge of the wheel rim, the bottom of the body having a flat base portion adapted to rest on the ground surface, the front and back edges of the base portion terminating in oppositely arranged rockers, the radial distances from the center of a wheel supported on said body to the free end of said rockers being less than the distance from the center of said wheel to the bottom side of said base portion, said base portion including a laterally and outwardly extending member to rest beneath said wheel, the outer end of said member terminating in an upwardly and outwardly inclined handle, a second rim-gripping jaw pivot-



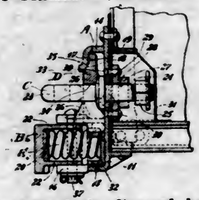
ally secured to the lower portion of said handle, means carried by said handle for clamping the second jaw member to the wheel rim and the rim to the first jaw member, and means carried on said second jaw for visually indicating when said base portion is flat against the ground.

2,347,889
QUICK TAKE-UP MECHANISM
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application September 10, 1942, Serial No. 457,832
4 Claims. (Cl. 74—517)



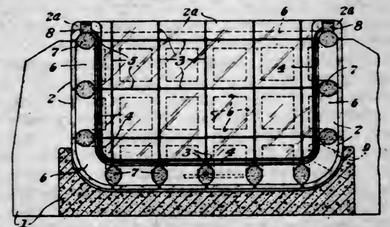
1. In a quick take-up mechanism for hand brakes for cars, the combination with a bell crank swingingly supported underneath the car; of a short arm projecting from said bell crank, said arm having an opening therethrough; a horizontal brake chain leading to the brake mechanism proper of the car; a vertical pull-up rod for actuating the bell crank; and an anchoring member attached to the bell crank, said anchoring member having a shank portion extending through the opening of said arm, the lower end of said shank portion extending through the end link of said chain and having a flange thereon preventing disengagement of said link from said shank portion, the upper end of said anchoring member being pivotally secured to the lower end of said pull-up rod.

2,347,890
DRAFT AND BUFFER GEAR
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application September 14, 1942, Serial No. 458,247
5 Claims. (Cl. 213—9)



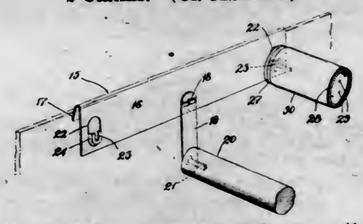
3. In a combined draft and buffer gear, the combination with a support secured to the end of the car; of a buffer head movable inwardly toward the car in said support; a shock absorbing means opposing inward movement of said head; an upright swinging lever, said lever being rounded at its upper end and having a concave bearing surface near said upper end on the front side of the lever, said support having an upward extension provided with a downwardly opening pocket into which the upper end of said lever extends, said pocket having a rearwardly and inwardly facing convex bearing surface fitting and engaged by said concave surface of the lever; and a horizontally disposed drawbar connected to said lever between the top and bottom ends of the latter, said lever having the lower end thereof engaging in back of said shock absorbing means to compress the same in draft as the lever is pulled forwardly by outward movement of said drawbar.

2,347,891
PICKLING TANK LINING
William T. Dean, Gary, Ind.
Application February 13, 1942, Serial No. 430,839
1 Claim. (Cl. 72—14)



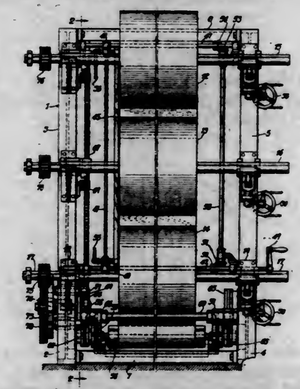
A pickling tank lining comprising a plurality of acid-resistant tiles laid together with thermal expansion spaces therebetween and having registered peripheral grooves adjacent the lining face filled with non-rigid acid-resistant material liquid-tightly sealing said spaces and with anchoring portions spaced from said grooves remotely from the lining face which are rigidly engaged by rigid material structurally supporting said tiles, said non-rigid material comprising a cement having little structural strength but being adhesive to said tiles and sufficiently deformable to permit thermal tile movement without rupturing, and said rigid material comprising a concrete of greater structural strength but lacking in said adhesiveness and deformability.

2,347,892
GARMENT HANGING DEVICE
Harry Derman, Laurelton, Long Island, N. Y.
Application October 22, 1941, Serial No. 416,024
2 Claims. (Cl. 312—144)



1. A garment supporting unit for mounting on side walls of a knockdown cabinet, said unit comprising similar elongated end plates, upper edge portions of said plates having outwardly and downwardly extending flanges forming channel portions for receiving the upper edges of the side walls of the cabinet, a hanger rod joining said plates centrally thereof and supporting the plates in predetermined spaced relationship to each other, means on the ends of the rod and pivoted to the central portion of said plates forming swingable mountings for the rod on said plates, the ends of the plates in wide spaced relation to the pivot of said last named means having apertures, inwardly pressed notched portions on the plates at the base of said apertures forming sockets opening upwardly at inner surfaces of the plates, an elongated tubular container, and the ends of the container having projecting headed pins adapted to enter the sockets of opposed plates at common ends thereof in supporting the container on the plates and in wide spaced relationship to said hanger rod.

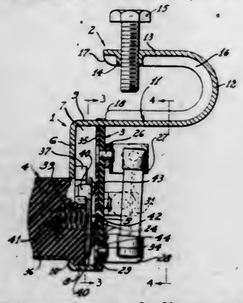
2,347,893
APPARATUS FOR WEB ALIGNMENT
Charles A. Dickhaut, New Brunswick, N. J., assignor to John Waldron Corporation, New Brunswick, N. J., a corporation of New Jersey
Application November 9, 1942, Serial No. 465,004
12 Claims. (Cl. 242—76)



2. In an apparatus for controlling the alignment of a travelling web associated with a roll of said web material, the combination of axle means for rotatably supporting said roll, two bearing means spaced apart along a bearing axis substantially normal to the desired path of travel of said web, said axle being journalled in said bearing means for rotation about said axis, one of said

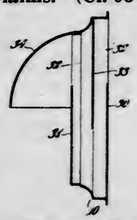
bearing means being provided with a bearing surface portion angularly movable relative to the remainder of said bearing means into and out of parallelism with said normal bearing axis to thereby angularly adjust the said axle means, and means for actuating said bearing portion to effect said angular adjustment.

2,347,894
ELECTRIC SWITCH
Thomas W. Drury, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application May 29, 1941, Serial No. 395,801
5 Claims. (Cl. 200—168)



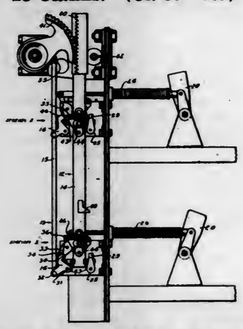
1. A switch casing including; a substantially vertical front wall, top, bottom, and side walls extending rearwardly from said front wall; a carrier carrying contacts secured to said casing in a plane parallel to said front wall; switch mechanism in said casing; an opening provided in said front wall receiving means for operating said mechanism; said top wall having an integral continuation including, a portion extending rearwardly substantially parallel to said bottom wall, an upwardly curved portion, and a portion extending forwardly in spaced apart parallel relation with respect to said top wall whereby to provide a bifurcation adapted to receive a support; and means carried by the forwardly extending portion for securing the switch to the support.

2,347,895
VENTILATOR
Rhys Evans, London, England
Application February 9, 1942, Serial No. 430,125
In Great Britain May 27, 1941
2 Claims. (Cl. 98—37)



1. A ventilator for insertion into port holes, windows and like wall openings, comprising, an annular frame including inner and outer cylindrical sections, the latter being of smaller diameter than the former and connected by an intermediate section of arcuate cross section, an annular offset flange carried by and of greater diameter than said inner section which acts as an abutment when the ventilator frame is inserted into a wall opening from the room side thereof, inner and outer opaque screens respectively connected with the lower inner edge of the inner section and the outer lower edge of the outer section and extending in the same direction partially across the open area of the frame at right angles to the longitudinal axis thereof, an intermediate screen connected to the upper edge of the frame at the junction of the inner and intermediate sections and also extending partially across the frame opening with its free edge disposed between and in spaced overlapping relation with the free edges of the first mentioned screens, and a hood of arcuate cross section having its base connected to the upper side of the outer section of the frame opposite the outer screen and having its open end terminating at a plane disposed below the free edge of said outer screen thereby to overlap the said outer screen and shield the opening in the outer section of the frame.

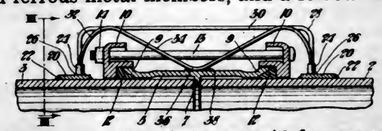
2,347,896
BOMB RACK
Lawrence J. Eyler, Dayton, Ohio, and Chester C. Pearson, Santa Monica, Calif.
Application October 18, 1939, Serial No. 300,054
18 Claims. (Cl. 89—1.5)



1. A bomb rack comprising a frame, a plurality of bomb releasing units carried on said frame, any selected number of said units being actuable from an uncocked to a cocked state, latch means carried on the frame for holding the selected units in the cocked state, selector means mounted on said frame and movable from one to the next of the cocked releasing units, stops carried on the frame for halting the selector at each cocked releasing unit in position for its release, coacting tripping means, including an element supported on the frame and an element on the selector means, arranged for tripping the latch means on that one only of the units selected for release, means operative by tripping of the latches to successively release the selector from the stops, and catch means on the frame for holding any uncocked units out of operative reach of said selector.

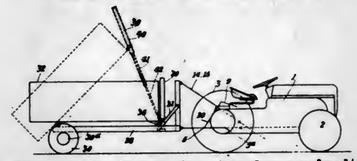
2,347,897
ELECTRICAL SHUNT FOR PIPE COUPLINGS
Harold H. Febrey, South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 27, 1941, Serial No. 408,511
3 Claims. (Cl. 173—326)

3. The combination of a pair of ferrous metal pipes and a ferrous metal coupling therefor, a ferrous metal member connected to each of said pipes, a non-ferrous metal member connecting said ferrous metal members, and a ferrous metal



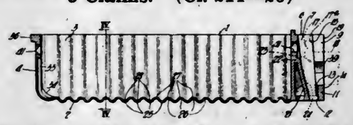
electrical connection between said ferrous metal members and said ferrous metal coupling.

2,347,898
HITCH MEANS FOR CONNECTING TRAILERS TO TRACTIVE VEHICLES
Henry George Ferguson, Belfast, Northern Ireland
Application July 31, 1940, Serial No. 348,927
In Great Britain November 25, 1939
24 Claims. (Cl. 280—33.44)



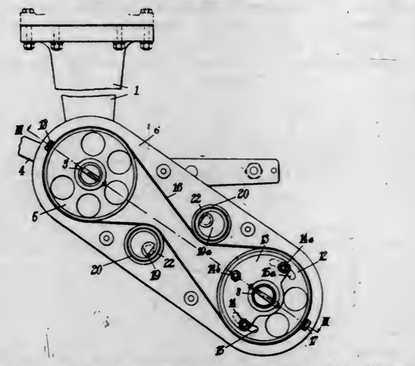
1. In combination a tractor for agricultural or soil-working implements having, a power unit, front wheels and rear driving wheels, and upper and lower attachment means at the rear, a trailer comprising a chassis having two road wheels at or near the rear thereof and upper and lower attachment means at the forward end, and a hitch connection between the tractor and trailer comprising an upper link pivotally attached to the upper attachment means on the tractor and trailer and inclined so that an axial projection passing through said upper attachment means passes over the axis of the tractor rear driving wheels and below the axis of the tractor front wheels, lower link means pivotally connected to the lower attachment means on the tractor and trailer and a connection between said power unit and lower links whereby an upward pull can be exerted on the latter, the attachment of the link means to the trailer allowing lateral swinging of same with reference to the tractor about a vertical axis spaced rearwardly from the tractor to give the necessary clearance for turning and the upper and lower links forming part of a quadrilateral structure allowing free up and down movement between the tractor and trailer but tending to lift the trailer off the ground when the power unit is operated to exert an upward force on the links.

2,347,899
CHARGING BOX FOR OPEN HEARTH FURNACE CHARGING OPERATION
John W. Forsythe, Wilkinsburg, Pa.
Application September 5, 1942, Serial No. 457,495
5 Claims. (Cl. 214—26)



4. In the combination of a charging box and a peel head disposed at one end of a peel neck, said charging box having an open-top socket portion at one end, and including a plurality of spaced vertically disposed flanges forming an open slot-like aperture adapted to receive the head and neck portions of the peel, a tie bar connecting the lower end of said spaced vertical flanges of the socket in such a manner as to be spaced or recessed from the head portion of the peel when said head portion is disposed in load carrying position in the open-top socket portion at one end of the charging box.

2,347,900
MOTION TRANSMITTING AND CO-ORDINATING MEANS
Archibald Goodman Frazer-Nash, Tolworth, and Stuart Russell Proctor, Almondesbury, England
Application April 17, 1941, Serial No. 389,078
In Great Britain November 7, 1939
1 Claim. (Cl. 74—222)

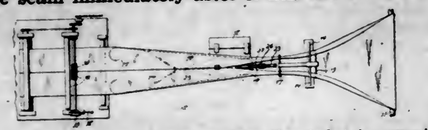


Mechanism for securing coordination of motion of two members comprising a rigid bracket, a bearing in the bracket, a shaft rotatably engaged in the bearing, a wheel on the said shaft, an extension rigidly secured to the bracket, a bearing in the said extension, a second rigid bracket, a bearing in the second bracket in axial alignment with the bearing in the extension, a second shaft supported in the two last mentioned bearings, a wheel rigid with the second shaft and an inextensible driving belt pinned to this wheel and to the first-mentioned wheel, and tensioning means for taking up the slack in the belt, said tensioning means comprising a jockey pulley engaging against the portion of the belt extending one on one side of the plane in which the axes of the shafts lie and a jockey pulley engaging against the portion of the belt on the other side of the said plane, bearings for the two jockey pulleys, eccentric mountings for said pulley bearings adapted to permit the position of the jockey pulleys to be adjusted to take up a greater or less degree of slack in the belt and to facilitate by the individual adjustment of their positions the harmonizing of the two members.

2,347,901
APPARATUS FOR FORMING TUBULAR MATERIAL
Percy Gardner, Glen Ridge, N. J., and Ralph Kagan, Brooklyn, N. Y., assignors to Lever Bias Machine Corporation, New York, N. Y., a corporation of New York
Application March 19, 1941, Serial No. 384,224
1 Claim. (Cl. 112—63)

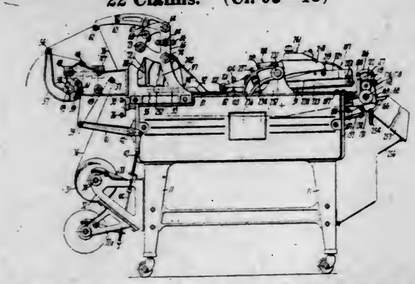
In a machine of the class described, means for joining sheet material into tubular form with a flat seam and the seam when formed being disposed along the top of the tube, means for pulling said tubular material away from said joining

means, a spring pressed plate within the tube adjacent the joining means to press upwardly on the seam immediately after it has left the join-



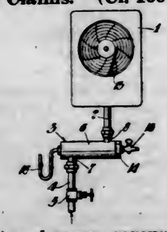
ing means, and means within the tube to exert horizontal pressure thereon to flatten it out just before it is engaged by the pull away means.

2,347,902
BAG MAKING MACHINE AND METHOD
Rene J. Gaubert, Oakland, Calif., assignor to Simplex Wrapping Machine Co., Oakland, Calif., a corporation of California
Application November 6, 1940, Serial No. 364,593
22 Claims. (Cl. 93—18)



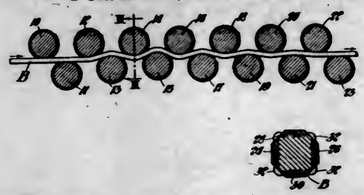
2. In a machine for making bags from a continuous strip of material like "Cellophane," a frame, a plate-like mandrel movably mounted with respect to the frame, means for directing the strip of material along one face of the mandrel, means for folding projecting side margins of the strip over the mandrel to provide an overlap between the edge portions of said margins, means for feeding said strip, said folding means operating during feeding of said strip, means for periodically interrupting the feed of said strip, means for folding a projecting end margin of the strip of material over one end edge of the mandrel to provide an end overlap during interruption of said feed, heat sealing means, means for applying said means to said overlapping portions to effect a seal, and means for advancing said mandrel to engage the sealed bag end with said feeding means.

2,347,903
PULSATION DAMPER
Harry Gluck, Munhall, and Daniel J. Snyder, Edgewood, Pa.
Application November 16, 1942, Serial No. 465,788
2 Claims. (Cl. 138—40)



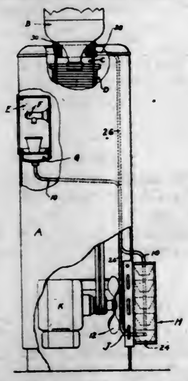
1. A pulsation damper comprising an elongated hollow body open at one end, an inlet at one end of the body connected to a source of fluid pressure, an outlet at the other end of the body connected to a pressure gage, a removable cartridge within the body located between the inlet and outlet, a plurality of capillary tubes extending lengthwise of the body and supported by the cartridge, and a plug for closing the open end of said body, said plug having a diameter of sufficient size to permit removal of said cartridge from said body.

2,347,904
METHOD OF COLD-WORKING METALLIC BARS
Gerald G. Greulich, Mount Lebanon, Pa.
Application July 26, 1941, Serial No. 404,244
4 Claims. (Cl. 153—54)



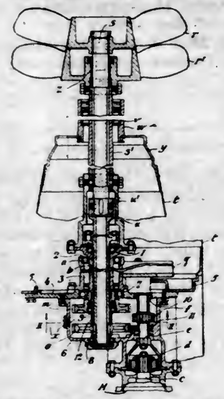
1. The method which comprises advancing a bar longitudinally while subjecting successive portions thereof to transverse bendings which gradually increase and then gradually decrease in magnitude, whereby the outer fibers of the bar are stressed to a point approaching the ultimate strength of the material while the intermediate fibers in the region of the neutral axis are maintained relatively ductile, rotating the bar a fraction of a revolution, and repeating the above steps on different parts of the bar until all peripheral portions of the outer skin region thereof are effectively hardened sequentially in separate stages.

2,347,905
WASTE WATER HUMIDIFIER
Howard B. Hait, Philadelphia, Pa.
Application September 3, 1943, Serial No. 501,063
2 Claims. (Cl. 62—141)



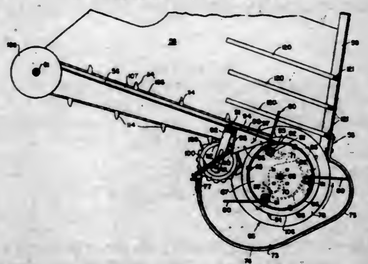
1. In combination with a water-bottle water cooler, a humidifying tray for retaining waste water of the cooler, and means common to both the cooler and the humidifying tray whereby the waste water in the trays will be vaporized; a water reservoir within said water cooler, and means connected to said reservoir and said humidifying trays whereby the flow of water from the reservoir will be controlled by the amount of water in the humidifying trays.

2,347,906
GEARING FOR ROTATING CONCENTRIC SHAFTS IN OPPOSITE DIRECTIONS
Ernest Charles Hatcher, Northwood, England, assignor to J. Stone & Company Limited, Deptford, England, a company of Great Britain
Application September 9, 1942, Serial No. 457,793
In Great Britain September 11, 1941
1 Claim. (Cl. 74—389)



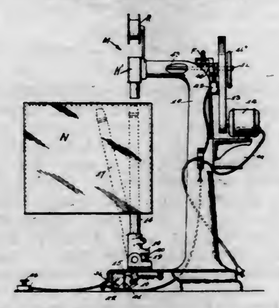
Power transmission gearing between a single driving shaft and concentric driven shafts rotatable in opposite directions, comprising an input pinion on the driving shaft, a reversing pinion in mesh with said input pinion, output gears on respective driven shafts said output gears being spaced apart to provide a gap between them, two intermediate gears circularly spaced from one another around the common axis of the two concentric driven shafts and disposed each with a portion of its periphery within said gap between the output gears, one intermediate gear meshing with the driving pinion and the other intermediate gear meshing with the reversing pinion, and two reduction gears each united with a respective intermediate gear and in mesh with a respective output gear.

2,347,907
HARVESTER
George B. Hill, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa
Application March 7, 1941, Serial No. 382,219
17 Claims. (Cl. 56—364)



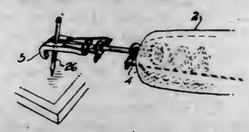
1. Pick-up mechanism for a harvester, comprising in combination, a crop receiving platform, a pick-up drum rotatably mounted thereon, and a scraper plate mounted between said platform and said drum and disposed in scraping engagement with said drum and arranged to transfer crops from said drum to said platform.

2,347,908
WIRE STITCHING MACHINE
Roy G. Hoffert, Racine, Wis.
Application June 19, 1942, Serial No. 447,661
8 Claims. (Cl. 1—15)



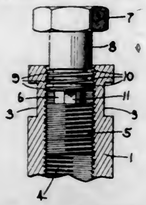
1. In a wire stitching machine, the combination of a staple driving mechanism, means for operating the staple driving mechanism, a clutch device for throwing said driving mechanism into and out of operation, electrical means for operating said clutch device, a movable clinching post, a second electrical means connected to said clinching post which, when energized, moves said post to a position for cooperating with said staple driving mechanism, tension means for moving said clinching post out of said position, an electric switch device including a pedal, contacts whereby a downward movement of said pedal energizes said second electrical means, and means whereby a further downward movement of said pedal energizes said first electrical means, and tension means for elevating said pedal.

2,347,909
MECHANICAL HAND FOR ARTIFICIAL ARMS
Eddie Craig Jarrett, Fillmore, Calif.
Application March 30, 1943, Serial No. 481,167
5 Claims. (Cl. 3—12)



2. In a hand of the class described, a longitudinal bar having a flattened outer end, finger bars hinged into the said flattened end of the said bar and extending outwardly from the said bar, a tube into which the said bar extends rearwardly, a block mounted on the outer end of said tube and adapted to be revolved thereon, horizontal flanges on the transverse sides of said block, tie rods hinged into the said flanges of said block and extending outwardly from said block, said tie rods hinged into the body portion of said finger bars; in combination with spring means for moving the said tube outwardly along the said bar which is located within the said tube together with manually operating means for moving the said tube inwardly over the said bar.

2,347,910
SELF-LOCKING VALVE TAPPET
Charles E. Johnson, North Muskegon, Mich.
Application March 23, 1942, Serial No. 435,796
2 Claims. (Cl. 151—21)



1. A self-locking tappet screw including a head and a depending shank, said shank having upper and lower threaded sections thereon separated from each other with a connecting section between the threaded sections, said upper section having spaced annular grooves cut therein separating the threads of the upper threaded section from each other, and said upper and lower sections being offset a short distance from each other in the direction of the axis of the shank, the connecting section between the threaded sections being axially elongated a short distance after the threaded sections have been produced.

2,347,911
HORTICULTURAL AND AGRICULTURAL IMPLEMENT
Jonas Arthur Kingston, Reading, England
Application April 29, 1943, Serial No. 485,066
In Great Britain April 24, 1942
2 Claims. (Cl. 306—2)



2. An implement consisting of a tool handle and a tool head and interconnecting means between said handle and head comprising a two-limbed spring fork extending forwardly from the handle, each limb having the free end enlarged and flattened to face the similar free end of the other limb and being provided on one face with a plurality of grooves set at different angles relatively to the main axis of the fork and handle, and a plate on the tool head, said plate being provided with two slots spaced apart for spring-forked engagement with a pair of grooves in the aforesaid enlarged limb ends of the fork in one or other of a plurality of different angular working attitudes.

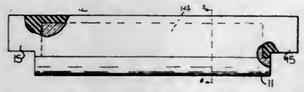
2,347,912
METHOD OF INSTALLING ELECTRIC CABLES
Laszlo I. Komives, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York
Application March 11, 1941, Serial No. 382,816
4 Claims. (Cl. 29—162)

1. The process of constructing a hermetically-sealed, pressure-resistant duct which comprises assembling a plurality of insulating pipe sections in axial alinement to form a duct, drawing into the duct a fluted lead pipe collapsed upon a rope core, unfolding the collapsed lead pipe



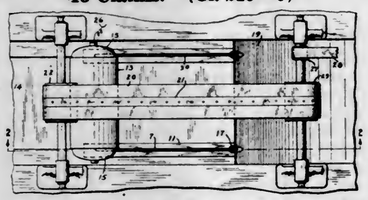
to form a lead lining for the duct, and removing the rope core from the lined duct.

2,347,913
SECTION INSULATOR
Arthur J. Knight, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application May 8, 1943, Serial No. 486,471
14 Claims. (Cl. 191—39)
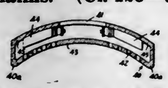


1. The combination with a section insulator for a trolley conductor, of a bridging member of insulating materials to guide a current collector across the device, the said bridging member comprising runner part of vitreous material and a casing-like part of flexible non-metallic material which encloses the runner part except for a longitudinal edge portion to contact with the moving current collector and means associated with the casing part whereby the runner part is held in position.

2,347,914
METHOD AND APPARATUS FOR WELDING
George E. Kricker, Lakewood, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application September 12, 1941, Serial No. 410,568
15 Claims. (Cl. 219—6)



1. The method of welding consisting of laying a straight self-operating coated weld rod upon a downwardly inclined support, and supporting a cylinder upon said weld rod and circumferentially rolling said cylinder by gravity lengthwise on said weld rod along a line of welding while the weld rod is arcing with the cylinder to lay a continuous weld circumferentially on said cylinder.

2,347,915
ELECTRODE STRUCTURE
Fred Landauer, New York, N. Y.
Application February 27, 1941, Serial No. 380,940
3 Claims. (Cl. 128—370)



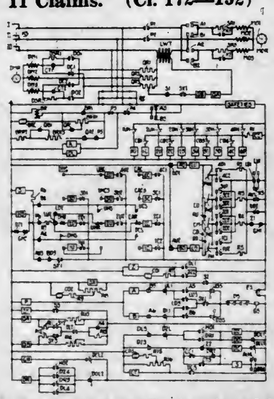
1. An electrode structure of the character described comprising a rigid elongated housing having front and rear walls made of electrically non-conductive material, said front wall being

provided with a perforated portion, a rim part of said housing connected to the front wall at its periphery, the junction of the front wall and rim part defining guarding means such that, when the housing is applied to a body part to be treated a fluid containing treatment space is defined between the front wall and the body part, at least one electrode arranged for position adjacent said rear wall of said housing and separated from said perforated front wall, said perforated front wall portion being disposed opposite said electrode and intermediate said electrode and said guarding means thereby providing fluid passageways from the interior of the housing to said treatment space, said electrode extending nearer to said perforated front wall portion than to said guarding means, and a fluid inlet disposed sidewardly of said electrode and out of alignment with respect to said perforations in said front wall portion, thereby adapted to provide a fluid filled housing with self-contained electrode.

2,347,916
CONTAINER CONTAINING HYDROGEN SULPHIDE VAPOR
Clifford P. Larrabee, Vandergrift, Pa.
No Drawing. Application December 3, 1942, Serial No. 467,785
5 Claims. (Cl. 206—84)

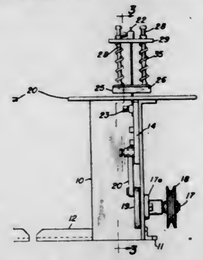
1. A container containing hydrogen sulphide vapor, made of steel containing from .05 to 1.50% arsenic effecting an increase in its resistance to corrosion by this vapor and with its balance iron excepting for elements harmless to this effect of the arsenic.

2,347,917
LOAD DETERMINING APPARATUS
Jacob Daniel Lewis, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application November 2, 1942, Serial No. 464,298
11 Claims. (Cl. 172—152)



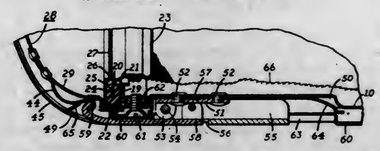
11. In an elevator installation in which an elevator car serving a plurality of landings is provided with a polyphase alternating current induction hoisting motor supplied with power from a source of polyphase alternating current, in which stopping means is provided for stopping the car at the landings and in which load determining apparatus is provided for controlling the operation of said stopping means to compensate for the load in the car in stopping the car at the landings, said apparatus comprising; a single phase transformer having its primary winding connected to be subject to the current supplied to said motor from one phase of said source; a source of direct current; a relay having an operating coil energized from said direct current source to cause operation thereof and a coil connected to be subject to the vector sum of the voltage induced in the secondary winding of said transformer and a voltage the phase of which is determined by the voltage of said one phase of said source for opposing said operating coil to cause the dropping out of said relay when the load on said motor is above a certain value.

2,347,918
RECIPROCATING SAW MACHINE
Mervin A. Lethenstrom, Seattle, Wash.
Application October 30, 1942, Serial No. 463,877
2 Claims. (Cl. 143—72)



1. In a reciprocating saw mechanism of the type wherein a saw blade having an upper free end is reciprocated vertically through a work table from below, the combination comprising: a member for non-movable attachment to such saw blade, a work presser foot below said member and adapted to press to said table work presented to the saw blade about the cutting point thereof, and resilient extensor means between said member and said foot to press the latter against the work during cutting and to tension the saw blade.

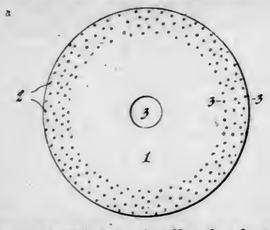
2,347,919
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application January 31, 1941, Serial No. 376,760
2 Claims. (Cl. 220—55)



1. In a vacuum cleaner, a hollow casing having an opening, a removable closure member for said opening, a lever on either side of said casing, each lever having one end pivotally connected to said casing adjacent to said opening, a latch member pivoted on each lever at a point spaced from said end, a resilient member secured to either side of said closure member, means for securing one end of each resilient member to said closure member, the other end of each resilient member being hook-shaped, each resilient member being so formed that its central portion is bowed away from the closure member and the hook-shaped end thereof is urged into slidable contact with said closure member, said hook-

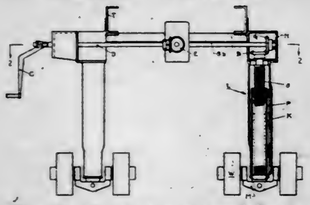
shaped member being engageable by the respective latch members to secure said closure member in place, and a channel extending across the front of said closure member and substantially covering said resilient members, said channel being disposed close to said resilient members adjacent to the points of contact of said resilient members with said closure member.

2,347,920
ABRASIVE WHEEL
James C. Mays, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application March 27, 1941, Serial No. 385,407
12 Claims. (Cl. 51—309)



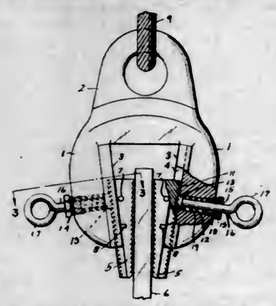
1. In an abrasive cut-off wheel, a thin disc of electrolytically deposited metal, abrasive grains supported in said disc substantially all said grains extending therethrough so that a portion of each grain is exposed at each of the radial faces of the disc.

2,347,921
SCREW TYPE TRAILER LANDING GEAR
Elmer L. Miller, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a corporation of Ohio
Application October 12, 1942, Serial No. 461,820
1 Claim. (Cl. 254—86)



A trailer landing gear comprising: a pair of screw type landing gear legs, each mounted for extension and retraction between fully extended and retracted positions, each leg including a trailer frame member, a screw rotationally mounted on and depending from said frame, a gear secured to the upper end of the screw, a non-rotatable inner sleeve encircling the screw and threaded at its upper end to the screw for extension and retraction relatively thereto, and an outer sleeve encircling the inner sleeve with its upper end affixed to said frame and its lower end slidably fitting around the inner sleeve in order to guide and support it, a common drive shaft for said legs; and a differential mechanism connecting said drive shaft differentially to each gear, said mechanism being operative when actuated by said drive shaft to extend said legs unequally to bring them into contact with different ground levels before either leg assumes any appreciable load and to retract unequally extended legs to their fully retracted positions.

2,347,922
HOISTING TONG
Lee Nelson, Texas City, Tex.
Application April 12, 1943, Serial No. 482,794
2 Claims. (Cl. 294—86)

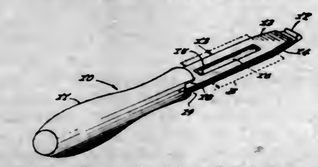


1. A hoisting tong comprising a pair of spaced jaws anchored together at one end and having their other ends free, said jaws having inside faces which converge toward said free ends, wedge shaped slips mounted on said faces and having dovetailed connections therewith and mounted to move into gripping relation with a load between the slips, one of said jaws being provided with a bore, a gland secured in the outer end of the bore and having an inside longitudinal groove, a dog in said bore having an outwardly extended shank which extends through the gland, a cross key on the shank whose end extends into the groove, a yieldable member in the bore normally holding the dog in engagement with the corresponding slip, said key being engageable with the outer end of the gland, when the shank is pulled outwardly and turned, and forming means for locking the dog disengaged from the slip.

2,347,923
VARNISH COMPOSITION
Frank G. Oswald, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 30, 1942, Serial No. 449,175
18 Claims. (Cl. 260—22)

1. A coating composition comprising a bodied and reacted mixture of a resinous ester of a member of the group consisting of pentaerythritol and mixtures of pentaerythritol and polypentaerythritols with a rosin acid and an amount of maleic acid which is above about 1% but no more than about 9% of the weight of the rosin acid, said acids being substantially completely esterified, and linseed oil.

2,347,924
HOLDER FOR DOUBLE-EDGED RAZOR BLADES
Oscar Ottoson, New York, N. Y.
Application September 24, 1943, Serial No. 503,719
5 Claims. (Cl. 30—339)

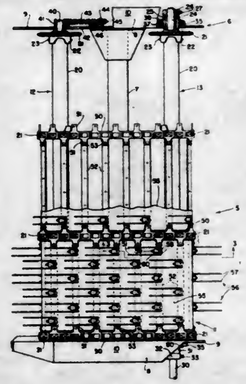


1. A holder for a double-edged razor blade, so that said blade can be securely held in place while said blade is being sharpened over the inner side of an ordinary drinking glass, also known as a tumbler, said holder having a handle with two guide grooves, said guide grooves are made to fit over the upper edge of the glass during the sharpening operation.

2,347,925
AIR SEAL COMPOSITION FOR PNEUMATIC TIRES
Noel Owens, Chanute, Kans., assignor to Film-O-Seal Company
No Drawing. Application July 3, 1941, Serial No. 400,985
3 Claims. (Cl. 106—33)

1. A composition comprising water 5 parts, salt ¼ part, alcohol 1 part, and linseed meal 4 parts.

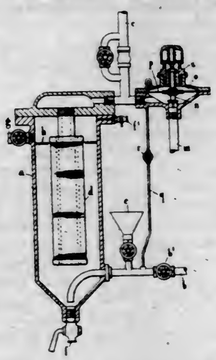
2,347,926
PICKUP MECHANISM
Louis A. Paradise and James V. Irwin, Moline, and Floyd R. Martin, East Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 19, 1941, Serial No. 423,648
6 Claims. (Cl. 56—364)



1. A pick-up adapted to be attached to a traveling harvester and comprising an endless belt trained over upper and lower rollers, means for supporting said conveyor in a downwardly and forwardly inclined position with the lower end thereof in close proximity to the ground, a plurality of pick-up fingers attached to said belt, means for driving the conveyor with the upper run traveling rearwardly and the lower run traveling forwardly, said fingers being disposed to brush the ground surface as the conveyor belt passes around the lower roller, said fingers being of such degree of flexibility as to be incapable of dislodging stones of walnut size upon the ground upon coming in contact therewith in brushing the ground surface, and a plurality of longitudinally spaced transverse slats disposed on the inner side of said belt and attached thereto.

2,347,927
FILTER
William Paterson and Oscar Carl Kerrison, London, England
Application January 17, 1940, Serial No. 314,313
In Great Britain December 31, 1938
14 Claims. (Cl. 210—169)

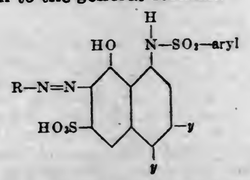
1. A filter unit comprising a casing adapted to permit a flow of liquid therethrough, a liquid inlet communicating with the casing, means for introducing filtering material into the flow of liquid passing into said casing, means for supporting a filter bed composed of filtering material so introduced within said casing and across the flow of the liquid therethrough, means for



washing said filtering material from said filter bed supporting means, means in the form of a pocket below said bed supporting means for holding said removed filtering material, said inlet discharging into the bottom of said pocket, a filtered liquid outlet from said casing, and means for removing filtering material from said casing.

2,347,928
MONO-AZO DYESTUFFS
Gérald Bonhôte, deceased, late of Basel, Switzerland, by Marcelle Bonhôte, administratrix, Saint Blaise, Switzerland, and Ernst Alfred Henzi, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application January 16, 1942, Serial No. 427,066. In Switzerland October 17, 1940
3 Claims. (Cl. 260—198)

1. The monoazo-dyestuffs corresponding in the free form to the general formula

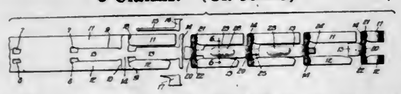


wherein aryl stands for a nucleus of the benzene series, R stands for a diphenyl radical connected to the azo group at a position ortho to the diphenyl linkage, and wherein one y stands for an SO_3H-group and the other y stands for a hydrogen atom.

2,347,929
ESTERS OF TERPENE COMPOUNDS
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 27, 1940, Serial No. 354,381
9 Claims. (Cl. 260—487)

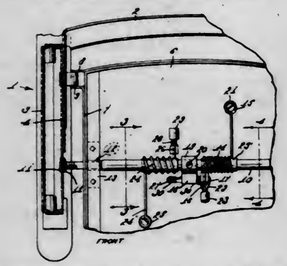
1. A terpene compound having the type formula ROOCR'X in which R is a radical of a reduced allo-ocimene crotonaldehyde condensate, in which R' is a radical selected from the group consisting of aliphatic radicals and aromatic radicals, and in which X represents at least one halogen atom.

2,347,930
CARTRIDGE LINK MANUFACTURE
Alwyn E. Borton, South Orange, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Application August 7, 1942, Serial No. 454,051
9 Claims. (Cl. 59—8)



1. The method of manufacturing cartridge links, which comprises piercing the intermediate portion of a stock strip, shearing the stock inwardly at points longitudinally removed from said piercing and thence longitudinally to the pierced portions to define adjoining blanks with an intermediate longitudinally extending tongue of one blank between longitudinally extending side tongues of the adjoining blank, then trimming a long scrap of material from between tongues of said adjoining blanks, severing the end blank from the strip and bending the tongues of the same into cartridge embracing loop formation.

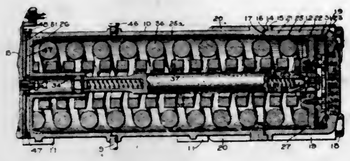
2,347,931
THEATER SEAT
Irl R. Bromagem, Union City, Ind., assignor to Union City Body Company, Union City, Ind., a corporation of Indiana
Application April 12, 1940, Serial No. 329,204
9 Claims. (Cl. 155—85)



6. A chair construction comprising a frame having side standards, a seat adapted for pivotal movement between said side standards, a rod supported between and rotatively adjustable to said side standards, said seat being pivotally mounted on said rod, a pair of abutment members carried by said rod, a pair of coiled springs surrounding said rod, each having a laterally extending end portion engaging said seat, and each having an end portion loosely engageable with one of said abutment members, said first-mentioned end portions projecting in opposite directions from the axis of said rod.

2,347,932
ACCUMULATOR
Rankin J. Bush, Jeannette, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application April 28, 1942, Serial No. 440,823. Divided and this application December 30, 1942, Serial No. 470,560
8 Claims. (Cl. 138—31)

1. A pressure accumulator comprising a cylindrical base portion one end of which is arranged for supporting one end of a spring under pressure and the interior wall of which is unfinished, a fluid accumulator cylinder removably mounted on the opposite end of said base portion and having a finished piston bore open to the interior of said base portion, a piston slidably mounted in said bore and having at the side opposite said base portion a pressure chamber for containing



fluid under pressure, and a spring extending through said base portion interposed between and bearing at one end on said one end of said base portion and at the opposite end against the adjacent side of said piston for urging said piston against fluid pressure in said chamber.

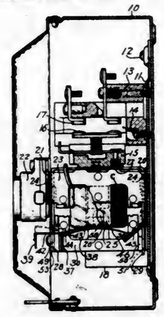
2,347,933
ELECTRONIC VIEW FINDER
Richard L. Campbell, Maywood, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application January 10, 1942, Serial No. 426,321
5 Claims. (Cl. 178—6.8)



1. A television pick-up camera, a view finder adjustably mounted on said camera, a control unit for said camera, a view finder supply unit, and means for feeding scanning and video signals from said control unit to said view finder, said last named means comprising a lead from said camera to said view finder, a lead from said control unit to said view finder supply unit and a lead from said view finder supply unit to said view finder.

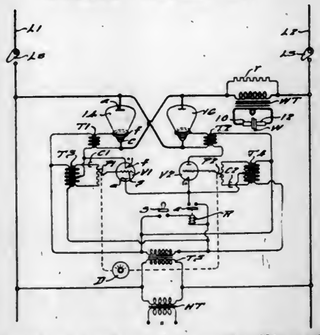
2,347,934
MOTOR STARTER
Paul M. Christensen, Newington, and Richard P. Ballou, West Hartford, Conn., assignors to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 4, 1941, Serial No. 373,186
17 Claims. (Cl. 175—336)

1. In an electro-magnet, a housing therefor including opposite walls, a core stationarily mounted in the housing, a coil to energize the core, an armature, a reciprocable U-shaped carrier for the armature connected thereto and having its opposite arms extending along and adjacent to said opposite walls of the housing, the opposed surfaces of said opposite walls and arms respectively having juxtaposed longitudinal recesses therein, and anti-friction elements in and between pairs of said juxtaposed recesses to provide guide means for said U-shaped carrier and armature in their reciprocating movements and to prevent movement of said carrier and armature



in a direction transverse to said reciprocating movement.

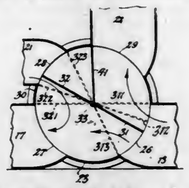
2,347,935
TIMING CONTROL SYSTEM
Cletus J. Collom, Detroit, Mich.
Application February 6, 1941, Serial No. 377,679
1 Claim. (Cl. 250—27)



In a control system for controlling flow of current from an alternating current source to a work circuit, a pair of reversely connected discharge devices each having an anode, a cathode and a starting element, a pair of firing transformers one individual to each device, each said transformer having a primary winding and a secondary winding, means electrically connecting each secondary winding between the associated starting element and the cathode, first and second valves individual respectively to said firing transformers and each having principal electrodes and a control electrode, control means, electrically connecting the principal electrodes of each valve and the primary winding of the corresponding firing transformer in series circuit relation to each other and in parallel branches of a circuit which includes said control means, and phase shift means individual to each said control electrode for applying a conducting potential thereto at a predetermined time in relation to the pulsations of said source.

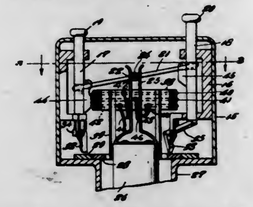
2,347,936
CONTROLLING DEVICE FOR DRYING APPARATUS
George G. Crewson, Buffalo, N. Y.
Application April 23, 1941, Serial No. 389,875
3 Claims. (Cl. 34—219)

1. A controlling device for drying apparatus comprising a casing having a cylindrical wall provided with a fresh air inlet, an outlet to a heating chamber, an inlet from a drying chamber and a spent air outlet arranged in a circumferential row in the order named, said fresh air inlet and the inlet from the drying chamber being of different widths circumferentially, and said fresh air inlet being spaced circumferentially by a dwell area from the outlet to the heating chamber which equals the difference in widths



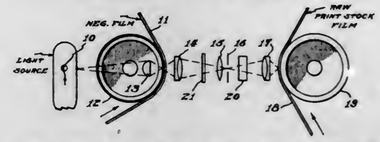
between said fresh air inlet and the inlet from the drying chamber, a rotary valve pivoted centrally in said casing to turn about the axis thereof and having a part on one side of its axis movable across said fresh air inlet and dwell area and a part on the opposite side of its axis movable across said inlet from the drying chamber, and a baffle extending from said wall between the fresh air inlet and spent air outlet to the axis of said valve.

2,347,937
VEHICLE SIGNAL
Sidney E. Cross, San Antonio, Tex.
Application October 24, 1941, Serial No. 416,402
7 Claims. (Cl. 200—59)



1. A manually operable switch for controlling a pair of circuits of a vehicle signaling system, said switch comprising a pair of reciprocating contacts adapted to be carried by a vehicle steering wheel for rotation therewith, stationary conductor rings in said circuits for engagement by the contacts upon opposite movement thereof, and a stationary member engaging the contacts upon a predetermined movement of the steering wheel to move the contacts in one direction.

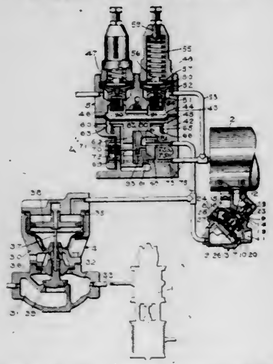
2,347,938
SOUND FILM PRINTER
Glenn L. Dimmick, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1940, Serial No. 320,239
4 Claims. (Cl. 88—24)



1. A printer for sound films including means for locating and illuminating a sound record film, means for locating raw film stock, and means

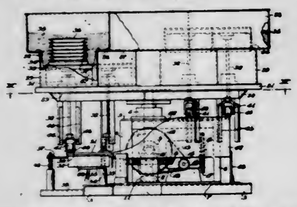
for imaging the sound record film on the film stock comprising a single plane parallel birefringent crystal disposed in the path of the imaging ray for producing on said film stock a plurality of substantially superposed images of the sound record which are of equal intensity and are slightly displaced laterally with respect to one another.

2,347,939
GOVERNOR AND DRAIN VALVE CONTROL APPARATUS
Sidney G. Down, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 28, 1942, Serial No. 456,462
3 Claims. (Cl. 303—88)



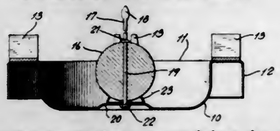
1. In a fluid pressure equipment including a compressor and a reservoir adapted to receive fluid compressed thereby, in combination, fluid pressure operated control means for starting and stopping said compressor, fluid pressure controlled drain valve means operative intermittently to eject from said reservoir any water condensed therein, and a governor-relay valve device comprising valve means controlling communication from said reservoir to both said control means and drain valve means, a spring, a movable abutment subject to the opposed pressures of said spring and of fluid in a chamber for actuating said valve means, and pilot valve means responsive to the pressure of fluid in said reservoir for controlling the fluid pressure in said chamber.

2,347,940
CHINAWARE SANDING MACHINE
Walter H. Emerson, East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va., a corporation of Delaware
Application January 11, 1943, Serial No. 471,924
23 Claims. (Cl. 259—72)



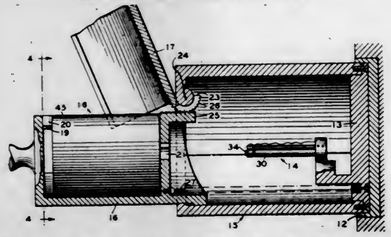
1. China ware sanding apparatus comprising an enclosure for a quantity of sand, a support for a bung of ware in the enclosure spaced from the side of the enclosure, means for moving the support vertically in the enclosure and sand whereby the bung is substantially buried in the sand and then raised therefrom, and means for vibrating the support in its lower position to pack some of the sand between the pieces of ware of the bung.

2,347,941
SMOKER'S DEVICE
Eric W. Eweson, New York, N. Y.
Application January 27, 1943, Serial No. 473,661
5 Claims. (Cl. 131—232)



1. A smoker's device comprising in combination, a tray, a spherical resilient pipe knocker inside said tray, a pipe cleaner surmounting said knocker, and a stem on said cleaner which secures the cleaner and the knocker to the base of the tray.

2,347,942
WATCHMAN'S TOUR SYSTEM
Paul M. Farmer, West Orange, and Dwight W. Bloser, Teaneck, N. J., and William J. Kleinknecht, Norwalk, Conn., assignors to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Application September 18, 1943, Serial No. 502,918
30 Claims. (Cl. 177—360)



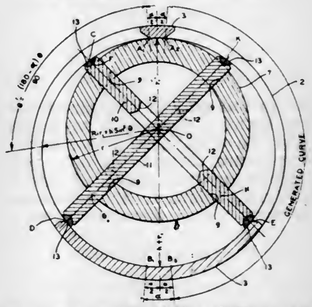
30. In a watchman's register, a lock adapted to be successively operated from one locked setting to another, each setting requiring an individual key to unlock the lock, and an operating device within the register energized by each individual key for advancing said lock to the next setting thereof.

2,347,943
WATCHMAN'S TOUR SYSTEM
Paul M. Farmer, West Orange, and Dwight W. Bloser, Teaneck, N. J., assignors to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Application September 18, 1943, Serial No. 502,919
18 Claims. (Cl. 177—360)



17. In a watchman's tour system, a plurality of stations divided into groups, one station of each group being a transmitting station, a register comprising a lock having a rotating cylinder therein which is rotatable by key operation at each station of each group, a station cylinder geared to the rotating cylinder and operated by the rotating cylinder and a series of guard pins controlled by the station cylinder, each of which prevents operation of a particular transmitting station until a predetermined group of stations has been operated.

2,347,944
ROTARY PUMP
Elbert Fowler, Elyria, Ohio
Application May 22, 1942, Serial No. 444,016
10 Claims. (Cl. 103—138)



1. In a rotary pump of the sliding vane type, a rotor, a pump body having a stator therein, said stator having an internal cross-section defined by two opposite concentric arcs of unequal radii, and vane extending and retracting curves joining adjacent ends of said arcs, said curves being generated curves determined by the equation:

$$R=r_1+h\ \sin^2\theta$$

wherein R is the distance from the center of the rotor to the point on the curve whose position is to be determined, r_1 is the radius of the rotor plus running clearance, h is the excess of the vane length over the rotor diameter, and θ is the angle determined from the equation

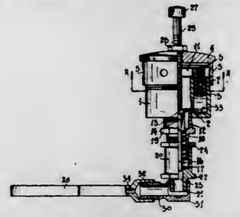
$$\theta'=\frac{(180-\alpha)\theta}{90}$$

wherein θ^1 is the angle between a line joining the center of the rotor and an end of the arc of smaller radius and a line joining the center of the rotor and the point on the curve whose position is to be determined, and α is the angle subtended by said arc.

2,347,945
TREATMENT OF HYDROCARBON MATERIALS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application June 16, 1941, Serial No. 398,361
11 Claims. (Cl. 260—683.4)

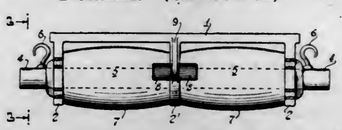
1. A process for treating hydrocarbon materials to remove organically combined fluorine therefrom, which comprises subjecting a hydrocarbon material containing a minor quantity of organically combined fluorine to the action of a solid, porous metal oxide catalytically active for hydrogenation and dehydrogenation reactions, at a reaction temperature and for a time such that extensive chemical changes in said hydrocarbon material itself are not effected and such that the total effluent from said treatment is essentially fluorine-free.

2,347,946
VALVE FOR FUEL SAVING DEVICES
Ramón Antonio Galipó and Francisco Salvatierra, Buenos Aires, Argentina
Application August 25, 1941, Serial No. 408,272
2 Claims. (Cl. 251—145)



1. In an air filtering device particularly adapted for use in connection with internal combustion engines, an air inlet chamber, an air outlet chamber, conduit means interconnecting said chambers and comprising a tubular member secured to said inlet chamber and a cylindrical member secured to said outlet chamber, means for adjustably interconnecting said tubular member and said cylindrical member, said conduit means including a valve for controlling the passage of air therethrough, said valve comprising a spring the tension of which is adjusted in accordance with the position of said cylindrical and tubular members, and means for limiting the extent of movement of said valve and comprising a bolt adjustably mounted on said inlet chamber and extending into close proximity to said valve.

2,347,947
DOLLY
Irvin Hamilton, Ridgewood, N. Y.
Application October 8, 1942, Serial No. 461,263
4 Claims. (Cl. 280—61)

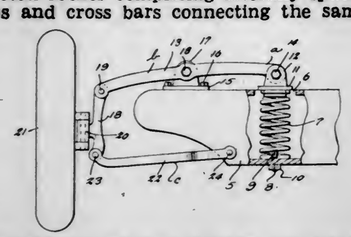


3. A conveying truck comprising a flat platform supported by three, spaced, parallel plates arranged perpendicularly to the plane of the platform, one of said plates being in the center of said platform and the other two plates being near the ends of said platform, a common shaft passing through all three of said plates, a pair of equal size rollers arranged end to end in closely adjacent manner and mounted on bearings on said shaft, said rollers being located on opposite sides of said central plate, each of said rollers being larger in the middle than at the ends, brackets fastened to opposite sides of said platform and to said center plate, and at least one anti-tilting roller of relatively small size supported by each bracket below said platform.

2,347,948
VEHICLE WHEEL SPRING SUPPORT
Raymond J. Hassett, Spokane, Wash., assignor of forty-nine per cent to Walter N. Kemp, Parkwater, Wash.
Application February 26, 1942, Serial No. 432,523
1 Claim. (Cl. 267—20)

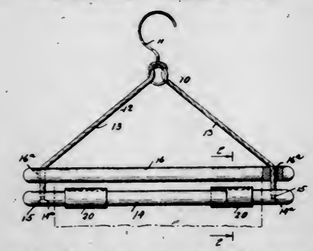
A spring support for a wheel comprising a wheel mounting including a pair of ears, a hollow frame structure having an opening in the top

thereof, a lower link comprising rigidly connected, laterally spaced side arms and straddling at opposite ends thereof said frame and one of said ears, said arms being pivotally connected to said frame and ear at said opposite ends thereof for vertical swinging movement, and an upper skeleton rocker comprising laterally spaced side arms and cross bars connecting the same, the



rocker side arms being pivotally connected midway of their ends on said frame for vertical swinging movement and at one end of the rocker straddling and being pivotally connected to the other ear, and a compression spring mounted inside said hollow frame in upstanding position and projecting upwardly out of said opening, said spring being pivotally connected to the other end of said rocker.

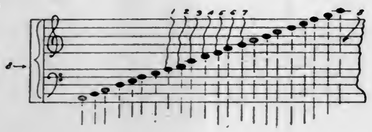
2,347,949
FOLDABLE AND SUSPENDABLE GARMENT HANGER OR THE LIKE
Herbert E. Hoffman, Brooklyn, N. Y.
Application December 12, 1941, Serial No. 422,642
3 Claims. (Cl. 223—91)



1. A self clamping garment hanger or rack comprising flexible suspension elements radiating relative a central apex in opposite directions, a rigid garment supporting member, means at the ends of said member for permanently fixing it to the bottom ends of said flexible elements, said member being located in the same vertical plane with said flexible elements, so that when said hanger is suspended and a garment is hung around said member said flexible elements will be tensioned, and a rigid clamping member having transversal bores at its ends slidably engaging said flexible elements, said clamping member being automatically urged by the vertical component of the forces acting between said tensioned elements and said clamping member into a clamping relationship with said garment supporting member.

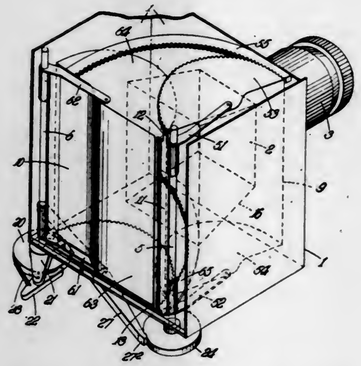
2,347,950
CHART FOR TEACHING PIANO
Emma E. Huish, Alton, Ill.
Application August 7, 1941, Serial No. 405,850
1 Claim. (Cl. 84—478)

Apparatus for learning and/or teaching the playing by note of an instrument of the type having a keyboard comprising the conventional black and white keys arranged in successive groups of consecutive keys the black keys projecting above the plane of the other keys, said apparatus comprising a flat plate consisting of an elongated relatively narrow web portion to rest upon the keyboard behind the black keys, and of a plurality of rectangular fingers projecting forwardly from



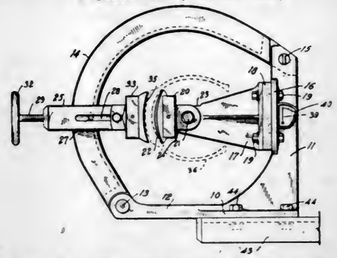
said web portion and in the plane thereof into the spaces between the black keys and adapted to lie upon the underlying white keys, said fingers being characterized by color designating means imparting pre-arranged distinguishing and identifying colors to the white keys, so as to enable their visual correlation with similarly colored notes on a separate sheet of music supported above the keyboard facing the players.

2,347,951
PHOTOGRAPHIC FOCAL PLANE SHUTTER
Douglas Gordon Hunter, London, England, assignor to The Houghton-Butcher Manufacturing Company, Limited, London, England, a British company
Application June 6, 1942, Serial No. 446,108
In Great Britain June 13, 1941
6 Claims. (Cl. 95—58)



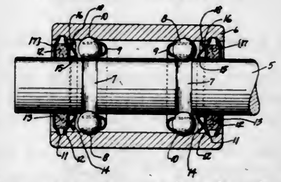
6. A focal plane shutter for a camera comprising in combination a housing formed with an exposure aperture in a wall thereof, a pair of carrier means pivoted in said housing, a pair of rigid plates each of large enough dimensions to cover said exposure aperture and each pivoted substantially centrally to one of said carrier means, gearing means for guiding said plates so that, during the pivotal movements of said carrier means, the one edge of one of said plates follows the adjacent edge of the other of said plates along a path substantially parallel to said exposure aperture and actuating means for moving said plates so that light may pass to said exposure aperture through the gap between said adjacent edges of said plates.

2,347,952
TIRE VULCANIZER
Harold V. James, Denver, Colo.
Application May 30, 1942, Serial No. 445,407
4 Claims. (Cl. 18—18)



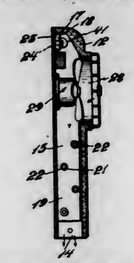
4. A tire vulcanizer comprising: a base member; an arm member projecting horizontally forward from said base member; a standard projecting vertically from said base member; an arcuately curved clamp arm pivoted on the forward extremity of the horizontal arm and extending upwardly and rearwardly therefrom and detachably connected with the upper extremity of said standard; a bracket member mounted on the forward face of said standard and extending forwardly within the arc of said clamp arm; a mold support pivoted on the forward extremity of said bracket member at the center of curvature of the clamp arm; a box surrounding said clamp arm and slidable therealong; a yoke about said box slidable thereon transversely of the clamp arm towards and away from the center of curvature of the clamp arm; an outer mold plate carried on the inner extremity of said yoke, said yoke member being formed with longitudinally extending slots; pins carried by said box and engaged in the slots to guide and limit sliding of the yoke relative to the box; and a screw rotatably carried by the outer extremity of said box and threaded through said yoke for moving said yoke member transversely of the arm towards and away from the center of curvature of said arm.

2,347,953
LUBRICANT SEAL
Morris Katcher, New York, N. Y.
Application December 13, 1941, Serial No. 422,787
3 Claims. (Cl. 286—5)



1. Sealing means for use in a bearing having a pair of members mounted in spaced relation to each other to have relative rotation with respect to each other, the space between the members holding lubricant, said sealing means preventing escape of lubricant from said space and comprising ring means contacting one of said members and extending across said space into closely adjacent relationship with the second of said members, and a sealing washer adjacent the ring means having a flange at one edge extending along the second member in a tight fit therewith and substantially at right angles to the ring means, the web of said washer extending from its flange at the side of the flange away from the ring means, across the space between the members into closely adjacent relationship with the first of said members, said web at its portion adjacent the flange inclining directly from the flange toward the ring means in an axial direction into closely adjacent relationship with the ring means and at its portion toward said first member extending into closely adjacent relationship and substantially parallel to the adjacent portion of the ring means.

2,347,954
AIR STERILIZING APPARATUS
Daniel J. Kiely, North Providence, R. I.
Application August 13, 1941, Serial No. 406,663
3 Claims. (Cl. 250—43)



1. An air sterilizing apparatus, comprising a cabinet having a chamber therein of greater width than depth and an inlet opening at the upper portion thereof and an outlet opening at the lower end extremity thereof, a plurality of elongated ultra-violet ray lamps in said chamber positioned at a location intermediate said openings and extending widthwise in said chamber and in staggered relation to each other, an impeller in said chamber and regulative means in said chamber for actuating said impeller to circulate a continuous stream of air about said lamps.

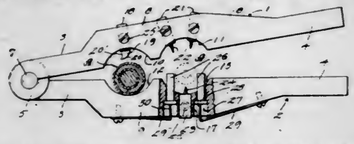
2,347,955
CATALYST AND METHOD FOR PREPARING THE SAME
Karl Korpi, Redondo Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application May 28, 1940, Serial No. 337,656
11 Claims. (Cl. 252—211)

1. A catalyst comprising the product of a mixture of a carrier and an acid containing a phosphate radical, said catalyst being prepared by adsorbing phosphoric acid on said carrier followed by neutralizing said phosphoric acid on said carrier with approximately one-sixth to two-thirds equivalents of a caustic alkali per mol of said acid.

2,347,956
CABLE SHEATH CUTTING AND STRIPPING TOOL
Earl P. Lansing, New Orleans, La.
Application February 6, 1943, Serial No. 475,057
4 Claims. (Cl. 30—91)

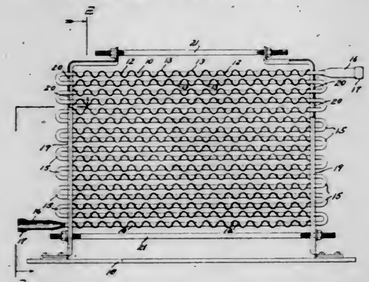
1. In a tool for use in cutting and stripping sheathing from electric cables, a pair of elongated companion members pivoted together at one of their ends, handles provided by the opposite end portions of said members, said members having recessed flat confronting faces for disposal in engagement with each other and the recesses providing cable receiving jaws, cutting

means adjustably mounted relative to the jaws for severing the cable sheathing, means for se-



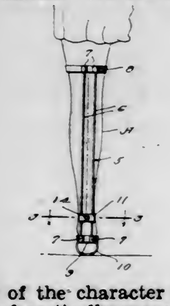
curing the cutting means in adjusted positions, and means for centering a cable relative to one of the recesses.

2,347,957
HEAT EXCHANGE UNIT
William E. McCullough, Detroit, Mich.
Application June 17, 1939, Serial No. 279,617
6 Claims. (Cl. 257—149)



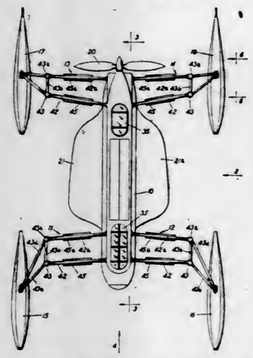
1. A heat exchange unit comprising a single length of extruded aluminum stock having a central flattened seamless tube section and two lateral fins thinner than the tube section and homogeneous therewith and extending from opposite sides of the tube section, the length of stock being bent into successive runs spaced from each other to form a unit adapted for air flow transverse to the runs, the outer edge of each fin being ruffled, the crests of the ruffles of adjacent runs being alined with each other and having their crests extending beyond the width of the tube section in a direction transverse to the normal line of the fin, parts of the stock being formed into simple bends, the lateral fins being removed at the bends, and the ends of the stock having the lateral fins removed.

2,347,958
ARTIFICIAL SEAM MARKER
Maud McGrew, Baltimore, Md.
Application March 17, 1943, Serial No. 479,522
6 Claims. (Cl. 33—21)



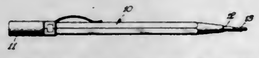
1. A marker of the character described comprising a pair of vertically spaced limb-embracing members, the said limb-embracing members being adapted to remain in place in vertically spaced relation on a limb, a guide member between the limb-embracing members and having its ends attached to said limb-embracing members, and a marker slidable on the guide.

2,347,959
WATER SPIDER
Virgil B. Moore and Stephen P. Tsoneff, Los Angeles, Calif., assignors to American Marine Engineering Corporation, a corporation of California
Application December 26, 1940, Serial No. 371,688
3 Claims. (Cl. 114—66.5)



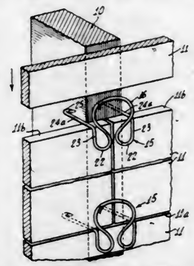
1. A water craft which includes: a body; a plurality of pontoons capable of supporting said body; jointed legs attaching said pontoons to said body to support the body above the water, each of said legs comprising a laterally extending normally horizontal member hinged at its inner end to said body for movement above and below its normal position, a vertically positioned member hinged to the outer end of said lateral member and extending downwardly therefrom, its lower end being hinged to one of said pontoons, thereby allowing vertical movement of said pontoon with substantially no horizontal movement thereof with respect to said body; and resilient means connecting said legs to said body to support the body in normal position.

2,347,960
DEVICE FOR DISPENSING MOLDED COMPOSITIONS
Harry E. Moxley, Los Angeles, Calif., assignor, by mesne assignments, to Hollywood Sales Corporation, Los Angeles, Calif., a corporation of California
Application June 13, 1939, Serial No. 278,881
6 Claims. (Cl. 132—88.7)



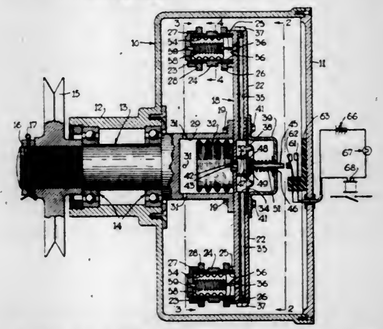
1. In a device for dispensing eyebrow compositions, lipstick or similar relatively soft wax-like compositions in molded form, the combination of: a holder; a stationary stiff hollow nozzle attached to said holder, and having an end face lying at an acute angle to the axis of said nozzle and holder, said nozzle being adapted to slidably receive, guide and support a molded wax-like composition rod adapted to be ejected through said hollow nozzle, the said end face being adapted to act as a guide in abrading the composition rod extending from the nozzle and beyond said face to shape said rod into truncated pointed form and means for restraining rotation of the composition within said nozzle.

2,347,961
MEANS FOR SECURING LATH TO STUDDING OR THE LIKE
Anders C. Olsen, Forest Hills, N. Y.
Continuation of application Serial No. 254,588, February 4, 1939. This application May 30, 1942, Serial No. 445,163
8 Claims. (Cl. 72—118)



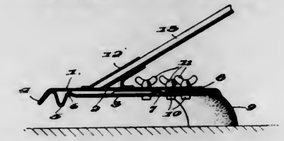
1. A clip for floatingly securing lathing panels to wood studding or the like, said clip comprising a pair of spaced arms having pronged hooks at the free ends thereof and an intermediate base portion connecting said arms, the arms lying substantially in a common plane intermediate opposite ends of the base portion, and the base portion lying in a plane at a right angle to the plane of said arms.

2,347,962
HYDRAULIC DECELEROMETER
Robert M. Oliver, Reno, Nev., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application March 17, 1942, Serial No. 435,115
8 Claims. (Cl. 264—1)



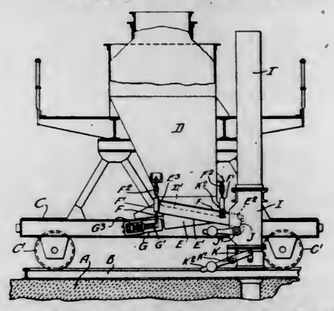
1. A device comprising a rotary member containing a supply of liquid of relatively high density, a resiliently expansible chamber carried by said rotary member and arranged in a manner to receive liquid from the rotary member so as to be expanded according to the degree of the centrifugal force exerted by the liquid upon rotation of the rotary member and effective to exert a reactionary force on the liquid, means for controlling the rate of return of liquid from said expansible chamber to said rotary member effected when the rotary member reduces in speed, said rate controlling means being such as to cause at least a predetermined force to be exerted on the liquid being returned to said rotary member corresponding to the instantaneous differential between the reactionary force of the expansible chamber and the centrifugal force of the liquid when the rate of displacement of liquid from said expansible chamber exceeds the rate at which said rate controlling means permits liquid to be returned to the rotary member, and pressure responsive means subject to the force exerted thereon by the liquid being returned to the rotary member and operatively responsive only to a force exceeding said certain predetermined differential force.

2,347,963
CLEANING AND SCRAPING IMPLEMENT
Peter John O'Neill, Pensacola, Fla., assignor of one-half to James W. Eley, Pensacola, Fla.
Application October 20, 1941, Serial No. 415,811
4 Claims. (Cl. 15—245)



1. A cleaning implement comprising an elongated head having spaced sides, a cleaner element bodily curved longitudinally from end to end thereof and having a concave under side with a lateral flange thereon interposed between the sides of the head, said last-mentioned sides embracing directly the opposite sides of said flange and abutting thereagainst, bolts extending through the sides of the head and through the flange with clamping action directly against opposite sides thereof and with said flange for securing the flange in place on the head, and a handle attached to said head at a point spaced from said bolts for manipulating the implement.

2,347,964
COKE OVEN CHARGING LORRY
Carl Otto, Manhasset, N. Y., assignor to Fuel Refining Corporation, Dover, Del., a corporation of Delaware
Application November 27, 1940, Serial No. 367,349
16 Claims. (Cl. 202—263)



1. A coal lorry for charging horizontal coke oven battery coking chambers each formed with a plurality of distributed top charging holes and comprising in combination a plurality of vibratory coal dischargers, one for each of said plurality of oven-charging holes and each including a generally horizontal discharge trough and an electric motor for subjecting said trough to

vibratory impulses and regulable to vary the coal discharge rate of the discharger, and coal hopper means supplying coal to each of said discharge troughs.

2,347,965
ART OF ELECTRON MICROSCOPY
Edward G. Ramberg, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application January 29, 1942, Serial No. 428,667
9 Claims. (Cl. 250—49.5)



1. In the art of electron microscopy, the method of utilizing an electron beam for the study of an electron-opaque surface, said method comprising making an electron-transparent positive replica of said opaque surface and thereafter subjecting said transparent positive replica to said electron beam whereby to produce an electron image of said replica.

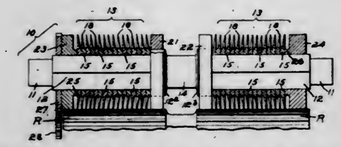
2,347,966
SOFTENING RUBBER
Richard O. Roblin, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 30, 1941, Serial No. 391.095
6 Claims. (Cl. 260—761)

1. A process of increasing the plasticity of rubber which comprises, subjecting unvulcanized rubber to the action of a small amount of an isothiourea compound of the following general formula:

$$R{-}S{-}C(=NH,R'COOH){=}NH$$

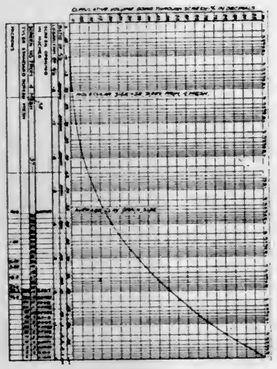
in which R is a radical selected from the group consisting of alkyl radicals containing at least 3 carbon atoms and aromatic substituted alkyl radicals and R'COOH is a fatty acid containing at least 10 carbon atoms, for a time sufficient to effect an increase in plasticity of the rubber over that which the rubber would have if subjected to the same conditions in the absence of said compound.

2,347,967
TEXTILE DRAFTING DEVICE
Thomas Peter Rooney, Fall River, Mass.
Application September 15, 1941, Serial No. 410,840
5 Claims. (Cl. 19—142)



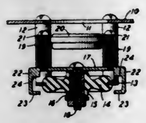
1. For use in a roll frame for the preparation of fibrous yarns, threads and the like for textile purposes, an upper rear fibre-parallelizing and drafting roll comprising a spindle providing a core and having end bearings, the spindle presenting a circumferential fibre-engaging portion between the bearings, said fibre-engaging portion composed of a multiplicity of concentric annular rows of radially pointed teeth, the teeth individually tapering both radially and axially of the roll and each having its leading edge inclined rearwardly away from the direction of roll rotation, each tooth being of a radial extent at least about one-third of the roll radius, the tooth rows being regularly spaced axially of the roll, with the teeth of each row evenly distributed along a given circumference common to all rows and with adjacent rows having their teeth relatively offset angularly, retaining collars at the ends of the multiplicity of tooth rows, and concentric means at the bases of the teeth of each row for supporting them on the spindle core and axially spacing the adjacent rows.

2,347,968
METHOD OF MAKING MAGNESIAN REFRACTORIES
Donald W. Ross, Hyattsville, Md.
Application April 16, 1943, Serial No. 483,279
17 Claims. (Cl. 25—157)



1. The method of making a magnesian refractory, which comprises mixing with a composition that is mainly of magnesia, magnesium ammonium fluoride in quantity only sufficient to form a bond and perform a bonding function, forming a body from the mixture and firing the same to a point at which it becomes bonded.

2,347,969
CUSHION MOUNTING
Harry C. Rubly, Millburn, and Clarence H. Young, Lincoln Park, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 16, 1942, Serial No. 447,294
10 Claims. (Cl. 248—358)

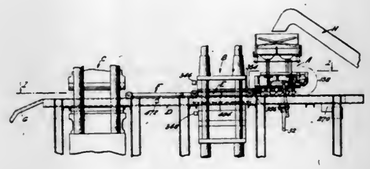


1. A cushion mounting for an electron discharge device comprising a base plate, a resilient damping member having a metallic rim bonded therein, means rigidly securing said rim to said plate, a platform rigidly attached to said member, and a socket adapted to receive said device mounted between said plate and said platform and supported by said platform.

2,347,970
POLYCARBOXYLIC ACIDS AND ANHYDRIDES DERIVED FROM POLYMERS OF ACYCLIC TERPENES AND METHOD FOR THEIR PRODUCTION
Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1941, Serial No. 396,223
17 Claims. (Cl. 260—78)

1. The product of the reaction of a polymer of an acyclic terpene having three double bonds per molecule and a material selected from the group consisting of the α,β-unsaturated organic acids and acid anhydrides, which material contains less than 7 carbon atoms per molecule, said reaction being carried out at a temperature within the range of from about 150° C. to about 300° C.

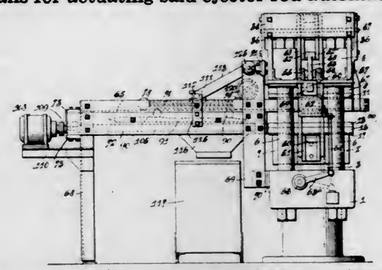
2,347,971
APPARATUS FOR MEASURING, PREFORMING, AND MOLDING PLASTICS
Gordon B. Sayre, Boonton, N. J., assignor to Boonton Molding Company, Boonton, N. J., a corporation of New Jersey
Application May 10, 1939, Serial No. 272,769
36 Claims. (Cl. 18—5)



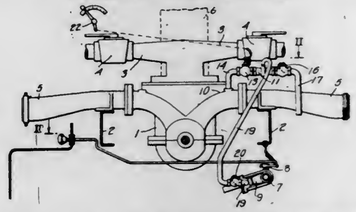
3. Apparatus for making pills out of powdered thermosetting molding material, said apparatus comprising a powder measurer having a powder box, a plurality of rows of powder measuring devices disposed closely adjacent one another at the bottom of the powder box and arranged to measure the powder by bulk, means associated with each of said devices for individual independent adjustment of the amount of powder measured thereby, a vibrator attached to the powder box for vibrating the box and measuring devices, a pill press having a plurality of rows of pill cavities, each of said pill cavities corresponding to one of the powder measuring devices, and a powder carrier movable between the powder measurer and the press to transfer the powder measured by said devices to their mating cavities.

2,347,972
BUTTON MOLDING APPARATUS
Alexander A. Scott, Jr., and Hart H. McNaughton, Knoxville, Tenn., assignors to The Patent Button Company of Tennessee, Knoxville, Tenn., a corporation of Tennessee
Application January 7, 1941, Serial No. 373,506
27 Claims. (Cl. 18—16)

7. In article molding apparatus, the combination of coacting separable mold parts adapted to mold an article therebetween, one of the mold parts being constructed to retain the article therein after separation and having an opening therein, an ejector rod arranged to be projected through said opening to remove the molded article from said mold part, a receiving device, means for moving said receiving device into a receiving position adjacent said mold part, and means for actuating said ejector rod automatically in response to movement of the receiving device into said receiving position.

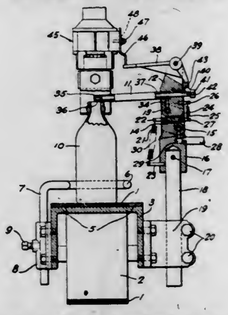


2,347,973
PUMP PRIMING SYSTEM
Allan G. Sheppard, Elmira, N. Y., assignor to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York
Application March 2, 1942, Serial No. 433,089
7 Claims. (Cl. 103—113)



1. In a pump priming system having a pump and a suction source for priming the pump and a priming line for transmitting suction from the source to the pump including a water ejector having its entry connected with the pump, its recovery with an escape outlet and its throat with said source, and means for preventing inward flow through said outlet.

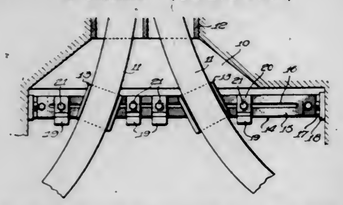
2,347,974
APPARATUS FOR INTRODUCING FLUIDS INTO CONTAINERS
Algy J. Smith, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application November 4, 1940, Serial No. 364,183
11 Claims. (Cl. 226—99)



1. Apparatus for introducing a fluid into the interior of a container, comprising means for moving a container substantially horizontally to a predetermined position, means located adjacent

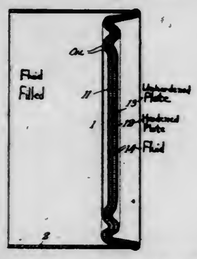
to said predetermined position for supplying a fluid to the interior of a container through the open upper end thereof while it is at said position, means for supporting the last-named means in a position with a portion at least thereof above said container while at said predetermined position, means for moving said container from said predetermined position to a delivery point in a path having an initial portion substantially vertical, so that said container is moved from said predetermined position in a substantially vertical direction, and means mounting said fluid supplying means so that it may be moved upon the vertical movement of said container to permit such vertical movement.

2,347,975
INSULATOR
Allen C. Stephens, Washington, D. C., assignor to Utilities Service Company, Inc., Allentown, Pa., a corporation of Pennsylvania
Application September 3, 1941, Serial No. 409,405
4 Claims. (Cl. 174—161)



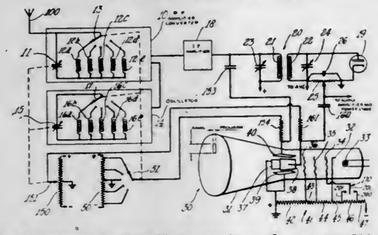
1. A cable-supporting insulator having an integral body provided with a cable-receiving groove extending across its upper face and having a bottom face adapted to rest on one face of a support, said body being provided with depending flanges adapted to be arranged on opposite sides of said support, said flanges having inner faces diverging throughout their lengths from a point intermediate the length of said body, said body on the bottom face thereof being provided with a depending lug for reception in a slot formed in the support, said lug being of a size and shape relative to said slot whereby said insulator is movable relative to said support in a plane parallel to the face of the support on which said insulator rests.

2,347,976
EXPANSIBLE TANK FOR ELECTRICAL CONDENSERS
Carl Åke Trapp and Bror Hansson, Stockholm, Sweden, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application February 15, 1941, Serial No. 379,032
In Sweden August 8, 1940
6 Claims. (Cl. 174—12)



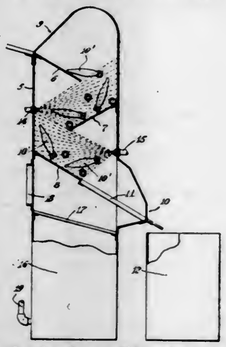
1. In an electrical condenser, a tank adapted to be filled with an insulating fluid subject to change in volume upon change in temperature, said tank including a side wall, the improvement which comprises a flexible end wall means having the inner side thereof exposed to the interior of said tank and the outer side thereof exposed to the atmosphere, said end wall means including a plurality of flexible plates having their edges affixed to one another and to said side wall, their central portions being respectively spaced from one another.

2,347,977
RADIO RECEIVER
Loisius J. A. van Lieshout, Larchmont, N. Y., assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 25, 1942, Serial No. 444,408
9 Claims. (Cl. 250—20)



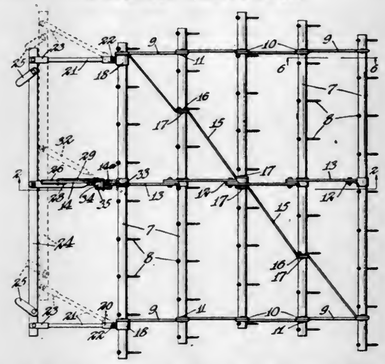
1. A visual indicating system for a multi-band radio receiver, comprising a cathode-ray tube having a fluorescent screen, and electron beam producing elements, means to deflect the electron beam along one axis of the fluorescent screen in incremental steps corresponding to the tuning bands of the radio receiver and means to deflect the electron beam along an axis perpendicular to said first axis in an amount corresponding to the tuning frequency of the radio receiver, said first means being actuated simultaneously with means to change the tuning band of the receiver and said second means being actuated simultaneously with means to tune the radio receiver through its frequency bands.

2,347,978
PROCESS FOR CONDITIONING YARN ON BOBBINS, ETC.
Vasser Woolley, Atlanta, Ga., assignor to Seydel-Woolley & Company, Atlanta, Ga., a copartnership
Application March 17, 1941, Serial No. 383,885
3 Claims. (Cl. 8—155)



1. The method of conditioning yarn on spools or the like which consists in feeding the spools to a housing, permitting said spools to fall downwardly by gravity along a circuitous path over and between inclined spaced perforated plates whereby for portions of their travel said spools fall free of said plates and subjecting said spools to a continuous spray during their movement along, over and between said plates to saturate thoroughly the yarn on said spools.

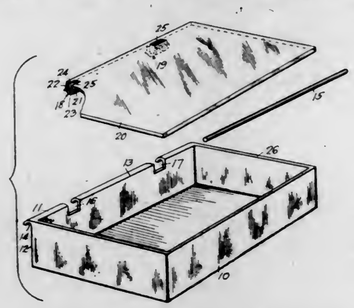
2,347,979
FLEXIBLE ADJUSTABLE LEVER DRAG HARROW
Vincent Antal, Owatonna, Minn.
Application November 4, 1942, Serial No. 464,460
2 Claims. (Cl. 55—103)



2. A flexible, adjustable drag harrow comprising, a plurality of spaced, toothed bars, links interconnecting adjacent bars and pivotally connected to each other, said bars being rotatable relative to said links and being vertically swingable relative to each other, a draft bar in forwardly spaced relation with the foremost of said plurality of bars and connected to the foremost of said plurality of bars for lateral shifting movement relative to said plurality of bars, an arm connected to said draft bar and extending rearwardly therefrom to a point adjacent the foremost of said plurality of bars, said arm having a rack formed on its rearward end, a lever connected to the foremost of said plurality of bars and to the foremost of said links, a spring pressed dog on said lever extending transversely of and engageable with said rack, and a keeper for said dog comprising a pair of spaced concavo-convex plates having their convex sides facing each other.

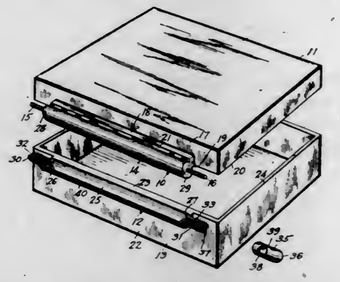
2,347,980
HINGE FOR MOLDED CONTAINERS
Huna L. Apfelbaum, Brooklyn, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application March 27, 1942, Serial No. 436,387
3 Claims. (Cl. 220—31)

1. In a molded hinged box, a container part open at its top and having a rear wall, a rearwardly extending flange projecting from the top edge of the rear wall, the front portion of the upper surface of the flange being flat and coplanar with said top edge and the rear portion of said surface extending downwardly and rearwardly, said flange and said rear wall being correspondingly interrupted at spaced intervals to provide transverse spaces therein, the lower surface of the flange being arcuate to form the wall of a recess therein open at the bottom, a cover in the form of a flat plate of uniform thickness terminating in a rear edge in substantially vertical alignment with the rear edge of the flange when the cover is closed and rests on the top of the container part and on the upper surface of the flange, a plurality of hinge parts projecting from the under surface of the cover and forwardly of the rear edge thereof, each of said hinge parts having a front wall, and a rear wall coplanar with



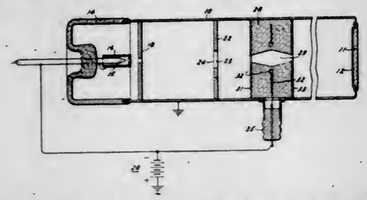
the rear edge of the cover, and having a bottom wall joining the front and rear walls and forming a recess therebetween open at the top and extending through the cover, said hinge parts being arranged in the spaces of the aforesaid flange and of the rear wall of the container part, and an elongated hinge pin arranged in the recesses and serving as the pivot for the cover.

2,347,981
MOLDED HINGE
Huna L. Apfelbaum, Brooklyn, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application March 27, 1942, Serial No. 436,388
10 Claims. (Cl. 220—31)



1. In a molded container, a molded cover, a male hinge member molded integrally with the rear part of the cover and having a central cylindrical portion and end cylindrical portions of lesser diameter than the central portion, a container part having a rear female hinge member molded integrally therewith and provided with a central recess receiving the central cylindrical portion of the male member and with end recessed projections receiving the end reduced cylindrical portions of the male member, and a cap frictionally fitted over each of the end projections of the female member and provided with means for engaging the reduced cylindrical portions of the male member for preventing lifting of said projections on the relative rotation of the cover and the container part.

2,347,982
ELECTRON LENS
Charles H. Bachman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application December 31, 1941, Serial No. 425,143
11 Claims. (Cl. 250—49.5)

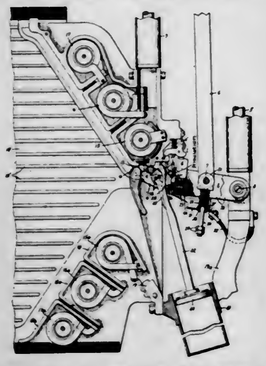


1. Method of adjusting the focus of an electron beam in an electron microscope having a signal output circuit through which signal currents containing high frequency components flow, said method comprising detecting the presence of high frequency components in said output circuit and then altering the effective diameter of said beam until the highest obtainable frequency components appear in the signal output current in said circuit.

2,347,983
SOLVENT COMPOSITION
William J. Backoff and Norman D. Williams, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application March 14, 1941, Serial No. 383,352
11 Claims. (Cl. 252—170)

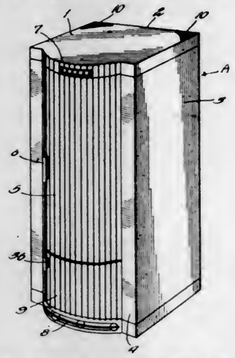
11. A solvent for removing carbonaceous deposits from internal combustion engines comprising cresol in such quantity as to impart to the solvent escharotic action on the skin and dibutyl phthalate in which the ratio of cresol to dibutyl phthalate is 67 to 50 parts by volume of the former to from 33 to 50 parts by volume of the latter.

2,347,984
ELECTRIC CIRCUIT BREAKER
Ralph J. Baskerville, Merwood Park, Pa., assignor to General Electric Company, a corporation of New York
Application April 17, 1943, Serial No. 483,414
5 Claims. (Cl. 200—148)



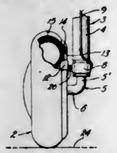
1. An electric air circuit breaker comprising contacts separable to form an arc gap, said contacts including a movable contact structure having a pivoted arcing contact, a pneumatic device operatively connected to said pivoted contact for directing an arc extinguishing jet of air across said arc gap in accordance with separation of said contacts, and means for pivotally connecting said device to said pivoted arcing contact at a point offset with respect to the pivotal mounting thereof so that the direction of said air jet is maintained substantially uniformly across the arcing surface of said contact during separation of said contacts.

2,347,985
REFRIGERATOR
Charles G. Beersman, Evanston, Ill.
Application December 15, 1941, Serial No. 422,951
8 Claims. (Cl. 62—89)



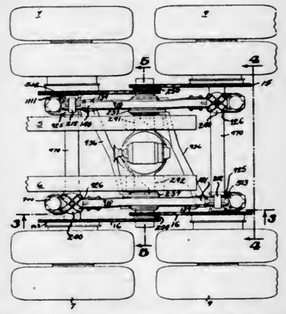
1. A refrigerator comprising a rectangular shaped cabinet, spaced inner and outer circular walls supported therein, a food storage compartment, circular shelves adapted to revolve within said compartment, an ice cube making compartment located beneath said storage compartment, a frozen food compartment located beneath said ice cube making compartment, said compartment also having circular shelves adapted to revolve therein, each of said compartments defined in part by said inner circular wall, a compressor compartment located beneath said aforementioned compartments, a vertical flue in each rear corner of said cabinet leading from the compressor compartment, a door for said compressor compartment and a vegetable bin supported upon said door and extending within said compressor compartment.

2,347,986
WHEEL STARTER
Martin Bowerman, Alhambra, Calif.
Application October 13, 1941, Serial No. 414,714
5 Claims. (Cl. 244—103)



1. A wheel starter for aircraft having an axle, a wheel therefor, and a support for said axle, said axle having one portion coaxial with said support and having an offset portion for the wheel, said support permitting said wheel to pivot substantially about the axis of said support; said starter comprising a motor having a friction drive, and means supporting said motor on said axle support in such position that said friction drive is engageable with said wheel when said wheel is pivoted about the axis of said axle support to one position and disengageable therefrom when pivoted to another position.

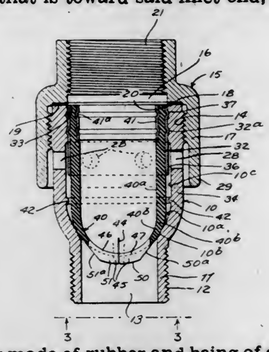
2,347,987
DUAL DRIVE AXLE
Andrew K. Brumbaugh, Palo Alto, Calif., assignor, by mesne assignments, to Knuckey Truck Company, San Francisco, Calif., a copartnership composed of W. A. Knuckey and A. K. Brumbaugh
Application September 9, 1941, Serial No. 410,145
15 Claims. (Cl. 180—22)



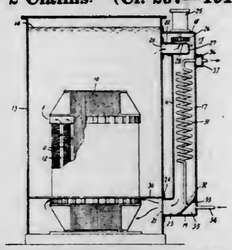
8. In a suspension system for a vehicle having a plurality of driving wheels tandem mounted on centrally pivoted side beams, the combination of fore and aft axle beams disposed normal to the center line of said vehicle beneath said side beams, individual wheel driving means operable through the central portion of each of said side beams, means for permitting rocking of said side beams in planes parallel to the vehicle centerline only without moving said axle beams out of normality to said centerline, comprising a housing fixed transversely to the chassis of said vehicle, journals formed thereon rockably to receive said side beams, a spherical and a semi-cylindrical engaging surface axially parallel to the vehicle centerline formed beneath opposite ends of each of said beams; a flat wear plate formed at one end of each of said axle beams, a semi-cylindrical wear plate formed at the opposite end in axial normality to each of said axle beams, said semi-cylindrical side beam and axle beam surfaces being arranged to mate, and said spherical side beam engaging surfaces being arranged for sliding and rolling contact with said flat axle beam wear plate; thrust plates rotatably mounted on said housing journals, a thrust member rigidly secured to one end of each of said side beams and extending diagonally across said chassis into rigid connection with the opposite one of said thrust plates, and means for transmitting longitudinal forces directly between said axle beams and the central portions of said side beams.

2,347,988
VALVE CONSTRUCTION
Ormonde J. Burke, New York, N. Y.
Application October 20, 1943, Serial No. 506,957
17 Claims. (Cl. 137—69)

3. A valve construction of the character described comprising a casing having an inlet end and an outlet end with a chamber therebetween, said chamber having therein means forming an air inlet and also means forming a succession of seats spaced between said air inlet and said outlet end, and a member within said chamber and in sealed connection therewith on that side of said air inlet that is toward said inlet end, said member being made of rubber and being of an extent to overlie said succession of seats, and said member being of different thicknesses to respond correspondingly differently to internal pressures to thereby effect seating thereof against said succession of seats sequentially.



2,347,989
ELECTRIC APPARATUS
Locke H. Burnham, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application December 28, 1942, Serial No. 470,341
2 Claims. (Cl. 257—191)

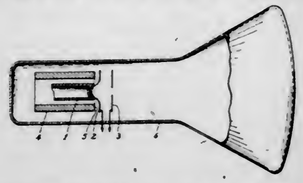


1. An electric induction apparatus including an enclosing casing, a dielectric fluid within said casing, a cooling unit, said casing and cooling unit having openings in substantial registery so that said fluid may circulate between said casing and cooling unit, passage means within said cooling unit through which a cooling fluid may pass, partition means integral with the walls of said cooling unit at one end to form a header for said passage means, and pump means mounted on said cooling unit for forcing said fluid from said casing through said unit and back to said casing, said cooling unit and pump means being removable as a unit from said casing.

2,347,990
ELECTRIC DISCHARGE TUBE
Frederik Coeterier, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application February 12, 1942, Serial No. 430,602
In the Netherlands July 3, 1940
5 Claims. (Cl. 250—161)

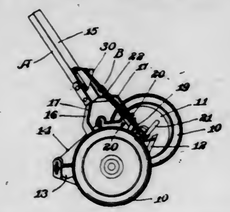
1. An electron discharge tube comprising a target adapted to receive electrons, a cathode having a concave surface with respect to said

target to emit electrons, means adjacent said target to develop an electrostatic field having lines of force extending in a direction substantially normal to elemental areas of said concave cathode surface, and a tubular ferro-magnetic



body surrounding said cathode with its end near said cathode surface to develop a magnetic field having over said cathode surface lines of force substantially coincident with the lines of force of said electrostatic field.

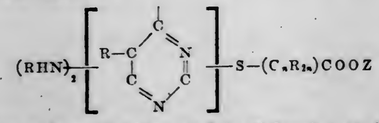
2,347,991
LAWN MOWER APPLIANCE
Howard B. Cummings, St. Paul Park, Minn.
Application August 28, 1941, Serial No. 408,574
2 Claims. (Cl. 56—249)



1. An appliance for a lawn mower including a frame, a cross member on the frame, and a handle pivotally secured to the frame; said appliance comprising a plate secured to said handle to lie on a plane substantially normal to the cross member, said plate being substantially triangular in shape and having on its edge a series of notches spaced from said handle varying amounts and spaced from said cross member varying amounts, a loop straddling said plate and engageable in any of said notches, and spring means connected to said loop and to said cross member.

2,347,992
DIAZINYL CARBOXY-ALKYL SULPHIDES AND SALTS THEREOF
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application December 18, 1941, Serial No. 423,564
16 Claims. (Cl. 260—251)

1. Chemical compounds corresponding to the general formula



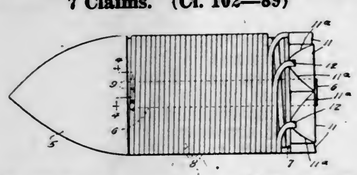
where n is an integer and is at least 1 and not more than 2, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and Z represents a member of the class consisting of hydrogen, the ammonium radical and alkali metals.

2,347,993
ELECTRIC HEATER
Loretta M. Daly, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 11, 1943, Serial No. 471,940
3 Claims. (Cl. 201—67)



1. In an electric heating unit comprising a sheath, compacted granular insulating material within said sheath, a resistance conductor embedded in and supported in said insulating material, and a terminal for said resistance conductor also embedded in and supported by said insulating material, means for supporting said terminal within said sheath while said insulating material is inserted in the sheath and compacted comprising an insulating spacing member threaded on said terminal, and resilient members on opposite sides of said spacing member frictionally engaging said terminal to prevent displacement of said member with reference to said terminal.

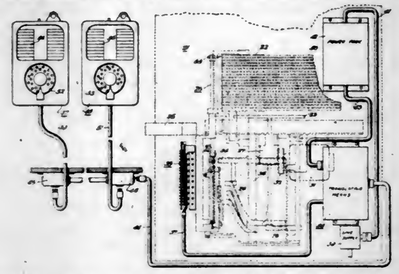
2,347,994
PARACHUTE AND AIRCRAFT PROJECTILE
Alfred J. De Camp, Molina, Colo.
Application September 24, 1941, Serial No. 412,187
7 Claims. (Cl. 102—89)



1. A projectile comprising a body peripherally exposed to directly engage the rifling of a gun barrel, said body having a tapered nose and a central spool portion behind said nose, a plurality of cables connected at one end to said body and wound upon said spool portion, the outermost windings of said cables being exposed and constituting part of the periphery of the projectile, weights to which the outer ends of the wound cables are secured, and detachable connecting means between said weights and said body to free said weights when the projectile is in flight.

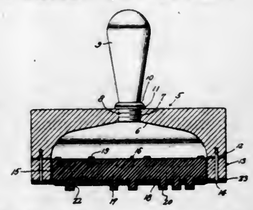
2,347,995
PHONOGRAPH
Lawrence E. Dettle, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application October 6, 1941, Serial No. 413,811
14 Claims. (Cl. 192—143)

1. In a selective multi-record phonograph including a reciprocable selector mechanism for phonograph records, a selector control mechanism comprising a plurality of independently movable stop members, spring means urging said stop members toward the path of operation of said selector mechanism, means normally retaining said stop members outside of said path, and electrically operated means for selectively rendering ineffective said retaining means to permit said spring means to project selected stop members



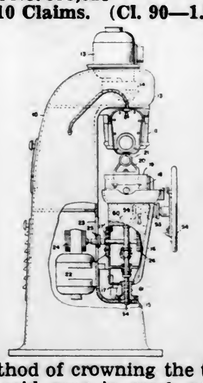
into said path of operation of said selector mechanism.

2,347,996
SELF-INKING STAMP
Raymond Doerrler, Chicago, Ill.
Application October 25, 1941, Serial No. 416,576
8 Claims. (Cl. 101—327)



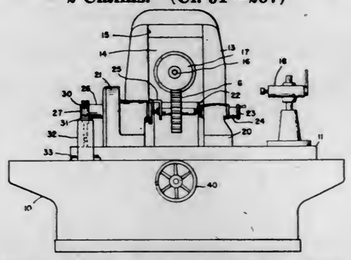
1. A self-inking stamp comprising a body formed with a fluid ink reservoir opening through its bottom, a holder removably secured to the bottom of said body, said holder being formed with an opening registered with the opening of the ink reservoir, a compressible material stamp body fitting in the opening in the holder and having printing shapes depending therefrom, absorbent fabric material underlying the bottom or printing surfaces of said stamp body, and wick means connected with said fabric material and extending through the opening of the holder to be saturated by fluid ink in said reservoir.

2,347,997
METHOD OF GEAR FINISHING
Robert S. Drummond, Detroit, Mich.
Original application December 12, 1938, Serial No. 245,324. Divided and this application June 3, 1940, Serial No. 338,613
10 Claims. (Cl. 90—1.6)



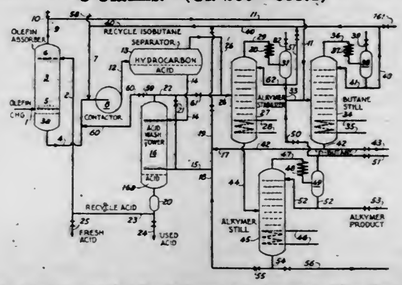
1. The method of crowning the teeth of a gear by rotating said gear in mesh at crossed axes with a gear-like tool, which comprises relatively translating said gear and tool in a direction to cause the tool to progressively contact the teeth of said gear from end to end, and gradually feeding said gear and tool toward each other as the contact between said gear and tool progresses from a mid-position on the teeth of said gear toward either end.

2,347,998
GEAR CROWNING
Robert S. Drummond, Detroit, Mich.
Application April 28, 1941, Serial No. 390,831
2 Claims. (Cl. 51—287)



1. The method of crown grinding a gear which comprises rotating a grinding wheel having a surface formed to correspond to a tooth surface of the gear, relatively moving the grinding wheel and the gear longitudinally of the latter to cause the grinding wheel to traverse a tooth space of the gear, and superimposing on this relative motion in timed relation thereto a crowning oscillation of the gear about the axis of the gear.

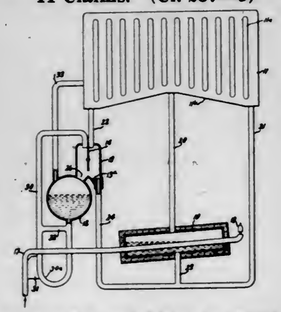
2,347,999
REACTION OF HYDROCARBONS
Laverne P. Elliott, Berkeley, and Lloyd F. Brooke, Berkeley Highland Terrace, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application December 2, 1940, Serial No. 368,134
3 Claims. (Cl. 260—683.4)



1. Process of alkylating an isoparaffin for the production of isoparaffins of higher molecular weight which comprises reacting an acid alkylation catalyst with an olefin and forming thereby an alkyl acid ester in a first zone under conditions regulated to favor said reaction and to suppress other possible reactions, withdrawing the resulting alkylated acid catalyst containing alkyl acid ester from said first zone, alkylating an isoparaffin with said alkylated acid catalyst in a second zone under conditions favorable to said alkylation whereby an isoparaffin of higher molecular weight is produced, and acid alkylation catalyst is liberated, effecting a substantial separation of hydrocarbon from said liberated acid alkylation cata-

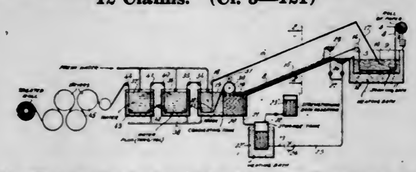
lyst, removing said separated acid to a washing zone, washing said acid alkylation catalyst in said washing zone with a liquid hydrocarbon comprising normal butane to substantially free it of light alkymer product contained therein, separating the liquid hydrocarbon wash from the washed acid alkylation catalyst, passing a portion of the separated hydrocarbon wash liquid to an alkymer stabilizer wherein alkymers and butanes are separated and returning at least a portion of the washed acid alkylation catalyst to the aforesaid first zone for realkylation.

2,348,000
HEAT TRANSFER SYSTEM
Marcus E. Fiene, Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application February 6, 1943, Serial No. 474,979
11 Claims. (Cl. 237—9)



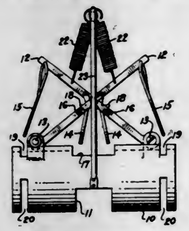
2. An automatic variable rate circulating fluid vaporizing and condensing heat transfer system including a vaporizer, a condenser, a condensate accumulating chamber, a condensate flow control chamber connected with said condenser to drain condensate therefrom and having a drain connection for supplying condensate to said vaporizer and a separate drain connection for supplying condensate to said accumulating chamber, condition responsive means having a pivoted flow directing vane in said control chamber rotatable oppositely from a predetermined position for selectively directing condensate respectively to said vaporizer drain connection and to said accumulating chamber drain connection, and means dependent upon the supply of heat to said vaporizer for returning condensate from said accumulating chamber to said control chamber to be selectively directed by said vane.

2,348,001
ACETYLATION OF CELLULOSE
Donald L. Gibson, West Chester, and William M. Shoemaker, Kennett Square, Pa., assignors to National Vulcanized Fibre Company, Wilmington, Del., a corporation of Delaware
Application October 24, 1941, Serial No. 416,376
12 Claims. (Cl. 8—121)



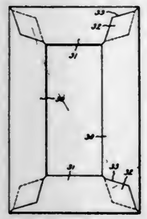
1. The method of acetylating cellulose material which comprises continuously advancing a web of the material, subjecting it successively to treatment with acetic acid, thereafter to an acetylating agent and finally to washing with water, maintaining the composition of the acetylating agent by adding fresh reagents thereto, and ensuring uniform treatment of the material by circulating the refreshed acetylating agent and directing it into contact with the non-acetylated increment of the advancing web.

2,348,002
TRAP FOR GOPHERS, RATS, AND SIMILAR RODENTS
Charles B. Glass, Benicia, Calif.
Application February 9, 1942, Serial No. 430,021
2 Claims. (Cl. 43—86)



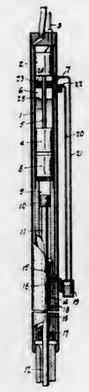
1. An animal trap comprising a tubular body section having a passageway therethrough, an upwardly extending yoke disposed intermediate the ends of the tubular body section, a pair of arms pivotally attached to opposite ends of the tubular body section, spring means carried by the yoke and operatively connected to the respective arms adjacent their free ends to normally urge said free ends of the arms upwardly from the body section, an aperture through the wall of the body section beneath said yoke, a trigger pivotally connected to each of the arms having a catch engageable with the inner edge of the body section as defined by the aperture therethrough and having a dependent portion extending into and partially blocking said passageway, a flexible noose carried by the free end of each of said arms, and upper and lower opposed slots in the body section adjacent each of its ends to receive the said nooses.

2,348,003
MAGNETIC CORE
John C. Granfield, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 28, 1941, Serial No. 376,304
11 Claims. (Cl. 175—356)



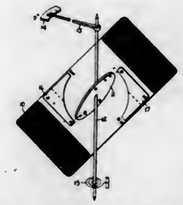
2. A rectangular magnetic core structure comprising a plurality of straight laminations punched lengthwise from a strip of magnetic material, the ends of said laminations being mitered along a broken line symmetrical on opposite sides of a perpendicular erected from the center of the diagonal, the adjacent lamination layers being oppositely arranged.

2,348,004
OIL WELL PUMPING UNIT
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 28, 1941, Serial No. 390,781
13 Claims. (Cl. 103—45)



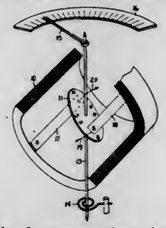
1. In a deep well pumping unit having a reciprocating hydraulic motor, a liquid reservoir for the storage of power oil with a liquid level which periodically rises and falls during the operation of the unit, a closed gas space above the liquid level in the reservoir in which gas is alternately increased and decreased in pressure by the rising and falling of the liquid level, a second closed gas space separated from the first by a check valve which opens when the gas pressure is greater in the second than in the first and closes when the pressure difference is reversed, a packing around the piston rod of the hydraulic motor to prevent leakage of power fluid from the hydraulic motor, a sump below the packing to collect any liquid which may leak past the packing, a passageway joining the first gas space to the upper portion of the sump, a check valve in the passageway to permit the flow of gas to the sump but not away from it, and a fluid passageway to return liquid collected in the sump to the second named gas space.

2,348,005
ELECTRICAL MEASURING INSTRUMENT
Stephen C. Hoare, Manchester, Mass., assignor to General Electric Company, a corporation of New York
Application December 11, 1942, Serial No. 468,672
6 Claims. (Cl. 171—95)



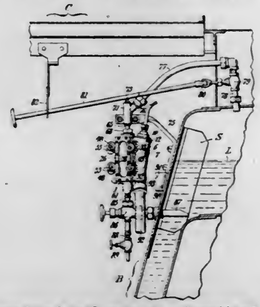
1. An electrical measuring instrument of the inclined coil type comprising an energizing coil, a rotatable shaft, and magnetic vane means on the shaft, said parts being arranged to operate on the inclined coil torque principle, and a stationary magnetic member within said coil and polarized by the flux thereof and positioned adjacent to the path of movement of the magnetic vane member for producing a torque of attraction thereon in the same direction as and in addition to the inclined coil torque.

2,348,006
ELECTRIC MEASURING INSTRUMENT
Ralph G. Arey, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application December 11, 1942, Serial No. 468,673
4 Claims. (Cl. 171—95)



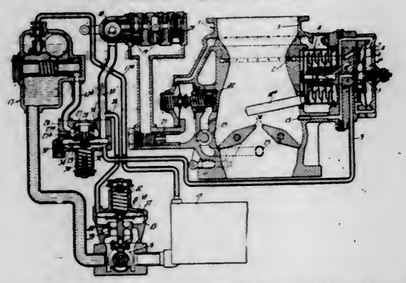
1. An electrical measuring instrument of the inclined coil type having a stationary coil, a shaft and a magnetic vane on said shaft, said shaft being inclined to the axis of said coil and the vane being inclined with respect to the shaft, whereby an inclined coil type of instrument torque is produced, a magnetic member in fixed position within the coil and extending adjacent the path of movement of the magnetic vane, the adjacent parts of vane and fixed member being polarized by the flux of the coil to produce an additional instrument torque which is in the same direction as the inclined coil torque.

2,348,007
WATER LEVEL GAUGE
Harry A. Hoke, Altoona, and Clarence J. Barley, Rosemont, Pa., assignors to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 10, 1942, Serial No. 465,128
7 Claims. (Cl. 73—293)



1. In a water level gauge, a vertical sight tube; a surrounding protective casing triangular in cross-section and having a side opening, in a front wall, a door for said opening having a transparent panel, a hinge structure loosely connecting one edge of the door to the casing, with capacity for limited play to insure full seating of the door against the edges of the opening and incorporating means for drawing up the door after closing, and releasable means on the casing for similarly drawing up the swinging edge of the door after closing for assurance of steam tightness all around.

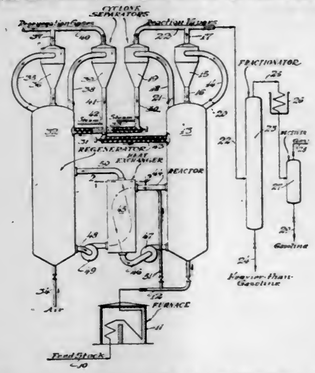
2,348,008
CARBURETOR
Scott F. Hunt, Meriden, Conn., assignor to Chandler-Evans Corporation, a corporation of Delaware
Application March 31, 1941, Serial No. 386,019
5 Claims. (Cl. 261—27)



1. In a fuel supply system for an internal combustion engine, in combination, a first conduit for conveying air for combustion purposes to said engine, means in said first conduit for producing two unequal pressures therein whose difference is a measure of the quantity of air flowing therethru, a fuel pump, a second conduit for conveying fuel from said pump to said engine, a metering restriction in said second conduit, first valve means in said second conduit downstream from said restriction for maintaining a minimum pressure therein, second valve means in said second conduit for controlling the pressure differential across said restriction, first diaphragm means for operating said second valve means in response to the difference of said two unequal pressures, by-pass valve means for controlling the flow of fuel from the outlet to the inlet of said pump, second diaphragm means for operating said by-pass valve means, a connection for transmitting the pump outlet pressure to one side of said second diaphragm means and a second connection for transmitting the pressure in said second conduit downstream from said second valve means to the other side of said second diaphragm means so that said by-pass valve means is operated to maintain a substantially constant pressure drop across said second valve means, spring means associated with each of said diaphragm means for biasing its associated valve means, and means for adjusting each of said spring means so as to control the magnitude of the pressure drop across said second valve means.

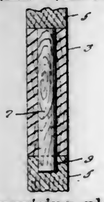
2,348,009
CATALYTIC CONVERSION PROCESS
Everett A. Johnson, Park Ridge, and Vanderveer Voorhees, Homewood, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application September 12, 1941, Serial No. 410,610
10 Claims. (Cl. 196—52)

7. In the process of converting hydrocarbon oils wherein the vapors of said oils are contacted at conversion temperature with a finely divided solid conversion catalyst in dense phase, fluid suspension in an enlarged vertically elongated upflowing reaction zone, under conditions of hindered settling, the catalyst is separated from the reaction products and regenerated by suspending in an oxidizing gas in an enlarged vertically elongated upflowing regeneration zone after which it is recovered and recycled to said reaction zone, the improvement comprising controlling the temperature of said reaction and regeneration zones by circulating hot fluid catalyst suspended in regeneration products from said regeneration zone and cooler fluid catalyst suspended in reaction products from said reac-



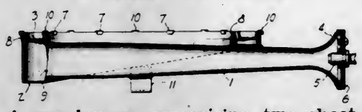
tion zone into indirect heat exchange relation with each other and back to the respective zones from which they were withdrawn and regulating amounts circulated to control the temperature in said zones.

2,348,010
BOAT
Eustathis Nick Klonaris, Morgan City, La.
Application October 10, 1942, Serial No. 461,582
1 Claim. (Cl. 20—91)



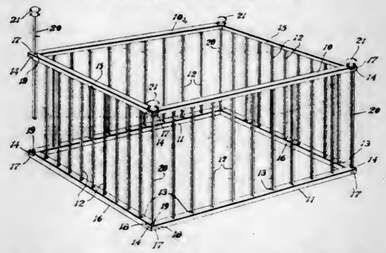
A boat hull comprising planks arranged with longitudinal edges abutting and with end butt joints to form alternate and intervening rows, and dowel pins fitted in and between the butt joints of the planks in each row coplanar with the planks and driven into planks in adjoining rows.

2,348,011
SHEET METAL GAS BURNER
Ernst R. Koppel, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 18, 1940, Serial No. 335,964
2 Claims. (Cl. 158—99)



2. A gas burner comprising two sheet metal channel members extending in a closed circle and disposed in nested relationship, the bottoms of the members being spaced apart in a manner to provide a gas distributing chamber of greater depth at one side than at the opposite side, a Venturi tube disposed to enter the side of the inner flange of the lower channel member at the maximum depth portion of the burner and at a point removed from the bottom of the channel, said Venturi tube extending across the bottom of the burner and lying wholly within the vertical extent of the burner to provide a compact unit for use in a confined area.

2,348,012
ENCLOSURE
Leslie E. Levi, Bronx, N. Y., assignor, by mesne assignments, to Ivel Corporation, New York, N. Y., a corporation of New York
Application September 8, 1943, Serial No. 501,540
3 Claims. (Cl. 256—25)

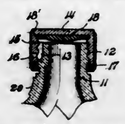


1. A play pen comprising a plurality of sections releasable at the corners thereof, each said section having tenon tongues at the top and bottom thereof at each end, all of the tongues at each corner of the pen having holes therein alined vertically, and a removable corner baluster insertable in and removable from the alined holes thereat.

2,348,013
DYESTUFFS OF THE ANTHRAQUINONE SERIES
Ralph N. Lulek, Wilmington, Del., and Edwin C. Buxbaum, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 24, 1940, Serial No. 358,102
10 Claims. (Cl. 260—367)

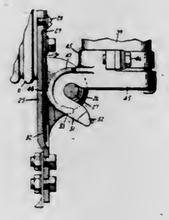
1. 1 - arylamino - 6 - (alpha - anthraquinonyl-amino) anthraquinones which carry in the 4' position a radical of the class consisting of the amino and the alkylamino radicals, their sulfonic acids and the alkali metal salts of said sulfonic acids, in which the sulfonic acid group is in the arylamino radical and in which the arylamino radical is of the benzene and naphthalene series.

2,348,014
COMBINED BOTTLE CLOSURE AND DISPENSER
Logan L. Mallard, Norfolk, Va.
Application May 6, 1943, Serial No. 485,904
11 Claims. (Cl. 215—43)



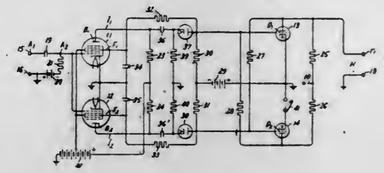
11. In combination, a container having an opening by means of which the contents of the bottle may be poured therefrom, a wall surrounding said opening and formed with a series of exterior screw threads having a channel formed therein, said channel communicated with said main opening over the top edge of said wall, and an interiorly threaded cap adapted to be screwed onto said wall and seat on the top edge thereof and close off said channel from communication with said main opening and at the same time close said latter opening, said cap being provided with a dispensing opening adapted to align with said channel when the cap is given a predetermined unscrewing movement.

2,348,015
ELECTRIC SWITCH
Virgil L. Mares, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York
Application May 20, 1941, Serial No. 394,312
10 Claims. (Cl. 200—114)



1. In an electric switch, a supporting structure having spaced terminals, a switching element disposed in a closed position between said terminals and pivoted adjacent one end on said structure so as to be swingable to an open position, a resilient member secured to said supporting structure for deformation relative thereto, a contact member for the pivoted end of said switching element engaging with and deforming said resilient member, and a member secured to the end of said switching element extending in opposed spaced relation to said resilient member so as to be engageable therewith as said switching element swings to the open position.

2,348,016
COUNTERCIRCUIT
Philip C. Michel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 13, 1941, Serial No. 419,034
7 Claims. (Cl. 250—27)



6. In combination, a pair of electronic switch discharge devices having anodes, cathodes and control electrodes, a two equilibrium mode circuit having alternative current paths with a control for shifting current conduction back and forth between said current paths, coupling means between the discharge devices and the two equilibrium mode circuit for shifting conduction in the latter in response to actuation of one or the other

of the discharge devices, coupling means between the current paths of the two equilibrium circuit and the respective control electrodes of the discharge devices for rendering one or the other of them responsive to input impulses whereby the application of successive impulses transfers conduction back and forth in the two equilibrium mode circuit to render only one or the other of the discharge devices responsive to the next applied impulse.

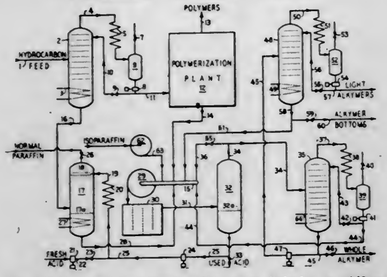
2,348,017

REACTION OF HYDROCARBONS

Otto N. Miller, El Segundo, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application October 13, 1939, Serial No. 299,289

7 Claims. (Cl. 260—683.4)



5. Process of manufacturing high antiknock motor fuel hydrocarbons from a mixture of relatively light hydrocarbons containing normal butane, isobutane, isobutene, 1-butene and 2-butene, which comprises separating normal butane and 2-butene from said mixture by fractional distillation, passing the remaining mixture containing isobutene, 1-butene and isobutane to a polymerizing zone wherein said remaining mixture is subjected to polymerizing conditions controlled to produce polymers and to minimize loss of isobutane, separating said polymers from the unpolymerized portion of said remaining mixture, absorbing 2-butene from normal butane in an excess of alkylation catalyst capable of absorbing said 2-butene and thereby forming an alkylated catalyst solution containing an excess of catalyst and separating therefrom normal butane, passing said unpolymerized portion of said remaining mixture and said alkylated catalyst solution containing an excess catalyst to an alkylation zone wherein isobutane is alkylated.

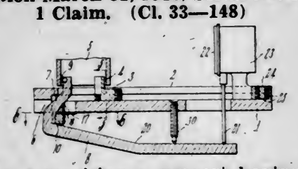
2,348,018

SIZE GAUGE

Willis F. Moore, Springfield, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont

Application March 31, 1942, Serial No. 436,935

1 Claim. (Cl. 33—148)



A gauge comprising a support having a way therein, a gauge element adjustable along said way, means for securing said element in fixed position, a lever fulcrumed on said support and having a pair of arms, a gauge element carried by one of said arms cooperating with said adjustable gauge element to gauge work, an indicator in operative engagement with the other arm of said lever, and a support for said indicator adjustably fixed in said way.

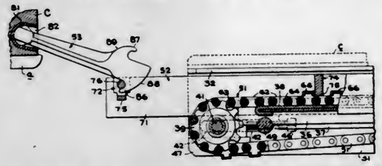
2,348,019

CONTAINER TRANSFER EQUIPMENT FOR VEHICLES

Ragnar A. Norbom, New York, N. Y., assignor to National Fitch Corporation, a corporation of Delaware

Application May 28, 1942, Serial No. 444,929

20 Claims. (Cl. 214—38)



1. In freight container transfer equipment for a vehicle, the combination comprising propelling means mounted on the vehicle and having a predetermined limit of reach, an elongated member adapted to be driven in a substantially longitudinal direction by said propelling means along a substantially rectilinear path at least one end of which is beyond the limit of reach of said propelling means, and a bar adapted adjacent one end thereof to be connected to a freight container and adapted adjacent the other end thereof to be detachably connected to said member adjacent either end thereof, connection of said bar to said member adjacent one end thereof being adapted to serve as a driving connection during a portion of a container transfer operation and connection of said bar to said member adjacent the other end thereof being adapted to serve as a driving connection during another portion of said container transfer operation.

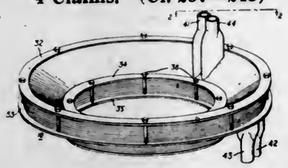
2,348,020

HEAT EXCHANGER

Rollin H. Norris, Schenectady, N Y., assignor to General Electric Company, a corporation of New York

Application April 17, 1941, Serial No. 389,023

4 Claims. (Cl. 257—245)



2. A heat exchanger comprising a plurality of duplicate annular members arranged in nested relationship, each of said members having an annular flange adjacent each marginal edge thereof, each of said members having means adjacent each marginal edge and co-operating with the adjacent member for spacing apart said members in order to provide a relatively thin and narrow fluid conducting channel, means for rendering said channel fluid-tight, means for maintaining said members in assembled relationship, each of said members having a pair of spaced apart ports, said members being assembled so that each member is displaced in a circumferential direction

the distance between said ports with respect to the adjacent members, a port in each member being aligned with a port in the adjacent member, sealing means disposed about one of said ports for isolating said one of said ports, the isolated port in one member being aligned with the non-isolated port in the adjacent member whereby two sets of series-connected fluid conveying channels are provided, a channel from either set being disposed between channels of the other set so that two fluids may be conducted through said heat exchanger in counter-flow.

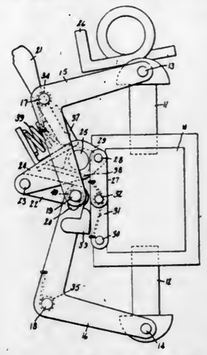
2,348,021

ELECTRIC SWITCH

John A. Oppel, Upper Darby Township, Delaware County, Pa., assignor to General Electric Company, a corporation of New York

Application April 22, 1943, Serial No. 483,978

9 Claims. (Cl. 200—103)



1. A switch comprising a switch member movable between open and closed circuit positions, operating means for said switch member, a linkage operating connection including two bell cranks operatively connecting said operating means with said switch member whereby said switch member is moved between open and closed circuit positions by said operating means, said linkage including a toggle having one end connected pivotally to be movable in accordance with the movements of said switch member and its other end mounted on a stationary pivot, and a second toggle having one end connected pivotally to said switch member for movement in accordance with the movements of said switch member and its other end mounted on a stationary, pivot, said toggles being arranged to be moved between made and broken positions upon movement of said switch member between its open and closed circuit positions and one of said toggles being in its made position in each of said switch member positions thereby to secure said switch member in said position.

2,348,022

DUAL CONTROL

Charles J. Owens, Baltimore, Md.

Application July 14, 1942, Serial No. 450,928

2 Claims. (Cl. 74—472)

1. In combination with an engine having a reversing lever and a control valve, a manually operated control comprising a rotative tube having a second lever attached to one end thereof, a grip pivotally mounted on said second lever for movement about an axis at right angles to the rotative axis of said tube, an arm fixed to said tube, an operating connection between said arm and said reversing lever to actuate the latter through swinging movement of the second lever, a rod inside said tube, a first bell crank connected with one end of said rod and having its other end operatively connected with said grip to impart longitudinal movement to the rod through pivotal movement of said grip relatively to said second lever, said rod having a swivel joint interposed therein, a second bell crank connected with the other end of said rod and having an operating connection with said valve to actuate the latter through longitudinal movement of said rod, said grip being movable to an engine stopping position, an engine idling position and a full speed position, and means acting on said second lever and said grip to restrain the latter from pivotal movement to its engine stopping position, said last mentioned means being provided with means accessible by the thumb of the hand grasping said grip to release the grip for pivotal movement to said engine stopping position.



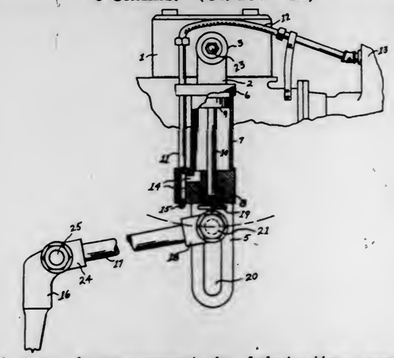
2,348,023

ACTUATING MEANS FOR LUBRICATING DEVICES

Eben Ray Packer, New Rochelle, N. Y., assignor to The Rails Company, New Haven, Conn., a corporation of Connecticut

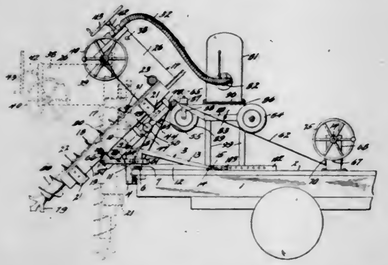
Application April 7, 1943, Serial No. 482,083

6 Claims. (Cl. 184—14)



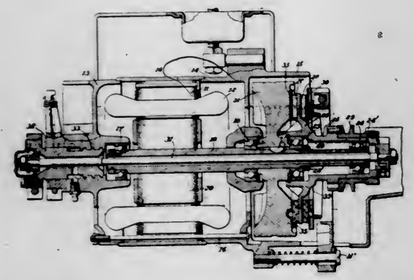
1. The improvement in lubricating systems for locomotives and the like employing a pressure feed lubricator actuated by an arcuately swinging arm adapted and arranged to be driven by a reciprocating member which improvement consists of fluid operated means comprising a cylinder and piston operatively mounted on said arm and arcuately swinging therewith, a fluid connection to said cylinder for operating said piston under fluid pressure responsive to the admission of steam to the driving cylinders of the locomotive, a rod connected to said piston extending lengthwise of said arm and pivotally connected to the reciprocating member so as to move said pivotal connection lengthwise of said arm when said piston is moved by the fluid pressure and thus vary the effective length of said arm and thereby the arcuate swing of said arm without variation in the stroke of the reciprocating member.

2,348,024
EARTH BORING APPARATUS
Alan Jay Parrish, Paris, Ill.
Application October 21, 1940, Serial No. 362,139
9 Claims. (Cl. 255—21)



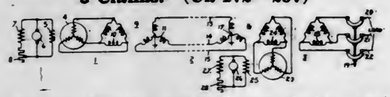
1. In combination with a mobile carrier having a substantially horizontal platform support, a machine base fixed to said support in overhanging relation at one side thereof, an earth boring machine comprising a channel guide support and a boring unit connected therewith for longitudinal movement in the channel support, means movable between a rear position on said base and a forward pivotal position for supporting said machine on said base for compound pivotal movement with respect to said base, whereby said machine can be adjusted for angular drilling operations, means including a manually operable feed mechanism for reciprocating said machine with respect to said base in drilling operations, and means for driving said machine, said driving means being so constructed and arranged as to be self adjustable in response to movements of the boring machine.

2,348,025
CLUTCH AND BRAKE MECHANISM
Wilbur J. Peets, Elizabeth, and John Roll, Union, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 19, 1941, Serial No. 389,286
1 Claim (Cl. 192—113)



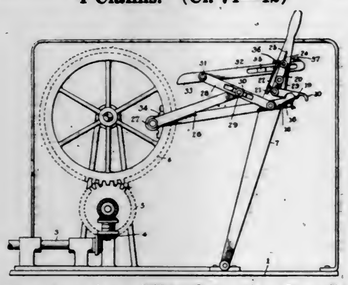
A friction element for a power transmitter comprising a ring of sheet metal, a smaller ring of non-metallic friction material adhesively secured to one face of said sheet metal ring with the periphery of said metal ring projecting beyond the periphery of said friction ring, said friction ring having in its exposed face a plurality of radially disposed slots extending only partially therethrough.

2,348,026
ELECTRIC POWER TRANSMISSION SYSTEM
Harold A. Peterson, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 28, 1942, Serial No. 444,861
8 Claims. (Cl. 172—237)



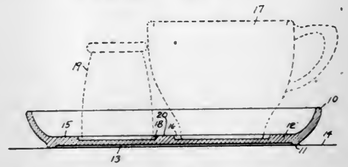
1. In an electric power transmission system, a source of alternating current, a receiving station comprising a transformer having a primary winding and a secondary winding, an electrically long transmission circuit interconnecting said source and said primary winding, a load circuit connected to be energized from said secondary winding, switching means for disconnecting said load circuit by causing interruption of the circuit between said load circuit and said secondary winding while said primary winding remains connected to said transmission circuit, said receiving station transformer exhibiting magnetic saturation at or above the rated terminal voltage of said system so that its inductance varies with current thereby causing at the primary winding of said receiving station transformer subharmonic and harmonic voltages of the fundamental frequency of said source and resulting in an overvoltage in addition to the inherent fundamental-frequency voltage rise of said transmission circuit upon light or no-load conditions of operation of said system, and an inductive reactance connected in parallel relation to said transmission circuit for preventing the production of a second harmonic in the voltage of said transformer and having an inductive reactive kilovolt-ampere rating at least 25 per cent in excess of the shunt inductive reactance required to prevent said inherent fundamental-frequency voltage rise.

2,348,027
MOTORLESS BOAT PROPELLER
Efstratios H. Phillas, New York, N. Y.
Application October 26, 1942, Serial No. 463,375
4 Claims. (Cl. 74—42)



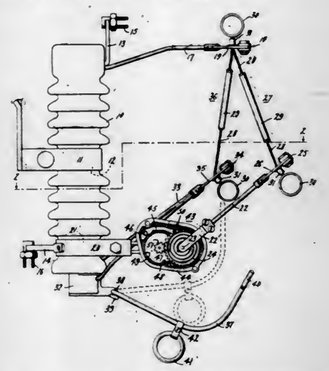
1. In apparatus of the character described having in combination with a support, a main driving gear wheel, a system of levers comprising a hand lever having one end pivotally upon said support, a main driving bar pivotally connected with said main driving gear and with said hand lever, the end of said bar extending to one side of the hand lever and having a half circular termination, an auxiliary bar having one edge recessed to engage detachably said termination of the driving bar, a spring connecting said driving bar termination and the auxiliary bar, releasable devices constructed to hold said spring under tension, a lever pivotally carried lengthwise by the hand lever and pivotally connected with said auxiliary recessed bar, side springs constructed and arranged to hold the said lengthwise lever in resiliently yielding position, and a plurality of co-acting additional levers pivotally and movably connected whereby one of said additional levers may be caused to exert pressure on said driving bar, said lengthwise lever having a projecting pin, and said pressure lever having a slot engaging said pin whereby said co-acting levers are actuated.

2,348,028
SAUCER
Albert Rasch, Portland, Oreg.
Application April 6, 1942, Serial No. 437,811
1 Claim (Cl. 65—15)



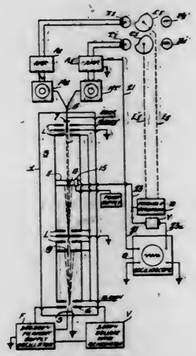
A combination of a creamer having its maximum diameter at its base, a cup having its minimum diameter at its base, a saucer having a flat bottom whose upper surface is flat, said flat surface having an outer rim and two circular recesses enclosed by said rim, said recesses lying along the diameter of said saucer, one of said recesses being adapted to receive the base of the cup and the other to receive the base of th creamer in a manner that the base of the creamer shall extend under a rim of the cup.

2,348,029
RECLOSING CIRCUIT-INTERRUPTING DEVICE
Sidney R. Smith, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 16, 1942, Serial No. 439,162
8 Claims. (Cl. 200—126)



1. In a reclosing circuit-interrupting device, the combination of an insulating supporting member, a pair of spaced line terminals fixedly mounted on said supporting member, a pair of conducting arms projecting outwardly from said supporting member each terminating in a fuse-link receiving means, each of said arms being connected to one of said line terminals, a first fuse link carried between said fuse-link receiving means, a third terminal adjacent to but spaced from one of said line terminals, a second fuse link electrically interconnecting said third terminal and one of said line terminals, a pivotally mounted switching member electrically connected to said third terminal, and means for causing the projecting arm connected to said one line terminal adjacent said third terminal to engage conductively with said pivotally mounted switching member upon blowing of said first fuse link to connect electrically said second fuse link between said line terminals, said pivotally mounted switching member being arranged so that replacement of said first fuse link without interrupting the circuit through said second fuse link until the current path through said first fuse link has been reestablished may be accomplished.

2,348,030
SCANNING TYPE OF ELECTRON MICROSCOPE
Richard L. Snyder, Jr., Glassboro, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1941, Serial No. 396,099
4 Claims. (Cl. 250—49.5)

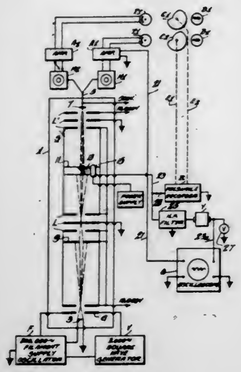


1. Method of adjusting the focus of an electron beam in an electron miscoscope having a signal output circuit through which signal currents containing high frequency components flow, said method comprising detecting the presence of high frequency components in said output circuit and then altering the effective diameter of said beam until the highest obtainable frequency components appear in the signal output current in said circuit.

2,348,031
METHOD OF FOCUSING ELECTRON MICROSCOPES
Jan A. Rajchman, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1942, Serial No. 441,167
4 Claims. (Cl. 250—49.5)

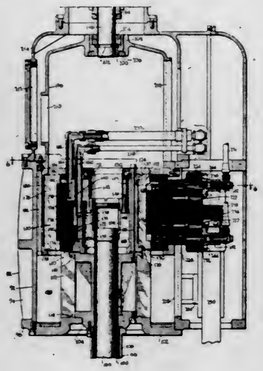
1. The method of adjusting the focus of an electron beam in an electron microscope having a signal output circuit in which the signal amplitude is a function of the electron image contrast including the steps of filtering said signals to pass only predetermined high frequency com-

ponents thereof, indicating the output level of said filtered signals, and altering the effective



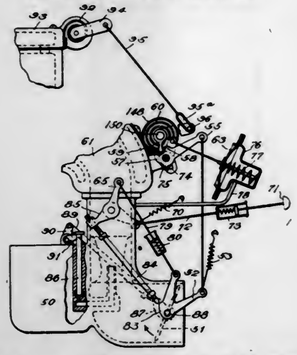
diameter of said beam until said indicated level is a maximum.

2,348,032
POWER MECHANISM FOR INDUCTION HEATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application May 10, 1941, Serial No. 392,867. Divided and this application May 25, 1942, Serial No. 444,345
3 Claims. (Cl. 171—119)



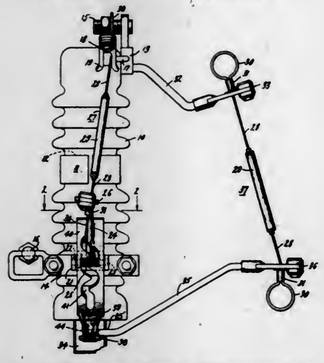
1. In a heat treating apparatus, a frame, a stationary annular support mounted on said frame, a sleeve secured to the inner edge of said support and extending upwardly therefrom, a transformer including a secondary supported on the upper end of said sleeve, a current conducting arbor comprising an outer arbor member mounted on the lower end of said sleeve and extending downwardly therefrom, an inner arbor member insulated from said outer member and extending upwardly through said sleeve to a point adjacent said secondary, means electrically connecting said inner arbor member to one side of said secondary, and means electrically connecting the other side of said secondary to said sleeve and through said sleeve to said outer arbor member.

2,348,033
FUEL MIXTURE CONTROL
Warren F. Stanton, Pawtucket, R. I., assignor, by mesne assignments, to American Car and Foundry Investment Corporation, New York, N. Y., a corporation of Delaware
Application March 19, 1932, Serial No. 600,038
34 Claims. (Cl. 123—119)



1. A mixture control for internal combustion engines having a carburetor with a choke valve, a throttle valve and an automatic mechanism for moving such valves actuated by engine-produced pressure.

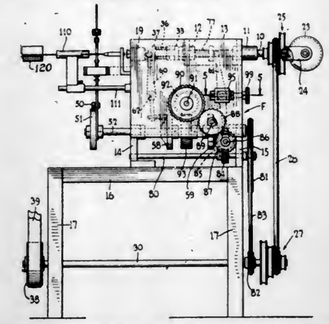
2,348,034
RECLOSING CIRCUIT-INTERRUPTING DEVICE
Ralph H. Stotenbur, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 16, 1942, Serial No. 439,164
8 Claims. (Cl. 200—126)



1. In a reclosing circuit-interrupting device, the combination of an insulating supporting member, a pair of spaced line terminals mounted on said member, a first fuse link electrically interconnecting said line terminals, a second fuse link adapted to be connected between said line terminals upon blowing of said first fuse link, current transfer means for connecting said second fuse link in the circuit between said line terminals a predetermined time after the blowing of said first fuse link, and time-delay means including a plate having an elongated opening therein through which said current transfer means is adapted to move for causing said current transfer means to move first at high speed, then at low speed to give the desired time delay,

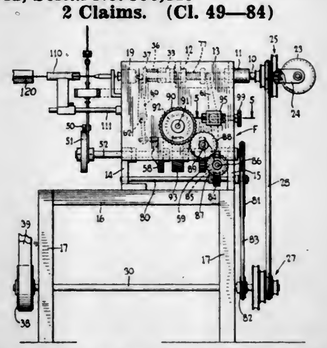
and, subsequently, at high speed satisfactorily to complete the circuit through said second fuse link.

2,348,035
APPARATUS FOR MAKING BEADS
Peter Synek, Jackson Heights, N. Y.
Application September 12, 1940, Serial No 356,478
7 Claims. (Cl. 49—7)



1. In an apparatus for making beads wherein thermoplastic material is heated to a plastic condition and brought into contact with a length of wire unrolled from a spool and adapted to be rotated on its longitudinal axis by rotating the said spool, so as to draw off a sufficient quantity of material to form a bead—the combination of a frame, a first hollow shaft supported by said frame, a second hollow shaft supported by said frame and in axial alignment with said first hollow shaft, said length of wire passing through said first and second hollow shafts, means for rotating said first shaft with said spool, a coupling causing simultaneous rotation of said first and second shafts, said coupling additionally permitting relative axial movement between said first and second shafts.

2,348,036
PROCESS FOR MAKING BEADS OF GLASS OR SIMILAR MATERIAL
Peter Synek, Jackson Heights, N. Y.
Original application September 12, 1940, Serial No. 356,478. Divided and this application June 3, 1941, Serial No. 396,413
2 Claims. (Cl. 49—84)

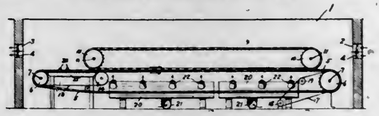


1. In a continuous process of the character described for making beads, the steps comprising rotating a length of wire axially, exerting a pushing force at one end of said rotating wire to push the same forwardly in an axial direction at predetermined intervals while the said wire continues to rotate, heating thermoplastic material to a plastic condition and bringing the plastic end into contact with a portion of said rotating wire to draw off a sufficient quantity of material to form a bead, said last named step being synchronized to occur in the intervals between the forward movements of said wire, to form a plurality of beads spaced along the said length of wire.

2,348,037
VITAMIN AND PROCESS OF OBTAINING SAME
Sidney A. Thayer, Stephen B. Binkley, and Ralph W. McKee, St. Louis, and Donald W. MacCorquodale and Edward A. Doisy, Webster Groves, Mo., assignors to President and Board of Trustees of St. Louis University, St. Louis, Mo.
No Drawing. Application September 11, 1939, Serial No. 294,316
8 Claims. (Cl. 260—396)

1. 2-methyl-3-phytyl-1,4-naphthoquinone.

2,348,038
METHOD OF TREATING TOBACCO
Rush D. Touton, Cynwyd, Pa., assignor to Wurton Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1941, Serial No. 397,520
6 Claims (Cl. 131—140)



1. The method of cooling warm, moist tobacco without substantially changing its moisture content, which comprises passing over warm, moist tobacco air conditioned to have about the temperature to which the tobacco is to be cooled and a vapor pressure of approximately that of the tobacco, at a rate such that the vapor pressure of the air while in contact with the tobacco will not decrease below equilibrium with the vapor pressure of the tobacco at its original moisture content.

2,348,039
COMPOSITION AND PROCESS FOR TREATING FIBROUS MATERIALS
Heinrich Ulrich, Ernst Ploetz, and Eberhard Nold, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application December 31, 1940, Serial No. 372,566. In Germany January 25, 1940
20 Claims. (Cl. 260—28)

13. A dispersion comprising water, a polymerized alkylene-imine and a long chain water-repellency producing substance selected from the class consisting of waxes, octadecyl alcohol, dodecylcyclohexanol, montanyl alcohol, octadecylamine and a hydroxy ethylated stearic acid monoethanolamide, said substance being present in a preponderant amount with respect to the polymerized alkylene-imine.

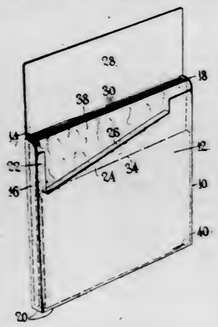
2,348,040
FISH CATCHING DEVICE
Harvey M. Vieths, Mesa, Idaho
Application December 8, 1941, Serial No. 422,141
2 Claims. (Cl. 124—27)

1. In a device of the character described, an elongated cylinder, a spring pressed plunger

mounted in the cylinder and projecting forwardly thereof, said plunger being provided with an annular groove in its forward portion, a bracket embracing the front end of the cylinder and having a collar projecting forwardly thereof to slidably support the plunger, an upstanding support on the inner portion of the bracket having a guide bearing thereon, a pair of transversely spaced arms rising from the collar having forwardly projecting lugs, a trigger element pivotally mounted between the lugs adapted to assume a position radially of the plunger with one end engaging the groove to releasably hold the plunger in retracted position, a pivoted lever mounted on said arms disposed to abut the outer portion of the trigger, an operating mechanism controlled from the rear portion of the cylinder for actuating said lever to disengage the trigger and release the plunger.



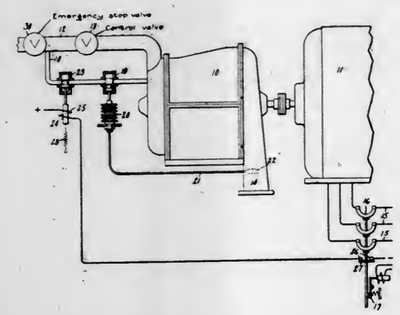
2,348,041
HANDKERCHIEF PACKET
Daniel S. Warner, Buffalo, N. Y.
Application May 15, 1940, Serial No. 335,307
9 Claims. (Cl. 206—57)



1. A handkerchief packet comprising a casing member or thin section and having a pair of major wall portions of slightly curving sectional form disposed generally in concentric spaced relation, an assembly of handkerchief tissue sheets disposed in superposed pack form and pack-folded in accordion pleated manner along two parallel lines of folding intermediately of the ends of said sheets; said folded pack being nested within said casing with like end edges of said sheets adjacent the lower end of said casing and semi-permanently connected thereat to a wall portion of said casing by means of a point connection device, the other like end edges of said sheets being disposed adjacent the upper end of said casing for convenient access to the user.

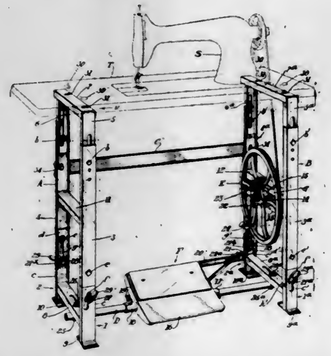
2,348,042
ELASTIC FLUID TURBINE ARRANGEMENT
Glenn B. Warren, Niskayuna, N. Y., assignor to General Electric Company, a corporation of New York
Application March 29, 1943, Serial No. 480,969
5 Claims. (Cl. 175—294)

1. Elastic fluid turbine arrangement including a turbine having inlet valve means for controlling the flow of elastic fluid to the turbine, a bypass with a valve for bypassing elastic fluid relative to the inlet valve means, and a temperature



responsive device for controlling the bypass valve in response to temperature changes in the exhaust of the turbine.

2,348,043
STAND FOR SEWING MACHINES
Irving F. Webb, Elizabeth, and Albert A. Ackerman, Westfield, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 27, 1942, Serial No. 463,500
5 Claims. (Cl. 248—13)

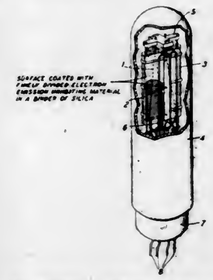


1. An adjustable and collapsible sewing machine stand comprising a pair of interconnected end frames adapted to support a sewing machine table-top, each end frame including interconnected foot-portions, interconnected leg-portions, and table-top-supporting extension elements adjustably mounted in the upper end of said leg-portions, separable telescopic connections between said foot-portions and leg-portions for holding said leg-portions in upright position on said foot-portions, and a pivotal connection embodied in each of said telescopic connections for permitting said leg-portions to be folded downwardly into overlapping relation after the elements of said telescopic connections have been separated, said pivotal connections being arranged at different elevations thereby to permit said leg-portions to assume substantially parallel positions when they are folded into overlapping relation.

2,348,044
COMPOSITION USEFUL AS ADDITIVE TO MINERAL OIL LUBRICANTS AND METHOD OF PREPARING AND USING THE SAME
William A. Whittier, Kenilworth, and Joseph B. Stucker, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application November 22, 1940, Serial No. 366,710
17 Claims. (Cl. 252—47)

1. A composition of matter comprising an acid amide which has been sulfurized at an elevated temperature sufficient to give a good copper strip corrosion but not above approximately 280° F. then phosphorizing the sulfurized amide at a temperature of approximately 220–230° F. for a period of time sufficient to avoid fuming when the composition is heated to 350° F.

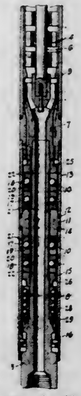
2,348,045
ELECTRON DISCHARGE DEVICE AND METHOD OF MANUFACTURE
Leland A. Wooten, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 1, 1942, Serial No. 425,378
9 Claims. (Cl. 250—177)



1. A non-emissive electrode adapted to be disposed within the sealed envelope of an electron discharge device comprising a metal body portion having a surface coated with an electron emission inhibiting layer which is electrically conductive through the layer and which comprises finely divided electron emission inhibiting material and a binder firmly holding the particles of said finely divided electron emission inhibiting material which is substantially only chemically combined silicon and oxygen in the form of silica derived from drying of a solution of colloidal silica.

2,348,046
BALL THRUST BEARING FOR WELL DRILLING UNITS
Lloyd Yost, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 1, 1941, Serial No. 391,335
3 Claims. (Cl. 308—4)

2. In a well drilling unit in which the drill shaft is rotated directly by a fluid turbine rotor at the bottom of the well, an upward thrust bearing for preventing upward shocks transmitted to the rotor from the drill from injuring the turbine by moving the rotor upwardly relative to the stator, and a downward thrust bearing for preventing downward shocks applied to the rotor by a hammer effect in the motive fluid from injuring the turbine by moving the rotor downwardly relative to the stator, said upward and downward thrust bearings comprising a plurality of sets of balls separated by a plurality of ball races, the races of said bearings being



radially spaced from both the drill shaft and casing to provide freedom of radial inward and outward movement of each of said races with the balls as the latter rotate about said shaft.

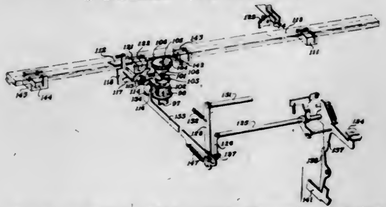
2,348,047
MUD TURBINE AND METHOD OF ASSEMBLING THE SAME
Lloyd Yost, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 1, 1941, Serial No. 391,336
3 Claims. (Cl. 253—152)



2. In the assembly of a turbine of the class described, the method of first locating the rotor shaft below its normal operating position in the casing by a distance substantially equal to the clearance to be provided between each runner and its next adjacent lower guide, assembling the runners and guides alternately with the guides spaced apart to accommodate the runners and provide clearance between the runners and adjacent guides securing each runner to the rotor shaft as the same is placed against its next adjacent lower guide, thereafter moving the shaft and its attached runners upwardly relative to the casing an amount equal to the clearance to be provided between the respective runners and their next adjacent lower guides, and securing the shaft for rotation in its final operating position.

3. In the assembly of a turbine of the class described, the method of first locating the rotor shaft below its normal operating position in the casing by a distance substantially equal to the clearance to be provided between each runner and its next adjacent lower guide, assembling the runners and guides alternately and disposing spacing members between the guides to space the same apart to accommodate the runners and provide clearance between the runners and adjacent guides, securing each runner to the rotor shaft as the same is placed against its next adjacent lower guide, thereafter moving the shaft and its attached runners upwardly relative to the casing an amount equal to the clearance to be provided between the respective runners and their next adjacent lower guides, and securing the shaft for rotation in its final operating position.

2,348,048
CARRIAGE RETURN MECHANISM FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Original application September 25, 1936, Serial No. 102,517. Divided and this application November 22, 1940, Serial No. 366,531
2 Claims. (Cl. 197—66)



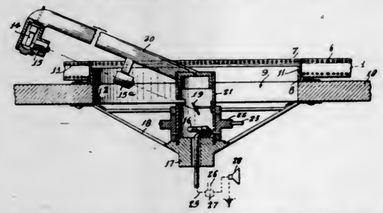
1. In a machine of the class described, a traveling paper carriage, a carriage return mechanism, means on the carriage to initiate operation of the carriage return mechanism, additional means on the carriage to terminate operation of the carriage return mechanism, said initiating and terminating means defining the ends of two separate ranges of travel for the carriage with one end of each range overlapping the other, the terminating means defining the end of one of said ranges being slotted and having a portion normally in line with a part of the return mechanism, and means adapted to be manually set to move said part into the path of the slot in said last mentioned terminating means to allow the return mechanism to move the carriage beyond the confines of one range of travel into the other.

2,348,049
TIE KNOT HOLDER
Severin B. Bankson, San Francisco, Calif.
Application March 24, 1943, Serial No. 480,394
6 Claims. (Cl. 2—153)



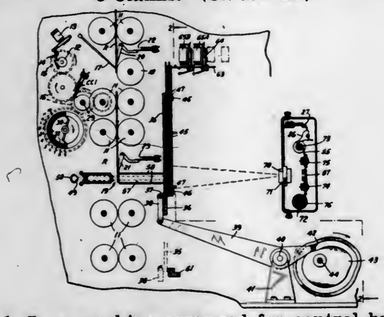
1. A tie-knot holder comprising a resilient and transparent Y-shaped member with two flexible wing portions designed to be received in the sides of a collar and a depending portion, a resilient wire carried by the member and having its ends secured to the member, said wire having leaf-spring-like portions on the front face of the member for forming a hollow body for a tie knot and having a button receiving portion disposed on the rear face of the member for connecting the device to a collar button where it is supported in proper position, said member having openings in its depending portion for slidably receiving the wire lengths that connect the leaf springs with the button receiving portion.

2,348,050
SPOTTING AND SIGNALING APPARATUS
Jack Barnstyn, New York, N. Y
Application September 17, 1942, Serial No. 458,743
5 Claims. (Cl. 179—100.3)



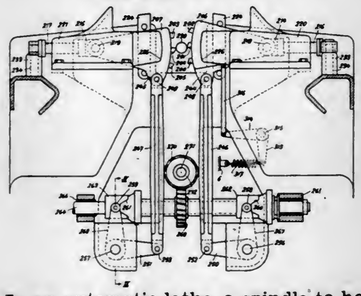
1. In apparatus of the kind described for locating words or other recorded sounds, on the sound track of a film, the combination of means for holding a portion of the film in a fixed position for scanning and disposed in an arc, an electric circuit, a translating device for translating the variations of the sound track into electric impulses in the circuit characteristic of the recorded sounds, means for moving the translating device in an arc along the film, a sound reproducing device for translating the electric impulses into sounds, an editor's recording strip to receive notes by the editor editing the film, mounted for movement adjacent the film, means operatable at will for advancing another portion of the film into its scanning position, and means for advancing the editor's strip in synchronism with the film.

2,348,051
MACHINE FOR READING PERFORATED RECORD CARDS
Robert T. Blakely, Amityville, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 1, 1942, Serial No. 467,493
5 Claims. (Cl. 95—4.5)



1. In a machine arranged for control by record cards having columns of index point positions, each column containing a plurality of differentially located positions divided into zone and subzone positions, perforations in both a zone and a subzone position of a column being representative of any of the alphabetic characters, a plurality of masks bearing character images thereon, each mask having a different set of images and each being separately positionable in cooperative relationship with a record card to bring the images thereon into alignment with the subzone positions of a card column, means for sensing the zone hole positions of a record card, means controlled thereby for selectively positioning one of the masks in cooperative relationship with the record card, light responsive record material, a light source, and an optical system arranged to project light from said source through the subzone perforations of the card on to the aligned images to record the images on said material.

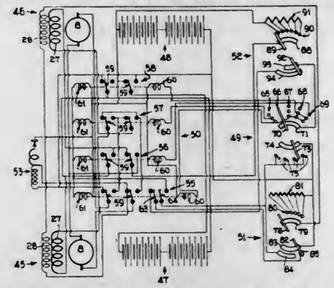
2,348,052
LATHE
Philippe Boillat, Tavennes, Switzerland, assignor to the firm Tavennes Machine Co. S. A., Tavennes, Switzerland, a joint-stock company of Switzerland
Application October 24, 1940, Serial No. 362,665
In Great Britain October 30, 1939
3 Claims. (Cl. 82—2)



1. In an automatic lathe, a spindle to hold the work piece, a sector, a plurality of radially working tools fixed to said sector to be alternately brought in and out of working position, adjustable means mounting said sector to rotate about an axis lying in a plane going through the axis of said spindle and through the cutting edge of that of said tools which is in working position, a rotatable member mounted to oscillate said sector, suitable motion-transmitting means fastened to said sector and in cooperation with said rotatable member, a rotatable means, and other suitable motion-transmitting means between said rotatable means and said adjustable mounting means to impart feed motion to said sector.

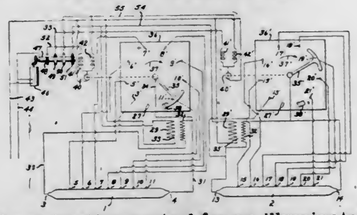
2,348,053
ELECTRICALLY OPERATED MOTOR VEHICLE
John Earl Bowker, Tusmore, South Australia, Australia
Application July 10, 1941, Serial No. 401,793
In Australia July 26, 1940
3 Claims. (Cl. 171—313)

1. In electrically-operated motor vehicles improvements comprising; a plurality of wheels arranged to be driven, a dynamotor forming an integral part of each such wheel, batteries associated with the said dynamotors, switch banks connecting the dynamotors with the batteries, solenoids actuating the switch banks, a selector switch to energize the solenoids, switch members to disconnect the solenoids from the batteries immediately the switch banks have been moved to any position, a braking control to also energize the solenoids, electrical circuit connections between the switch banks and dynamotors and batteries to control the operation of the dynamotors



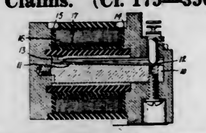
as motors according to the position of the selector switch or as dynamos to charge the batteries according to the position of the brake control, and resistance means adjusted by the braking control to control the extent of the braking.

2,348,054
SIGN CONTROL
Henry P. Burney, Jr., San Antonio, Tex.
Application June 12, 1940, Serial No. 340,103
6 Claims. (Cl. 177—346)



4. An animation control for an illuminated sign wherein said sign is made up in groups of sections, a transformer for each group, means to energize the transformer as the animation starts in each group and to de-energize it when the animation is completed, a prime mover for each group, means operable thereby to close the circuit to each section of a group in sequence, a stop for said means at the end of the sequence, control means to reverse said prime mover and circuit closing means of each group as said stop is reached, and a return stop at the initial position of said circuit closing means.

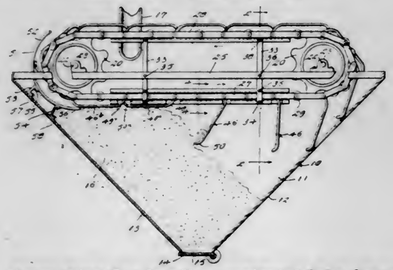
2,348,055
ELECTRIC TRANSLATING APPARATUS
Charles H. Chapman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application December 29, 1942, Serial No. 470,491
9 Claims. (Cl. 175—356)



1. An electromagnetic relay comprising a magnetizable core, means energized in accordance with the magnetic flux traversing said core, an energizing coil mounted upon said core including a current conducting winding and support-

ing means therefor, and a circumferentially discontinuous magnetizable member integral with said coil and extending longitudinally of said core adjacent the inner turns of said winding and for substantially the full length of said coil, thereby to shunt a portion of the magnetic flux of said winding from said core.

2,348,056
SWING PAN SPREADER
Beulan E. Cheely and Charles R. Griffith, Knoxville, Tenn.
Application February 8, 1943, Serial No. 475,158
3 Claims. (Cl. 214—17)



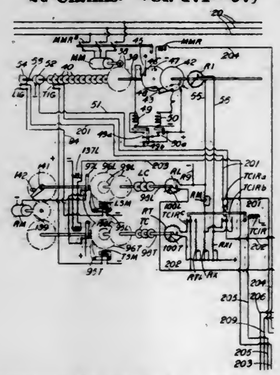
1. Apparatus for leveling material in a hopper comprising a pair of endless members, means supporting said members for movement horizontally across the upper end of the hopper, a plurality of material distributing members pivotally supported between said endless members, said distributing members being of such construction that on the upper runs of said endless members said distributing members will overlap each other to thereby form a closed moving top for said hopper, and an arcuate combined shield and guide member fixed to one end of said hopper for guiding said distributing members as they move downwardly toward the lower run and cooperating with said distributing members in closing the adjacent end of said hopper.

2,348,057
SNUFF DIPPER
Fred B. Chesser, Bessemer, Ala.
Application April 27, 1942, Serial No. 440,719
2 Claims. (Cl. 30—128)



1. A snuff dipper comprising a bowl, an elongated handle secured to the upper side portion of the bowl and extending radially therefrom, the said handle having a longitudinally elongated aperture in its outer portion and an opening extending rearwardly from the aperture, that portion of the handle between the bowl and the aperture being hollow, a shaft extending through the hollow portion of the handle and the aperture with its outer end projecting into the opening in the outer portion of the handle, the inner end of the shaft having a curved portion disposed within the bowl to provide a scraper therefor, a longitudinally elongated knob mounted within the aperture of the handle and having an opening longitudinally therethrough receiving that portion of the shaft extending through the aperture, the said knob having a slot communicating with the longitudinal opening, and a key fixed on and projecting radially from the shaft and into the slot of the knob.

2,348,058
APPARATUS FOR CONTROLLING THE MAXIMUM DEMAND OF ELECTRIC POWER-LOADS
Henry Coates and Bernard André Vuille, Watford, England, assignors to Watford Electric & Manufacturing Company Limited, Watford, England, a company of Great Britain
Application May 16, 1942, Serial No. 443,326
In Great Britain August 9, 1940
20 Claims. (Cl. 171—97)

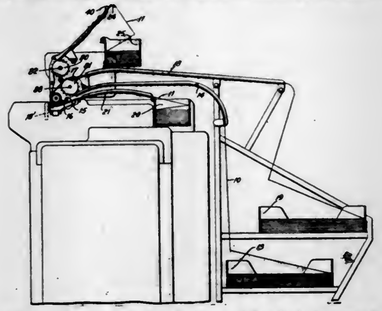


16. Apparatus for controlling an electric power-load in an electricity-consuming plant, comprising a load meter for measuring the load taken instantaneously by the plant, an energy meter for measuring the energy consumed by the plant up to each point of each of a succession of metering periods, a first adjustable resistor whose maximum resistance represents a permissible maximum demand for one metering period and which is adjustable by the energy meter from its maximum resistance at the beginning of each period to reduce its resistance in accordance with the energy consumed, a second adjustable resistor, means for reducing the resistance of the second resistor from its maximum at the beginning of each period at a uniform rate to zero at the end of the period, a fixed resistor, a third adjustable resistor adjustable by the load meter in such manner that the ratio of its resistance to that of the fixed resistor corresponds to the instantaneous load taken, said four resistors being connected in a bridge in such manner that the bridge is balanced when the ratio of the first to the second adjustable resistor equals that of the third adjustable resistor to the fixed resistor, a polarised relay connected across the bridge so as to be energised in one sense when the first ratio is less than the second ratio, and control means operable by the relay, when it is so energised to reduce the load taken by the plant.

2,348,059
PAPER FEEDING MECHANISM
George F. Daly, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 19, 1943, Serial No. 476,421
13 Claims. (Cl. 197—133)

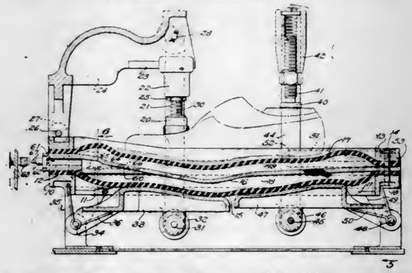
1. In a machine for feeding a record sheet, feeding means for said sheet, driving means, a clutch interposed between said driving means and said feeding means, a start magnet for engaging the clutch, a stop magnet for disengaging said clutch, a line selecting commutator comprising, a movable brush driven synchronously with the said feeding means, and contact points successively engaged by said brush, multiple

pluggable circuit connections between said stop magnet and selected contact points for energizing said stop magnet through said brush and any of the plugged contact points, and means for energizing said start magnet after each printing operation to engage said clutch to initiate the operation of said feeding means and



including means to retain said clutch engaged, thereby moving said brush until the latter contacts with the next contact point plugged and through the related plug connection to said stop magnet to energize the latter and disengage the clutch at a line position of the sheet predetermined by the said next contact point plugged.

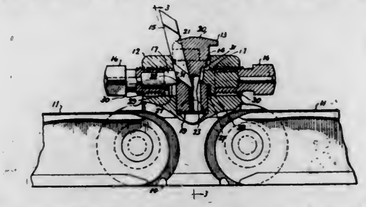
2,348,060
SHOE PRESS
Fred Dawson, West Roxbury, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application June 2, 1942, Serial No. 445,432
19 Claims. (Cl. 12—33)



1. In a shoe press the combination comprising, two opposed dilatable diaphragms, operator controlled pressure means for dilating one of said diaphragms, and automatically operated means for thereafter allowing pressure to be applied to the other of said diaphrams to dilate it in an opposite direction.

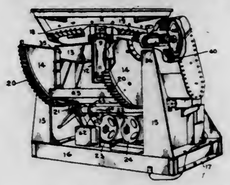
2,348,061
CUTTER CHAIN
Edward J. Doberstein, Blue Island, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 10, 1943, Serial No. 494,162
8 Claims. (Cl. 262—33)

1. In a reversible cutter chain and in combination with a bit carrying chain block, a bit holder adapted to fit in an apertured portion of said chain block, said bit holder having a forward slotted portion adapted to receive a cutter bit, and having a pair of oppositely disposed transversely extending recessed portions having engaging surfaces inclined upwardly from the outer sides thereof, and clamping means slidably mounted in said block and adapted to be moved



into engagement with said inclined surfaces of said recessed portions, for clamping said bit holder and cutter bit within said block.

2,348,062
WELDING POSITIONER AND MANIPULATOR
John P. Faber, Dunellen, N. J., assignor to Ransome Machinery Company, Plainfield, N. J., a corporation of New Jersey
Application December 23, 1942, Serial No. 469,825
5 Claims. (Cl. 29—80)

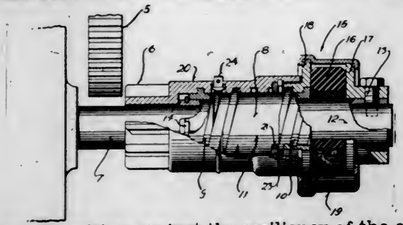


1. In a mechanism of the kind indicated, a table mounted for rotation and having means thereon at various points in its area for securing work thereto, a pivot member to which said table is fixed centrally for rotation, a bearing in which said pivot member is mounted to rotate, a yoke by which said bearing is carried, side frames in which said yoke is mounted at its ends to rock on a horizontal axis, segment gears fixed to said yoke on either side of said bearing and spaced therefrom for rocking the same, said pivot member and table, a connecting member fixed to said segment gears inside the teeth thereof, spanning the space between them, positioned beyond said pivot member and extending on both sides thereof but substantially in line therewith radially of the yoke's horizontal axis, said connecting member being weighted to exceed the weight of the table and adapted to urge said table and work thereon to move to horizontal from all other positions by gravity.

2,348,063
ENGINE STARTER
John W. Fitz Gerald, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application June 15, 1942, Serial No. 447,040
10 Claims. (Cl. 74—7)

1. In an engine starter of the type wherein a pinion is automatically propelled axially to and from an operative driving position: a yieldable coupling having axial resiliency and through which the torque to the pinion is transmitted, said coupling including a member movable axially against the resiliency of the coupling; a screw threaded sleeve extending axially from the pinion; a screw threaded actuator restrained against axial motion and having threaded engagement with the pinion sleeve; and a screw

threaded connection between said movable coupling member and the actuator and operable to force said movable coupling member out of its



normal position against the resiliency of the coupling during the imposition of the engine load on the starter.

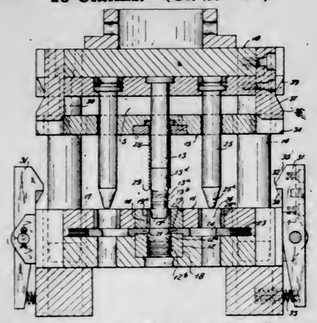
2,348,064

ARTICLE FINISHING APPARATUS AND METHOD

Charles W. Gebhardt, Kent, Ohio, assignor to The C. L. Gougler Machine Company, Kent, Ohio, a corporation of Ohio

Application April 8, 1942, Serial No. 438,074

13 Claims. (Cl. 29—90)



1. The method of finishing preformed open-ended tubular articles which comprises releasably supporting such a tubular article adjacent a hollow finishing die, forcing a finishing tool axially into the article to extend therethrough and to finish the inner surface thereof while said article is being positively held against axial movement as by a retractible stop, releasing the article for axial movement with said tool, and continuing the advance movement of the tool and forcing the article through said die for finishing the outer surface of the article.

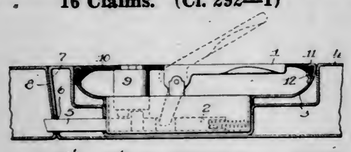
2,348,065

FLUSH TYPE DOOR HANDLE

Harry F. George, Chicago, Ill.

Application February 8, 1943, Serial No. 475,125

16 Claims. (Cl. 292—1)



1. In handle construction, a well member, a handle rotatably mounted in said well member for operating a latch, the handle being substantially flush with the well member open side, and a flexible member covering the open side of the well, the flexible member being resilient, yieldable and depressible into the well member by the operator's fingers to enable grasping of the handle.

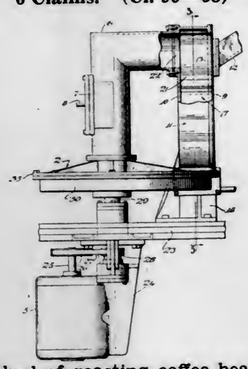
2,348,066

METHOD OF ROASTING COFFEE

Wesley R. Goldfine, Chicago, Ill., assignor to Airoast Corporation, Chicago, Ill., a corporation of Delaware

Application January 2, 1941, Serial No. 372,710

6 Claims. (Cl. 99—68)



1. A method of roasting coffee beans or similar bean-like materials which comprises, passing a relatively hot gas into a closed zone containing the beans to be roasted, at sufficiently high velocity to carry said beans in entrainment in said moving gas, moving said beans in an endless path in said zone, separating a portion of said hot gas and said beans at a portion of said endless path, causing said separated beans to fall downwardly in speed relation to said entrained beans, and removing said separated gas from said zone.

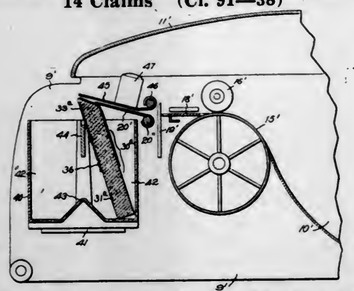
2,348,067

DRY-GUMMED TAPE DISPENSING APPARATUS AND MOISTENER, AND DELIVERY MEANS THEREFOR

Robert W Hoitt, Nashua, N. H., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H., a corporation of Massachusetts

Application April 5, 1943, Serial No. 481,868

14 Claims (Cl. 91—38)



1. In a strip server, in combination with a frame, a support for a strip supply, and means for advancing the strip to a delivery station, moisture-applying means adjacent said station, said means including a liquid supply container, and an applicator receivable in the liquid and adapted to extend into proximity with the tape path, said applicator comprising an artificial porous body of irregular surface texture and of a capillary cellular structure thereby adapting it to conduct liquid from the supply, and a smooth-surfaced moisture-permeable member interposing the tape path and said body to transfer moisture from the latter to the tape and to guide the tape across the applicator toward the delivery station.

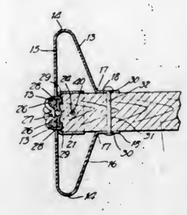
2,348,068

JACOB'S LADDER

Harold P. Hopp, Englewood, N. J., and Edward Kunzelman, Mount Vernon, N. Y., assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y.

Application December 22, 1942, Serial No. 469,794

5 Claims. (Cl. 228—40)



5. In a chain ladder in combination, a rigid rung, a cap member carried by each end of the rung, chain side stiles for connecting a plurality of said rungs together, a spacing ear carried by each end of the rung, means for securing said rungs to the side stiles, said means comprising spaced channels in the spacing ear for reception of opposite sides of one of the links of a side stile, means passing through the spacing ear and the cap member between the opposite sides of the clamped link of the side stile, tongues struck from the spacing ear at points exteriorly of the sides of the clamped link of the side stile, said tongues extending through openings in the cap member into engagement with the inner face of the closed end thereof, and means for securing the cap member to the rung.

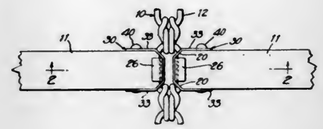
2,348,069

CHAIN LADDER CONSTRUCTION

Harold P. Hopp, Englewood, N. J., and Edward Kunzelman, Mount Vernon, N. Y., assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y.

Application May 14, 1943, Serial No. 486,948

11 Claims. (Cl. 228—40)



1. In a chain ladder, means for fastening a ladder step to one of the links of the ladder stile, said means including a stile link engaging clip passing through the link of the stile to which the step is to be attached and embracing the step at opposite sides thereof, a second clip embracing the first mentioned clip and the step at points above and below the sides thereof, and means for securing the second mentioned clip to the step.

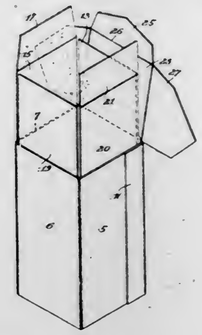
2,348,070

CARTON

William H. Inman, Newark, N. Y., assignor to Bloomer Bros. Company, Newark, N. Y., a corporation of New York

Application August 20, 1942, Serial No. 455,408

14 Claims. (Cl. 229—16)



1. A carton made of foldable waxed fibrous sheet material and comprising a blank reversely folded upon itself adjacent its center and having said folded center adhesively secured and sealed to its opposite ends to provide inner and outer sets of carton side walls, the inner and outer walls of each carton side being separate from each other throughout substantially the whole width of said side adjacent the ends thereof, extensions on the walls of said sides forming end closure flaps, tabs on said flaps inserted and held between said separate inner and outer walls of said carton sides and moisture resistant material adhesively sealing said closure flaps to said side walls.

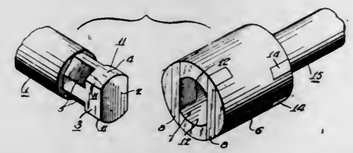
2,348,071

SHAFT COUPLING

Robert McC. Johnstone, Bondsville, Pa.

Original application June 13, 1942, Serial No. 446,917. Divided and this application May 5, 1943, Serial No. 485,785

4 Claims. (Cl. 287—113)

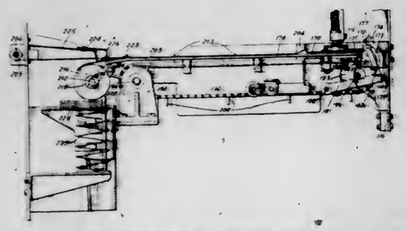


1. In a shaft coupling, a sleeve attached to one of the shafts and projecting beyond an end of the latter, the free end of the sleeve having an axial slotted recess affording access to an undercut coaxial cylindrical chamber, a tongue-like axial projection at an end of the other of the shafts contoured to fit into said slotted recess and having recesses at the sides defining the inner edges of a head-portion adapted to occupy the undercut chamber at the inner end of the recess and permitting a relative angular adjustment of the sleeve and the projection about the shaft axis so as to interlock said head portion with the wall of said chamber, the faces of the said tongue recesses being engageable with the sides of said slot and constituting a means for limiting the extent of said adjustment.

2,348,072
MANUFACTURE OF CATALYSTS
Elmer B. Maahofer, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 31, 1943, Serial No. 481,277
11 Claims. (Cl. 252—254)

1. A process for the manufacture of finely divided hydrated silica which comprises adding an acid to a solution of an alkali metal silicate containing an alkylene polyamine.

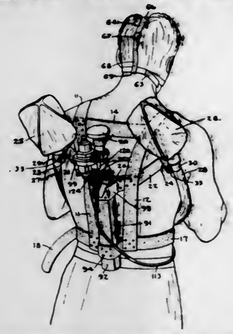
2,348,073
SHEET STACKING MECHANISM
Clair D. Lake, Binghamton, and Francis E. Hamilton, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 15, 1942, Serial No. 454,912. Divided and this application September 29, 1942, Serial No. 460,128
9 Claims. (Cl. 271—80)



1. A machine for selectively stacking narrow or wide sheets, means for successively feeding said sheets the same extent for each sheet feeding operation, a rotary sheet stacking member carrying grippers for seizing and holding the sheet to be stacked, means for rotating said member for each cyclic operation of the machine, a plurality of selectively operable cams for operating said grippers during the rotation of said member, one cam having a formation to open said grippers at one position of the member to receive a narrow sheet fed by the feeding means, and the other cam having a different cam formation so disposed as to operate the grippers at an advanced position of the member to compensate for the extra width of the wide sheet fed by the feeding means, and means to effect a predetermined extent of rotation of said stacking member and said grippers relative to the cam having the different cam formation when the latter is selected for operation.

2,348,074
BREATHING APPARATUS
Christian J. Lambertsen, Philadelphia, Pa.
Application December 16, 1940, Serial No. 370,242
4 Claims. (Cl. 128—142)

1. Breathing apparatus for use under water and in noxious gases, comprising a harness having front and rear portions and adapted to be readily secured on the upper part of the body, a mask with means for securing the mask upon the face of a wearer so as to be gas-tight and water-tight, a breathing tube secured to the front of the harness, a pair of extensions from said breathing tube running around and to the back of the harness, a rebreathing bag supported by each of said extensions at the back of the harness, an oxygen tank removably carried, in a vertical position as worn at the center of the back of the harness, means for supplying a regulated volume of oxygen to the breathing tube, and an exhalation valve for permitting escape



of some exhalation gas against water pressure and automatically sealing against such pressure upon inhalation.

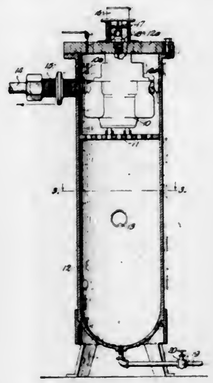
2,348,075
COMBINATION HATCH AND VENTILATOR
Wilbur B. Larkin and Victor C. Norquist, Kansas City, Mo., assignors to Butler Manufacturing Company, Kansas City, Mo., a corporation of Missouri
Application November 12, 1940, Serial No. 365,234
7 Claims. (Cl. 98—42)



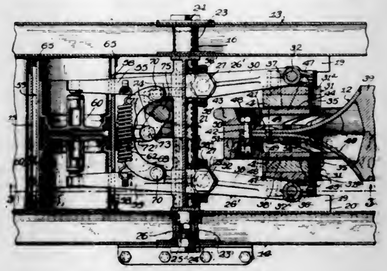
1. A hatch and ventilator construction for roofs including in combination a roof formed with a hatch opening, a collar positioned around said opening and supported by said roof, a perforated platform extending from said collar to the roof and having a flange portion fitting within said hatch opening, a coaming surrounding the hatch opening located between the opening and said collar, openings between the collar and roof through which atmospheric air passes to the space between the coaming and the collar, and a cover for said hatch opening resting upon the platform and formed with a depending flange removably fitted to said collar.

2,348,076
FLOWMETER
Robert L. Ledbetter, Basile, La., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application November 19, 1942, Serial No. 466,099
3 Claims. (Cl. 73—200)

1. In combination with a flow meter having a fluid inlet and a fluid outlet, a vertically elongated housing enclosing the meter, said housing capable of withstanding greater internal pressure than the meter and the interior of the housing communicating with the fluid inlet of the meter; a perforate baffle plate supporting the meter in the upper end of the housing, said baffle plate forming a horizontal partition dividing the housing into upper and lower compartments; an inlet adapted to admit fluid under pressure into the lower compartment of the housing, said housing inlet located substantially above the bottom of the housing whereby a relatively quiescent pool of the fluid into which sediment from the incoming fluid will settle is formed in the housing below the housing inlet and substantially below the baffle plate whereby said plate resists any tendency of the fluid to carry sediment into the meter; and a fluid outlet of lesser diameter than said fluid inlet extending from the meter outlet and exteriorly of the housing.

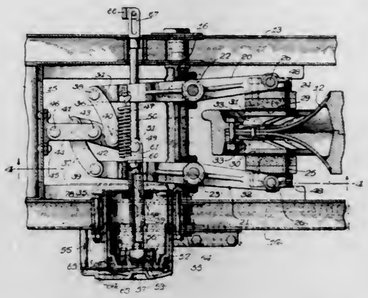


2,348,077
BRAKE MECHANISM
Joseph Ledwinka, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 14, 1941, Serial No. 419,116
10 Claims. (Cl. 188—59)



1. In a brake mechanism for wheels mounted for rotation between vertically deep longitudinal truck frames, comprising radial braking faces on opposite sides of the wheel rotating therewith, a transverse brake support interconnecting the frames adjacent the wheel, brake shoes supported in cooperative relation with the radial braking faces on the opposite sides of the wheel, actuating levers mounted in said support and carrying the shoes and a brake cylinder independent of said support mounted on the truck on the side of said support remote from the wheel, said cylinder having pistons therein for actuating the respective levers to apply the brakes.

2,348,078
BRAKE MECHANISM
Joseph Ledwinka, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 20, 1942, Serial No. 427,407
15 Claims. (Cl. 188—59)



1. In a brake mechanism for trucks having spaced side girders between which is rotatably mounted a wheel to be braked, brake mechanism for said wheel comprising a pair of rotary braking faces rotating with said wheel, a pair of brake shoes arranged in cooperative relation to the respective faces and carried respectively by brake levers, a pivotal support for said levers intermediate their ends, actuating means for said levers including a fluid actuated cylinder supported in an opening in one of said side girders and having its axis disposed transversely thereof.

2,348,079
FUR SUBSTITUTE AND FELT HAT MATERIAL
Sigmund Lichtenthal, Norwalk, Conn., assignor to said Sigmund Lichtenthal and J. E. Hassan, Norwalk, Conn., a partnership
No Drawing. Application March 19, 1942, Serial No. 435,390
10 Claims. (Cl. 19—146)

1. A felting material for hats comprising a base mixture of short stock fur and the dry, carroted barbs of feathers, mixed with fur hat stock capable of felting alone.

2,348,080
METHOD FOR THE SYNTHESIS OF SULPHUR-BEARING DERIVATIVES OF HIGH MOLECULAR WEIGHT
Bert H. Lincoln, Gordon D. Byrkit, and Waldo L. Steiner, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application July 10, 1939, Serial No. 283,570
13 Claims. (Cl. 260—139)

1. A method for the synthesis of sulphur-bearing derivatives of high molecular weight, including the steps of halogenating paraffin hydrocarbons whose monochloro derivatives melt lower than the hydrocarbons themselves, separating substantially pure halogenated hydrocarbons from the crude halogenated mixture, dehalogenating said halogenated hydrocarbons to form unsaturated hydrocarbons, and sulphurizing the unsaturated hydrocarbons by reacting with elemental sulphur.

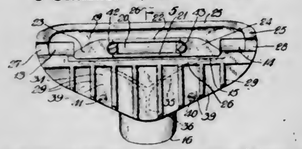
2,348,081
COMPRESSED CELLULOSIC PRODUCT AND METHOD OF MAKING SAME
Harry K. Linzell, Long Lake, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application January 24, 1941, Serial No. 375,769
22 Claims. (Cl. 18—47.5)



1. In the manufacture of hardboard, the step which comprises counteracting the development of a darkened color on the surface of the board by excluding oxygen therefrom while it is hot.

21. Process for manufacturing hardboard from lignocellulosic material which comprises the steps of preheating a relatively porous blank of such material in an atmosphere of steam at a temperature of from 350° F. to 600° F., thus avoiding any substantial oxidation thereof, thereupon consolidating the thus heated blank by means of thereto applied consolidating pressure under conditions that avoid any substantial oxidation, and thereafter cooling the resulting product under conditions avoiding its oxidation.

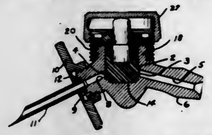
2,348,082
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application September 18, 1942, Serial No. 458,792
8 Claims. (Cl. 15—155)



1. A suction cleaning tool comprising an elongated hollow nozzle body having an outlet adapted to be connected to a source of suction and an inlet in the face of the nozzle adapted to be presented to a surface to be cleaned, said inlet comprising relatively large channels adjacent to the ends of the nozzle and a long narrow passage between said channels, and means forming a shallow groove in said face communicating at opposite ends with said large channels and extending substantially parallel to said narrow passage.

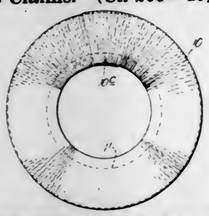
2,348,083
VALVE CONSTRUCTION
Ira E. McCabe, Chicago, Ill.
Application November 30, 1942, Serial No. 467,441
2 Claims. (Cl. 251—122)

1. A valve for controlling the flow of fluid in blood collection, blood transfusion and plasma aspiration, including a valve casing having a cylindrical valve chamber with oppositely disposed in-let and out-let ports adjacent the bottom thereof, a cylindrical expansible and contractible valve member snugly received within the chamber having a reduced portion with the lower end in engagement with a recess provided therefore in the bottom of the chamber normally allowing a circulation of fluid from one port through the other between the valve member and chamber, said member provided with an annular flange at the upper end extending over and in engagement with the top of the valve chamber, the upper portion of the member provided with a concentric depression extending downwardly through the thicker portion of the member, a sealing plate threaded upon the exterior of the casing to seal the annular flange to



the casing, a cylindrical operating member snugly received within the recess in the said valve member having a reduced upper portion extending through an aperture provided therefore in the sealing plate, and an operating cap threaded upon the exterior of the sealing plate adapted to engage the exterior end of the operating member, whereby rotation of the cap in one direction forces the valve member against the bottom of the casing causing it to expand and seal the ports and rotation in the opposite direction relieves the pressure to allow the valve member to contract and open the ports.

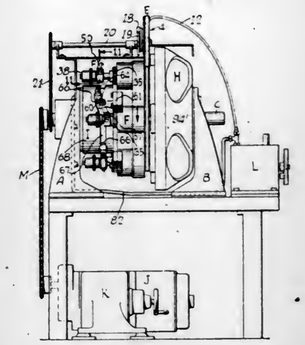
2,348,084
TIRE COVER AND PACKAGE
Chester M. MacChesney, Chicago, and Allen B. Wilson, Evanston, Ill., assignors to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application October 31, 1940, Serial No. 363,674
3 Claims. (Cl. 206—46)



1. A package comprising a tire casing, a flexible cover enclosing said casing, said cover extending around said casing and over the inner annular surface thereof, an annular radially expansible and contractible split rim fitting within said casing to press portions of said cover against the inner annular surface of said casing, and means mounted within said rim for holding it against contraction.

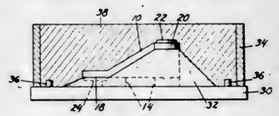
2,348,085
MEANS FOR THREADING CLOSURE CAPS
Augustus L. Merolle, Brooklyn, N. Y.
Application August 2, 1941, Serial No. 405,124
4 Claims. (Cl. 153—72)

2. In a machine for threading sheet metal by bending operations, the combination with means for feeding articles to be threaded, of rotatable means for receiving the articles to be threaded from said feeding means, a plurality of article threading units, each of said units comprising a chuck having a circular series of movable jaws, rotatable about a common axis, for holding said article during the threading operation and means for moving said articles from said receiving means into and ejecting the articles from said chucks, means for successively moving said units past said feeding means, said units being rotatably mounted about an axis external to the chuck, means for moving the several threaders



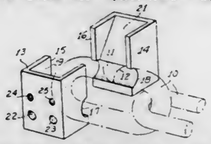
into the articles in substantially straight lines to perform the threading operation on each article in its corresponding chuck, means for moving the threaders transversely of the chucks to clear the article threads, means for withdrawing the threaders from the threaded articles in the chucks, a common support for the several threaders and a common means for moving the several threaders into the articles.

2,348,086
METHOD OF MAKING PATTERNS
Raymond J. Miller, Detroit, Mich., assignor, by direct and mesne assignments, to Miller Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application December 1, 1941, Serial No. 421,115
12 Claims. (Cl. 22—157)



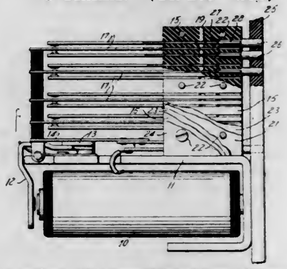
1. The method of making matched plate patterns from a master wood pattern which comprises positioning the master wood pattern on a plate, applying parting material to the master pattern to eliminate back draft, positioning a frame around the pattern and parting material, applying to the exposed surface of the pattern and parting a material capable of flowing and hardening under conditions which are not injurious to the surface of the master pattern to form a female impression of a portion of the master pattern, inverting said material and master pattern, removing the parting material, applying to the exposed surface of the pattern a material capable of flowing and hardening under conditions which are not injurious to the surface of the master pattern to form a female impression of the remainder of the master pattern, separating said female impressions, and applying to each a non-fusable material capable of flowing and hardening under conditions which are not injurious to said female impressions to form male matched plate production patterns.

2,348,087
WELDING APPARATUS
Robert S. Miller, Portland, Oreg., assignor to Pacific Chain and Manufacturing Company, Portland, Oreg., a corporation of Oregon
Application November 22, 1941, Serial No. 420,092
18 Claims. (Cl. 219—8)



14. Chain link welding apparatus comprising, in combination, a pair of separable molds, the opposing surfaces of said molds each being formed with a longitudinally extending groove conforming substantially to the link to be welded; each of said opposing faces being formed with a substantially central recess extending from an external face of the mold to such groove.

2,348,088
DETACHABLE RELAY
Harry J. Nichols and Henry L. Tholstrup, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 20, 1940, Serial No. 366,414
3 Claims. (Cl. 175—298)

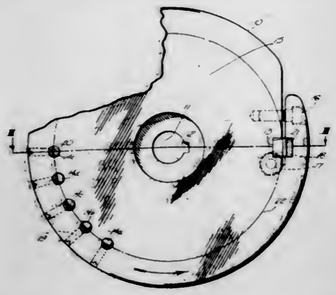


1. In a relay, the combination of spring contact means, an insulating block carried by said relay having spaced slots formed therein, each receiving an effective portion of said spring contact means for supporting the latter and disposed therein so that the terminals of said spring contact means are substantially flush with one end of the insulating block, means for maintaining the spring contact means aligned in the block along their lengths, and individual apertures formed in the said end of the insulating block, which apertures are joined with related slots thereby being adapted to receive insertible terminals of external connectors and permit engagement of the last mentioned terminals and the terminals of the contact spring means, said terminals of the contact spring means being bifurcated so that upon insertion of the terminals of the external connectors the bifurcated terminals exert certain pressures thereon to hold the terminals of the external connectors in place in the block.

2,348,089
FACE MILLING CUTTER
Percy Ben Niekirk, Leeds, England, assignor to John Fowler & Co. (Leeds) Limited, Leeds, England
Application July 17, 1941, Serial No. 402,818
In Great Britain April 29, 1941
5 Claims. (Cl. 29—105)

1. A face milling cutter for forming a flat surface on the work and including a rotatable body

having an operative radial face, a finishing tool carried by said body to extend from said operative face, and a roughing tool carried by said body to extend from said operative face, said roughing tool being positioned angularly from said finishing tool and having its operative tip at a less dis-



tance from said operative face than the operative tip of said finishing tool, and said roughing tool having its operative tip at a greater distance from the rotational axis of the body than the operative tip of said finishing tool by an amount equal to the feed of the work per body revolution.

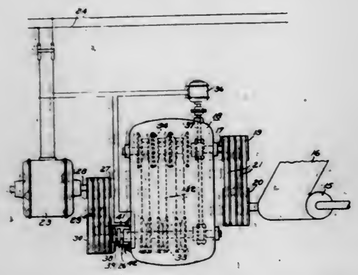
2,348,090

CONSTANT TENSION DRIVE

Eugene J. Otto, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original application May 8, 1940, Serial No. 333,897, now Patent No. 2,346,047, dated April 4, 1944. Divided and this application October 10, 1941, Serial No. 414,400

9 Claims. (Cl. 200—52)



1. Power transmitting mechanism comprising a pulley provided with an internal abutment and freely mounted on a shaft for limited angular movement with respect thereto, said shaft being provided with an abutment fixed thereto within said pulley, and a compression spring retained between said abutments, said spring being of such stiffness as to transmit the normal load torque of said mechanism and to yield when said mechanism is subjected to higher than normal torque, an electrical switch carried by said pulley and provided with an actuator, and a cooperating abutment carried by said shaft in position to contact said actuator to close said switch upon relative angular movement of said pulley and said shaft.

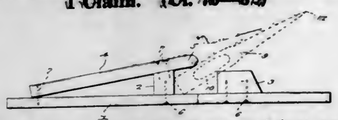
2,348,091

AX HOLDER

George S. Outlaw, Vienna, Va.

Application June 18, 1943, Serial No. 491,341

1 Claim. (Cl. 76—32)



A holder for an ax head comprising an elongated, substantially rectangular base panel, a pair of blocks extending across said panel and spaced apart longitudinally thereof, and a second panel inclining upwardly from one end of the base panel over one of said blocks with one end forming a ledge overhanging the block and terminating substantially midway between the pair of blocks, said base panel, blocks and ledge forming a socket in which the butt end of an ax head may be inserted to rest on the base panel against one block beneath the ledge and with the remainder of the head inclining out of the socket and resting on one edge of the other block.

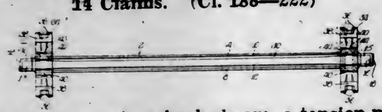
2,348,092

BRAKE BEAM

Torsten H. Parke, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application February 7, 1942, Serial No. 429,875

14 Claims. (Cl. 188—222)



12. In a truss type brake beam, a tension member with flat end portions, a wear pad associated with each of said portions and adapted for reception within guide means on an associated vehicle frame, and a compression member of substantially uniform section throughout its length and having spaced webs receiving therebetween and secured to said end portions and said pads.

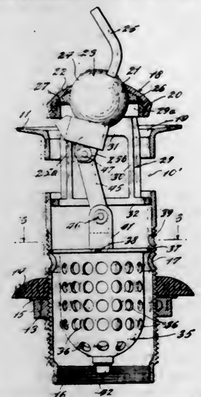
2,348,093

WASTE OUTLET FITTING

Abram N. Pasman, Milford, Conn.

Application June 19, 1943, Serial No. 491,435

10 Claims. (Cl 4—287)



1. In a device of the character described, a body member having a seat, a waste plug member, an operating member pivotally supported within said plug member, a waste receptacle adapted to be positioned within said body, means for supporting said waste receptacle removably in said body member, and means for coupling said waste receptacle with respect to said operating member whereby manipulation of said operating member will serve to move said plug member relative to said seat.

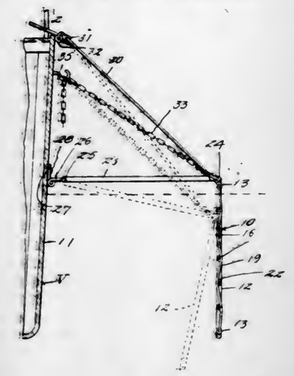
2,348,094

TORPEDO ARRESTER OR INSULATOR

Sidney D. Redmond and Admiral H. McCoy, Jackson, Miss.

Application June 2, 1942, Serial No. 445,498

5 Claims. (Cl. 114—240)



1. A protecting screen for a vessel comprising a frame structure, means pivotally supporting said frame structure on the side of a vessel for movement from an inoperative position above the waterline to an operative position within the water, means limiting the downward swinging movement of said frame, means for elevating or lowering said frame, interlaced fibrous strands carried by said frame, the interstices between said strands being sufficiently large to admit entrance of the nose of a torpedo and locking strands securing said interlaced strands together at the points of intersection.

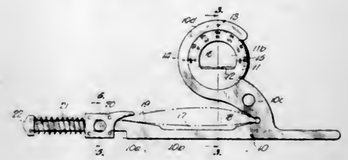
2,348,095

GAUGE FOR SETTING THE PITCH OF PROPELLER BLADES

Horace H. Roby, Wichita, Kans., assignor to Roby, Inc., Wichita, Kans., a corporation of Kansas

Application March 30, 1942, Serial No. 436,900

5 Claims. (Cl. 33—174)



1. A propeller pitch gauge comprising a frame, self-adjusting means on said frame for releasably gripping the opposite edges of a propeller blade, and a level protractor rotatably mounted in the frame and adjustable with reference to the propeller blade to determine its pitch when the blade is in a horizontal position.

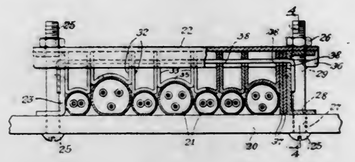
2,348,096

MEANS AND METHOD FOR CLAMPING RUNS OF CABLES AND THE LIKE

William Schaak, Los Angeles, Calif.

Application February 2, 1943, Serial No. 474,482

13 Claims. (Cl. 248—68)



1. A clamp of the character described for mounting a plurality of cylindrical elements of diverse diameters against a flat base, comprising: a transverse clamp bar; means to connect said clamp bar with said base with at least the major portion of the clamp bar spaced from and substantially parallel to said base; a plurality of separate clamp members corresponding to said plurality of elements for interposition between said clamp bar and said elements, each of said members being dimensioned to occupy under compression the space between the corresponding element and said clamp bar, thereby to press the element immovably against said base; and means to temporarily hold said members together, whereby said members may be organized into an assembly apart from the clamp bar and then moved as a unit into position for final cooperation with the clamp bar.

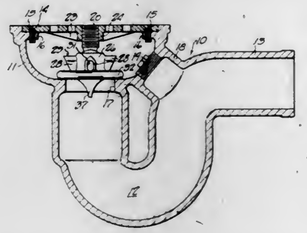
2,348,097

VALVED FLOOR DRAIN

Zachary Harry Smith, Mishawaka, Ind.

Application July 3, 1943, Serial No. 493,363

11 Claims. (Cl. 277—55)



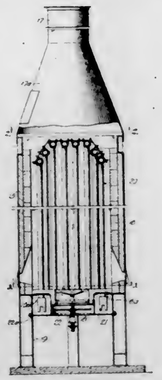
1. A valve for use with a floor drain of the type including a bowl having a restricted outlet and an apertured cover secured to said bowl and having a central screw threaded passage, comprising a threaded shaft adapted to be adjustably mounted in said passage, a valve body swiveled on said shaft and having a passage therethrough opening at the central portion of the bottom face thereof, and a sealing element engaging the marginal portion of the bottom face of said body and including a central depending resilient portion defining a chamber communicating with said last passage and having a slit therein, the walls of said depending portion on opposite sides of said slit being positioned in engagement to close said slit normally and during application of upwardly directed pressure against said depending portion.

2,348,098
TORQUE MEASURING TOOL
William Storrie, Rumford, R. I., assignor to Apco Mossberg Company, a corporation of Massachusetts
Application November 10, 1943, Serial No. 509,711
5 Claims. (Cl. 265—1)



1. A torque measuring tool comprising a head having a formation for engaging work, a deflectable beam having one end fixed to said head and extending therefrom, a handle including a gripping portion in fixed relation to the other end of said beam, a flexible bar on each side of said beam each having one end fixed to said head and extending therefrom parallel to the unstressed position of said beam, the other end of said bars being adjacent to but free of and movable with relation to said handle, a scale on said handle and an indicator carried by the free end of each bar and extending over said scale whereby movement of the scale and beam in either direction will engage one bar and cause movement thereof with the beam while leaving the other bar to indicate on the scale the relative movement which occurs.

2,348,099
FURNACE CONSTRUCTION
John W. Throckmorton, Wilton, Conn., assignor to Petro-Chem Process Company Incorporated, a corporation of Delaware
Application September 11, 1942, Serial No. 458,049
3 Claims. (Cl. 122—276)



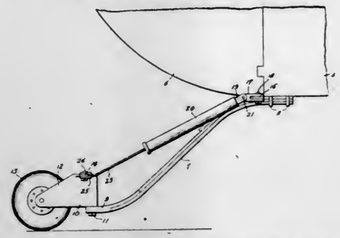
1. A furnace construction comprising a cylindrical reinforced wall of refractory material providing a combustion chamber, a source of heat within the chamber, a bank of inverted U-shaped heat exchange tubes of varying radii bridging the top of the combustion chamber and serially interconnected to provide a continuous fluid passage through the chamber, the straight portions of said U-shaped tubes arranged adjacent the wall of said chamber, and inlet and outlet pipes communicating with the U tubes having the smallest radii.

2,348,100
SPLICING DEVICE FOR ELECTRICAL CONDUCTORS
George B. Wadsworth, Erlanger, Ky.
Application October 24, 1940, Serial No. 362,635
4 Claims. (Cl. 174—84)



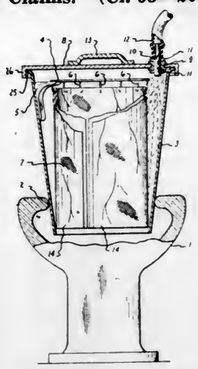
1. In a splicing device for conductive cable comprising a tensile core and outlying conductive strands wound thereon, a pair of conductive sheath members of elongated bar-like form and of substantially constant width, said sheath members at their ends being shaped to conform exteriorly to said cable and to effect clamping engagement therewith, said sheath members being hollowed out intermediate their ends to form a housing for independent gripping means engaging stripped portions of said core, the ends of said sheath members being grooved to accept said cable, the groove when the members are in clamping engagement presenting an accurate perforation to accept the cable, the said perforation being of smaller diameter than the outside diameter of the cable whereby the conductive cable members will be compressed, and the said engagement grooves being of sufficient length to insure low resistance, electrical contact with said conductive members, the said sheath members having bodily an electrical resistance at least as low as the electrical resistance of the cable, and being made of a material of a class consisting of aluminum or an alloy of aluminum with silicon in minor amounts, and independent gripping means housable within said cavity for engaging stripped ends of the cable core, said gripping means comprising opposed corrugated jaws and bolt means for holding said jaws together in gripping engagement with said stripped core portions.

2,348,101
AIRCRAFT TAIL WHEEL ASSEMBLY
Weber Appel, Boise, Idaho
Application October 2, 1941, Serial No. 413,359
1 Claim. (Cl. 244—50)



A tail wheel assembly for aircraft wherein the aircraft is equipped with a rudder, a cross-bar on the rudder, a leaf spring suspension arm, a wheel, a mount for the wheel pivotally secured to the leaf spring for turning about an axis parallel with that of the rudder, a steering bar on the mount, connections between the ends of the last-mentioned bar and the ends of the bar carried by the rudder, cylinders in the said connections, and springs in said cylinders for absorbing shock transmitted to said connections from the wheel, said connections forming rigid vertically floating units and together with said bars forming a parallel link motion.

2,348,102
DIAPER PREWASHER
Lucille L. Baker, Homer, Mich.
Application February 10, 1941, Serial No. 378,233
7 Claims. (Cl. 68—205)



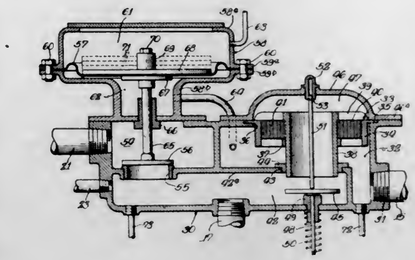
1. A device of the character described comprising an open-bottomed container adapted to be supported in communicating relation with a toilet or the like, a diaper supporting rack member arranged within said container in substantially horizontal position, a nozzle for directing a rinsing liquid on a diaper supported from said rack, a movable nozzle supporting member, and means to guide said nozzle supporting member while carrying said nozzle therein for movement in a fixed path whereby a supported diaper and said nozzle may be relatively moved to direct rinsing liquid over the surface of a supported diaper.

2,348,103
METHOD OF SOIL ANALYSIS FOR LOCATION OF OIL DEPOSITS
Arnold O. Beckman, Altadena, Calif. assignor to American Geochemical Corporation, Long Beach, Calif., a corporation of California
Application January 31, 1940, Serial No. 316,538
6 Claims. (Cl. 23—230)



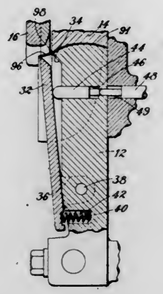
1. A method of geochemical survey for petroleum deposists, which comprises taking samples of soil at spaced intervals over the area to be surveyed, determining the sulphide content of said soil samples, and determining the location of petroleum deposits by selecting the significant high sulphide values and correlating the same with reference to the locations at which samples yielding such significant high values were obtained.

2,348,104
SAFETY DEVICE FOR GAS PRODUCING SYSTEMS
Hubert Beddoes, Chicago, Ill., assignor to Pacific Flush Tank Company, Chicago, Ill., a corporation of Illinois
Application December 31, 1941, Serial No. 425,248
10 Claims. (Cl. 158—99)



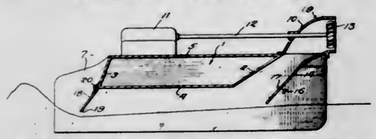
1. In a device of the character described, a casing having an inlet connection, and at least two separate discharge connections, a valve controlling the flow of gas between said inlet connection and one of said discharge connections, flame arresting means between said inlet connection and said one discharge connection, heat controlled means for normally holding said valve open, a second valve between said one discharge connection and another of said discharge connections, and means normally holding said second valve closed to prevent discharge of gas through said other discharge connection, said means being controlled by pressure at said inlet opening to open said second valve when the pressure at said inlet is increased to a predetermined extent.

2,348,105
COUNTER MOLDING MACHINE
Leslie Hugh Bennion and William Arnold Smart, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 12, 1943, Serial No. 490,572
In Great Britain May 15, 1942
3 Claims. (Cl. 12—66)



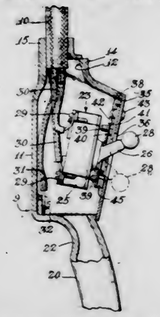
1. In a counter molding machine having molds for shaping the body portion of a counter blank, the combination with said molds of power operated means for bending the marginal portion of the counter blank first inwardly to form a flange and then outwardly to open the flange.

2,348,106
BOAT HULL CONSTRUCTION AND PROPULSION
William S. Brian and Ferdinand J. Birk, Owensboro, Ky.
Application April 12, 1943, Serial No. 482,792
8 Claims. (Cl. 115—11)



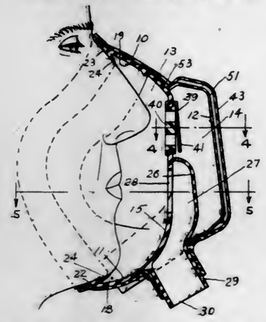
1. In a power boat, the combination of a hull having longitudinal side fins extending depthwise below the hull bottom forming a longitudinal tunnel, a blower on said boat for delivering air to the forward part of said tunnel in a rearward direction, a stern vane at the rear of said tunnel having means imparting a biasing force thereto in a direction to close said tunnel, a hinged bow vane normally closing the front end of said tunnel whereby said boat is lifted on a layer of air under pressure accumulated in said tunnel, said stern vane being opened by air pressure in said tunnel in excess of said biasing force to discharge the air flow from said tunnel against the water wake, and an injector at the forward end of said tunnel through which said blower delivers air to said tunnel, effective when the boat moves forward responsive to the reactive force of air against the water wake, to lift said bow vane above the water, entraining air from beneath said bow vane, thereby creating a forward vacuum which adds impetus to the forward movement of the boat.

2,348,107
HAND CONTROL UNIT
Cornelius Brongersma, Muskegon Heights, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey
Application June 21, 1941, Serial No. 399,138
6 Claims. (Cl. 200—5)



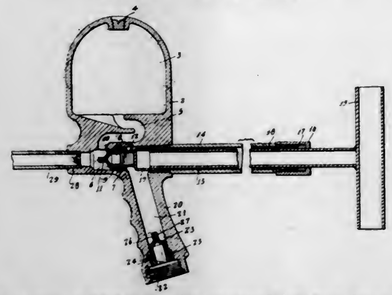
1. A hand control unit for electrically driven apparatus including, a switch casing, a switch panel at one side of the casing, a pair of switches mounted on said panel and disposed within said casing, each of said switches having a digitally operable member accessible from the exterior of the panel, and a locking mechanism for preventing the operation of either switch when the other switch is operated, said locking mechanism including a flat metal plate pivoted on said panel intermediate said switches, a pair of spaced arms projecting from one side of said plate to straddle the operating member of one of the switches, a finger projecting from the opposite side of said plate and adapted to be swung into blocking relation to the other switch member when the plate is rocked about its pivot by operation of said one switch member, said one switch member when operated moving into blocking relation to said finger to prevent rocking of the plate by said one switch member.

2,348,108
HIGH ALTITUDE AVIATION MASK
Arthur H. Bulbulian, Rochester, Minn.
Application September 22, 1941, Serial No. 411,869
5 Claims. (Cl. 128—205)



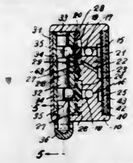
1. A high altitude aviation mask comprising a mask body formed to cover the cheeks, nose and chin of the wearer and having inner marginal surfaces for contacting said portions of the face and under the chin to seal against it and form a breathing chamber enclosing nose and mouth, said mask body formed with two centrally alined openings one above the other, a passageway leading to the lower opening for conveying inhalation gases into the breathing chamber, an exhaling valve located in and across the upper opening, and means forming an exhaling chamber over said exhaling valve and an independent passage leading therefrom, said chamber separated from the inhaling passageway by a wall thereof.

2,348,109
LIQUID PUMP
Maurice J. Corp, Los Angeles, Calif., assignor to Thompson W. Burnam, Whittier, Calif.
Application August 4, 1942, Serial No. 453,496
1 Claim. (Cl. 103—153)



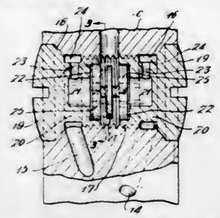
A pump adapted to be carried by one hand of the operator for delivering a continuous fluid stream, which pump comprises a body having an air reservoir chamber into which fluid from the pump may be forced under pressure, said body having a handle-shaped extension providing an inlet to the pump, an inlet valve disposed within said inlet and an outlet valve provided within said body, each including a pierced rubber nipple, the air reservoir chamber communicating with the outlet valve through a tortuous passage, a barrel rigidly attached to said body and connected between the inlet and outlet valve of said body, and a hand reciprocating piston mounted within said barrel.

2,348,110
TORCH
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1939, Serial No. 279,499
2 Claims. (Cl. 158—27.4)



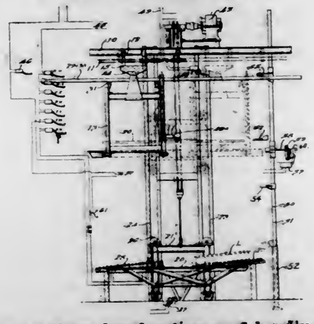
1. In a torch of the character described a body having grooves in one side face of the body, a closure plate secured to said side face of the body and closing the said grooves to form fluid conducting passages for the preheating inflammable gas and the preheating oxygen, said body being provided in its other side face with recesses, fluid conducting passages in said body interconnecting said first passages and said recesses, fluid conducting passages in said body communicating with said recesses and adapted to be connected to a source of supply of inflammable gas and oxygen, valves located in said recesses for closing said last named fluid conducting passages, means carried by the body for closing the outer ends of said recesses and for securing said valves in said recesses, and valve actuating means carried by said means.

2,348,111
TORCH
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Original application June 16, 1939, Serial No. 279,499. Divided and this application March 26, 1941, Serial No. 385,289
6 Claims. (Cl. 158—27.4)



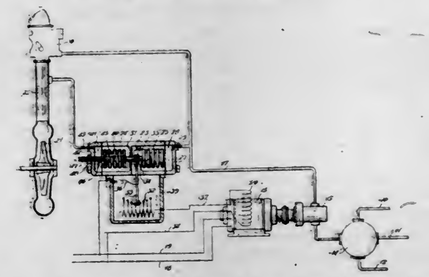
1. In a torch of the character described a torch head having passages therein for oxygen and an inflammable gas to form a combustible mixture, said head being provided with a mixing chamber extending therethrough and in which said passages terminate, removable plugs mounted in the opposite ends of said mixing chamber, and means supported by said plugs and constituting a baffle between the oxygen and gas coming into the mixing chamber.

2,348,112
SELECTIVE AND AUTOMATIC LOADING AND UNLOADING DEVICE
James S. Da Costa, Merchantville, N. J., assignor to Palmer-Bee Company, Detroit, Mich., a corporation of Michigan
Application August 3, 1942, Serial No. 453,332
7 Claims. (Cl. 198—38)



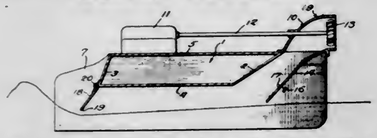
1. In a combined unloading and loading mechanism for operation in conjunction with a continuously moving conveyor, a platform mounted for reciprocation upward to and downwardly from said conveyor, said platform having a portion for lifting a load from said conveyor without interruption of continuous movement of said conveyor, a second portion of said platform spaced horizontally from and in alignment with said first mentioned platform portion adapted to carry a load in alignment to be picked up by subsequent continuous movement of said conveyor.

2,348,113
FUEL SUPPLY SYSTEM
Walwin L. Davis, Avon, Ohio, assignor to Everett D. McCurdy, Cleveland, Ohio, as trustee
Application September 26, 1939, Serial No. 296,644
2 Claims. (Cl. 158—36.3)



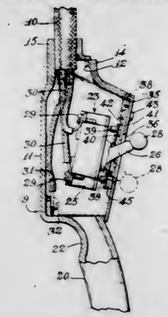
2. In a system for supplying fuel to an internal combustion engine having a carburetor, a pump having its discharge connected with said carburetor for delivering fuel thereto at a pressure which is dependent on the speed at which the pump is driven, a variable speed electric motor connected with said pump for driving the same, means for delivering air to said carburetor under pressure for mixing with the fuel, a motor energizing circuit having therein a resistance which is variable for varying the speed of the motor, an expansible device connected with the air delivery means so as to be responsive to an increase or decrease in the pressure of the air being delivered, an expansible device connected with the pump discharge so as to be responsive to an increase or decrease in the pres-

2,348,106
BOAT HULL CONSTRUCTION AND PROPULSION
William S. Brian and Ferdinand J. Birk, Owensboro, Ky.
Application April 12, 1943, Serial No. 482,792
8 Claims. (Cl. 115—11)



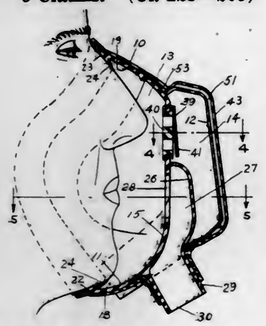
1. In a power boat, the combination of a hull having longitudinal side fins extending depthwise below the hull bottom forming a longitudinal tunnel, a blower on said boat for delivering air to the forward part of said tunnel in a rearward direction, a stern vane at the rear of said tunnel having means imparting a biasing force thereto in a direction to close said tunnel, a hinged bow vane normally closing the front end of said tunnel whereby said boat is lifted on a layer of air under pressure accumulated in said tunnel, said stern vane being opened by air pressure in said tunnel in excess of said biasing force to discharge the air flow from said tunnel against the water wake, and an injector at the forward end of said tunnel through which said blower delivers air to said tunnel, effective when the boat moves forward responsive to the reactive force of air against the water wake, to lift said bow vane above the water, entraining air from beneath said bow vane, thereby creating a forward vacuum which adds impetus to the forward movement of the boat.

2,348,107
HAND CONTROL UNIT
Cornelius Brongersma, Muskegon Heights, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey
Application June 21, 1941, Serial No. 399,138
6 Claims. (Cl. 200—5)



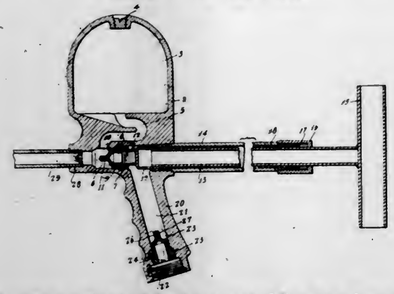
1. A hand control unit for electrically driven apparatus including, a switch casing, a switch panel at one side of the casing, a pair of switches mounted on said panel and disposed within said casing, each of said switches having a digitally operable member accessible from the exterior of the panel, and a locking mechanism for preventing the operation of either switch when the other switch is operated, said locking mechanism including a flat metal plate pivoted on said panel intermediate said switches, a pair of spaced arms projecting from one side of said plate to straddle the operating member of one of the switches, a finger projecting from the opposite side of said plate and adapted to be swung into blocking relation to the other switch member when the plate is rocked about its pivot by operation of said one switch member, said one switch member when operated moving into blocking relation to said finger to prevent rocking of the plate by said one switch member.

2,348,108
HIGH ALTITUDE AVIATION MASK
Arthur H. Bulbulian, Rochester, Minn.
Application September 22, 1941, Serial No. 411,869
5 Claims. (Cl. 128—205)



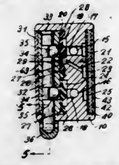
1. A high altitude aviation mask comprising a mask body formed to cover the cheeks, nose and chin of the wearer and having inner marginal surfaces for contacting said portions of the face and under the chin to seal against it and form a breathing chamber enclosing nose and mouth, said mask body formed with two centrally alined openings one above the other, a passageway leading to the lower opening for conveying inhalation gases into the breathing chamber, an exhaling valve located in and across the upper opening, and means forming an exhaling chamber over said exhaling valve and an independent passage leading therefrom, said chamber separated from the inhaling passageway by a wall thereof.

2,348,109
LIQUID PUMP
Maurice J. Corp, Los Angeles, Calif., assignor to Thompson W. Burnam, Whittier, Calif.
Application August 4, 1942, Serial No. 453,496
1 Claim. (Cl. 103—153)



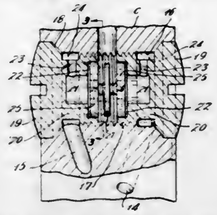
A pump adapted to be carried by one hand of the operator for delivering a continuous fluid stream, which pump comprises a body having an air reservoir chamber into which fluid from the pump may be forced under pressure, said body having a handle-shaped extension providing an inlet to the pump, an inlet valve disposed within said inlet and an outlet valve provided within said body, each including a pierced rubber nipple, the air reservoir chamber communicating with the outlet valve through a tortuous passage, a barrel rigidly attached to said body and connected between the inlet and outlet valve of said body, and a hand reciprocating piston mounted within said barrel.

2,348,110
TORCH
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1939, Serial No. 279,499
2 Claims. (Cl. 158—27.4)



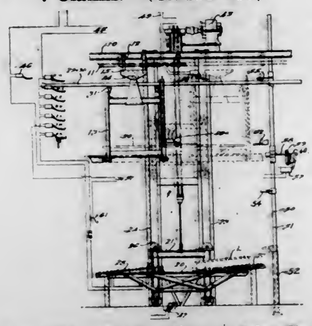
1. In a torch of the character described a body having grooves in one side face of the body, a closure plate secured to said side face of the body and closing the said grooves to form fluid conducting passages for the preheating inflammable gas and the preheating oxygen, said body being provided in its other side face with recesses, fluid conducting passages in said body interconnecting said first passages and said recesses, fluid conducting passages in said body communicating with said recesses and adapted to be connected to a source of supply of inflammable gas and oxygen, valves located in said recesses for closing said last named fluid conducting passages, means carried by the body for closing the outer ends of said recesses and for securing said valves in said recesses, and valve actuating means carried by said means.

2,348,111
TORCH
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Original application June 16, 1939, Serial No. 279,499. Divided and this application March 26, 1941, Serial No. 385,289
6 Claims. (Cl. 158—27.4)



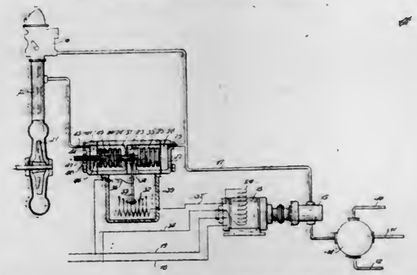
1. In a torch of the character described a torch head having passages therein for oxygen and an inflammable gas to form a combustible mixture, said head being provided with a mixing chamber extending therethrough and in which said passages terminate, removable plugs mounted in the opposite ends of said mixing chamber, and means supported by said plugs and constituting a baffle between the oxygen and gas coming into the mixing chamber.

2,348,112
SELECTIVE AND AUTOMATIC LOADING AND UNLOADING DEVICE
James S. Da Costa, Merchantville, N. J., assignor to Palmer-Bee Company, Detroit, Mich., a corporation of Michigan
Application August 3, 1942, Serial No. 453,332
7 Claims. (Cl. 198—38)



1. In a combined unloading and loading mechanism for operation in conjunction with a continuously moving conveyor, a platform mounted for reciprocation upward to and downwardly from said conveyor, said platform having a portion for lifting a load from said conveyor without interruption of continuous movement of said conveyor, a second portion of said platform spaced horizontally from and in alignment with said first mentioned platform portion adapted to carry a load in alignment to be picked up by subsequent continuous movement of said conveyor.

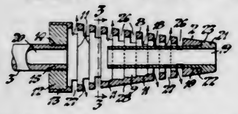
2,348,113
FUEL SUPPLY SYSTEM
Walwin L. Davis, Avon, Ohio, assignor to Everett D. McCurdy, Cleveland, Ohio, as trustee
Application September 26, 1939, Serial No. 296,644
2 Claims. (Cl. 158—36.3)



2. In a system for supplying fuel to an internal combustion engine having a carburetor, a pump having its discharge connected with said carburetor for delivering fuel thereto at a pressure which is dependent on the speed at which the pump is driven, a variable speed electric motor connected with said pump for driving the same, means for delivering air to said carburetor under pressure for mixing with the fuel, a motor energizing circuit having therein a resistance which is variable for varying the speed of the motor, an expansible device connected with the air delivery means so as to be responsive to an increase or decrease in the pressure of the air being delivered, an expansible device connected with the pump discharge so as to be responsive to an increase or decrease in the pres-

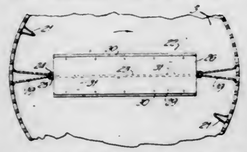
sure of the fuel being delivered, said expansible devices being arranged to oppose each other, and means actuated by the resultant movement of said expansible devices for varying said resistance.

2,348,114
GUN STABILIZER
Alva M. Dow, Braintree, Mass., assignor to Carrie G. Dow, Braintree, Mass.
Application November 24, 1939, Serial No. 305,877
14 Claims. (Cl. 89—14)



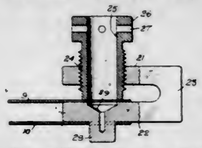
1. A gun-stabilizer for mounting at the end of the gun barrel and comprising a shell the peripheral wall of which forms a central cone-shaped chamber, said wall on its inner face having integral therewith a series of annular flat-faced stepped shoulders perpendicular to the axis of said shell and said wall having restricted transverse ports therein adjacent said shoulders for retarding the exhaust of the gases whereby impingement of the gases against the stepped shoulders opposes the recoil of the gun.

2,348,115
LAUNDRY MACHINE
Edward J. Downes, Albany, N. Y.
Application October 6, 1941, Serial No. 413,723
11 Claims. (Cl. 34—109)



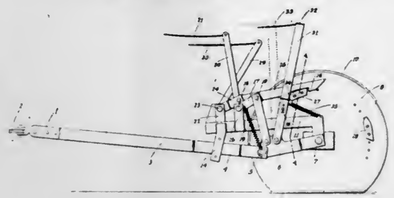
1. In a machine of the character described, the combination with a cylinder open at one end and closed at the other and having radially arranged baffles extending inwardly from the sides thereof, of a foraminous partition element disposed axially of and within said cylinder and extending from adjacent the closed end of said cylinder substantially to the opposite, open end thereof to divide the cylinder into two, separate compartments for containing articles during the operation of said machine, and means disposed adjacent the open end of said cylinder for preventing articles supported on said partition element from sliding over the end edge thereof.

2,348,116
DEVICE FOR POSITIONING AND ALIGNING APERTURES
William Dzus, West Islip, N. Y.
Application March 3, 1942, Serial No. 433,130
2 Claims. (Cl. 77—62)



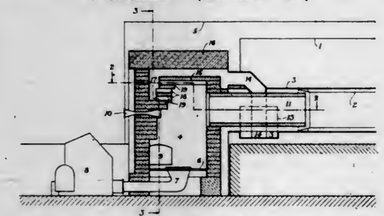
1. A device for aligning an aperture to be formed in a first article with an aperture in a second article comprising a frame including a pair of spaced members adapted to receive therebetween the first article in which the aperture is to be aligned, one of said members being formed with a guide aperture extending therethrough, and the other of said members being formed with a stud in alignment with the said guide aperture in the other member and projecting away from the other member, the said stud being adapted to be engaged in the aperture in the second article.

2,348,117
TUMBLING SCRAPER
William C. Elliott, Modesto, Calif.
Application March 6, 1943, Serial No. 478,305
7 Claims. (Cl. 37—140)



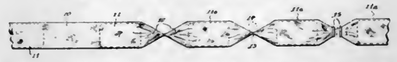
1. A scraper comprising a draft frame adapted to be supported at a fixed level at its forward end, and including rigid side arms and links pivoted on and extending rearwardly from the arms, the links and arms being normally disposed in a predetermined position relative to each other; a bowl pivoted on the links at their rear end for rotation in the frame, a releasable holding connection between the links and bowl normally preventing forward rotation of the bowl relative to the links and maintaining the bowl in a predetermined position relative thereto and actuating means applied to the bowl to positively turn the same forwardly whereby when the connection is engaged, to break the arms and links downwardly at their pivotal connection.

2,348,118
OVEN HEATING SYSTEM
Harry Feige, Saginaw, Mich., assignor to Baker Perkins, Inc., Saginaw, Mich., a corporation of New York
Application July 17, 1942, Serial No. 451,368
6 Claims. (Cl. 110—49)



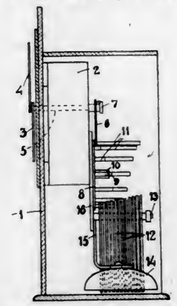
1. A heating system for bake ovens or the like in which hot gases of combustion are circulated through the oven, in combination, a combustion chamber outside of said oven having refractory walls, a stoker in the lower part of said combustion chamber, a housing surrounding and spaced from a portion of the combustion chamber to define a gas chamber, duct means leading from said combustion chamber to said oven, return duct means for recirculated gases leading from said oven to said gas chamber, an inwardly inclined checkerwork of refractory material adjacent the top of the combustion chamber, positioned to absorb radiant heat from the interior of the combustion chamber and having openings into said gas chamber arranged to direct a portion of said recirculated combustion gases substantially horizontally into said combustion chamber above the zone of combustion, whereby said checkerwork and the inner walls of said combustion chamber are cooled and said gases are reheated, and whereby a greater part of the recirculated gases are mixed with hot combustion gases outside of the combustion chamber in said duct means leading to the oven.

2,348,119
BANDAGE AND METHOD OF MAKING SAME
Annette Fridolph, New York, N. Y.
Application March 29, 1939, Serial No. 264,828
In Great Britain April 23, 1938
4 Claims. (Cl. 128—156)



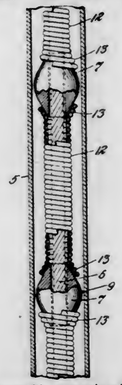
1. The method of manufacturing a surgical bandage and the like which comprises folding a length of flexible bandage material transversely upon itself and placing absorbent bandage pads within said folds at spaced intervals, turning certain of said pads with respect to the others to form a narrowed converging portion in said material between said pads. cutting said material substantially at the middle of this narrowed portion and fastening on these narrowed out ends, a cross-head connecting means formed of stiffened material and relatively long and narrow but substantially shorter than the width of said material.

2,348,120
CLOCK
Ivar August Frostling, Boxholm, and Elis Gerhard Karlsson, Malexander, Sweden
Application July 28, 1942, Serial No. 452,622
In Sweden October 12, 1940
8 Claims. (Cl. 58—8)



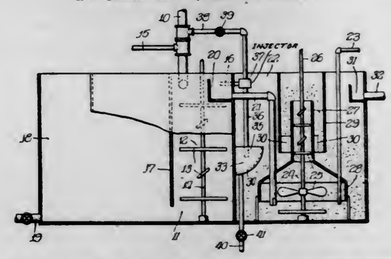
1. In clocks, a clockwork, a shaft driven by the clockwork, a rotatory disc, pins carried by said disc, a member carried by said shaft and adapted to co-operate with said pins so as to give the disc an intermittent movement about its axis corresponding to the distance between two adjacent pins for each revolution of said shaft, a plurality of movable striking members arranged to be operated by the pins, and a bell provided adjacent to the striking members, the arrangement of the pins and striking members being such that in each revolution of the shaft a number of said striking members will be operated by one of the pins so as to strike on the bell.

2,348,121
FLEXIBLE PUSH-PULL CONTROL
George A. Gillen, Bronx, N. Y., assignor to The Connecticut Electric Manufacturing Co., Bantam, Conn., a corporation of Connecticut
Application February 20, 1943, Serial No. 476,611
1 Claim. (Cl. 74—501)



A flexible push-pill control, comprising in combination, a rigid guide tube, a tension cable operating therein, bearings in spaced relation on said cable and in free sliding engagement with the confining walls of said guide tube, lenticular spacing elements on said cable between said bearings and of smaller diameter than said bearings, said elements comprising the contacting adjoining convolutions of coiled springs loosely engaged on the cable between said bearings and in abutting engagement with said bearings at their ends and said bearings having conical end portions entered in the ends of said coiled springs and the ends of said springs being flared and thereby fitting concentrically over the conical end portions of said bearings.

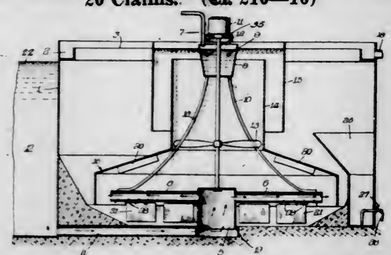
2,348,122
LIQUID TREATMENT
Walter H. Green, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware
Application May 29, 1940, Serial No. 337,766
10 Claims. (Cl. 210—16)



1. A method of liquid treatment comprising the steps of mixing liquid to be treated with a first precipitating reagent of a nature to form solid particles of a certain kind, clarifying the resulting mixture, mixing the clarified liquid with a second precipitating reagent of a nature to form solid particles of a different kind, separating the then resulting mixture into treated liquid and a slurry containing the last named solid particles, transferring a portion of such slurry to the first-mentioned mixing step, retaining another portion of such slurry in the last-mentioned

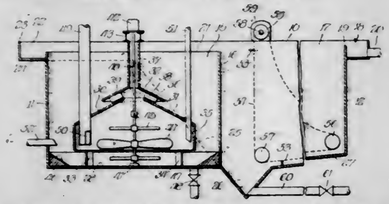
mixing step, removing separated solids to waste and removing treated liquid separated from said last-mentioned mixing step.

2,348,123
TREATMENT OF LIQUID
Walter H. Green and James R. Barrington, Chicago, Ill., assignors to Infilco Incorporated, a corporation of Delaware
Application September 13, 1940, Serial No. 356,586
20 Claims. (Cl. 210—16)



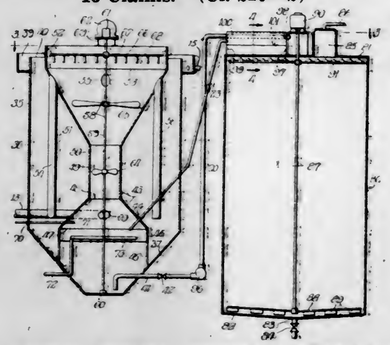
1. In apparatus of the kind described including the combination of a treating basin, means for withdrawing treated water from the upper portion of said basin and means for withdrawing solids from said basin, a rotary water distributor located in the lower portion of said basin and adapted on rotation thereof to distribute incoming water annularly over the floor of said basin, an inlet for water to be treated communicating with said rotary water distributor, rotary reagent delivery means mounted to rotate with said water distributor and deliver reagent adjacent to the distributor, means for delivering reagent to said rotary reagent delivery means, and means to rotate said rotary distributors.

2,348,124
LIQUID TREATMENT
Walter H. Green, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware
Continuation of application Serial No. 301,695, October 28, 1939. This application June 6, 1941, Serial No. 396,881.
10 Claims. (Cl. 210—16)



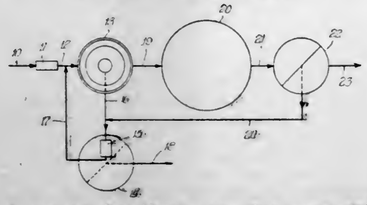
1. Liquid treating apparatus of the type wherein the liquid is treated in and by a slurry comprising in combination a solids conditioning chamber and a laterally adjacent sedimentation chamber, a partition structure within said solids conditioning chamber extending upwardly therein and dividing said chamber into a mixing and reaction zone extending into the lower portion of said chamber and a relatively quiescent zone extending into the upper portion of said chamber, a mechanical stream projecting impeller within said mixing and reaction zone so constructed and positioned as to cause a vertical flow of liquid in said zone, a prime mover for rotating said impeller, means for delivering liquid to be treated and a chemical reagent into said solids conditioning chamber, a constantly open hydraulic communication from the upper portion of the quiescent zone into the sedimentation chamber, an outlet for treated liquid leading from an upper portion of said sedimentation chamber, and an outlet for solids leading from adjacent the bottom of said sedimentation chamber.

2,348,125
SEWAGE TREATMENT
Walter H. Green, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware
Application July 24, 1941, Serial No. 403,862
13 Claims. (Cl. 210—2)



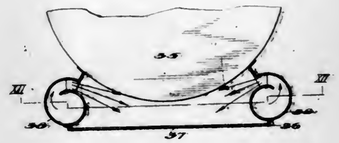
1. Sewage treating apparatus comprising a clarifier, a raw sewage inlet into said clarifier, a clarified sewage outlet from said clarifier, a sludge digester, a solids concentrating chamber in open communication from its lower portion with the upper portion of said digester, means including a conduit leading from the lower part of said clarifier and discharging into said solids concentrating chamber whereby sludge may be delivered from the former into the latter, a liquid outlet from the upper part of said concentrating chamber, a liquid return conduit leading from said upper outlet to said clarifier, said outlet and said return conduit being so disposed as to determine the normal liquid level in said digester, and a digested sludge outlet from the lower portion of said digester.

2,348,126
SEWAGE PURIFICATION
Walter H. Green, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware
Application July 24, 1941, Serial No. 403,863
15 Claims. (Cl. 210—5)



1. A sewage treating apparatus comprising a clarification chamber, a biological treating chamber, a sludge digester, a gas outlet from the top of said digester, a solids concentrating chamber adjacent the top of said digester and so located as to maintain the digester full of liquid but not to overflow the gas outlet, conduit means for delivering raw sewage into said clarification chamber, conduit means for delivering clarified sewage from said clarification chamber to said biological treating chamber, an effluent conduit from said biological treating chamber, conduit means for delivering sewage solids from said clarification chamber to said solids concentrating chamber, outlet means leading from a level in said concentrating chamber below the level of said gas outlet discharging into said clarification chamber, and a constantly open communication between the lower portion of said solids concentrating chamber and the digester affording egress for solids from the concentrating chamber into the digester and ingress of supernatant into the concentrating chamber from the digester.

2,348,127
HEAT TRANSFER AND DISSEMINATING APPARATUS
Charles P. Grimes, Syracuse, N. Y., assignor of one-half to W. Herbert Bretzlaff, Detroit, Mich.
Application August 24, 1939, Serial No. 291,789
6 Claims. (Cl. 257—137)



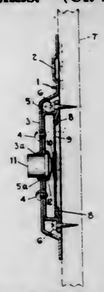
1. In combination with a heat exchanger, a body having a chamber formed therewith for the reception of air under pressure, said body being disposed adjacent a heated surface of said heat exchanger with a limited space therebetween in open communication with the atmosphere, and jet means formed with said body for discharging a stream of air into the space between the heated surface of the exchanger and said body, said jet means being so disposed as to direct the stream of air issuing therefrom in an angular direction against the heated surface of said exchanger, said stream also serving to induce a flow of air at atmospheric pressure through said space.

2,348,128
TRANSFER COPYING MATERIALS
Josef Groak, Hendon, England
Application June 10, 1942, Serial No. 446,536
In Great Britain June 30, 1941
19 Claims. (Cl. 282—28)



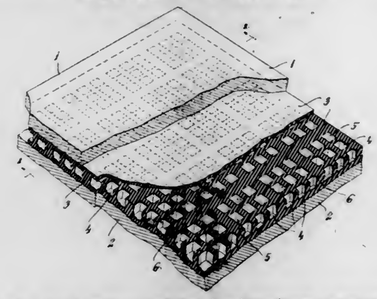
1. A set of transfer copying materials comprising at least one copy sheet carrying a coloring matter in an undissolved and dispersed condition, and at least one transfer sheet carrying a transfer coating comprising a transferable material capable, when transferred to the copy sheet under the writing impression, of bringing the coloring matter into a dissolved condition exhibiting a coloration which contrasts with the surface of the copy sheet carrying the undissolved and dispersed coloring matter.

2,348,129
DOOR KNOCKER
Guldbrand Guldbrandsen, St. Johnsbury, Vt.
Application September 3, 1942, Serial No. 457,237
12 Claims. (Cl. 116—148)



1. A knocker assembly adapted for mounting on a door or like support, including a bracket and means for securement thereof in a fixed position of use, a resilient plate adapted for a limited reciprocal movement toward and away from the support so as to serve as a sounding member, plate-retaining elements formed in widely spaced zones on the bracket, and serving to keep the plate under compression during a portion of its reciprocal movement, and a push button reciprocable in the bracket toward and away from the support, and so located that upon actuation, it serves to stress the resilient plate toward the support, to load the plate in a manner to cause its return to initial position when the button is released.

2,348,130
ARMOR PLATING
Charles J. Hardy, Jr., Harrison, N. Y.
Application February 7, 1941, Serial No. 377,857
3 Claims. (Cl. 109—84)

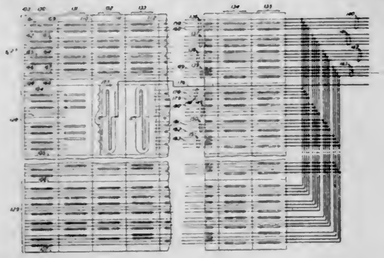


1. A projectile-resistant structure comprising at least two layers of armor plate between which is interposed a layer of relatively yieldable material in which are located isolated masses of material having abrasive qualities adapted to upset a disk or slug driven out of one plate before such disk or slug reaches the second plate.

2,348,131
ELECTRIC SIGNALING
Arthur W. Horton, Jr., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 27, 1942, Serial No. 448,732
6 Claims. (Cl. 179—27)

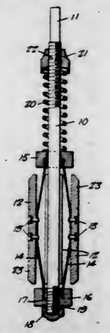
1. In a telephone system in which designations are assigned to the lines of a group on a decimal

basis, each designation having a plurality of digital places, the combination of a plurality of signal lamps individual respectively to the lines of said group, said lamps being arranged in decimal order in a field of coordinate rows, a plurality of sets of light-sensitive strips fixed before each row of lamps in one coordinate direction, said sets corresponding respectively to the digital places of the designations, the number of strips in each set being less than the number of possible digit values in the corresponding digital



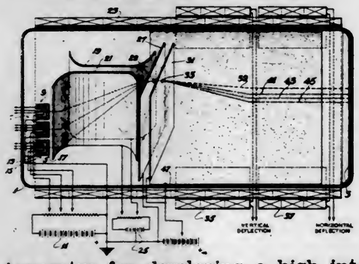
place, a screen interposed between said lamps and said strips and designed to permit the light from each lamp to impinge upon a combination of the strips in each of the associated sets representing in code the decimal designation of said lamp and its individual line, means for lighting the lamp of any desired one of said lines to energize the light sensitive strips before such lamps, and means responsive to the combination of energized strips for indicating in code the designation of said desired line.

2,348,132
HYDRAULIC BRAKE CYLINDER CLEANER AND POLISHER
John W. Hyland, Portsmouth, Ohio
Application February 3, 1942, Serial No. 429,431
2 Claims. (Cl. 51—184.2)



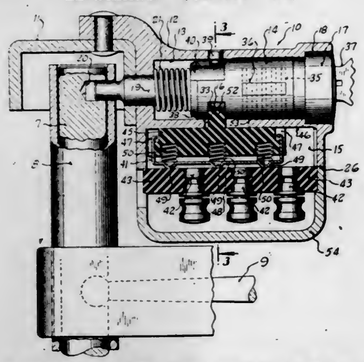
2. A brake cylinder cleaner and polisher comprising a one-piece shank, a front hub mounted on the shank for rotation thereby, a rear hub loosely mounted on the shank, outwardly bowed leaf springs surrounding the shank between the hubs and having their ends fixed rigidly to the hubs, a coil spring sleeved on the shank bearing against the rear side of the rear hub, means for varying the tension of the coil spring to regulate the curvature of the leaf springs, blades having their intermediate portions arranged in contact with the outer sides of the intermediate portions of the leaf springs, the blades extending longitudinally of the leaf springs with their ends free of engagement with the springs and hubs, and means engaging the intermediate portions of the blades and leaf springs establishing a rigid connection between said blade and spring portions.

2,348,133
METHOD AND APPARATUS FOR DEVELOPING ELECTRON BEAMS
Harley A. Iams, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 29, 1942, Serial No. 460,080
14 Claims. (Cl. 315—13)



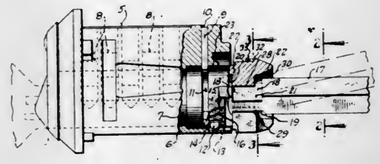
1. Apparatus for developing a high intensity electron beam comprising means to develop a crossed electrostatic and magnetic field of substantially constant magnitude, means to develop and direct into said field a plurality of electron streams displaced one from another in a plane parallel to the lines of force of said magnetic field, and means to vary the velocity of the electrons comprising said streams to converge said streams into an electron beam of high intensity.

2,348,134
COINCIDENTAL IGNITION AND GEARSHIFT LOCK
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application August 4, 1941, Serial No. 405,311
11 Claims. (Cl. 200—44)



1. A coincidental ignition switch and gear shift lock for use on automobiles having steering gear mounted shift levers comprising: a lock body; means for mounting the lock body adjacent to a movable part of the gear shifting mechanism; a key controlled tumbler lock cylinder endwise slidable and rotatable in the lock body; a part on the cylinder projectible from the lock body into locking engagement with said movable part of the gear shifting mechanism to secure the same against motion; a movable switch contactor; a driving connection between the switch contactor and the lock cylinder whereby the contactor is driven by the cylinder upon endwise sliding motion of the cylinder; and means for defining at least one limit of motion of said contactor so as to accurately locate said position and simultaneously determine one position of endwise motion of the cylinder.

2,348,135
PILLAR LOCK
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application September 11, 1942, Serial No. 457,944
18 Claims. (Cl. 70—379)



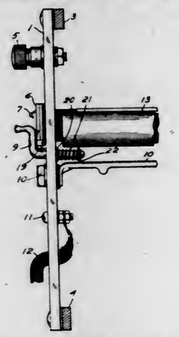
1. In a lock of the character described: a rotatable cylinder having an axial socket in its inner end portion and provided with an entrance through the side wall thereof; a drive shaft having a headed portion of rectangular cross section received in the socket, said headed portion of the drive shaft being insertable through the side entrance; substantially diametrically opposite driving lugs projecting in from the side wall of the socket and cooperable with the opposite faces of the rectangular portion to provide a lost motion driving connection between the cylinder and the shaft; and a spring mounted on the rotatable cylinder and having a part thereof blocking the side entrance into the socket to thereby hold the shaft assembled with the cylinder.

2,348,136
LADDER
Frederick Kidd and Thomas Dargue Kidd, Stockton-on-Tees, England
Application April 1, 1943, Serial No. 481,404
In Great Britain February 12, 1942
4 Claims. (Cl. 228—18)



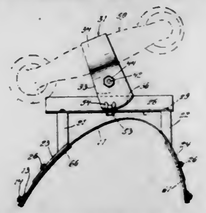
1. A ladder in which the sides are curved longitudinally and the upper ends of the sides are connected to their respective lower ends dy tie members in tension which are free between their ends.

2,348,137
DROP-SIGNAL HOLDER
Glenn Kiner, Markham, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application September 19, 1941, Serial No. 411,520
3 Claims. (Cl. 177—329)



1. In combination, portable telephone switchboard apparatus including a panel having a drop signal mounted on the front thereof and arranged to drop to display position when tripped, a signal holder, comprising a crank-like device, said device having an axis portion passing through the switchboard panel and an arm portion extending generally parallel to the panel, the arm portion of the device being rotatable about the axis portion into and out of a position to overlie said signal closely to hold it from dropping from normal position to display position, and means operative to hold said signal holder securely in the position it occupies when overlying said signal.

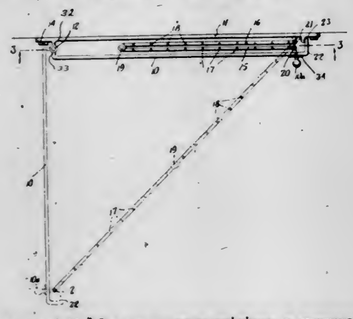
2,348,138
TELEPHONE SUPPORT
Florence A. Latus and William H. Lehrfeld, Freeport, N. Y.
Application August 4, 1942, Serial No. 453,598
4 Claims. (Cl. 179—157)



3. A telephone supporting device adapted to be carried on the shoulder of the user to permit the carrying on of speech without manual support of the telephone, and also adapted to be supported on the cradle which normally supports such telephone when not in use, such device comprising a generally U shaped frame element comprising spaced members adapted to engage the front and rear shoulder portions of the user, means for maintaining such frame members in spaced relation, and an arm extending from the frame element for engaging the back of the user to prevent forward movement of such frame element relative to the shoulder of the user, an elongated horizontal plate supported adjacent to its terminals between such spaced frame members, and a telephone clamping element adjustably carried by said plate, the lower surface of such plate

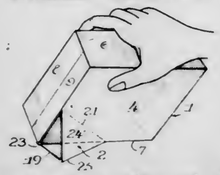
being adapted to depress the weight-operated switch associated with said cradle when the device is in position on such cradle.

2,348,139
NECKTIE HANGER
Maurice E. Lessin, Bronx, N. Y.
Application August 31, 1943, Serial No. 500,685
8 Claims. (Cl. 211—7)



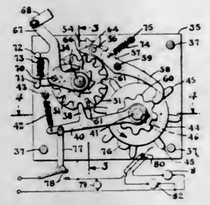
6. A necktie hanger comprising a support, an enclosing member having an end pivoted to an end portion of the support in offset relation to the support to fold into substantial parallelism therewith, combined latch and stop means between said support and the free end portion of said enclosing member to arrest the inward motion of the member and to retain the same in such parallel relation, and a pair of tie-rack sections nested into the space between said support and member, said sections being pivoted together at one end, the other end of one section being pivoted to the support at the opposite end portion from that to which said member is pivoted, the other end of the other section being pivoted to the free end portion of said member.

2,348,140
CONTAINER HAVING A POURING SPOUT
Eli H. Levin, Chicago, Ill.
Application January 29, 1942, Serial No. 428,709
1 Claim. (Cl. 229—7)



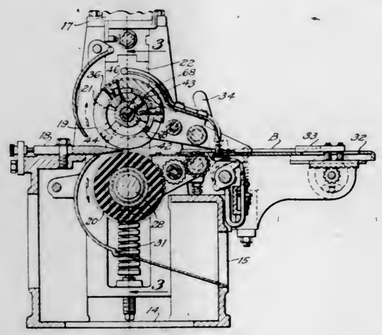
A dispensing container formed of an integral blank of suitable material, a relatively narrow side panel projecting from a side of the container having a part formed as a triangular extension projecting from this side of the container, a triangular portion of this side of the container adjacent the triangular extension forming therewith a substantially V-shaped pouring spout in one corner of the container, the base of the triangular portion being scored to form an edge providing a pivotal hinge connection for the spout and the other two sides of this triangular portion being marked for separation from the adjacent top and side of the container, one plane edge of the triangular extension being so arranged that when the spout is withdrawn for pouring, this edge abuts against an adjacent surface of the container and retains the spout in pouring position.

2,348,141
COMPUTING MECHANISM
Hans P. Luhn, North Tarrytown, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, a corporation of New York
Application May 31, 1939, Serial No. 276,659
12 Claims. (Cl. 235—132)



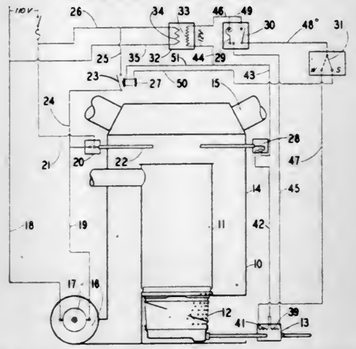
1. In a computing mechanism, the combination of a plurality of selector discs each having two effective positions, the discs being arranged to form a counting train, movement of the first disc of the train from its first to its second position representing a unit, movement of the second disc from its first to its second position representing a base number, movement of successive discs from their first to their second positions representing the base number raised to successive arithmetically ascending powers, mechanical means comprising a movable member and adjustably located pins thereon to set said discs individually and concurrently to register numbers thereon, each number being represented by the values of the discs moved, and means rotatable relatively to said discs, operable upon the completion of a count equal to the sum of the registered numbers for indicating the completion of the count.

2,348,142
SOLE SKIVING MACHINE
Kenneth W. Macdonald, Watertown, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application October 27, 1941, Serial No. 416,631
24 Claims. (Cl. 12—17)



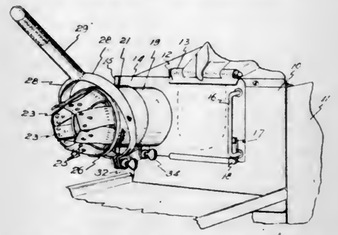
1. In a sole skiving machine the combination comprising, a skiving knife, a matrix roll having fixed matrix depressions in the periphery thereof and adjustable matrices thereon, a cooperating feed and pressure roll, and means for rotating both of said rolls to feed an outsole past said skiving knife.

2,348,143
CONTROL FOR COMBUSTION APPARATUS
John W. Miller, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application January 19, 1942, Serial No. 427,229
3 Claims. (Cl. 236—9)



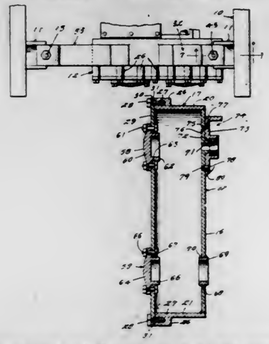
1. A control system for combustion apparatus comprising, in combination: a fuel valve operable between predetermined opened and closed positions; a first motor associated with said valve for moving the latter between said predetermined positions; a second motor associated with said valve for limiting in one direction the movement of the valve imparted thereto by the first motor; an air circulating fan associated with said combustion apparatus for supplying air to the latter and a motor for operating said fan; a circuit for said first motor; a circuit for said second motor; and a control circuit for said fan motor including means common to both of said last named circuits for selectively closing one or the other of said circuits.

2,348,144
DEVICE FOR PACKAGING HAMS OR THE LIKE
John Opie, Chicago, Ill.
Application January 22, 1942, Serial No. 427,702
6 Claims. (Cl. 226—18)



6. In a means of the described class for selectively gripping and holding an open ended container during a food body inserting operation; a passaged substantially cylindrical nozzle through which the food body is forcibly movable; a collar slidable about said nozzle and movable longitudinally, said collar having a plurality of spaced apart openings therein; a plurality of finger-like inwardly curved movable gripping members having their corresponding ends pivotally and removably engaging the openings of said collar to provide for outward and inward pivotal movement of said gripping members whereby retracting movement of said collar causes said gripping members to slidably engage the end portion of said nozzle to cause the gradual spreading apart of said gripping members; and lever mechanism pivotally connected to said nozzle and pivotally connected at an intermediate point to said collar for selectively moving said collar along said nozzle and for selectively retracting, projecting and spreading apart said gripping members to cause the outer end portions of said gripping members, upon spreading apart movement, to engage and hold the open end of a container.

2,348,145
METHOD OF FORMING STEEL POWER TRANSFER HOUSINGS
Arthur R. Perkins, Oneonta, N. Y.
Application July 23, 1941, Serial No. 403,732
2 Claims. (Cl. 29—153.1)

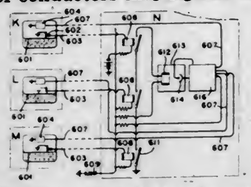


1. The method of forming a steel power transfer housing having a substantially elliptical configuration, flat front and rear walls, an endless wall, bolt lugs on the outer sides of the endless wall and outwardly convergent hanger members adjacent the upper portion of the endless wall; said method including initially bending an elongated flat steel strip into substantially elliptical form, welding the ends of the strip together, positioning the front wall inside the bent strip with the outer side of the front wall parallel with the forward edge of the bent strip, welding the inner and outer edges of the circumference of said front wall to the bent strip, welding the bolt lugs to the outer sides of the endless wall, welding the divergent ends of two pairs of flat strips to the outer sides of the endless wall, and finally welding the convergent ends of the pairs of strips together.

2,348,146
TELEGRAPH SIGNAL TRANSLATING SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application November 15, 1940, Serial No. 365,730. Divided and this application November 9, 1942, Serial No. 464,994
16 Claims. (Cl. 178—2)

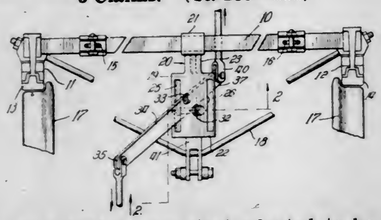
13. In a telegraph system, a plurality of subscribers' stations, a transmitter capable of generating character signals of one type at each station, a receiver at each station responsive to signals of a different type, a central office, a pair of line conductors connecting each of said stations to said central office, means at said central office for interconnecting pairs of said conductors, and means at said central office and associated with

said means for translating the signals generated by said transmitter and transmitted over one of said pairs of conductors into signals of the other



type and transmitting said signals over one conductor of each of the pairs of interconnecting conductors for operating the receiver at each of the interconnected stations.

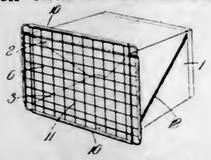
2,348,147
BRAKE BEAM STRUT AND BRAKING ASSEMBLY
Malcolm Pringle, Litchfield, Ill.
Application August 13, 1942, Serial No. 454,736
3 Claims. (Cl. 188—232)



1. In a brake beam strut adapted to be connected at one end to a brake beam and adapted to provide means for fulcruming a brake lever of a car braking apparatus; a central body having a pair of spaced apart independent longitudinally extending slots therein, said slots being disposed angularly with respect to each other; said strut having an integral transversely passaged end portion; said body having portions thereof apertured to form a passage traversing one of said slots and having apertures therein forming a second pin-receiving passage traversing the other of said slots; said body being adapted to have a brake lever pivotally mounted and fulcrumed in either one or the other of said slots; the transversely passaged end portion integral with said body being adapted to receive and have a brake beam element mounted therein in position substantially perpendicular to the longitudinal axis of said strut; and an integral extension on the strut end opposite to said brake beam element receiving end and having brace rod-receiving recesses whereby the intermediate portion of the brace rod may be mounted therein, and having apertures therein adapted to have removably connected thereto a supplemental means for suspending said strut and connected parts.

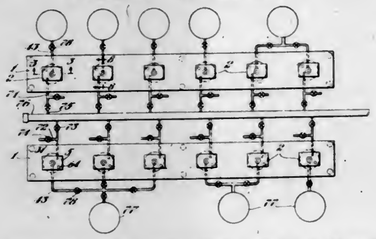
2,348,148
VENTILATOR
Alexander Mitchell Rankin, Welling, England, assignor to Broad & Company Limited, Paddington, London, England
Application January 29, 1942, Serial No. 428,783
In Great Britain September 8, 1941
5 Claims. (Cl. 98—37)

1. A ventilator for establishing a light-tight air passageway between the interior and exterior surfaces of a wall which comprises means defining a rectangular passageway open at both ends, and a pair of rectangular plates extending diagonally through said passageway from one open end to the other and intersecting to form an X, each of said plates having a substantially V-shaped cut-out therein extending from its edges adjacent the open ends of the means defining the



passageway to the point of intersection, opposite edges of said plates being so cut out to form a tortuous air passage through the rectangular passageway while sealing the latter against passage of light therethrough from one open end to the other.

2,348,149
FORMULA COMPOUNDING APPARATUS
Albrecht E. Reinhardt, Milton, Matthijs G. J. Boissevain, Arlington, Ascher H. Shapiro, Cambridge, and Charles A. Cady, Boston, Mass., assignors, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 18, 1941, Serial No. 389,158
4 Claims. (Cl. 222—14)

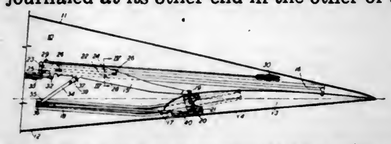


1. Apparatus for compounding a mixture by delivering measured ingredients comprising a plurality of metering units each having ingredient supply means and electrically controlled metering means for measuring and subsequently delivering its respective ingredient and each including a series of control circuits corresponding to a series of measuring units to be delivered, a record card having means for partially establishing a selected control circuit of each metering unit, means controlled by each unit only when it is free of measured ingredient for initiating the operation of the measuring means of the unit, means controlled by the quantity of ingredient in the unit for completing said selected control circuit when the selected amount has been measured and means responsive to the completed control circuits for actuating each of said metering means to interrupt the measuring means and to deliver the number of measuring units corresponding to its selected control circuit.

2,348,150
EXTENDIBLE WING FLAP
Elvin O. Richter, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application June 2, 1941, Serial No. 396,347
5 Claims. (Cl. 244—42)

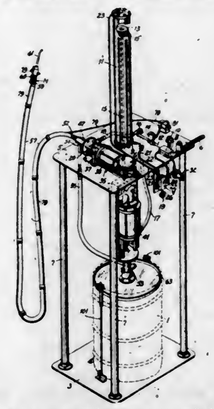
1. In combination with an airfoil and an extensible edge flap normally nested in a pocket adjacent the edge of said airfoil, a pair of guide tracks mounted in said airfoil adjacent each side

of said flap, a pair of levers each supported by one of said guide tracks and movable thereon, said levers each having one end thereof pivotally attached to said flap in spaced relationship to each other, one of said levers having a two point support on its track whereby its angular position relative to said airfoil is determined by the angle or curvature of its track, the other of said levers being journaled at its other end in the other of said



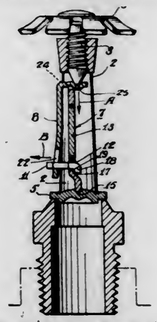
tracks whereby the relative angles and curvatures of said tracks varies the position of the free end of said second lever relative to the first lever, and a link pivotally connecting the free end of the second lever to said first lever whereby the link, the pair of levers and the spaced pivotal mounting thereof on the flap forms a deformable quadrilateral wherein movement of the free end of the second lever as restrained by the link is adapted to pivot said flap relative to the airfoil.

2,348,151
PUMP
Lutwin C. Rotter, Maplewood, and Victor G. Klein, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application May 26, 1941, Serial No. 395,136
3 Claims. (Cl. 222—75)



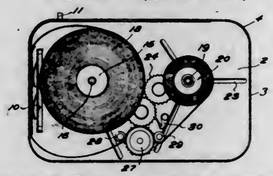
1. Pumping apparatus comprising a primary pump, a secondary pump, pneumatic means for operating the pumps including an air supply line, an outlet line, said secondary pump receiving material from the primary pump and delivering it to said outlet line, the volumetric displacements of said pumps being substantially equal per unit of time, but the rate of reciprocation of the second pump being higher than that of the first, means feeding air to both of said pneumatic means, a control nozzle at the end of said outlet line, a valve in said nozzle, means responsive to opening of said valve to supply air to the air line and comprising a solenoid air valve in the air line, a switch arranged for operation with said outlet valve, said switch being adapted to open said solenoid valve when the nozzle valve is open or to close said solenoid valve when the nozzle valve is closed, and air pressure means for priming said primary pump and pressure control means for said air pressure priming means.

2,348,152
FUSIBLE LINK CONSTRUCTION FOR SPRINKLER HEADS
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 13, 1943, Serial No. 479,089
8 Claims. (Cl. 169—39)



1. In a fusible link, a strut member having an opening, a lever element fulcrumed on one end of the strut, a tension element interlocked with the lever at one side of the fulcrum and having an end thereof detachably engaged in the strut opening, a locking element loosely inserted in said opening and coacting with the tension element to retain the latter in said opening, and a fusible composition normally retaining the said element in locking position in the opening, said link being adapted to be placed under longitudinal compression by forces applied respectively to the lever at the other side of the fulcrum and to the opposite end of the strut.

2,348,153
FILM MAGAZINE
Walter O. Runcie, Lima, Peru, assignor of twenty-five per cent to Harold L. Price, Alexandria, Va.
Application August 14, 1941, Serial No. 406,914
1 Claim. (Cl. 88—17)



A pre-loaded film magazine including a casing having a detachable cover and provided with an exposure opening, spaced stems disposed within the casing and secured to one wall thereof, the free ends of said stems being provided with threaded openings, a film supply spool rotatably mounted on one of said stems, a take-up film spool rotatably mounted on the other stem, said take-up spool having a gear, a feeder sprocket rotatably mounted within the casing adjacent the lower portion thereof and provided with a gear, idle rollers disposed at opposite sides of the feeder sprocket, gears meshing with each other and with the gears on the take-up sprocket and feeder sprocket respectively, a pawl engaging one of said gears for limiting said gear against any but uni-directional rotative movement, the film from the supply spool being extended downwardly across the exposure opening and thence laterally over the feed sprocket and under the idle

rollers to said take-up spool, and screws passing through the cover and engaging the threaded openings in the stems for detachably holding the cover in position on the casing and preventing displacement of the spools and their associated parts.

2,348,154

VINYL CHLORIDE COPOLYMERS

Winfield Scott and Raymond B. Seymour, Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 22, 1939, Serial No. 269,407
13 Claims. (Cl. 260—86)

10. A method of preparing copolymers of vinyl chloride and vinylidene chloride which comprises polymerizing at a temperature between about 20° and 80° C. a mixture of the same in an aqueous emulsion containing an oxidizing catalyst, a buffer adapted to maintain a hydrogen ion concentration above pH 6.0 and an emulsifying agent from the group consisting of organic sulfates and alkali metal salts of organic sulfonates, each of which contains an aliphatic group.

2,348,155

MOLD-FACING SAND

Connor B. Shanley, Kirkwood, Mo.

No Drawing. Application November 30, 1942, Serial No. 467,387
3 Claims. (Cl. 22—189)

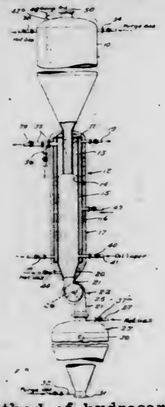
1. A mold-facing sand having the characteristics and properties described and comprising, as its constituents, sand, and bentonite, pitch, and sea-coal in the following approximate proportions, namely, sand 80%, bentonite 12%, pitch 4%, and sea-coal 4%, the bentonite, the pitch, and the sea-coal being each in the form of a dry powder of relatively fine mesh and the sand being of sharp type possessing a degree of refractoriness for withstanding metal temperatures up to approximately 3000° F.

2,348,156

CONVERSION OF HYDROCARBON OILS

Bruce Sheppard, Bridgewater Township, Somerset County, N. J., assignor to Petroleum Conversion Corporation, Elizabeth, N. J., a corporation of Delaware

Application June 15, 1939, Serial No. 279,282
3 Claims. (Cl. 196—52)



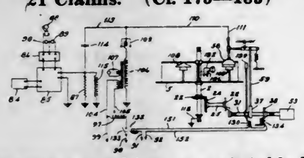
1. In the method of hydrocarbon oil conversion in which the conversion to other hydrocarbon compounds of different properties is brought about by pyrolysis in the presence of a solid contact material or agent, the improvement which consists of moving in a column said contact material from a source of supply through a conversion chamber and to a receiver therefor, introducing hydrocarbon vapor to be converted adjacent one end of said chamber, withdrawing converted products adjacent the other end of said chamber, supplying hot inert gas at points above and below the path of said vapors to be converted, said gas being supplied at a somewhat greater pressure than that existing in said chamber to prevent leakage of vapors of conversion from said chamber into said source of supply or into said receiver, said inert gas being at a sufficient temperature and of adequate quantity to maintain the vapor in said chamber at its active conversion temperature, and withdrawing from said chamber said inert gas admixed with the converted vapor products.

2,348,157

RADIO INTERFERENCE TESTING MACHINE

William A. Smith and Charles J. Miller, Jr., Barberton, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application February 5, 1942, Serial No. 429,704
21 Claims. (Cl. 175—183)



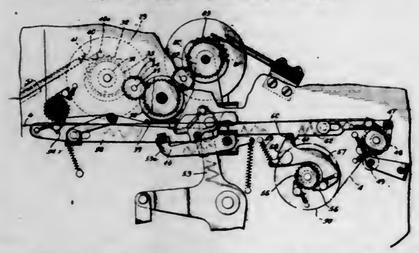
1. In a testing machine; a work table having a plurality of work stations thereon; means to index said table; a vertically movable electrode above said table; means to vertically move said electrode in timed relation to said table; circuit means to apply a high potential to a work piece on said table; a switch to close said circuit; means to close said switch operating in timed relation with said indexing means and said electrode moving means; light sensitive means to open said circuit in response to a predetermined condition of said work station; and means to measure the radio influence voltage of said work piece when said high potential is applied thereto.

2,348,158

COMMUNICATIONS DEVICE

Alfred L. Sprecker, Freeport, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 13, 1941, Serial No. 414,817
13 Claims. (Cl. 234—27.5)



1. In a ship's telegraph system comprising two stations at separate locations and with each station including a signal sending device positionable to send any one of a number of preselected signals to the other station; a recorder common to both stations and comprising a separate type carrier for each station and each type carrier having spaced type thereon corresponding in number and character to the different signals sendable by its respective station; means responsive to the positioning of either signal device to send a signal, for moving its respective type carrier so as to bring the character corresponding to the signal sent into printing position; and means responsive to the actuation of said first-named means for effecting printing from both of said carriers so that each time a signal is sent by either station, both such signal and the signal position of the sending device of the other station are recorded.

2,348,159

PRODUCTION OF ACYCLIC CONDENSATION PRODUCTS OF ACETYLENE

Hanns Peter Staudinger, Ewell, and Karl Heinrich Walter Tuerck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application January 22, 1941, Serial No. 375,538. In Great Britain January 6, 1940
3 Claims. (Cl. 260—483)

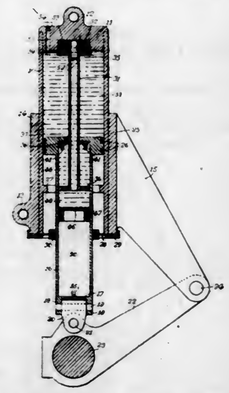
3. As new compositions of matter, acyclic α-vinyl acetoacetic ester compounds of the general formula $CH_3CO—CR_1(CH=CH_2)—COOR_2$ wherein R_1 is selected from the group consisting of hydrogen and alkyl and R_2 is alkyl.

2,348,160

LIQUID DAMPED TELESCOPIC SHOCK ABSORBER

Peter Warborn Thornhill, Leamington Spa, England, assignor to John Henry Onions, Coventry, England

Application February 25, 1943, Serial No. 477,125
In Great Britain February 20, 1942
7 Claims. (Cl. 267—64)



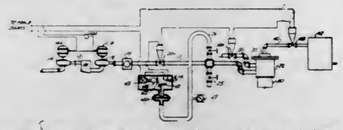
1. A liquid damped telescopic shock absorber comprising a cylinder having an end closure wall, a hollow plunger having an apertured piston head arranged to slide longitudinally within said cylinder, a recoil piston, a tubular stem anchored to the end closure wall of said cylinder, passing through the aperture in said piston head and supporting said recoil piston within the hollow plunger for relative sliding movement, means for establishing fluid connection between the working space of said cylinder and the interior of said hollow stem adjacent the point of anchorage of the latter, the hollow stem serving as a liquid connection which extends from the cylinder to the hollow plunger at a point beyond the recoil piston, said recoil piston blocking communication from the working space of the hollow plunger beyond it and the working space of the hollow plunger between it and said piston head, a resiliently loaded floating piston in said hollow plunger acting toward said recoil piston in the working space of the hollow plunger therebeyond, and an annular damping valve mounted on said piston head and adapted to restrict liquid flow from said hollow plunger to said cylinder through the aperture in said piston head upon relative movement of the piston head and the end closure wall away from one another while permitting flow of liquid from said cylinder into said hollow plunger through said piston head upon relative movement of the latter toward the end closure wall, whereby the extending movement of the shock absorber is damped.

2,348,161

SALT WATER DISPOSAL SYSTEM

Everett Norwood Van Duzee, Lake Charles, La., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application June 20, 1942, Serial No. 447,815
3 Claims. (Cl. 166—1)



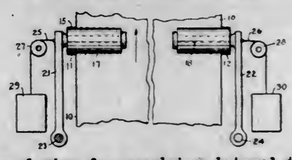
1. A water disposal system comprising an injection well traversing porous strata adapted to receive the water, conduit and casing means for injecting said water into the desired porous strata, tubing means depending into the well within said casing to a point below the normal water level in said well, a source of pressure gas, conduit means connecting said pressure gas source to the upper portion of said tubing means, discharging conduit means opening from the annular space between said casing and tubing means, normally open valve means in said water injecting conduit, normally closed valve means in said pressure gas conduit, and control means responsive to the pressure in said water injecting conduit adapted to close said first valve means and to open said second valve means in response to a predetermined pressure rise in said water injecting conduit.

2,348,162

WEB SPREADER

Edgar Warner, Middletown, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

Application August 25, 1941, Serial No. 408,226
11 Claims. (Cl. 271—2.1)



1. In a device for applying lateral tension to a moving web of paper: a pair of resiliently sur-

faced, freely rotating, pressure rollers frictionally engaging opposite sides of the web for a small part of its width, near one edge thereof; a second and similar pair of rollers oppositely mounted and similarly engaging the web near the opposite edge thereof; each of said pairs of rollers being mounted and adapted to swing freely on a pivot located at a material distance, in the direction from which the web is travelling, from the axes of roller rotation, said pivot being substantially perpendicular to the plane of the web, whereby said rollers tend, by virtue of their engagement with the moving web, to orient themselves by swinging on their respective pivots, and thereafter to maintain their axes of rotation at right angles to the direction of travel of the web; and means for exerting oppositely directed and substantially equal forces on each of said pairs of rollers, in directions tending to pull them off of the edges of the web.

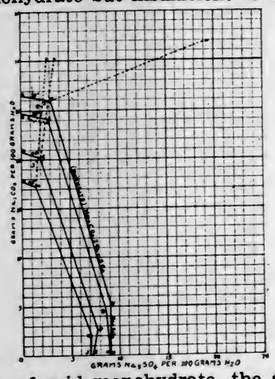
2,348,163
AIR FILTER
Robert F. Zimmerman, Cincinnati, Ohio
Application August 18, 1941, Serial No. 407,253
1 Claim. (Cl. 183—112)



An air filter, comprising, a frame of rectangular box-like structure providing side walls and a series of supporting walls extended across and within the box-like structure, said supporting walls being secured to and between opposite side walls, and being disposed parallel with the other side walls, the supporting walls including arcuate slots, the slots in the respective supporting walls being disposed in alignment, a transversely curved filter vane member disposed in each set of aligned slots, and legs for supporting said box-like structure in an inclined position for permitting the passage of air through and against the vanes, whereby said vanes have the action of cleansing and deflecting the air entering one side into a path at right angles to the path of entry as the air leaves the other side.

2,348,164
PROCESS OF PREPARING SOLUTIONS CONTAINING HIGH RATIOS OF SODIUM CARBONATE TO SODIUM SULPHATE
Leroy G. Black, Elliott Bryant Fitch, and Henry Bruno Suhr, Trona, Calif., assignors to American Potash & Chemical Corporation, Trona, Calif., a corporation of Delaware
Application November 4, 1939, Serial No. 302,904
6 Claims. (Cl. 23—296)

1. A process of increasing the sodium carbonate to sodium sulphate ratio of solutions containing a greater ratio of sodium carbonate to sodium sulphate than that of burkeite and containing sufficient sodium carbonate and sodium sulphate that substantial amounts of both burkeite and sodium carbonate monohydrate will be precipitated upon saturation with sodium chloride at temperatures within the burkeite range, which process comprises, precipitating burkeite from said solution at a temperature within said range sufficiently high to cause substantial precipitation of said monohydrate if sufficient sodium chloride were present to saturate said solution with sodium chloride at said temperature, said precipitating being carried out in the presence of sufficient sodium chloride to produce at least saturation of said solution with said monohydrate but insufficient to cause pre-

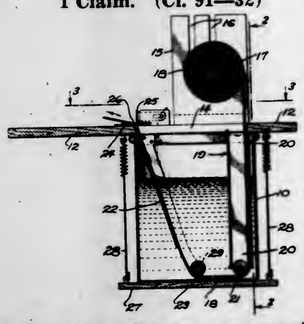


cipitation of said monohydrate, the amount of sodium chloride in said solution at said temperature being substantially less than that required to saturate said solution with sodium chloride at said temperature.

2,348,165
COAGULANT COMPOSITION
George T. Buchanan, Chicago, Ill.
No Drawing. Application March 6, 1941, Serial No. 381,973
1 Claim. (Cl. 260—821)

A coagulant composition for latex comprising rubber cement, 25 parts; volatile solvent 29 parts; water, 30 parts; finely divided mica, 5 parts; coagulating salts, 10 parts; and modifying agent from the group consisting of karaya gum, starch, bentonite, and clay, one part, all thoroughly mixed together.

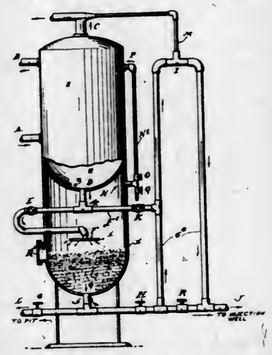
2,348,166
APPARATUS FOR APPLYING FILLER TO TAPE
Walter T. Cavanaugh and George E. Viera, Oakland, Calif.
Application October 9, 1942, Serial No. 461,392
1 Claim. (Cl. 91—32)



In combination with an open-mouthed container, a frame to overlie the container and rest upon the upper open end of the container, means on the frame for rotatably supporting a roll of tape thereon above the container, a guide member fixed to the frame and depending perpendicularly into said container to a point just short

of the bottom thereof, roller means at the lower end of the guide member on an axis parallel to the axis of the roll of tape to enable tape from said roll to be led downwardly into the container and around said roller means and then upwardly out of the container, said guide member including a chute having four imperforate sides extending from said frame above the container to a point closely adjacent to said roller means and downwardly through which the tape is led to the roller means, said frame having a narrow throat formed therein above the container and through which the tape is to pass as it emerges from the container, a scraper blade at one side of said throat for removing any mixture adhering to one side of the tape, gauge means at the opposite side of the throat for removing any mixture adhering to the opposite side of the tape beyond a predetermined thickness.

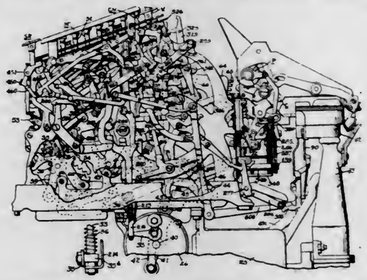
2,348,167
BRINE FILTER-SKIMMER CHAMBER FOR CLOSED CRUDE OIL EMULSION TREATER TANKS
Ransome W. Erwin, Tyler, Tex.
Application June 8, 1942, Serial No. 446,192
10 Claims. (Cl. 252—328)



1. A method of treating a mixture of oil, water and emulsion which comprises roughly separating the water from the oil and emulsion in a closed treating chamber, passing said water downwardly to a filtering zone in a lower chamber separate from the initial treating chamber, to remove insoluble foreign matter, allowing any remaining oil to separate from the water in the filtering chamber, continuously withdrawing the separated oil from the filtering chamber and returning the separated oil to the initial treating chamber, and withdrawing the filtered water from which both oil and mineral impurities have been removed for passage to a brine disposal well.

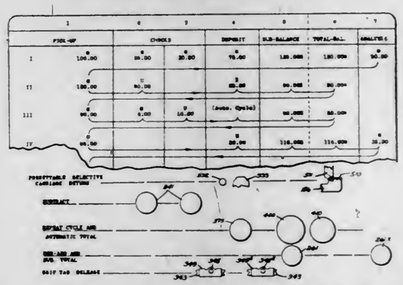
2,348,168
ACCOUNTING MACHINE AND THE LIKE
Arthur J. Fettig, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application August 24, 1940, Serial No. 354,130
24 Claims. (Cl. 235—60)

1. A machine of the class specified having means for giving it cycles of operation, a traveling carriage movable to a plurality of columnar positions, carriage tabulating means normally operating in each cycle of machine operation to tabulate said carriage to the next columnar position in one direction, carriage return means for returning said carriage in the opposite direction, a member moved by said cycling means in machine cycles, means controlled by said carriage in accordance with the positions thereof, and control means governed by said carriage-controlled means to enable said moved member to render said carriage return means effective in a cycle of machine operation initiated when the carriage is in a predetermined columnar position, said con-



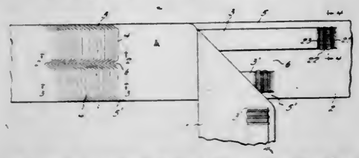
trol means including means presettable when the carriage is in a columnar position preceding and nonadjacent to said predetermined columnar position to cause said control means to enable said moved member to render said carriage return means effective in a cycle of machine operation initiated when said carriage is in a columnar position intermediate said predetermined and preceding columnar positions.

2,348,169
ACCOUNTING MACHINE AND THE LIKE
Robert L. Muller, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application February 28, 1942, Serial No. 432,813
29 Claims. (Cl. 235—60)



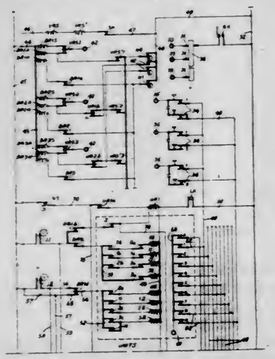
1. A machine of the class specified having a traveling carriage movable to a plurality of columnar positions, means to tabulate said carriage in one direction, power-operated means to return said carriage in the opposite direction, control means to render said return means effective to return said carriage, means controlled by said carriage to condition said control means to render said return means effective when said carriage is in its final columnar position in the direction of its tabulating movement, presetting means, and means controlled by said carriage and, when said carriage is in a predetermined nonadjacent preceding columnar position, rendered presettable by said presetting means to enable it to condition said control means to render said carriage return means effective when said carriage is in a columnar position intermediate said preceding and final columnar positions.

2,348,170
LADDER WEB WITH DIFFERENT COLORED BANDS
Edwin J. Gibbons, East Providence, R. I., assignor to Thomas French & Sons, Ltd., New York County, N. Y., a corporation of New York
Application July 26, 1941, Serial No. 404,112
3 Claims. (Cl. 139—384)



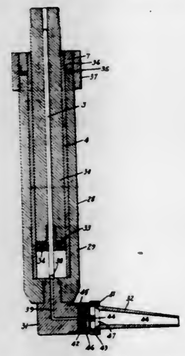
1. Ladder web comprising two outer bands composed of warp woven with band weft, a series of cross-strap warp threads alternately woven into said bands providing areas of junction of bands and cross-straps, the strap warps in the areas of junction lying on the inner faces of said bands and being woven into the outer bands by the band weft, the weave of said bands at said areas being two and two warp rib, the strap warps in the areas of junction being interlaced with one of the two weft threads in each shed, one group of strap warps being interlaced into spaced apart sheds and another group of said strap warps into intermediate sheds, said strap warps being concealed from the outer faces of said bands by the band warps interposed between said strap warps and said outer faces.

2,348,171
ACCOUNTING MACHINE
Walter Scheerer and Kurt Locklair, Berlin-Lichterfelde, Germany, assignors to International Business Machines Corp., New York, N. Y., a corporation of New York
Application December 15, 1939, Serial No. 309,407
In Germany January 10, 1939
12 Claims. (Cl. 235—61.6)



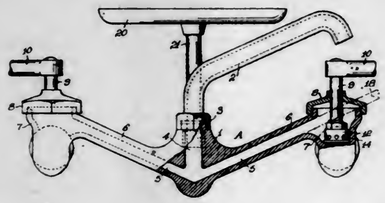
7. An order of an electrical relay accumulator comprising a plurality of electromagnets on which all digital values are represented electrically by the energization of said magnets in combinations of one or two magnets, a plurality of pairs of contacts operated by said magnets to take a different relative adjustment for each digit representation, circuit connections between the contacts and magnets, means for transmitting impulses through said connections, the adjustment of the contacts serving to direct the impulses to energize the magnet or magnets to represent a higher digit.

2,348,172
APPARATUS FOR EXTRUDING METAL
George F. Taylor, Detroit, Mich., assignor to Carboloy Company, Inc., Detroit, Mich., a corporation of New York
Original application November 4, 1939, Serial No. 302,901. Divided and this application June 21, 1940, Serial No. 341,757
1 Claim. (Cl. 18—12)



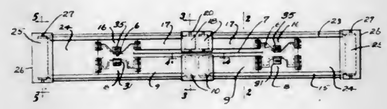
An extrusion apparatus comprising a cylinder, an open ended tube mounted therein and adapted to contain material to be extruded, a die secured to one end of said cylinder, a series of wire screens of gradually varying mesh positioned between said die and cylinder, the finest screen being adjacent said die and the coarsest screen farthest away from said die, and means for applying pressure to material in said tube to thereby extrude it successively through said screens and said die.

2,348,173
METHOD OF PRODUCING FAUCET BODIES OR THE LIKE
Stephan A. Young, Delphi, Ind., assignor to Globe Valve Corporation, Delphi, Ind., a corporation
Application April 3, 1941, Serial No. 386,707
1 Claim. (Cl. 22—200)



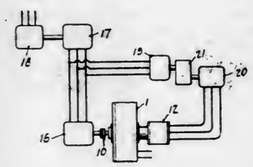
In the art of producing faucet bodies, or the like, by pressure casting methods, wherein the faucet body to be produced shall include a water passage disposed at an angle to an open ended valve casing through which open end a valve control member is to be inserted, that improvement which consists in locating a core in the dies for forming the body having said water passage so that it is in alignment with the open end of the valve casing to be formed on the body so that the core may be withdrawn by longitudinal movement through the said casing opening, supplying the casting material to the dies under pressure to surround the core, and then displacing the core through the valve casing opening.

2,348,174
DRIER
Charles E. Blanchard, Randolph, and Albert W. Ferre, Wellesley, Mass., assignors to B. F. Sturtevant Company, Boston, Mass.
Application March 28, 1942, Serial No. 436,578
10 Claims. (Cl. 34—242)



1. An air seal for a drier having spaced conveyors movable along tracks for moving web to be dried through the drier, and having a slot through which the conveyors and web move, said tracks being adapted to be variably spaced for enabling said conveyors to accommodate webs having different widths, comprising a pair of sheet members extending from said conveyors and between same crosswise said slot, means movable with said tracks attached to the outer ends of said members, and means between said conveyors and including means attached to the inner ends of said members for winding up said members when said tracks are moved towards each other.

2,348,175
TORQUE TESTER
Ray H. Cripps, South Gate, Calif., assignor to Sawyer Electrical Mfg. Company, Los Angeles, Calif., a corporation of California
Application March 24, 1941, Serial No. 384,911
14 Claims. (Cl. 265—24)



14. In a device for measuring torque, a dynamometer having a variable load depending upon speed of rotation, a booster motor having a predetermined variable output connected to drive the shaft of the dynamometer and compensating for the varying load of said dynamometer to obtain accurate torque readings at different speeds and for variable load conditions above a predetermined minimum, and means for varying the speed of said booster motor.

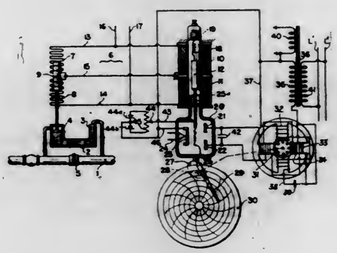
2,348,176
PACKAGING PROCESS
Gordon E. Gott, Cambridge, Emile E. Habib, Arlington, Francis B. Casey, Belmont, and Benjamin A. Fairbank, Cambridge, Mass., assignors to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Application December 12, 1938, Serial No. 245,298
6 Claims. (Cl. 99—174)

1. The process of packaging a food product which comprises expanding an impervious, flexible and stretchable bag, of material which loses its contractibility on chilling, to a size larger than the product, cooling the expanded bag,



placing the product in the bag, collapsing the expanded bag on the product, and sealing the bag hermetically.

2,348,177
MEASURING AND CONTROL APPARATUS
Earl A. Keeler, Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 17, 1939, Serial No. 251,303
19 Claims. (Cl. 171—95)

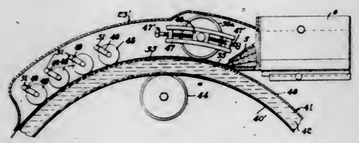


1. Measuring apparatus including a galvanometer having a movable coil connected to a voltage to be measured, an electron discharge tube having a pair of spaced anodes, a cathode and a control electrode, said control electrode being adapted to be moved relatively to said anodes in accordance with the movements of the movable coil of said galvanometer, means to indicate the magnitude of said voltage, and means differentially connected to said anodes and cathode to control said indicating means.

2,348,178
METHOD OF MAKING METALLIC PRODUCTS OF SHEETLIKE FORM
Joseph M. Merle, Tarentum, Pa.
Application November 3, 1937, Serial No. 172,516
5 Claims. (Cl. 22—200.1)

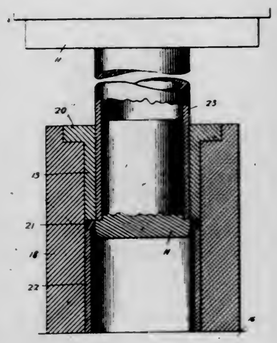
1. The process of producing a metallic shape of solid and of substantially constant cross section throughout its length directly from molten metal which comprises pouring molten metal

onto a continuous cooling member moving upwardly against gravity and being free from lateral flanges, continuously displacing said cooling member at a high linear velocity sufficient to carry said metal upwardly against gravity while permitting the molten metal to spread freely and laterally into a body of substantially constant cross section and to cool the bottom of said body to freeze the metal on the underside thereof and to reduce the temperature of the molten metal on the upperside thereof, said displacing operation being effected while maintaining said metal free from the influence of any stationary body,



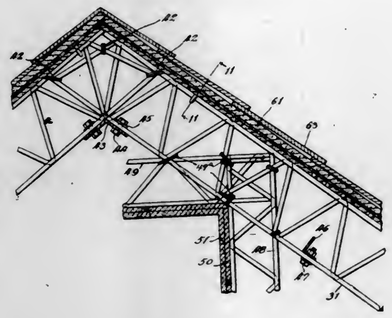
continuing the aforesaid displacing operation to carry said cooling member and metal thereon to a region about uppermost of the center line of said cooling member, and applying rolling pressure to the exposed molten surface of the said displaced metal to cause a flow of molten metal to make the top and bottom surfaces of said displaced metal substantially parallel to each other while cooling the molten metal to complete the solidification and consolidation thereof throughout the entire cross section whereby a metallic shape of solid and of substantially constant cross section throughout its length is produced.

2,348,179
METHOD AND APPARATUS FOR THE PRODUCTION OF CYLINDRICAL METAL ARTICLES
Charles H. Moore, West Chester, Pa., assignor to Lenape Hydraulic Pressing & Forging Co., Lenape, Pa., a corporation of Delaware
Application July 31, 1943, Serial No. 496,946
10 Claims. (Cl. 164—125)



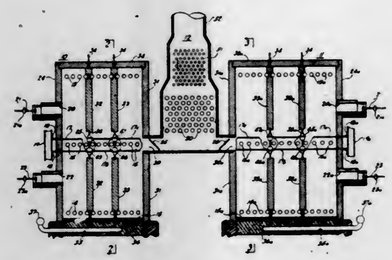
1. The method of producing a cylindrical article from a solid metallic body, which consists of supporting the body upon a knife ring within a recess, and forcing through said body a hollow punch of an external diameter slightly less than the internal diameter of said knife ring.

2,348,180
BUILDING STRUCTURE
Lewis A. Paley, Bloomingdale, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1940, Serial No. 346,687
3 Claims. (Cl. 72—1)



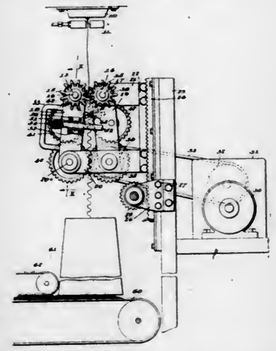
3. The method of building a laminated, fireproof, nailable floor or roof deck in a permanent building structure, comprising securing a layer of gypsum board on a permanent support forming part of said structure, superimposing a sheet of large mesh expanded metal on said gypsum board, applying a cementitious layer of material comprising essentially low consistency gypsum of only sufficient thickness to embed said expanded metal therein, and pressing a second layer of plaster board snugly on said gypsum.

2,348,181
PETROLEUM HEATER
Frank H. Praeger, Merion, Pa., assignor to Alcorn Combustion Company, Philadelphia, Pa., a corporation of Delaware
Application June 8, 1942, Serial No. 446,300
10 Claims. (Cl. 122—240)



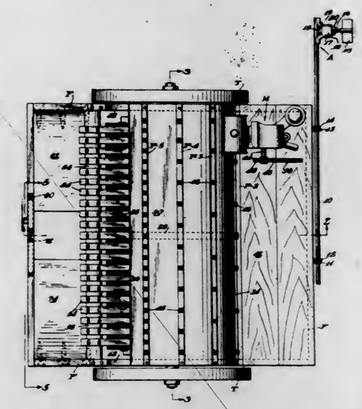
1. In a heater having refractory walls, the combination of banks of tubes disposed in single rows and respectively adjacent to opposite walls thereof, an intermediate bank of tubes disposed in a single row intermediate said first-named banks, fuel burners disposed intermediate the adjacent banks for directing still-burning gases between and across and generally in spaced relation with said banks, and outlet means for the flow of gases from said heater extending along the side of said intermediate bank remotely located from said fuel burners for restricting the flow of the outgoing gases generally to the region of said intermediate bank.

2,348,182
APPARATUS FOR PRODUCING FIBROUS GLASS
Games Slayter, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Original application August 4, 1938, Serial No. 223,104. Divided and this application August 16, 1940, Serial No. 352,912
7 Claims. (Cl. 49—17)



1. Apparatus for producing crimped fibrous glass which comprises means for flowing a stream of molten glass, a pair of intermeshing gear-shaped members of substantially the same cross-sectional form between which said glass stream passes and by which it is simultaneously attenuated and crimped, synchronous electric motors individual to said members adapted to drive the same in intermeshed synchronous relationship, each of said motors being supplied with a common source of electrical energy, and means for moving said members selectively into and out of intermeshing relation.

2,348,183
FODDER TREATING METHOD
Forrest S. Chilton, Pompton Plains, N. J.
Original application August 4, 1942, Serial No. 453,547. Divided and this application January 18, 1943, Serial No. 472,728
2 Claims. (Cl. 99—8)

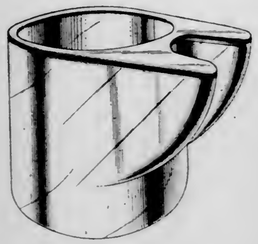


1. In fodder treating methods characterized by topping the plants and subjecting the toppings to sun and atmospheric action, the new and useful improvement consisting in following the topping step by a step comprising striating the stems and by omitting crushing steps, whereby a substantial number of capillaries adjacent to the integuments are multi-tapped, the escape of vaporized water in the sap is facilitated, the curing is accelerated, the food, vitamin and enzyme content of the sap is left internally positioned, the integrality of the plants and the internal cellular structure thereof is substantially preserved and the difficulty of mastication is lessened.

DESIGNS

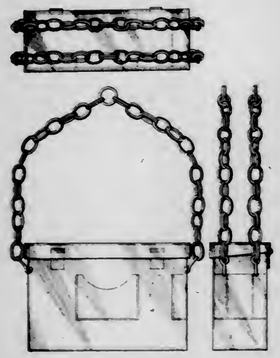
MAY 2, 1944

137,788
DESIGN FOR A COMBINED SHAVING MUG AND BRUSH HOLDER
Charles Harvey Churchill, Cortland, N. Y.
Application February 9, 1944, Serial No. 112,599
Term of patent 14 years
(Cl. D86—10)



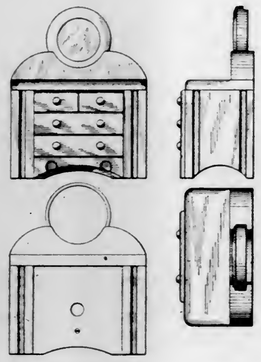
The ornamental design for a combined shaving mug and brush holder, as shown

137,789
DESIGN FOR A HANDBAG
Elsye Cohan, New York, N. Y., assignor of one-half to Ernest Steiner, New York, N. Y.
Application December 9, 1943, Serial No. 111,963
Term of patent 3½ years
(Cl. D87—3)



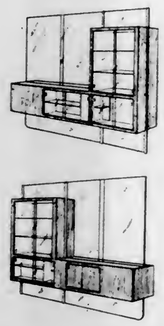
The ornamental design for a handbag, substantially as shown.

137,790
DESIGN FOR A TOY BANK
James Lewis Darling, Philadelphia, Pa., assignor of one-half to John Milton Davis, Blue Ridge Summit, Pa.
Application November 4, 1943, Serial No. 111,586
Term of patent 3½ years
(Cl. D34—11)



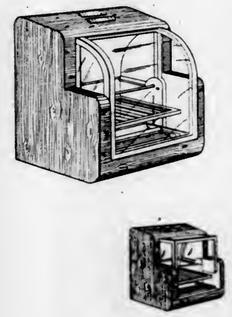
The ornamental design for a toy bank, as shown.

137,791
DESIGN FOR A COMBINED PARTITION AND REFRIGERATOR OR SIMILAR ARTICLE
Halbert Creston Doner, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application September 27, 1943, Serial No. 111,218
Term of patent 14 years
(Cl. D67—3)



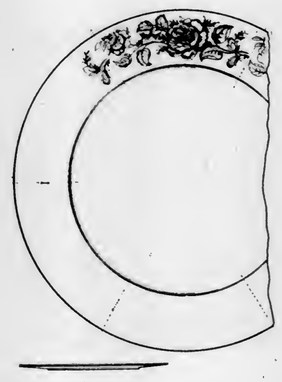
The ornamental design for a combined partition and refrigerator or similar article, substantially as shown.

137,792
DESIGN FOR AN OVEN UNIT OR SIMILAR ARTICLE
Halbert Creston Doner, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application September 27, 1943, Serial No. 111,219
Term of patent 14 years
(Cl. D81—10)



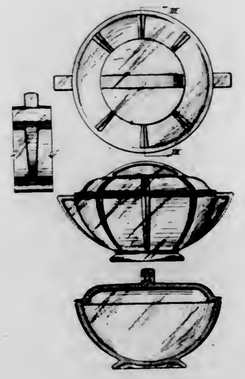
The ornamental design for an oven unit or similar article, substantially as shown and described.

137,793
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Alfred Duhrssen, New York, N. Y.
Application January 15, 1944, Serial No. 112,245
Term of patent 3½ years
(Cl. D44—15)



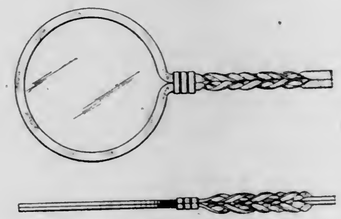
The ornamental design for a plate or similar article, substantially as shown and described.

137,794
DESIGN FOR A FOOTED CASSEROLE OR SIMILAR ARTICLE
Harry I. Kleinberg, Pittsburgh, Pa.
Application February 12, 1944, Serial No. 112,548
Term of patent 14 years
(Cl. D36—2)



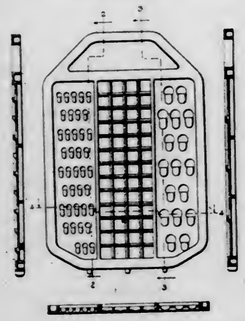
The ornamental design for a footed casserole or similar article, as shown.

137,795
DESIGN FOR A HAND MIRROR OR SIMILAR ARTICLE
Leonard L. Lesiak and Jodie H. Shows, Los Angeles, Calif.
Application January 31, 1944, Serial No. 112,374
Term of patent 3½ years
(Cl. D86—10)



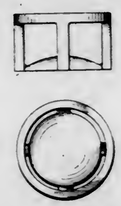
The ornamental design for a hand mirror or similar article, as shown.

137,796
DESIGN FOR A COMBINATION GRATER, SHREDDER, AND CUTTER
Nathan K. Morris, Asbury Park, N. J.
Application February 18, 1944, Serial No. 112,626
Term of patent 14 years
(Cl. D89—1)



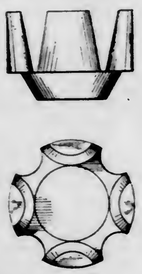
The ornamental design for a combination grater, shredder, and cutter, as shown.

137,797
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application September 30, 1943, Serial No. 111,236
Term of patent 7 years
(Cl. D91—1)



The ornamental design for a valve check, as shown.

137,798
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application October 1, 1943, Serial No. 111,245
Term of patent 7 years
(Cl. D91—1)



The ornamental design for a valve check, as shown.

137,799
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application February 7, 1944, Serial No. 112,481
Term of patent 7 years
(Cl. D91—1)



The ornamental design for a valve check, as shown.

137,800
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application February 7, 1944, Serial No. 112,495
Term of patent 7 years
(Cl. D91—1)



The ornamental design for a valve check, as shown.

137,801
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application February 22, 1944, Serial No. 112,675
Term of patent 7 years
(Cl. D91—1)



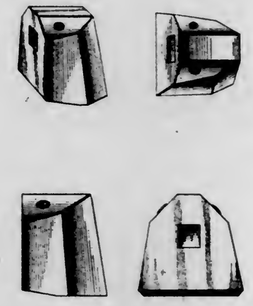
The ornamental design for a valve check, as shown.

137,802
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J.
Application February 17, 1944, Serial No. 112,609
Term of patent 3½ years
(Cl. D92—1)



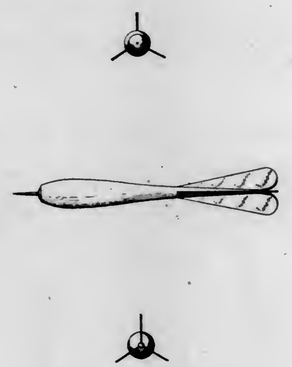
The ornamental design for a textile fabric or similar article, as shown.

137,803
DESIGN FOR A HOLDER FOR MACHINE TOOL CUTTERS
Harry C. Wilson, Huntington Park, Calif.
Application July 29, 1943, Serial No. 110,792
Term of patent 14 years
(Cl. D54—14)



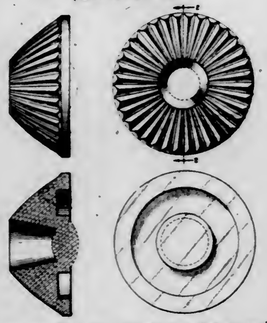
The ornamental design for a holder for machine tool cutters, as shown.

137,804
DESIGN FOR A DART
Philip C. P. Booty, Chicago, Ill.
Application July 23, 1943, Serial No. 110,735
Term of patent 7 years
(Cl. D34—5)



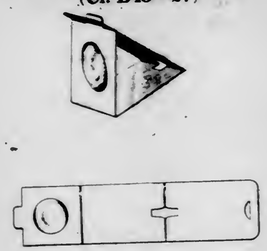
The ornamental design for a dart, substantially as shown.

137,805
DESIGN FOR A LENS
George M. Cressaty, New York, N. Y.
Application December 13, 1943, Serial No. 111,996
Term of patent 14 years
(Cl. D48—30)



The ornamental design for a lens, substantially as shown and described.

137,806
DESIGN FOR A SUNGLASS CIGARETTE LIGHTER
Lawrence H. Duescher, Milwaukee, Wis.
Application February 2, 1944, Serial No. 112,417
Term of patent 3½ years
(Cl. D48—27)



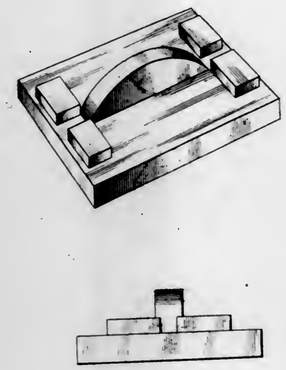
The ornamental design for a sunglass cigarette lighter, as shown.

137,807
DESIGN FOR A JEWELRY BOX OR SIMILAR ARTICLE
Richard M. Dugdale, Dedham, Mass., assignor to Farrington Manufacturing Company, Jamaica Plain, Mass., a corporation of Massachusetts
Application March 10, 1944, Serial No. 112,841
Term of patent 14 years
(Cl. D80—5)



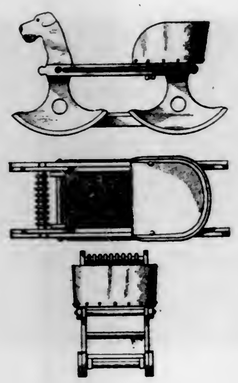
The ornamental design for a jewelry box or similar article, substantially as shown.

137,808
DESIGN FOR A RACK FOR SUPPORTING HYPODERMIC NEEDLES IN CARD FORM
Samuel Galper, Jamaica, N. Y.
Application February 19, 1944, Serial No. 112,637
Term of patent 7 years
(Cl. D83—1)



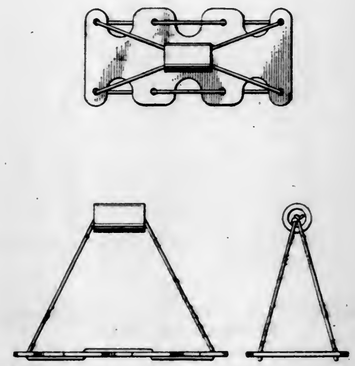
The ornamental design for a rack for supporting hypodermic needles in card form, substantially as shown.

137,809
DESIGN FOR A CHILD'S EXERCISER OR SIMILAR ARTICLE
Irving R. Heinzel, Chicago, Ill.
Application September 29, 1943, Serial No. 111,234
Term of patent 3½ years
(Cl. D34—15)



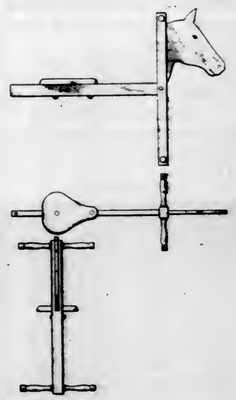
The ornamental design for a child's exerciser or similar article, as shown.

137,810
DESIGN FOR A HOLDER FOR BOTTLES
Horace G. Jackson, Woodstown, N. J.
Application February 26, 1944, Serial No. 112,726
Term of patent 14 years
(Cl. D58—4)



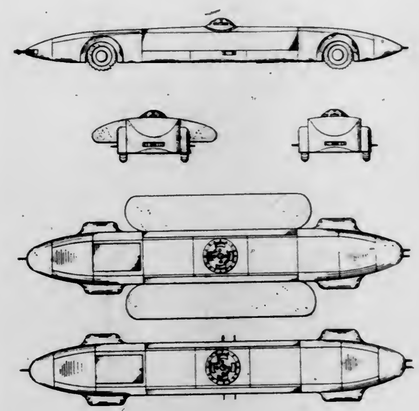
The ornamental design for a holder for bottles, as shown.

137,811
DESIGN FOR A CHILD'S SWING SEAT
Burke Miller, Kansas City, Mo.
Application August 18, 1943, Serial No. 110,939
Term of patent 3½ years
(Cl. D34—15)



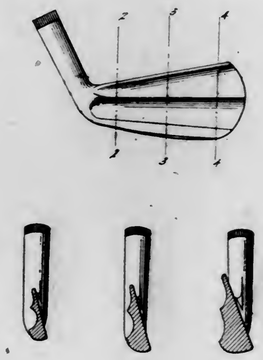
The ornamental design for a child's swing seat, as shown.

137,812
DESIGN FOR AN AMPHIBIAN TANK OR SIMILAR ARTICLE
George Francis Myers, Jackson Heights, N. Y.
Application October 18, 1940, Serial No. 95,915
Term of patent 3½ years
(Cl. D14—3)



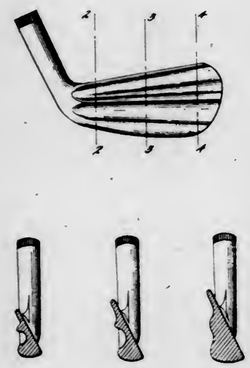
The ornamental design for an amphibian tank or similar article, as shown and described.

137,813
DESIGN FOR A GOLF CLUB HEAD
Howard P. G. Newsome, New Orleans, La.
Application February 25, 1944, Serial No. 112,715
Term of patent 14 years
(Cl. D34—5)



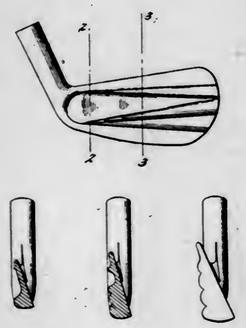
The ornamental design for a golf club head, as shown and described.

137,814
DESIGN FOR A GOLF CLUB HEAD
Howard P. G. Newsome, New Orleans, La.
Application February 25, 1944, Serial No. 112,716
Term of patent 14 years
(Cl. D34—5)



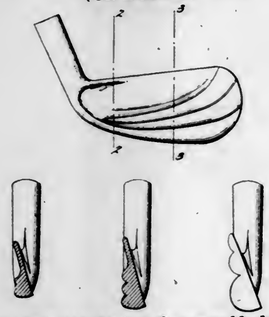
The ornamental design for a golf club head, as shown and described.

137,815
DESIGN FOR A GOLF CLUB HEAD
Howard P. G. Newsome, New Orleans, La.
Application February 1, 1944, Serial No. 112,399
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a golf club head, as shown and described.

137,816
DESIGN FOR A GOLF CLUB HEAD
Howard P. G. Newsome, New Orleans, La.
Application February 1, 1944, Serial No. 112,400
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a golf club head, as shown and described.

137,817
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J.
Application February 17, 1944, Serial No. 112,610
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric or similar article, as shown.

137,818
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J.
Application February 17, 1944, Serial No. 112,611
Term of patent 3½ years
(Cl. D92—1)



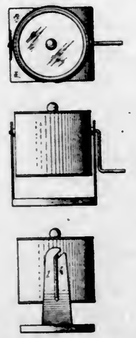
The ornamental design for a textile fabric or similar article, as shown.

137,819
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J.
Application February 17, 1944, Serial No. 112,612
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric or similar article, as shown.

137,820
DESIGN FOR A COMBINED TOBACCO BLENDER AND HUMIDOR
John Russell, Sr., Summit, N. J.
Application February 24, 1944, Serial No. 112,691
Term of patent 3½ years
(Cl. D85—2)



The ornamental design for a combined tobacco blender and humidor, as shown.

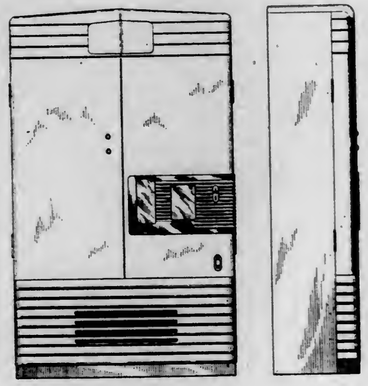
137,821
DESIGN FOR A LAPEL PIN OR THE LIKE
Ethel Allen Sampson, Chicago, Ill.
Application October 29, 1943, Serial No. 111,529
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a lapel pin or the like, as shown.

137,822
DESIGN FOR A VENDING MACHINE CABINET
Peter Schladermundt, Bronxville, N. Y., and Charles L. Metzler, Palisades Park, N. J., assignors to C. Earl Hovey, trustee, Kansas City, Mo.
Application February 21, 1944, Serial No. 112,660
Term of patent 14 years
(Cl. D52—3)





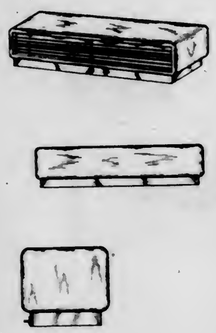
The ornamental design for a vending machine cabinet, as shown.

137,823
DESIGN FOR A HANDLE FOR AN AUTOMOBILE SPOTLIGHT
Nils A. Ternblom, Chicago, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application January 19, 1944, Serial No. 112,270
Term of patent 14 years
(Cl. D10—8)



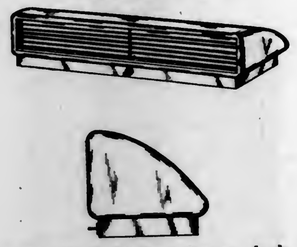
The ornamental design for a handle for an automobile spotlight, as shown.

137,824
DESIGN FOR A DESK OR TABLE LAMP
Frank W. Watkins, Cleveland, Ohio
Application February 3, 1944, Serial No. 112,420
Term of patent 14 years
(Cl. D48—20)



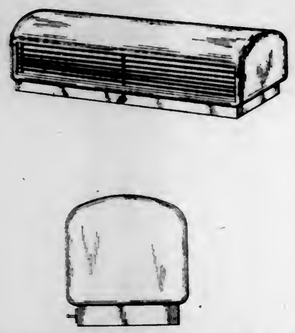
The ornamental design for a desk or table lamp, substantially as shown.

137,825
DESIGN FOR A DESK OR TABLE LAMP
Frank W. Watkins, Cleveland, Ohio
Application February 3, 1944, Serial No. 112,421
Term of patent 14 years
(Cl. D48—20)



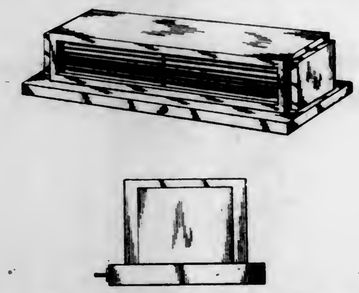
The ornamental design for a desk or table lamp, substantially as shown and described.

137,826
DESIGN FOR A DESK OR TABLE LAMP
Frank W. Watkins, Cleveland, Ohio
Application February 3, 1944, Serial No. 112,422
Term of patent 14 years
(Cl. D48—20)



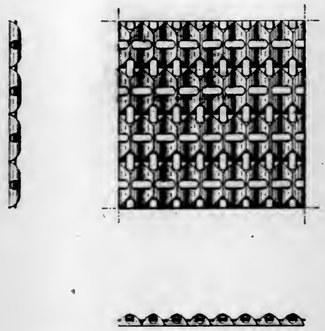
The ornamental design for a desk or table lamp, substantially as shown and described.

137,827
DESIGN FOR A DESK OR TABLE LAMP
Frank W. Watkins, Cleveland, Ohio
Application February 3, 1944, Serial No. 112,423
Term of patent 14 years
(Cl. D48—20)



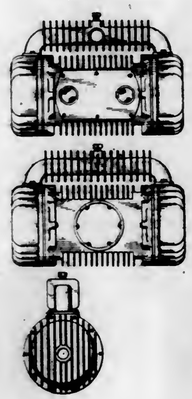
The ornamental design for a desk or table lamp, substantially as shown and described.

137,828
DESIGN FOR AN ARTICULATED FABRIC OR SIMILAR ARTICLE
Robert Appel, New York, N. Y.
Application September 23, 1943, Serial No. 111,194
Term of patent 14 years
(Cl. D87—3)



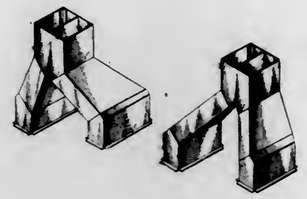
The ornamental design for an articulated fabric or similar article, substantially as shown.

137,829
DESIGN FOR A COMPRESSOR
Harold F. Hadley, Defiance, Ohio, assignor to The Definance Alloyed Products Company, Defiance, Ohio, a corporation of Ohio
Application December 6, 1943, Serial No. 111,925
Term of patent 14 years
(Cl. D65—1)



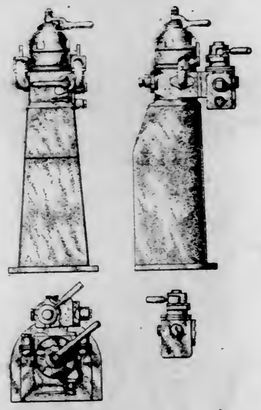
The ornamental design for a compressor, substantially as shown.

137,830
DESIGN FOR A DISCHARGE UPTAKE FOR STEAM BOILERS
Edward J. Mabrito, Richmond, Calif.
Application July 27, 1943, Serial No. 110,776
Term of patent 14 years
(Cl. D81—25)



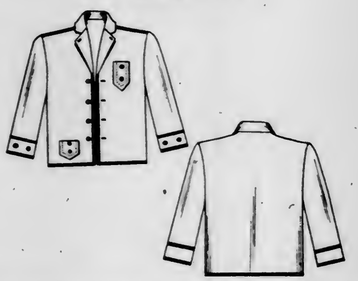
The ornamental design for a discharge uptake for steam boilers, substantially as shown.

137,831
DESIGN FOR A PEDESTAL CONTROL VALVE UNIT
Albert L. Macan, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 9, 1943, Serial No. 110,633
Term of patent 7 years
(Cl. D66—2)



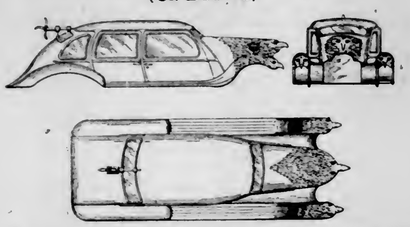
The ornamental design for a pedestal control valve unit, substantially as shown.

137,832
DESIGN FOR A JACKET OR SIMILAR ARTICLE
Lillian Raphael, New York, N. Y.
Application February 21, 1944, Serial No. 112,658
Term of patent 14 years
(Cl. D3—4)



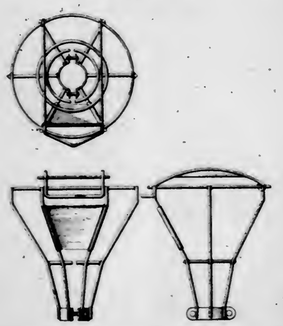
The ornamental design for a jacket or similar article, substantially as shown.

137,833
DESIGN FOR AN AUTOMOBILE BODY
John Robinson, Los Angeles, Calif.
Application May 2, 1941, Serial No. 100,742
Term of patent 7 years
(Cl. D14—3)



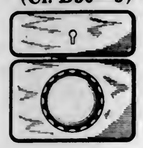
The ornamental design for an automobile body, as shown.

137,834
DESIGN FOR A LAMP GUARD
Nathan Rodney Schwartz, New York, N. Y.
Application June 23, 1943, Serial No. 110,509
Term of patent 14 years
(Cl. D48—14)



The ornamental design for a lamp guard, as shown.

137,835
DESIGN FOR A COMBINATION LATCH AND LOCK
Berthold R. Thiele, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 21, 1944, Serial No. 112,662
Term of patent 14 years
(Cl. D50—5)





The ornamental design for a combination latch and lock, as shown.

137,836
DESIGN FOR AN INSTRUMENT DIAL OR SIMILAR ARTICLE
Donald E. Dailey, Philadelphia, Pa., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application February 22, 1944, Serial No. 112,672
Term of patent 14 years
(Cl. D52—1)



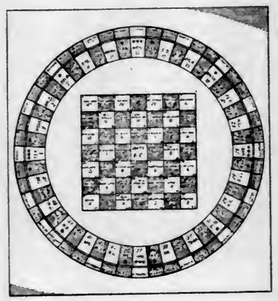
The ornamental design for an instrument dial or similar article, substantially as shown.

137,837
DESIGN FOR A BELT OR SIMILAR ARTICLE
Marion McCoy, St. Louis, Mo.
Application April 8, 1944, Serial No. 113,178
Term of patent 3½ years
(Cl. D3—10)



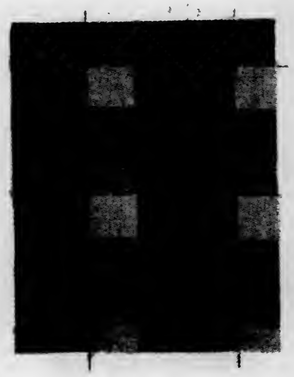
The ornamental design for a belt or similar article, substantially as shown.

137,838
DESIGN FOR A GAME BOARD
William P. McGrath, Wadsworth, Kans., assignor of one-fourth to Bennett J. Woodard, Wadsworth, Kans.
Application June 7, 1943, Serial No. 110,399
Term of patent 14 years
(Cl. D34—5)



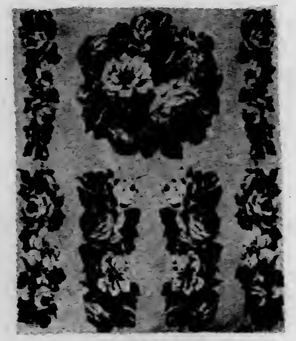
The ornamental design for a game board, as shown.

137,839
DESIGN FOR A TEXTILE FABRIC
Edward J. McLaughlin, New York, N. Y.
Application March 20, 1944, Serial No. 112,958
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown and described.

137,840
DESIGN FOR A SHEET OF A DECORATIVE WALL MATERIAL OR THE LIKE
William Burton, Chicago, Ill.
Application January 5, 1944, Serial No. 112,169
Term of patent 7 years
(Cl. D59—10)

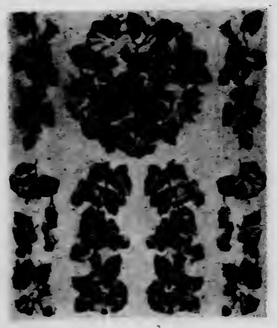






The ornamental design for a sheet of a decorative wall material or the like, substantially as shown.

137,841
DESIGN FOR A SHEET OF A DECORATIVE WALL MATERIAL OR THE LIKE
William Burton, Chicago, Ill.
Application February 3, 1944, Serial No. 112,424
Term of patent 7 years
(Cl. D59—10)

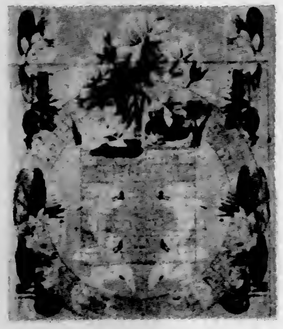






The ornamental design for a sheet of a decorative wall material or the like, substantially as shown.

137,842
DESIGN FOR A SHEET OF A DECORATIVE WALL MATERIAL OR THE LIKE
William Burton, Chicago, Ill.
Application February 3, 1944, Serial No. 112,425
Term of patent 7 years
(Cl. D59—10)







The ornamental design for a sheet of a decorative wall material or the like, substantially as shown.

137,843
DESIGN FOR A SHEET OF A DECORATIVE WALL MATERIAL OR THE LIKE
William Burton, Chicago, Ill.
Application February 3, 1944, Serial No. 112,426
Term of patent 7 years
(Cl. D59—10)







The ornamental design for a sheet of a decorative wall material or the like, substantially as shown.

137,844
DESIGN FOR A SHEET OF A DECORATIVE WALL MATERIAL OR THE LIKE
William Burton, Chicago, Ill.
Application February 3, 1944, Serial No. 112,427
Term of patent 7 years
(Cl. D59—10)

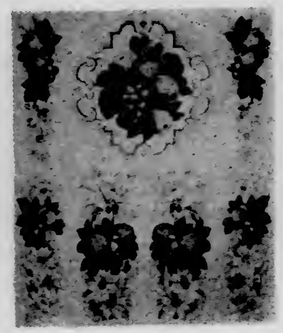


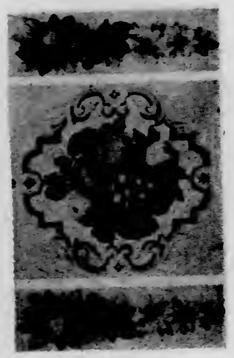


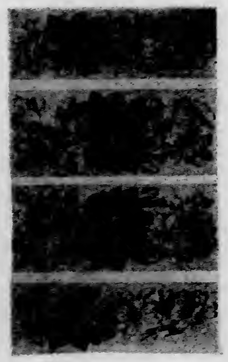


The ornamental design for a sheet of a decorative wall material or the like, substantially as shown.

137,845
DESIGN FOR A SHEET OF A DECORATIVE WALL MATERIAL OR THE LIKE
William Burton, Chicago, Ill.
Application February 3, 1944, Serial No. 112,428
Term of patent 7 years
(Cl. D59—10)







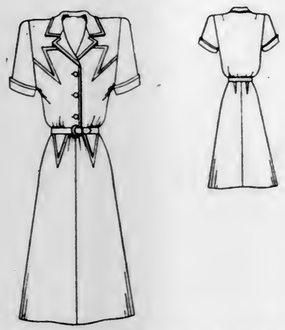
The ornamental design for a sheet of a decorative wall material or the like, substantially as shown.

137,846
DESIGN FOR A COLLAR STAY
Ben B. Manaster, Chicago, Ill., assignor of one-half to Charles I. Greener, Chicago, Ill.
Application February 26, 1944, Serial No. 112,728
Term of patent 14 years
(Cl. D17—8)



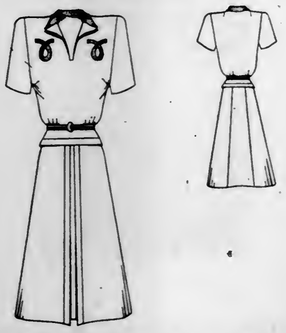
The ornamental design for a collar stay, as shown.

137,847
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,209
Term of patent 3½ years
(Cl. D3—26)



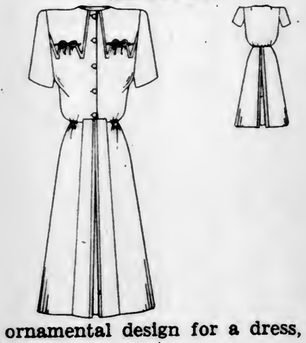
The ornamental design for a dress, substantially as shown.

137,848
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,210
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,849
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,211
Term of patent 3½ years
(Cl. D3—26)



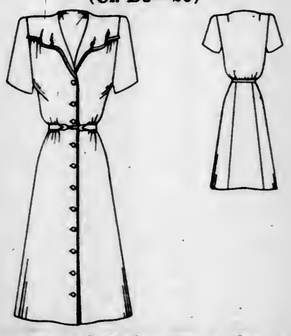
The ornamental design for a dress, substantially as shown.

137,850
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,212
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,851
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,213
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,852
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,214
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,853
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 11, 1944, Serial No. 113,215
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,854
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 8, 1944, Serial No. 113,173
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,855
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 8, 1944, Serial No. 113,174
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,856
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 8, 1944, Serial No. 113,175
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,857
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 8, 1944, Serial No. 113,176
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,858
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 8, 1944, Serial No. 113,177
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Allied Carbon & Ribbon Mfg. Corp., New York, N. Y. Carbon paper. Serial No. 466,340; May 2. Class 11.

Anderson Fire-Fighting Equipment Company, Inc., New York, N. Y. Hose couplings and hose nozzles. Serial No. 466,664; May 2. Class 13.

Ansbacher-Siegle Corporation, Brooklyn, N. Y. Resinous materials used in inks. Serial No. 466,249; May 2. Class 11.

Bell Aircraft Corporation, Buffalo, N. Y. Airplanes and structural parts thereof. Serial No. 467,011; May 2. Class 19.

Bemis Bro. Bag Company, St. Louis, Mo. Woven cotton fabric bags. Serial No. 467,955; May 2. Class 2.

Bin Moon Food Products, Inc., Brooklyn, N. Y. Chocolate syrup. Serial No. 467,332; May 2. Class 46.

Bonat, Samuel, & Bro., New York, N. Y. Hair shampoo and hair shampoo liquid cream lotions. Serial No. 465,099; May 2. Class 6.

Borden Company, The, New York, N. Y. Dried mixture of soy flour, buttermilk and whey. Serial No. 467,871; May 2. Class 46.

Browning King & Co., Inc., Philadelphia, Pa. Men's and young men's topcoats and overcoats. Serial No. 467,556; May 2. Class 39.

Cameo Vineyards Co., Fresno, Calif. Liqueurs. Serial No. 467,589; May 2. Class 49.

Celotex Corporation, The, Chicago, Ill. Paints and painters' materials. Serial No. 459,983; May 2. Class 16.

Cementation Company (Subsidiaries) Limited, The, London, England. Heat-insulating and acoustical building slabs and building blocks. Serial No. 458,265; May 2. Class 12.

Chalmers, Ruy de Barros, Rio de Janeiro, Brazil. Perfumes. Serial No. 458,354; May 2. Class 6.

Chesapeake and Ohio Railway Company, The, Richmond, Va. Monthly magazine. Serial No. 467,839; May 2. Class 38.

Chicago Mail Order Company, Chicago, Ill. Men's and boy's hose. Serial No. 465,733; May 2. Class 39.

Cinderella Foods, Dawson, Ga. Peanut butter. Serial No. 467,232; May 2. Class 46.

Cinderella Foods, Dawson, Ga. Peanut butter. Serial No. 467,752; May 2. Class 46.

Cipes, Bret, doing business as Process Company of America, New York, N. Y. Book-ends. Serial No. 467,333; May 2. Class 32.

Cohan Both & Stiffson, New York, N. Y. Neckties. Serial No. 467,647; May 2. Class 39.

Colonial Alloys Company, Philadelphia, Pa. Salts. Serial No. 465,839; May 2. Class 6.

Coro, Inc., New York, N. Y. Necklaces, bracelets, earrings, etc. Serial No. 466,004; May 2. Class 28.

Davis Engineering Corporation, Elizabeth, N. J. Indicator for indicating the flow of a liquid. Serial No. 467,716; May 2. Class 26.

Decca Records, Inc., New York, N. Y. Phonograph records. Serial Nos. 466,325–6; May 2. Class 36.

Delicious Chocolate Pudding Reg'd. (See Gold, Bernice G.)

De Nido, Conchita G., Santurce, P. R. Infants' and children's dresses, blouses, handkerchiefs and scarfs. Serial No. 467,753; May 2. Class 39.

Dumari Textile Co., Inc., New York, N. Y. Women's and misses' wearing apparel. Serial No. 465,677; May 2. Class 39.

Erickson, George C., Chicago, Ill. Catalytic barium chloride, combined with slight quantities of other elements. Serial No. 466,643; May 2. Class 6.

F-R Publishing Corporation, The, New York, N. Y. Magazine column. Serial No. 465,909; May 2. Class 38.

Fannings & Co., Chicago, Ill. Hair pomades and foot balm. Serial No. 467,293; May 2. Class 6.

Geary, Edmund J., Company, Detroit, Mich. Playing cards. Serial No. 467,316; May 2. Class 22.

Gianandrea, Nick, doing business as Valley Growers Exchange, San Jose, Calif. Fresh vegetables. Serial No. 467,971; May 2. Class 46.

Gibson Distilling Company, The, New York, N. Y. Whiskey, gin, brandy, etc. Serial No. 466,377; May 2. Class 49.

Glasden Leather Novelties Company, New York, N. Y. Leather wallets, leather bags, and pocketbooks. Serial No. 467,884; May 2. Class 3.

Gold, Bernice G., doing business as Delicious Chocolate Pudding Reg'd., Montreal, Quebec, Canada. Preparation for making puddings and desserts. Serial No. 425,215; May 2. Class 46.

Grandby Canning Company. (See Thompson, Norberg.)

Hayward-Schuster Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 466,987; May 2. Class 42.

Hayward-Schuster Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 466,989; May 2. Class 42.

Hearst Corporation, The, New York, N. Y. Newspaper section or department. Serial No. 467,758; May 2. Class 38.

Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparation. Serial No. 467,195; May 2. Class 6.

Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparation. Serial No. 468,030; May 2. Class 6.

Houts, Tillie, doing business as Tillie's Bouquet, Wheaton, Ill. Lapel, and dress and coat ornaments. Serial No. 467,279; May 2. Class 40.

Ideal Novelty & Toy Co., Long Island City, N. Y. Dolls. Serial No. 468,033; May 2. Class 22.

Indian Arts and Crafts Board, Washington, D. C. Beaded bags, medallions, horn buttons, etc. Serial No. 467,085; May 2. Class 40.

Industrial Raw Materials Corporation, New York, N. Y. Petroleum wax. Serial No. 466,531; May 2. Class 15.

Kelite Products, Inc., Los Angeles, Calif. Cleaning and washing powder. Serial No. 458,462; May 2. Class 4.

King, W. A., Brownsville, Tex. Pyrophoric lighters. Serial No. 466,917; May 2. Class 34.

Laub, George M., New York, N. Y. Paper dress patterns. Serial No. 467,528; May 2. Class 26.

Laub, George M., New York, N. Y. Paper dress patterns. Serial No. 467,526; May 2. Class 26.

LeLong, Lucien, Inc., Chicago, Ill. Soap. Serial No. 467,928; May 2. Class 4.

Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. Serial No. 467,495; May 2. Class 6.

Letourneau, R. G., Inc., Stockton, Calif., and Peoria, Ill. Self-propelled hoist trucks. Serial No. 466,799; May 2. Class 23.

Linada Coat Co., Inc., The, New York, N. Y. Ladies', misses', and juniors coats, suits, skirts, etc. Serial No. 467,612; May 2. Class 39.

MacDonald, James M., Evanston, Ill. Game board. Serial No. 465,002; May 2. Class 22.

Machinery Manufacturing Co., Los Angeles, Calif. Tools. Serial No. 464,580; May 2. Class 23.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electric contacting elements. Serial No. 467,071; May 2. Class 21.

Manhattan Shirt Company, The, New York, N. Y. Outer shirts. Serial No. 467,763; May 2. Class 39.

Meyer, M. J. & H. J., Co., Inc., New York, N. Y. Canned fish. Serial No. 444,796; May 2. Class 46.

Moneau Corp. of New York, New York, N. Y. Perfumes. Serial No. 467,533; May 2. Class 6.

Muffet, Mary, Inc., St. Louis, Mo. Ladies' and misses' dresses. Serial No. 459,940; May 2. Class 39.

Nash, C. A., & Son, Inc., Norfolk, Va. Floor cleaning compound. Serial No. 467,615; May 2. Class 4.

National Mineral Company, Chicago, Ill. Permanent hair waving solution, neutralizer, and shampoo. Serial No. 457,039; May 2. Class 6.

New Products Laboratories. (See Wilhelm, Warren F.)

Petrol Corporation, The, Los Angeles, Calif. Paint in paste form. Serial No. 462,954; May 2. Class 16.

Phillips, Ed., & Sons Company, Minneapolis, Minn. Whiskey. Serial No. 468,089; May 2. Class 49.

Pincus, Julius, William Marks, and Irving Pincus, Plymouth, Pa. Ladies' outer garments. Serial No. 467,135; May 2. Class 39.

Process Company of America. (See Cipes, Bret.)

Quaker Chemical Products Corporation, Conshohocken, Pa. Water soluble or emulsifiable solvent cleansers and detergents. Serial No. 467,859; May 2. Class 4.

Reliance Dental Mfg. Co., Chicago, Ill. Denture liners. Serial No. 467,817; May 2. Class 44.

Rich, Ivor, New York, N. Y. Perfume, toilet water, face powder, etc. Serial No. 467,470; May 2. Class 6.

Richards, Boggs & King, Inc., Chicago, Ill. Artificial leather. Serial No. 467,770; May 2. Class 50.

Shaw, D. Minard, New York, N. Y. Magazine. Serial No. 456,811; May 2. Class 38.

Siegel, Jacob, Company, Philadelphia, Pa. Men's and young men's topcoats and overcoats. Serial No. 467,575; May 2. Class 39.

Smithken & Kleinman, New York, N. Y. Boys', girls', and children's coats, suits, coat and suit combinations, etc. Serial No. 467,622; May 2. Class 39.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oils and greases. Serial No. 467,541; May 2. Class 15.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating greases. Serial No. 467,542; May 2. Class 15.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Insecticide spray. Serial No. 467,543; May 2. Class 6.

Standard Stoker Company, Inc., The, New York, N. Y. Fuel stokers. Serial No. 455,851; May 2. Class 34.

Stange, Wm. J., Co., Chicago, Ill. Anti-oxidant. Serial No. 467,303 · May 2. Class 6.
Star Plastic Mfg. Co. Inc., New York, N. Y. Nail heads, beads, bygles etc. Serial No. 466,029; May 2. Class 40.
Steinway & Sons, New York, N. Y. Resin bonded wood aircraft structural parts and assemblies. Serial No. 466,868; May 2. Class 19.
Stern, Max, New York, N. Y. Blocks composed of ferrous and nonferrous metal scrap. Serial No. 465,787; May 2. Class 14.
Straub, W. F., & Company, Chicago, Ill. Extract of the pituitary gland. Serial No. 466,773; May 2. Class 6.
Texas Company, The, New York, N. Y. Lubricating oils. Serial No. 467,773; May 2. Class 15.
Thompson, Norberg, doing business as A. Granday Canning Company, Key West, Fla. Canned green sea turtle meat and soup. Serial No. 467,577; May 2. Class 46.
Tillie's Booquet. (See Houts, Tillie.)
Unger, Milton, Boston, Mass. Women's hats. Serial No. 458,024; May 2. Class 39.
United States Shoe Corporation, The, Cincinnati, Ohio. Shoes. Serial No. 454,386; May 2. Class 39.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 467,581; May 2. Class 6.
Valley Growers Exchange. (See Gianandrea, Nick.)
Veda Limited, Edinburgh, Scotland. Wheat flour, barley flour, oat flour, etc. Serial No. 459,454; May 2. Class 46.
Watts-Wagner Company, Inc., New York, N. Y. Liquid hand protecting cream. Serial No. 466,817; May 2. Class 6.
Western Abrasive Supply Company, Reno, Nev. Abrasive or grinding machinery. Serial No. 464,460; May 2. Class 23.
Westwood Pharmacal Corporation, Buffalo, N. Y. Sulfathiazol solutions. Serial No. 467,550; May 2. Class 6.
Wheel Trueing Tool Company of Delaware, Detroit, Mich. Diamond pointed tools for dressing and trueing. Serial No. 466,240; May 2. Class 23.
Whi-Tex Company, St. Louis, Mo. Combination cold water paint and water-proofing agent. Serial No. 467,420; May 2. Class 16.
Wilhelm, Warren F., doing business as New Products Laboratories, Chicago, Ill. Receptacles. Serial No. 459,098; May 2. Class 2.
Youngstown Alloy Casting Corporation, Youngstown, Ohio. Brackets for electric bus bar, clips for electric bus bar. Serial No. 467,739; May 2. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Abilene Flour Mills Company, The, assignor to The Abilene Flour Mills Company, Abilene, Kans. Wheat flour. 181,927; renewed Apr. 1, 1944.
Ackerman, Paul H., Phillipsburg, N. J. Handwrought jewelry. 406,866; May 2; Serial No. 465,173; published Feb. 22, 1944. Class 28.
Albert, J., and Son. (See Albert, Michael Francois.)
Albert, J., and Son Pty. Limited. (See Albert, Michael Francois, assignor.)
Albert, Michael Francois, doing business as J. Albert and Son, assignor to J. Albert and Son Pty. Limited, Sydney, New South Wales, Australia. Mouth organs, accordions, flutes, etc. 169,176; renewed June 12, 1943.
Allis, Louis, Company, The, Milwaukee, Wis. Electric motors, generators, rotary converters. 183,269; renewed Apr. 29, 1944.
American Chemical Paint Company, Philadelphia, to American Chemical Paint Company, Ambler, Pa. Ingredient in solid or liquid form. 184,400; renewed May 20, 1944.
American Chewing Products Corp., Newark, N. J. Chewing gum. 406,873; May 2; Serial No. 465,859; published Feb. 22, 1944. Class 46.
American Dietaids Company, Inc., Yonkers, N. Y. Cold cream. 406,889; May 2. Class 6.
American Fruit Growers Incorporated. (See Navelencia Fruit Growers.)
Anaconda Copper Mining Company, to Anaconda Copper Mining Company, Butte, Mont. Cast, drawn, rolled, extruded, pressed, and machined nonferrous metals and alloys and ingots, castings, sheets, etc. 187,312; renewed July 29, 1944.
Ball, F. M., & Company, Oakland, Calif. Canned fruits, canned vegetables, canned fruit cocktail, etc. 406,875; May 2; Serial No. 465,939; published Feb. 22, 1944. Class 46.
Banning Canning Co., Banning, Calif. Canned fruits. 187,795; renewed Aug. 12, 1944.
Banning Canning Co., Banning, Calif. Canned fruits. 406,876; May 2; Serial No. 465,940; published Feb. 22, 1944. Class 46.
Barg, William. (See True Form Corset Co., assignor.)
Berliner, Edwin E., & Co., assignor, by mesne assignments, to Edwin E. Berliner & Co., New York, N. Y. Cotton piece goods. 179,490; renewed Feb. 12, 1944.
Boss Manufacturing Company, The, Kewanee, Ill. Combination leather and cloth gloves and mittens. 188,067; renewed Aug. 19, 1944.
Bowman Dairy Company, Chicago, Ill. Combination of dry skimmed milk and a small percentage of cereal flour, etc. 406,869; May 2; Serial No. 465,353; published Feb. 22, 1944. Class 46.
Bradford, Madam S. B. (See Bradford, Daisy.)
Bragg, Paul C., doing business as Live Food Products Co., Burbank, Calif. Vitamin tablets. 406,888; May 2. Class 6.
Braun, C. T. (See Levinson, A. E.)
Bredan Creamery, Inc., Denver, Colo. Eggs and cheese. 188,554; renewed Aug. 26, 1944.
Brooks, Betty, Apron Co. (See Brooks, Lester I.)
Brooks, Betty, Co. (See Brooks, Lester I.)
Brooks, Lester I., doing business as Betty Brooks Apron Co., Los Angeles, Calif., to Betty Brooks Co., Huntington Park, Calif. Women's and children's aprons, dresses, house dresses, etc. 186,646; renewed July 22, 1944.
Calorizing Company, The, Pittsburgh, Pa. Heat-resisting and heat-enduring alloys. 187,103; renewed July 29, 1944.
Carrao, Antonio, doing business as Italian Cheese Co., New York, to Icco-Cheese Company, Inc., Brooklyn, N. Y., successor. Cheese. 188,532; renewed Aug. 26, 1944.
Carson Pirie Scott & Company, Chicago, Ill. Pottery dinnerware. 406,845; May 2; Serial No. 461,840; published Feb. 22, 1944. Class 30.
Cerophyl Laboratories, Inc., Kansas City, Mo. Preparation for making a food beverage consisting of the dried leafy portion of cereal grasses. 406,871; May 2; Serial No. 465,731; published Feb. 22, 1944. Class 46.
City Mills Company, Columbus, Ga. Wheat flour. 188,528; renewed Aug. 26, 1944.
Cluff, William, Co., Wilmington, Del., and San Francisco, assignor to Filice & Perrelli Canning Company, Incorporated, Richmond, Calif. Canned fruits, canned vegetables, olives, etc. 182,348; renewed Apr. 8, 1944.
College Maid Company, Inc. (See Michelman-Grass Hosiery Co.)
Columbia Mills, Inc., The, New York, N. Y. Window shades. 406,882; May 2. Class 32.
Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. 406,842; May 2; Serial No. 461,354; published Feb. 22, 1944. Class 21.
Corn Products Refining Company, New York, N. Y. Corn flour. 182,719; renewed Apr. 15, 1944.
Coty, Inc., Wilmington, Del., and New York, to Coty, Inc., New York, N. Y., successor. Perfumes, toilet water, face powder, etc. 180,540; renewed Mar. 4, 1944.
Courtaulds, Limited, London, England. Silk piece goods. 183,640; renewed May 6, 1944.
Croasdale & Deangelis, Haverford Township, Delaware County, Pa. Windshields of transparent material not including glass. 406,840; May 2; Serial No. 457,185; published Mar. 2, 1943. Class 19.
Cudahy Packing Company, The, Chicago, Ill. Oleomargarine. 406,841; May 2; Serial No. 461,305; published Feb. 22, 1944. Class 46.
Daisy Bradford, doing business as Madam S. B. Bradford, Idlewild, Mich. Hair tonic and ointment. 406,885; May 2. Class 6.
Dyar Hybrid Seed Corn. (See Dyar, Walter S.)
Dyar, Walter S., doing business as Dyar Hybrid Seed Corn Company, Metamora, Ill. Hybrid seed corn. 406,880; May 2. Class 1.
Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers, lacquer thinners, and lacquer enamels. 187,538; renewed Aug. 5, 1933.
Eisendrath, B. D., Tanning Co., Chicago, Ill. Leather. 406,894; May 2. Class 1.
Elder Manufacturing Company, St. Louis, Mo. Cloth of cotton, silk, wool, etc. 187,850; renewed Aug. 12, 1944.
Elgin American Manufacturing Co., assignor, by mesne assignments, to Illinois Watch Case Co., Elgin, Ill. Cosmetic containers. 187,704; renewed Aug. 12, 1944.
Elrex Watch Company, Inc., New York, N. Y. Watches. 406,863; May 2; Serial No. 465,104; published Feb. 22, 1944. Class 27.
Empire Lithographing Company, Inc., New York, N. Y. Board and card games. 406,867; May 2; Serial No. 465,287; published Feb. 22, 1944. Class 22.
Ensign-Bickford Co., The, Simsbury, Conn. Fuse for blasting and mining purposes. 187,764–5; renewed Aug. 12, 1944.
Ensign-Bickford Co., The, Simsbury, Conn. Fuse for blasting and mining purposes. 188,178; renewed Aug. 19, 1944.

Excel Heating & Air Conditioning Co. (See Rauhut, John R.)
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, New York, N. Y. Anthelmintics. 188,473; renewed Aug. 26, 1944.
Fellows Medical Manufacturing Company, Inc., New York, N. Y. Preparation of hypophosphites. 181,505; renewed Mar. 18, 1944.
Filice & Perrelli Canning Company, Incorporated. (See Cluff, William, Co., assignor.)
Fischer Flouring Mills Company, Seattle, Wash. Wheat flour. 181,274; renewed Mar. 18, 1944.
Fleming-Green Co. Inc., assignor, by mesne assignments, to The Piknik Products Co., Montgomery, Ala. Mayonnaise prepared vegetables and egg paste. 188,061; renewed Aug. 19, 1944.
Forsbacka Jernverks Aktiebolag, Forsbacka, Sweden. Iron and steel. 164,809; renewed Feb. 27, 1943.
Fort Smith Cotton Oil Co., Fort Smith, Ark. Horse and mule feed. 406,853; May 2; Serial No. 464,606; published Feb. 22, 1944. Class 46.
Foster, Caney, doing business as Roanoke Medicine Company, Weldon, N. C. Preparations for headache, neuralgia, sleeplessness, etc. 188,411; renewed Aug. 26, 1944.
Frobes, Jas H., Tea & Coffee Co., St. Louis, Mo. Tea and coffffee. 188,243; renewed Aug. 26, 1944.
Fuchs, Walter M., Detroit, Mich. Pencils and transfer paper. 406,846; May 2; Serial No. 461,847; published Feb. 22, 1944. Class 37.
General Desserts Corporation, New York, N. Y. Dessert powder. 406,877; May 2; Serial No. 466,039; published Feb. 22, 1944. Class 46.
General Electric Company, Schenectady, N. Y. Decorative electric-lighting outfits for Christmas trees and the like. 181,613; renewed Mar. 25, 1944.
Goldberg Brothers, Denver, Colo. Liquid-fuel camp stoves. 187,884; renewed Aug. 12, 1944.
Greenaway, Kate, Designs. (See Neff, Grace.)
Haas-Lieber Grocery Company, St. Louis, Mo. Canned goods. 181,555; renewed Mar. 25, 1944.
Henschel, C. B., Manufacturing Co., Milwaukee, Wis. Window glass substitute. 406,843; May 2; Serial No. 461,376; published Feb. 22, 1944. Class 50.
Heyman Company, New York, N. Y. Crude ground talc. 406,891; May 2. Class 1.
Holbrooke Candies, Inc., Brooklyn, N. Y. Candy. 406,884; May 2. Class 46.
Hornstein Sales, Chicago, Ill. Address books, diaries, and memorandum books. 406,861; May 2; Serial No. 464,818; published Feb. 22, 1944. Class 37.
Hospital Specialty Company, The, Cleveland, Ohio. Sanitary napkins. 406,878; May 2; Serial No. 466,086; published Feb. 22, 1944. Class 44.
Hudnut, Richard, New York, N. Y. Talcum, face powder, bath salts, etc. 187,492; renewed Aug. 5, 1944.
Icco-Cheese Company, Inc. (See Carrao, Antonio.)
Illinois Watch Case Co. (See Elgin American Manufacturing Co., assignor.)
Illinois Watch Case Company, assignor to Illinois Watch Case Co., Elgin, Ill. Watchcases and watch movements. 180,202; renewed Feb. 26, 1944.
Irving-Cloud Publishing Company, The. (See Topics, Incorporated, assignor.)
Italian Cheese Co. (See Carrao, Antonio.)
Johns-Manville Corporation, New York, N. Y. Sound absorbing fibreboard panels. 406,844; May 2; Serial No. 461,762; published Feb. 22, 1944. Class 12.
Jonat Candy Corp., Brooklyn, N. Y. Candy. 406,847; May 2; Serial No. 463,023; published Feb. 22, 1944. Class 46.
Kabo Company, The, to Kabo Corset Company, Chicago, Ill., successor. Brassières and corsets. 160,220; renewed Oct. 17, 1942.
Kabo Corset Company. (See Kabo Company, The.)
Kamion, A. (See Kamion, Aaron.)
Kamion, Aaron, doing business as A. Kamion, New York, N. Y. Watchcases. 180,196; renewed Feb. 26, 1944.
Kayser, Julius, & Co., New York, N. Y. Fabric gloves. 184,919; renewed June 3, 1944.
Kraft Cheese Company. (See Phenix Cheese Co., assignor.)
La Bour Company, Inc., The, Elkhart, Ind. Centrifugal pumps and parts thereof. 406,890; May 2. Class 23.
Laing, Harrar, & Chamberlin, Philadelphia, Pa., assignor to The O'Sullivan Rubber Company, Inc., Winchester, Va. Rubber heels. 182,009; renewed Apr. 1, 1944.
Lazier, J. F., Manufacturing Co., assignor to The Mil-K-Boti Corporation of America, St. Louis, Mo. Nonalcoholic, maltless, flavorings and colorings for soft drinks. 187,842; renewed Aug. 12, 1944.
Legg, A. C., Packing Company, Birmingham, Ala. Sausage seasoning. 188,088; renewed Aug. 19, 1944.
Lentheric Incorporated. (See Velsch & Holtz, assignor.)
Levinson, A. E., assignor to C. T. Braun, San Francisco, Calif. Boxing and fighting gloves, and punching bags. 406,872; May 2; Serial No. 465,844; published Feb. 22, 1944. Class 22.
Limber-Up Laboratories, The. (See Lunte, Willard P.)
Live Food Products Co. (See Bragg, Paul C.)
Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts therefor. 406,849; May 2; Serial No. 464,395; published Feb. 22, 1944. Class 19.
Lunte, Willard P., doing business as The Limber-Up Laboratories, Cleveland, Ohio. Preparation for relief of rheumatic and muscular aches and paines. 406,887; May 2. Class 6.
MacSelworth Corporation, Ardmore, Pa. Special preparation in paste form. 406,879; May 2. Class 4.
Macy, R. H., & Co., Inc., New York, N. Y. Women's sanitary napkins. 187,150; renewed July 29, 1944.
Madison Woolen Co., Madison, Wis. Woolen piece goods. 188,369–70; renewed Aug. 26, 1944.
Magnavox Company, The, Oakland, Calif., assignor to The Magnavox Company, Fort Wayne, Ind. Telephone receiving sets and radio receiving sets. 178,513; renewed Jan. 15, 1944.
Magnolia Metal Company, New York, N. Y. to Magnolia Metal Company, Elizabeth, N. J. Antifriction metals, alloys, and journal-bearings. 25,168–9; re-renewed Aug. 21, 1944.
Manufacturers Supplies Company, St. Louis, Mo. Threads. 188,490; renewed Aug. 26, 1944.
Marinello Company, La Crosse, Wis., assignor, by mesne assignments, to Sales Affiliates, Inc., New York, N. Y. Brilliantine. 180,170; renewed Feb. 26, 1944.
Master Manufacturing Corporation, Sioux City, Iowa. Food cabinets. 406,881; May 2. Class 32.
McGill Metal Products Company, Marengo, Ill. Animal traps. 406,852; May 2; Serial No. 464,513; published Feb. 22, 1944. Class 50.
Mellink Steel Safe Co., Toledo, Ohio. Fire and burglar proof receptacles. 406,850. May 2; Serial No. 462,405; published Feb. 8, 1944. Class 25.
Metz, H. A., Laboratories, Inc., to Winthrop Chemical Company, Inc., New York, N. Y., by consolidation. Preparation for the treatment of tuberculosis and other infectious diseases. 188,475; renewed Aug. 26, 1944.
Metz., H. A., Laboratories Inc., to Winthrop Chemical Company, Inc., New York, N. Y., by consolidation. Preparations for the treatment of spirochetal and other infectious diseases. 188,514; renewed Aug. 26, 1944.
Michaels, Stern & Co., to Michaels, Stern & Company, Inc., Rochester, N. Y., successor. Men's suits, coats, vests, etc. 182,184; renewed Apr. 1, 1944.
Michelman-Grass Hosiery Co., to College Maid Company, Inc., New York, N. Y., successor. Hosiery. 186,867; renewed July 22, 1944.
Mil-K-Boti Corporation of America, The. (See Lazier, J. F., Manufacturing Co., assignor.)
Modern Plastics Manufacturing Company, New York, N. Y. Women's hand-bag and pocketbook frames. 406,862; May 2; Serial No. 465,077; published Jan. 25, 1944. Class 3.
Moore, John Hudson, Inc., New York, N. Y. Smokers' pipes. 406,864; May 2; Serial No. 465,143; published Feb. 22, 1944. Class 8.
Morana, Incorporated, assignor to Van Amerigen-Haebler, Inc., New York, N. Y. Essential oils suitable for the production of perfumes. 180,681–5; renewed Mar. 4, 1944.
Navelencia Fruit Growers, Navelencia, Calif., to American Fruit Growers Incorporated, Pittsburgh, Pa., successor. Fresh grapes. 180,782; renewed Mar. 4, 1944.
Neff, Grace, doing business as Kate Greenaway Designs, New York, N. Y. Dolls. 406,833; May 2; Serial No. 450,487; published Feb. 22, 1944. Class 22.
Northwestern Yeast Company, Chicago, Ill. Compound of stabilized wheat germ, soya and treated cereal flours. 406,874; May 2; Serial No. 465,876; published Feb. 22, 1944. Class 46.
Ogden, J. Edward, Company Incorporated, New York, N. Y. Doors. 184,251; renewed May 20, 1944.
O'Sullivan Rubber Company, Inc., The. (See Laing, Harrar & Chamberlin, assignors.)
Outlet Company, The. (See Samuels, J., and Brother, Incorporated, assignors.)
Phenix Cheese Co., New York, N. Y., assignor, by mesne assignments, to Kraft Cheese Company, Chicago, Ill. Cheese. 181,272; renewed Mar. 18, 1944.
Phillips, Henry, Barryton, Mich. Plant balls. 406,834–5; May 2; Serial Nos. 455,539–40; published Feb. 22, 1944. Class 1.
Phillips Petroleum Company, Bartlesville, Okla. Pure technical, or commercial hydrocarbon chemicals. 406,883; May 2. Class 6.
Piknik Products Co., The. (See Fleming-Green Co., Inc., assignor.)
Pittsburgh Coke & Iron Company, Pittsburgh, Pa. Activated carbon. 406,868; May 2; Serial No. 465,324; published Feb. 22, 1944. Class 1.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Zinc chromate compound impregnated material. 406,838; May 2; Serial No. 456,896; published Feb. 22, 1944. Class 12.
Rauhut, John R., doing business as Excel Heating & Air Conditioning Co., Chicago, Ill. Packings and gaskets for warm and cold air registers. 406,848; May 2; Serial No. 462,169; published Feb. 22, 1944. Class 35.
Red Rooster Foods. (See Ryser, Frank, Co.)
Reliance Manufacturing Company, Chicago, Ill. Work shirts. 186,588; renewed July 22, 1944.
Rice-Klein Co., to Tailor Maid Blouses, Los Angeles, Calif., successor. Ladies' blouses; ladies', men's, and children's dress shirts, etc. 182,938; renewed Apr. 22, 1944.

Rich, Ivor, New York, N. Y. Face powder. 406,886; May 2. Class 6.
Richards, H. W., Lumber Co. (See Richards, Hugh W.)
Richards, Hugh W., doing business as H. W. Richards Lumber Co., Carrollton, Ga. Ladders. 406,865; May 2; Serial No. 465,151; published Feb. 22, 1944. Class 50.
Roanoke Medicine Company. (See Foster, Caney.)
Rubel, John, doing business as John Rubel Co., New York, N. Y. Brooches, bracelets, necklaces, etc. 406,854–6; May 2; Serial Nos. 464,620–2; published Feb. 22, 1944. Class 28.
Rubel, John, doing business as John Rubel Co., New York, N. Y. Brooches, bracelets, necklaces, etc. 406,857–8; May 2; Serial Nos. 464,624–5; published Feb. 22, 1944. Class 28.
Rubel, John, doing business as John Rubel Co., New York, N. Y. Brooches, bracelets, necklaces, etc. 406,859–60; May 2; Serial Nos. 464,763–4; published Feb. 22, 1944. Class 28.
Rubel, John, Co. (See Rubel, John.)
Ryser, Frank, Co., doing business as Red Rooster Foods, Chicago, Ill., and Mayville, Wis. Cheese. 406,893; May 2. Class 46.
Sales Affiliates, Inc. (See Marinello Company, assignor.)
Samuels, J., and Brother, Incorporated, assignor to The Outlet Company, Providence, R. I. Suits, overcoats, sweaters, etc. 181,607; renewed Mar. 25, 1944.
Sanger Fruit Growers Association, The, Sanger, Calif. Fresh grapes. 182,747; renewed Apr. 15, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Oil used in fabric treatment. 186,067; renewed July 1, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Preparation for the treatment of textile fabrics. 186,068; renewed July 1, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Softener, intensifier, and finish for use in treating textile fabrics. 186,157; renewed July 1, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Scouring and fulling oils and softeners used in the treatment of textiles. 186,158; renewed July 1, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Softeners for softening and finishing in the textile trades. 186,159; renewed July 1, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Preparation for use in treating textile fabrics. 186,160; renewed July 1, 1944.
Scholler Brothers, Inc., Philadelphia, Pa. Soaps. 186,366; renewed July 8, 1944.
Servus Rubber Company, Rock Island, Ill. Rubber shoes and rubber-soled canvas shoes. 183,401; renewed Apr. 29, 1944.
Sessions Brothers Company, Enterprise, Ala. Fruit jars. 406,892; May 2. Class 33.
Stanley, John T., Co., Inc., New York, N. Y. Furniture and automobile body polishes. 187,737; renewed Aug. 12, 1944.
Star Expansion Bolt Company, assignor to Star Expansion Bolt Company, New York, N. Y. Expansion shields. 183,763; renewed Aug. 12, 1944.
Superior Olive Products Co., Visalia, Calif. Olive oil and olives in tin and glass. 406,870; May 2; Serial No. 465,640; published Feb. 22, 1944. Class 46.
Tailor Maid Blouses. (See Rice-Klein Co.)
Tharinger Macaroni Co., Milwaukee, Wis. Alimentary paste products. 188,234; renewed Aug. 19, 1944.
Thompson, Anson R., Co., Inc., Troy, N. Y. Ready-mixed paint, flat wall paint, roof paint, etc. 187,536; renewed Aug. 5, 1944.
Topics, Incorporated, assignor, by mesne assignments, to The Irving-Cloud Publishing Company, Chicago, Ill. Monthly magazine. 186,389; renewed July 8, 1944.
True Form Corset Co., assignor to William Barg, doing business as True Form Corset Co., Philadelphia, Pa. Corsets and brassières. 186,657; renewed July 22, 1944.
Uncle Sam Breakfast Food Company, Omaha, Nebr. Bran flakes. 183,467; renewed Apr. 29, 1944.
United States Envelope Company, Springfield, Mass. Envelopes. 184,147; renewed May 20, 1944.
Universal Bulb Corporation, Yonkers, N. Y. Flower bulbs. 406,839; May 2; Serial No. 457,071; published Feb. 22, 1944. Class 1.
Urban, George, Milling Company, Buffalo, N. Y. Self-rising flour. 188,125; renewed Aug. 19, 1944.
Van Ameringen-Haebler, Inc. (See Morana, Incorporated, assignor.)
Velsch & Holtz, Paris, France, assignor, by mesne assignments, to Lentheric Incorporated, New York, N. Y. Perfumes, toilet waters, eau de cologne, etc. 180,528; renewed Mar. 4, 1944.
Visual Records Corporation, Washington, D. C. Office furniture. 406,837; May 2; Serial No. 456,735; published May 4, 1943. Class 32.
Westgate Sea Products Co., San Diego, Calif. Canned tunny fish. 188,151; renewed Aug. 19, 1944.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Rotating regulators for controlling the excitation of electric generators. 406,836; May 2; Serial No. 456,135; published Feb. 22, 1944. Class 21.
Weymann Company, Inc. (See Weymann, H. A., & Son, Inc., assignor.)
Weymann, H. A., & Son, Inc., assignor to Weymann Company, Inc., Philadelphia, Pa. Band and orchestral musical instruments. 180,415; renewed Feb. 26, 1944.
Winthrop Chemical Company. (See Farbenfabriken vorm. Friedr. Bayer & Co., assignor.)
Winthrop Chemical Company, Inc. (See Metz, H. A., Laboratories, Inc.)
Woronock, A., & Son., New York, N. Y. Watches, watch cases, chronometers, etc. 406,851; May 2; Serial No. 463,804; published Feb. 22, 1944. Class 27.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bulbs, Flower. Universal Bulb Corporation. 406,839; May 2; Serial No. 457,071; published Feb. 22, 1944.
Carbon, Activated. Pittsburgh Coke & Iron Company. 406,868; May 2; Serial No. 465,324; published Feb. 22, 1944.
Leather. B. D. Eisendrath Tanning Co. 406,894; May 2.
Plant balls. H. Phillips. 406,834–5; May 2; Serial Nos. 455,539–40; published Feb. 22, 1944.
Seed corn, Hybrid. W. S. Dyar. 406,880; May 2.
Talc, Crude ground. Heyman Company. 406,891; May 2.

CLASS 3

Hand-bag and pocketbook frames, Women's. Modern Plastics Manufacturing Company. 406,862; May 2; Serial No. 465,077; published Jan. 25, 1944.

CLASS 4

Preparation in paste form, Special. MacSelworth Corporation. 406,879; May 2.
Soaps. Scholler Brothers, Inc. 186,366; renewed July 8, 1944.

CLASS 6

Anthelmintics. Farbenfabriken vorm. Friedr. Bayer & Co. 188,473; renewed Aug. 26, 1944.
Brilliantine. Marinello Company. 180,170; renewed Feb. 26, 1944.
Cream, Cold. American Dietaids Company. 406,889; May 2.
Hydrocarbon chemicals, Pure technical, or commercial. Phillips Petroleum Company. 406,883; May 2.
Hypophosphites, Preparation of. Fellows Medical Manufacturing Company. 181,505; renewed Mar. 18, 1944.
Ingredient in solid or liquid form. American Chemical Paint Company. 184,400; renewed May 20, 1944.
Oil used in fabric treatment. Scholler Brothers, Inc. 186,067; renewed July 1, 1944.
Oils and softeners used in the treatment of textiles, Scouring and fulling. Scholler Brothers, Inc. 186,158; renewed July 1, 1944.
Oils suitable for the production of perfumes, Essential. Morana, Incorporated. 180,681–5; renewed Mar. 4, 1944.
Perfumes, toilet waters, eau de cologne, etc. Velsch & Holtz. 180,528; renewed Mar. 4, 1944.
Perfumes, toilet water, face powder, etc. Coty, Inc. 180,540; renewed Mar. 4, 1944.
Powder, Face. I. Rich. 406,886; May 2.
Preparations for headache, neuralgia, sleeplessness, etc. C. Foster. 188,411; renewed Aug. 26, 1944.
Preparation for relief of rheumatic and muscular aches and pains. W. P. Lunte. 406,887; May 2.
Preparations for the treatment of spirochetal and other infectious diseases. H. A. Metz Laboratories Inc. 188,514; renewed Aug. 26, 1944.
Preparation for the treatment of textile fabrics. Scholler Brothers, Inc. 186,068; renewed July 1, 1944.
Preparations for the treatment of tuberculosis and other infectious diseases. H. A. Metz Laboratories, Inc. 188,475; renewed Aug. 26, 1944.
Preparation for use in treating textile fabrics. Scholler Brothers, Inc. 186,160; renewed July 1, 1944.
Softeners for softening and finishing in the textile trades. Scholler Brothers, Inc. 186,159; renewed July 1, 1944.
Softener, intensifier, and finish for use in treating textile fabrics. Scholler Brothers, Inc. 186,157; renewed July 1, 1944.
Tablets, Vitamin. P. C. Bragg. 406,888; May 2.
Talcum, face powder, bath salts, etc. R. Hudnut. 187,492; renewed Aug. 5, 1944.
Tonic and ointment, Hair. D. Bradford. 406,885; May 2.

CLASS 8

Pipes, Smokers'. John Hudson Moore, Inc. 406,864; May 2; Serial No. 465,143; published Feb. 22, 1944.

CLASS 9

Fuse for blasting and mining purposes. Ensign-Bickford Co. 187,764–5; renewed Aug. 12, 1944.
Fuse for blasting and mining purposes. Ensign-Bickford Co. 188,178; renewed Aug. 19, 1944.

CLASS 12

Doors. J. Edward Ogden Company Incorporated. 184,251; renewed May 20, 1944.
Fibreboard panels, Sound absorbing. Johns-Manville Corporation. 406,844; May 2; Serial No. 461,762; published Feb. 22, 1944.
Impregnated material, Zinc chromate compound. Pittsburgh Plate Glass Company. 406,838; May 2; Serial No. 456,896; published Feb. 22, 1944.

CLASS 13

Shields, Expansion. Star Expansion Bolt Company. 187,763; renewed Aug. 12, 1944.

CLASS 14

Alloys, Heat-resisting and heat-enduring. Calorizing Company. 187,102; renewed July 29, 1944.
Antifriction metals, alloys, and journal-bearings. Magnolia Metal Company. 25,168–9; re-renewed Aug. 21, 1944.
Iron and steel. Forsbacka Jernverks Aktiebolag. 164,809; renewed Feb. 27, 1943.
Metals and alloys and ingots, castings, sheets, etc., Cast, drawn, rolled, extruded, pressed, and machined nonferrous. Anaconda Copper Mining Company. 187,312; renewed July 29, 1944.

CLASS 16

Furniture and automobile body polishes. John T. Stanley Co. 187,737; renewed Aug. 12, 1944.
Lacquers, lacquer thinners, and lacquer enamels. Egyptian Lacquer Manufacturing Company. 187,538; renewed Aug. 5, 1944.
Paint, flat wall paint, roof paint, etc., Ready-mixed. Anson R. Thompson Co. 187,536; renewed Aug. 5, 1944.

CLASS 19

Airplanes and structural parts therefor. Lockheed Aircraft Corporation. 406,849; May 2; Serial No. 464,395; published Feb. 22, 1944.
Windshields of transparent material not including glass. Croasdale & Deangelis. 406,840; May 2; Serial No. 457,185; published Mar. 2, 1943.

CLASS 21

Apparatus in telephone systems. Cook Electric Company. 406,842; May 2; Serial No. 461,354; published Feb. 22, 1944.
Electric-lighting outfits for Christmas trees and the like, Decorative. General Electric Company. 181,613; renewed Mar. 25, 1944.
Electric motors, generators, rotary converters, etc. Louis Allis Company. 183,269; renewed Apr. 29, 1944.
Rotating regulators for controlling the excitation of electric generators Westinghouse Electric & Manufacturing Company. 406,836; May 2; Serial No. 456,135; published Feb. 22, 1944.
Telephone receiving sets and radio receiving sets. Magnavox Company. 178,513; renewed Jan. 15, 1944.

CLASS 22

Dolls. G. Neff. 406,833; May 2; Serial No. 450,487; published Feb. 22, 1944.
Games, Board and card. Empire Lithographing Company. 406,867; May 2; Serial No. 465,287; published Feb. 22, 1944.
Gloves, and punching bags, Boxing and fighting. A. E. Levinson. 406,872; May 2; Serial No. 465,844; published Feb. 22, 1944.

CLASS 23

Antifriction metals, alloys, and journal-bearings. Magnolia Metal Company. 25,168–9; re-renewed Aug. 21, 1944.
Centrifugal pumps and parts thereof. La Bour Company. 406,890; May 2.

CLASS 25

Fire and burglar proof receptacles. Meilink Steel Safe Co. 406,850; May 2; Serial No. 462,405; published Feb. 8, 1944.

CLASS 27

Watchcases. A. Kamion. 180,196; renewed Feb. 26, 1944.
Watchcases and watch movements. Illinois Watch Case Company. 180,202; renewed Feb. 26, 1944.
Watches. Elrex Watch Company, Inc. 406,863; May 2; Serial No. 465,104; published Feb. 22, 1944.
Watches, watch cases, chronometers, etc. A. Woronock & Son. 406,857; May 2; Serial No. 463,804; published Feb. 22, 1944.

CLASS 28

Brooches, bracelets, necklaces, etc. J. Rubel. 406,854–6; May 2; Serial Nos. 464,620–2; published Feb. 22, 1944.
Brooches, bracelets, necklaces, etc. J. Rubel. 406,857–8; May 2; Serial Nos. 464,624–5; published Feb. 22, 1944.
Brooches, bracelets, necklaces, etc. J. Rubel. 406,859–60; May 2; Serial Nos. 464,763–4; published Feb. 22, 1944.
Cosmetic containers. Elgin American Manufacturing Co. 187,704; renewed Aug. 12, 1944.
Jewelry, Handwrought. P. H. Ackerman. 406,866; May 2; Serial No. 465,173; published Feb. 22, 1944.

CLASS 30

Pottery dinnerware. Carson Pirie Scott & Company. 406,845; May 2; Serial No. 461,840; published Feb. 22, 1944.

CLASS 32

Cabinets, Food. Master Manufacturing Corporation. 406,881; May 2.
Furniture, Office. Visual Records Corporation. 406,837; May 2; Serial No. 456,735; published May 4, 1943.
Shades, Window. Columbia Mills, Inc. 406,882; May 2.

CLASS 33

Jars, Fruit. Sessions Brothers Company. 406,892; May 2.

CLASS 34

Camp stoves, Liquid-fuel. Goldberg Brothers. 187,884; renewed Aug. 12, 1944.

CLASS 35

Packings and gaskets for warm and cold air registers. J. R. Rauhut. 406,848; May 2; Serial No. 462,169; published Feb. 22, 1944.

CLASS 36

Band and orchestral musical instruments. H. A. Weymann & Son, Inc. 180,415; renewed Feb. 26, 1944.
Mouth organs, accordions, flutes, etc. M. F. Albert. 169,176; renewed June 12, 1943.

CLASS 37

Books, diaries, and memorandum books, Address. Hornstein Sales. 406,861; May 2; Serial No. 464,818; published Feb. 22, 1944.
Envelopes. United States Envelope Company. 184,147; renewed May 20, 1944.
Pencils and transfer paper. W. M. Fuchs. 406,846; May 2; Serial No. 461,847; published Feb. 22, 1944.

CLASS 38

Magazine, Monthly. Topics, Incorporated. 186,389; renewed July 8, 1944.

CLASS 39

Aprons, dresses, house dresses, etc., Women's and children's. L. I. Brooks. 186,646; renewed July 22, 1944.
Blouses; ladies', men's and children's dress shirts; etc., Ladies'. Rice-Klein Co. 182,938; renewed Apr. 22, 1944.
Brassières and corsets. Kabo Company. 160,220; renewed Oct. 17, 1942.
Corsets and brassières. True Form Corset Co. 186,657; renewed July 22, 1944.
Gloves, Fabric. Julius Kayser & Co. 184,919; renewed June 3, 1944.
Heels, Rubber. Laing, Harrar & Chamberlin. 182,009; renewed Apr. 1, 1944.
Hosiery. Michelman-Grass Hosiery Co. 186,867; renewed July 22, 1944.
Leather and cloth gloves and mittens, Combination. Boss Manufacturing Company. 188,067; renewed Aug. 19, 1944.
Rubber shoes and rubber-soled canvas shoes. Servus Rubber Company. 183,401; renewed Apr. 29, 1944.
Shirts, Work. Reliance Manufacturing Company. 186,588; renewed July 22, 1944.
Suits, coats, vests, etc., Men's. Michaels, Stern & Co. 182,184; renewed Apr. 1, 1944.
Suits, overcoats, sweaters, etc. J. Samuels and Brother, Incorporated. 181,607; renewed Mar. 25, 1944.

CLASS 42

Cloth of cotton, silk, wool, etc. Elder Manufacturing Company. 187,850; renewed Aug. 12, 1944.
Piece goods, Cotton. Edwin E. Berliner & Co. 179,490; renewed Feb. 12, 1944.
Piece goods, Silk. Courtaulds, Limited. 183,640; renewed May 6, 1944.
Piece goods, Woolen. Madison Woolen Co. 188,369–70; renewed Aug. 26, 1944.

CLASS 43

Threads. Manufacturers Supplies Company. 188,490; renewed Aug. 26, 1944.

CLASS 44

Napkins, Women's sanitary. R. H. Macy & Co., Inc. 187,150; renewed July 29, 1944.
Sanitary napkins. Hospital Specialty Company. 406,878; May 2; Serial No. 466,086; published Feb. 22, 1944.

CLASS 45

Flavorings and colorings for soft drinks, Nonalcoholic, maltles. J. F. Lazier Manufacturing Co. 187,842; renewed Aug. 12, 1944.

CLASS 46

Alimentary paste products. Tharinger Macaroni Co. 188,234; renewed Aug. 19, 1944.
Bran flakes. Uncle Sam Breakfast Food Company. 183,467; renewed Apr. 29, 1944.
Candy. Holbrooke Candies, Inc. 406,884; May 2.
Candy. Jonat Candy Corp. 406,847; May 2; Serial No. 463,023; published Feb. 22, 1944.
Canned fruits. Banning Canning Co. 187,795; renewed Aug. 12, 1944.
Canned fruits, canned vegetables, olives, etc. William Clud Co. 182,348; renewed Apr. 8, 1944.
Canned goods. Haas-Lieber Grocery Company. 181,555; renewed Mar. 25, 1944.
Canned tunny fish. Westgate Sea Products Co. 188,151; renewed Aug. 19, 1944.
Cereal flours. Compound of stabilized wheat germ, soya and treated. Northwestern Yeast Company. 406,874; May 2; Serial No. 465,876; published Feb. 22, 1944.
Cheese. Frank Ryser Co. 406,893; May 2.
Cheese. Phenix Cheese Co. 181,272; renewed Mar. 18, 1944.
Cheese. A. Carrao. 188,532; renewed Aug. 26, 1944.
Eggs and cheese. Bredan Creamery, Inc. 188,554; renewed Aug. 26, 1944.
Feed, Horse and mule. Fort Smith Cotton Oil Co. 406,853; May 2; Serial No. 464,606; published Feb. 22, 1944.
Flour, Corn. Corn Products Refining Company. 182,719; renewed Apr. 15, 1944.
Flour, Self-rising. George Urban Milling Company. 188,125; renewed Aug. 19, 1944.
Flour, Wheat. Abilene Flour Mills Company. 181,927; renewed Apr. 1, 1944.
Flour, Wheat. City Mills Company. 188,528; renewed Aug. 26, 1944.
Flour, Wheat. Fisher Flouring Mills Company. 181,274; renewed Mar. 18, 1944.
Fruits, Canned. Banning Canning Co. 406,876; May 2; Serial No. 465,940; published Feb. 22, 1944.
Fruits, canned vegetables, canned fruit cocktail, etc., Canned. F. M. Ball & Company. 406,875; May 2; Serial No. 465,939; published Feb. 22, 1944.
Grapes, Fresh. Navelencia Fruit Growers. 180,782; renewed Mar. 4, 1944.
Grapes, Fresh. Sanger Fruit Growers Association. 182,747; renewed Apr. 15, 1944.
Gum, Chewing. American Chewing Products Corp. 406,873; May 2; Serial No. 465,859; published Feb. 22, 1944.
Mayonnaise prepared vegetable and egg paste. Fleming-Green Co. Inc. 188,061; renewed Aug. 19, 1944.
Milk and a small percentage of cereal flour, etc., Combination of dry skimmed. Bowman Dairy Company. 406,869; May 2; Serial No. 465,353; published Feb. 22, 1944.
Oleomargarine. The Cudahy Packing Company. 406,841; May 2; Serial No. 461,305; published Feb. 22, 1944.
Olive oil and olives in tin and glass. Superior Olive Products Co. 406,870; May 2; Serial No. 465,640; published Feb. 22, 1944.
Powder, Dessert. General Desserts Corporation. 406,877; May 2; Serial No. 466,039; published Feb. 22, 1944.
Preparation for making a food beverage consisting of the dried leafy portion of cereal grasses. Cerophyl Laboratories, Inc. 406,871; May 2; Serial No. 465,731; published Feb. 22, 1944.
Sausage seasoning. A. C. Legg Packing Company. 188,088; renewed Aug. 19, 1944.
Tea and coffee. Jas. H. Frobes Tea & Coffee Co. 188,343; renewed Aug. 26, 1944.

CLASS 50

Glass substitute, Window. C. B. Henschel Manufacturing Co. 406,843; May 2; Serial No. 461,376; published Feb. 22, 1944.
Ladders. H. W. Richards. 406,865; May 2; Serial No. 465,151; published Feb. 22, 1944.
Traps, Animal. McGill Metal Products Company. 406,852; May 2; Serial No. 464,513; published Feb. 22, 1944.

LIST OF PLANT PATENTEES

Marsh, Edward E., Pasadena, Calif. Rose plant. 626; May 2.

LIST OF DESIGN PATENTEES

Adler, Paul, New York, N. Y. Dress. 137,847; May 2.
Adler, Paul, New York, N. Y. Dress. 137,848; May 2.
Adler, Paul, New York, N. Y. Dress. 137,849; May 2.
Adler, Paul, New York, N. Y. Dress. 137,850; May 2.
Adler, Paul, New York, N. Y. Dress. 137,851; May 2.
Adler, Paul, New York, N. Y. Dress. 137,852; May 2.
Adler, Paul, New York, N. Y. Dress. 137,853; May 2.
Appel, Robert, New York, N. Y. Articulated fabric or similar article. 137,828; May 2.
Appleton Electric Company. (See Tornblom, Nils A., assignor.)
Booty, Philip C. P., Chicago, Ill. Dart. 137,804; May 2.
Burton, William, Chicago, Ill. Sheet of a decorative wall material or the like. 137,840; May 2.
Burton, William, Chicago, Ill. Sheet of a decorative wall material or the like. 137,841; May 2.
Burton, William, Chicago, Ill. Sheet of a decorative wall material or the like. 137,842; May 2.
Burton, William, Chicago, Ill. Sheet of a decorative wall material or the like. 137,843; May 2.
Burton, William, Chicago, Ill. Sheet of a decorative wall material or the like. 137,844; May 2.
Burton, William, Chicago, Ill. Sheet of a decorative wall material or the like. 137,845; May 2.
Churchill, Charles H., Cortland, N. Y. Combined shaving mug and brush holder. 137,788; May 2.
Cohan, Elsye, assignor of one-half to E. Steiner, New York, N. Y. Handbag. 137,789; May 2.
Cressaty, George M., New York, N. Y. Lens. 137,805; May 2.
Dailey, Donald E., Philadelphia, Pa., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Instrument dial or similar article. 137,836; May 2.
Darling, James L., Philadelphia, assignor of one-half to J. M. Davis, Blue Ridge Summit, Pa. Toy bank. 137,790; May 2.
Davis, John M. (See Darling, James L., assignor.)
Defiance Alloyed Products Company, The. (See Hadley, Harold F., assignor.)
Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Combined partition and refrigerator or similar article. 137,791; May 2.
Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Oven unit or similar article. 137,792; May 2.
Duescher, Lawrence H., Milwaukee, Wis. Sun glass cigarette lighter. 137,806; May 2.
Dugdale, Richard M., Dedham, assignor to Farrington Manufacturing Company, Jamaica Plain, Mass. Jewelry box or similar article. 137,807; May 2.
Duhrssen, Alfred, New York, N. Y. Plate or similar article. 137,793; May 2.
Farrington Manufacturing Company. (See Dugdale, Richard M., assignor.)
Galper, Samuel, Jamaica, N. Y. Rack for supporting hypodermic needles in card form. 137,808; May 2.
General Motors Corporation. (See Macan, Albert L., assignor.)
Greener, Charles I. (See Manaster, Ben B., assignor.)
Hadley, Harold F., assignor to The Defiance Alloyed Products Company, Defiance, Ohio. Compressor. 137,829; May 2.
Heinzel, Irving R., Chicago, Ill. Child's exerciser or similar article. 137,809; May 2.
Hovey, C. Earl, trustee. (See Schladermundt, P., and Metzler, assignors.)
Jackson, Horace G., Woodstown, N. J. Holder for bottles. 137,810; May 2.
Kleinberg, Harry I., Pittsburgh, Pa. Footed casserole or similar article. 137,794; May 2.
Lesiak, Leonard L., and J. H. Shows, Los Angeles, Calif. Hand mirror or similar article. 137,795; May 2.
Libbey-Owens-Ford Glass Company. (See Doner, Halbert C., assignor.)
Mabrito, Edward J., Richmond, Calif. Discharge uptake for steam boilers. 137,830; May 2.
Macan, Albert L., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Pedestal control valve unit. 137,831; May 2.
Manaster, Ben B., assignor of one-half to C. I. Greener, Chicago, Ill. Collar stay. 137,846; May 2.
Manning, Maxwell & Moore, Incorporated. (See Dailey, Donald E., assignor.)
McCoy, Marion, St. Louis, Mo. Belt or similar article. 137,837; May 2.
McCoy, Marion, St. Louis, Mo. Dress. 137,854; May 2.
McCoy, Marion, St. Louis, Mo. Dress. 137,855; May 2.
McCoy, Marion, St. Louis, Mo. Dress. 137,856; May 2.
McCoy, Marion, St. Louis, Mo. Dress. 137,857; May 2.
McCoy, Marion, St. Louis, Mo. Dress. 137,858; May 2.
McGrath, William P., assignor of one-fourth to B. J. Woodard, Wadsworth, Kans. Game board. 137,838; May 2.
McLaughlin, Edward J., New York, N. Y. Textile fabric. 137,839; May 2.
Metzler, Charles L. (See Schladermundt, P., and Metzler.)
Miller, Burke, Kansas City, Mo. Child's swing seat. 137,811; May 2.
Morris, Nathan K., Asbury Park, N. J. Combination grater, shredder, and cutter. 137,796; May 2.
Myers, George F., Jackson Heights, N. Y. Amphibian tank or similar article. 137,812; May 2.
Newsome, Howard P. G., New Orleans, La. Golf club head. 137,813; May 2.
Newsome, Howard P. G., New Orleans, La. Golf club head. 137,814; May 2.
Newsome, Howard, P. G., New Orleans, La. Golf club head. 137,815; May 2.
Newsome, Howard P. G., New Orleans, La. Golf club head. 137,816; May 2.
Pool, Clarence, Rivera, Calif. Valve check. 137,797; May 2.
Pool, Clarence, Rivera, Calif. Valve check. 137,798; May 2.
Pool, Clarence, Rivera, Calif. Valve check. 137,799; May 2.
Pool, Clarence, Rivera, Calif. Valve check. 137,800; May 2.
Pool, Clarence, Rivera, Calif. Valve check. 137,801; May 2.
Raphael, Lillian, New York, N. Y. Jacket or similar article. 137,832; May 2.
Robinson, John, Los Angeles, Calif. Automobile body. 137,833; May 2.
Rosenstein, Charles, Paterson, N. J. Textile fabric or similar article. 137,802; May 2.
Rosenstein, Charles, Paterson, N. J. Textile fabric or similar article. 137,817; May 2.
Rosenstein, Charles, Paterson, N. J. Textile fabric or similar article. 137,818; May 2.
Rosenstein, Charles, Paterson, N. J. Textile fabric or similar article. 137,819; May 2.
Russell, John, Sr., Summit, N. J. Combined tobacco blender and humidor. 137,820; May 2.
Sampson, Ethel A., Chicago, Ill. Lapel pin or the like. 137,821; May 2.
Schladermundt, Peter, Bronxville, N. Y., and C. L. Metzler, Palisade Park, N. J., assignors to C. E. Hovey, trustee, Kansas City, Mo. Vending machine cabinet. 137,822; May 2.
Schwartz, Nathan R., New York, N. Y. Lamp guard. 137,834; May 2.
Shows, Jodie H. (See Lesiak, Leonard L., and Shows.)
Steiner, Ernest. (See Cohan, Elsye, assignor.)
Thiele, Berthold R., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Combination latch and lock. 137,835; May 2.
Tornblom, Nils A., Chicago, Ill., assignor to Appleton Electric Company. Handle for an automobile spotlight. 137,823; May 2.
Wagner, E. R., Manufacturing Company. (See Thiele, Berthold R., assignor.)
Watkins, Frank W., Cleveland, Ohio. Desk or table lamp. 137,824; May 2.
Watkins, Frank W., Cleveland, Ohio. Desk or table lamp. 137,825; May 2.
Watkins, Frank W., Cleveland, Ohio. Desk or table lamp. 137,826; May 2.
Watkins, Frank W., Cleveland, Ohio. Desk or table lamp. 137,827; May 2.
Wilson, Harry C., Huntington Park, Calif. Holder for machine tool cutters. 137,803; May 2.
Woodard, Bennett J. (See McGrath, William P., assignor.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF MAY, 1944

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ackerman, Albert A. (See Webb, I. F., and Ackerman.)
Acme Steel Company. (See MacChesney, C. M., and Wilson, assignors.)
Air Preheater Corporation, The. (See Karlsson, P. H., and Yerrick, assignors.)
Air Preheater Corporation, The. (See Waitkus, Joseph, assignor.)
Air Reduction Company. (See Anderson, James L., assignor.)
Airoast Corporation. (See Goldfine, Wesley R., assignor.)
Alban, Laurabel W., Pontiac, Mich. Diaper. 2,347,867; May 2.
Alcorn Combustion Company. (See Praeger, Frank H., assignor.)
Alien Property Custodian. (See Coeterier, Frederik.)
Alien Property Custodian. (See Posthumus, K., Penning, Dorgelo, and Verburg.)
Alien Property Custodian. (See Schaaf, Alexander.)
Alien Property Custodian. (See Ulrich, H., Ploetz, and Nold.)
Albright-Nell Company, The. (See Folk, Joseph, assignor.)
Allen, Kenneth C., Dayton, and D. A. Meeker, assignors to The Hobart Manufacturing Company, Troy, Ohio. Dashpot for scales. 2,347,803; May 2.
Allen, Raymond P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heel construction. 2,347,868; May 2.
Allied Control Company. (See Ebert, Joseph F., assignor.)
Allis-Chalmers Manufacturing Company. (See Otto, Eugene J., assignor.)
Allmänna Svenska Elektriska Aktiebolaget. (See Trapp, C. A., and Hansson, assignors.)
Amdur, Leon H., Brooklyn, N. Y. Electric dry shaver. 2,347,869; May 2.
Amdur, Leon H., Brooklyn, N. Y. Electric dry shaver. 2,347,870; May 2.
American Brake Shoe Company. (See Habel, Berger R., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Then, Edward O., assignor.)
American Can Company. (See White, Richard J., assignor.)
American Car and Foundry Investment Corporation. (See Stanton, Warren F., assignor.)
American Chain & Cable Company. (See Bratz, Otto J., assignor.)
American Cyanamid & Chemical Corporation. (See Young, Guy B., assignor.)
American Cyanamid Company. (See Jayne, David W., Jr., assignor.)
American Cyanamid Company. (See Roblin, Richard O., Jr., assignor.)
American District Telegraph Company. (See Farmer, P. M., and Bloser, assignors.)
American District Telegraph Company. (See Farmer, P. M., Bloser, and Kleinknecht, assignors.)
American Geochemical Corporation. (See Beckman, Arnold O., assignor.)
American Home Products Corporation. (See Wisansky, Walter A., assignor.)
American-La France-Foamite Corporation. (See Shepard, Allan G., assignor.)
American Marine Engineering Corporation. (See Moore, V. B., and Tsoneff, assignors.)
American Potash & Chemical Corporation. (See Black, L. G., Fitch, and Suhr, assignors.)
American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)
American Steel Foundries. (See Parke, Torsten H., assignor.)
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Cutting machine for round billets. 2,347,804; May 2.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood, Elliott Fisher Company, New York, N. Y. Carriage return mechanism for accounting machines. 2,348,048; May 2.
Andrews, Irving B. (See Dow, H. E., and Andrews.)
Andrews, Norman F., Moline, Ill., and R. L. Dort, Davenport, Iowa, assignors to Deere & Company, Moline, Ill. Corn harvester. 2,347,871; May 2.
Antal, Vincent, Owatonna, Minn. Flexible adjustable lever drag harrow. 2,347,979; May 2.
Apco Mossberg Company. (See Storrie, William, assignor.)

Apfelbaum, Huna L., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Hinge for molded containers. 2,347,980; May 2.
Apfelbaum, Huna L., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Molded hinge. 2,347,981; May 2.
Appel, Werber, Boise, Idaho. Aircraft tail wheel assembly. 2,348,101; May 2.
Arey, Ralph G., Swampscott, Mass., assignor to General Electric Company. Electric measuring instrument. 2,348,006; May 2.
Arkell Safety Bag Company. (See Doyle, James F., assignor.)
Aronoff, Samuel. (See Magnus, G. A., and Aronoff.)
Aronoff, Samuel, Dayton, Ohio. Camera shutter. 2,347,700; May 2.
Associated Patentees, Inc. (See Borton, Alwyn E., assignor.)
Auld, Donald W., and L. J. Weber, Bartlesville, Okla., assignors to Phillips Petroleum Company. Wire line pressure retaining core barrel. 2,347,726; May 2.
Austin, Ellsworth W. (See Choate, R. E., and Austin.)
Automatic Voting Machine Corporation. (See Gustavson, Alvin N., assignor.)
Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron lens. 2,347,982; May 2.
Backoff, William J., and N. D. Williams, assignor to The Pure Oil Company, Chicago, Ill. Solvent compositions. 2,347,983; May 2.
Baker, Lucille L., Homer, Mich. Diaper prewasher. 2,348,102; May 2.
Baker Perkins, Inc. (See Feige, Harry, assignor.)
Ballou, Richard P. (See Christensen, P. M., and Ballou.)
Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Transmission. 2,347,654; May 2.
Bankson, Severin B., San Francisco, Calif. Tie knot holder. 2,348,049; May 2.
Barber, Charles C., Rockville Centre, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Panel selector contact shoe. 2,347,727; May 2.
Barley, Clarence J. (See Hoke, H. A., and Barley.)
Barnstyn, Jack, New York, N. Y. Spotting and signaling apparatus. 2,348,050; May 2.
Barrington, James R. (See Green, W. H., and Barrington.)
Barsalou, Hobert L., Dayton, Ohio. Gun sight. 2,347,655; May 2.
Baskerville, Ralph J., Merwood Park, Pa., assignor to General Electric Company. Electric circuit breaker. 2,347,984; May 2.
Bedard, Joseph W., Hoosick Falls, N. Y. Stitching machine. 2,347,761; May 2.
Beckman, Arnold O., Altadena, assignor to American Geochemical Corporation. Long Beach, Calif. Soil analysis for location of oil deposits. 2,348,103; May 2.
Beddoes, Hubert, assignor to Pacific Flush Tank Company, Chicago, Ill. Safety device for gas producing systems. 2,348,104; May 2.
Beersman, Charles G., Evanston, Ill. Refrigerator. 2,347,985; May 2.
Bell, Charles C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Coating material spray recovery means. 2,347,728; May 2.
Bell, David B., Long Beach, assignor to Kenyon F. Lee, Los Angeles, Calif., trustee. Method of converting oil. 2,347,805; May 2.
Bell & Howell Company, The. (See McNabb, Louis A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Barber, Charles C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Christensen, Carl J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Coyne, Howard L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Cummings, George C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Finch, O. J., and White, assignors.)
Bell Telephone Laboratories, Incorporated. (See Hamscom, Clarence D., assignor.)
Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)
Bell Telephone Laboratories, Incorporated. See Horton, Arthur W., Jr., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kinkead, F. S., Krecek, and Young, assignors.)
Bell Telephone Laboratories, Incorporated. (See Rubly, H. C., and Young, assignors.)
Bell Telephone Laboratories, Incorporated. (See Wooten, Leland A., assignor.)

Bendix Aviation Corporation. (See Briechle, A., Hurley, and Merritt, assignors.)
Bendix Aviation Corporation. (See Lehman, Samuel K., assignor.)
Bendix Aviation Corporation. (See Nardone, Romeo M., assignor.)
Benjamin, Clarence F., Devon, Conn. Portable hammock. 2,347,656; May 2.
Bennion, Leslie H., and W. A. Smart, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J. Counter molding machine. 2,348,105; May 2.
Benz, Lewis W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well tool. 2,347,729; May 2.
Bergman, Gus E., Columbus, Nebr. Shoe. 2,347,762; May 2.
Binkley, Stephen B. (See Thayer, S. A., Binkley, McKee, MacCorquodale, and Doisy.)
Binks, Melvin J., River Forest, assignor to J. H. Keeney & Co., Inc., Chicago, Ill. Skill testing game. 2,347,657; May 2.
Birk, Ferdinand J. See Brian, W. S., and Birk.)
Bixby, Willard F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Temperature control system. 2,347,763; May 2.
Black-Clawson Company, The. (See Staege, Stephen A., assignor.)
Black, Franklin, Los Angeles, Calif. Copy holder. 2,347,730; May 2.
Black, Leroy G., E. B. Fitch, and H. B. Suhr, assignors to American Potash & Chemical Corporation, Trona, Calif. Preparing solutions containing high ratios of sodium carbonate to sodium sulphate. 2,348,164; May 2.
Blakely, Robert T., Amityville, assignor to International Business Machines Corporation, New York, N. Y. Machine for reading perforated record cards. 2,348,051; May 2.
Blanchard, Charles E., Randolph, and A. W. Ferre, Wellesley, assignors to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Drier. 2,348,174; May 2.
Blanchard, Raymond H., Melrose, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Rubber outsole for footwear. 2,347,872; May 2.
Bloomer Bros. Company. (See Inman, William H., assignor.)
Bloomfield, John J., Burbank, Calif., assignors, by mesne assignments, to Lockheed Aircraft Corporation. Magnetic clutch. 2,347,873; May 2.
Bloser, Dwight W., (See Farmer, P. M., and Bloser.)
Bloser, Dwight W. (See Farmer, P. M., Bloser, and Kleinknecht.)
Bluemle, Arnold A., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Electric switch. 2,347,874; May 2.
Boice, John E. (See Boice, William B. and J. E.)
Boice, William B. and J. E., Toledo, Ohio. Band saw. 2,347,764; May 2.
Boice, William B. and J. E., Toledo, Ohio. Band saw. 2,347,765; May 2.
Boillat, Philippe, assignor to the firm Tavennes Machines Co. S. A., Tavennes, Switzerland. Lathe. 2,348,052; May 2.
Boissevain, Matthijs G. J. (See Reinhardt, A. E., Boissevain, Shapiro, and Cady.)
Boivie, Jean I. R., Stockholm, Eweden. Gas purifier. 2,347,731; May 2.
Bolen, Edward F., and A. C. Lind, assignors to National Automotive Fibres, Inc., Detroit, Mich. Trim panel. 2,347,806; May 2.
Bonhôte, Gérald, deceased, Basel, by M. Bonhôte, Saint Blaise, administratrix, and E. A. Henzi, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Mono-azo dyestuffs. 2,347,928; May 2.
Bonhôte, Marcelle, administratrix. (See Bonhôte, G., and Henzi.)
Boonton Molding Company. (See Sayre, Gordon B., assignor.)
Booth, Earl C., assignor to Nobilitt-Sparks Industries, Inc., Columbus, Ind. Bottle carrier. 2,347,807; May 2.
Booth, Rolfe G. (See Brunton, B., and Booth.)
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Esters of terpene compound. 2,347,929; May 2.
Borton, Alwyn E., South Orange, assignor to Associated Patentees, Inc., Ampere, N. J. Cartridge link manufacture. 2,347,930; May 2.
Bourne, Raymond D., Middletown, Ohio. Ice cream goblet. 2,347,658; May 2.
Bowerman, Martin, Alhambra, Calif. Wheel starter. 2,347,986; May 2.
Bowker, John E., Tusmore, Australia. Electrically operated motor vehicle. 2,348,053; May 2.
Boyes, William H. D. (See Fieldsend, B. C., and Boyes.)
Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Dewaxing oils. 2,347,809; May 2.
Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Process and apparatus for separating wax from mineral oil solutions. 2,347,810; May 2.
Brandwein, Reinhold. (See Goodman, L., and Brandwein.)

Bratz, Otto J., Adrian, Mich., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Metalworking machine. 2,347,875; May 2.
Braun, Karl F., Clairton, and G. T. Griffiths, McKeesport, Pa., assignors to Carnegie-Illinois Steel Corporation. Splashboard bracket for barges and the like. 2,347,876; May 2.
Brehm, Charles M., assignor to The Steel Products Engineering Company, Springfield, Ohio. Die. 2,347,808; May 2.
Bretzlaff, W. Herbert. (See Grimes, Charles P., assignor.)
Brewer, Harry, Sidney, Nebr. Chipper guard. 2,347,878; May 2.
Brian, William S., and F. J. Birk, Owensboro, Ky. Boat hull construction and propulsion. 2,348,106; May 2.
Briechle, Ambrosius, Brooklyn, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y. Tire building machine. 2,347,732; May 2.
Briechle, Ambrosius, Brooklyn, N. T. Hurley, Dobbs Ferry, and G. E. Merritt, Staten Island, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Camera. 2,347,732; May 2.
Briggs & Stratton Corporation. (See FitzGerald, John W., assignor.)
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briggs Manufacturing Company. (See Tjaarda, J., and Ehrling, assignors.)
Briney, Ottis R., Jr., Jontiac, Mich. Grinding machine. 2,347,766; May 2.
Broad & Company Limited. (See Rankin, Alexander M., assignor.)
Bromagem, Irl R., assignor to Union City Body Company, Union City, Ind. Theater seat. 2,347,931; May 2.
Brongersma, Cornelius, Muskegon Heights, assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Hand control unit. 2,348,107; May 2.
Brooke, Lloyd F. (See Elliott, L. P., and Brooke.)
Brown Instrument Company, The. (See Keeler, Earl A., assignor.)
Brown, Norman G. (See Hobday, H. L., and Brown.)
Brumbaugh, Andrew K., Palo Alto, assignor, by mesne assignments, to Knuckey Truck Company, San Francisco, Calif. Dual drive axle. 2,347,987; May 2.
Brunton, Bernard, and R. G. Booth, assignors to Selection Engineering Co. Limited, London, England. Hollow beam and column for use in buildings. 2,347,879; May 2.
Bryant Chucking Grinder Company. (See Moore, Willis F., assignor.)
Buchanan, George T., Chicago, Ill. Coagulant composition. 2,348,165; May 2.
Budd, Baylis F., Houston, Tex. Electrode holder. 2,347,880; May 2.
Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)
Budd Wheel Company. (See Ledwinka, Joseph, assignor.)
Bulbulian, Arthur H., Rochester, Minn. High altitude aviation mask. 2,348,108; May 2.
Burch, Thomas H., Dayton, Ohio. Adjustable circumference scriber. 2,347,659; May 2.
Burke, Ormonde J., New York, N. Y. Valve construction. 2,347,988; May 2.
Burnam, Thompson W. (See Corp, Maurice J., assignor.)
Burndy Engineering Company. (See Lee, M., and Matthysse, assignors.)
Burndy Engineering Company. (See Rogoff, Julian, assignor.)
Burney, Henry P., Jr., San Antonio, Tex. Sign control. 2,348,054; May 2.
Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. 2,347,989; May 2.
Burrell, Frank C., Lyons, Ill. Tire and wheel lock. 2,347,767; May 2.
Burroughs Adding Machine Company. (See Fettig, Arthur J., assignor.)
Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)
Burtle, Jerome G., Godfred Township, Madison County, assignor to Western Cartridge Company, East Alton, Ill. Manufacture of explosives. 2,347,660; May 2.
Bush, Rankin J., Jeannette, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Accumulator. 2,347,932; May 2.
Butland, Ralph A., Washington, D. C. Heat conductivity apparatus. 2,347,661; May 2.
Butler Manufacturing Company. (See Larkin, W. B., and Norquist, asignors.)
Buxbaum, Edwin C. (See Lulek, R. N., and Buxbaum.)
Buzzell, Maurice E. (See Hatch, L. A., and Buzzell.)
Byrkit, Gordon D. (See Lincoln, B. H., Byrkit, and Steiner.)
Byron Jackson Co. (See Lundeen, Chester A., assignor.)
Cady, Charles A. (See Reinhardt, A. E., Boissevain, Shapiro, and Cady.)
Cahen, Herman S., University Heights, Ohio. Bowling ball. 2,347,881; May 2.
Campbell, Richard L., Maywood, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Electronic view finder. 2,347,933; May 2.
Carboloy Company. (See Taylor, George F., assignor.)
Carborundum Company, The. (See Mays, James C., assignor.)

Carlton, Richard P., and B. J. Oakes, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Resin bonded abrasive sheet material. 2,347,662; May 2.
Carnahan, Orson A., Syracuse, N. Y. Hydraulically balanced bearing. 2,347,663; May 2.
Carnegie-Illinois Steel Corporation. (See Braun, K. F., and Griffiths, assignors.)
Casey, Francis B. (See Gott, G. E., Habib, Casey, and Fairbank.)
Cavanaugh, Walter T., and G. E. Viera, Oakland, Calif. Apparatus for applying filler to tape. 2,348,166; May 2.
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Celotex Corporation, The. (See Swenson, George E., assignor.)
Champion Paper and Fibre Company, The. (See Warner, Edgar, assignor.)
Chandler-Evans Corporation. (See Hunt, Scott F., assignor.)
Chapman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electric translating apparatus. 2,348,055; May 2.
Cheely, Beulan E., and C. R. Griffith, Knoxville, Tenn. Swing pan spreader. 2,348,056; May 2.
Chesser, Fred B., Bessemer, Ala. Snuff dipper. 2,348,057; May 2.
Chicago Development Company. (See Moss, Cresap M., assignor.)
Chicago Metallic Manufacturing Company. (See Langel, Adrien L., assignor.)
Chilton, Forrest S., Pompton Plains, N. J. Fodder treating means. 2,347,664; May 2.
Chilton, Forrest S., Pompton Plains, N. J. Fodder treating method. 2,348,183; May 2.
Choate, Roy E., and E. W. Austin, assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa. Excavator. 2,347,882; May 2.
Christensen, Carl J., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device. 2,347,733; May 2.
Christensen, Christian. (See Christensen, Geneva B. and C.)
Christensen, Geneva B. and C., New Rochelle, N. Y. Internal reflection lighting means. 2,347,665; May 2.
Christensen, Paul M., Newington, and R. P. Ballou, West Hartford, assignors to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Motor starter. 2,347,934; May 2.
Cities Service Oil Company. (See Brandt, David G., assignor.)
Cities Service Oil Company. (See De Villiers, Truman E., assignor.)
Clark, Alfred S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating upon shoes. 2,347,666; May 2.
Coates, Henry, and B. A. Vuille, assignors to Watford Electric & Manufacturing Company Limited, Watford, England. Apparatus for controlling the maximum demand of electric power-loads. 2,348,058; May 2.
Coeterier, Frederik, Eindhoven, Netherlands; vested in the Alien Property Custodian. Electric discharge tube. 2,347,990; May 2.
Collins, Thomas. (See Plumadore, H. W., Collins, and Oakley.)
Collom, Cletus J., Detroit, Mich. Timing control system. 2,347,935; May 2.
Colt's Patent Fire Arms Manufacturing Company. (See Christensen, P. M., and Ballou, assignors.)
Combustion Engineering Company. (See Schoenfeld, David M., assignor.)
Compo Shoe Machinery Corporation. (See Dawson, Fred assignor.)
Compo Shoe Machinery Corporation. (See Macdonald, Kenneth W., assignor.)
Connecticut Electric Manufacturing Co., The. (See Gillen, George A., assignor.)
Connor, Roger, and N. S. Welk, assignors to The McBee Company, Athens, Ohio. Sorting device. 2,347,811; May 2.
Continental Oil Company. (See Ledbetter, Robert L., assignor.)
Continental Oil Company. (See Lincoln, B. H., Byrkit, and Steiner, assignors.)
Corp, Maurice J., Los Angeles, assignor to T. W. Burnam, Whittier, Calif. Liquid pump. 2,348,109; May 2.
Cowan, Charles H., Jr., Stonington, Conn. Bottle cap remover. 2,347,734; May 2.
Cox, Norman L., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of cellulosic structures. 2,347,883; May 2.
Cox, Norman L., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing cellulosic structures. 2,347,884; May 2.
Coyne, Howard L., Rockville Centre, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,347,735; May 2.
Craig, David, Silver Lake Village, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Isomerization of conjugated diolefins. 2,347,667; May 2.
Crewson, George G., Buffalo, N. Y. Controlling device for drying apparatus. 2,347,936; May 2.
Crickmer, Charles S., Dallas, Tex. Wire line guide. 2,347,885; May 2.
Cripps, Ray H., South Gate, assignor to Sawyer Electrical Mfg. Company, Los Angeles, Calif. Torque tester. 2,348,175; May 2.
Crismon, Leo T., Louisville, Ky. Book lettering table. 2,347,886; May 2.
Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for producing wells. 2,347,768; May 2.
Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Secondary recovery apparatus. 2,347,769; May 2.
Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Drivehead. 2,347,812; May 2.
Cross, Sidney S., San Antonio, Tex. Vehicle signal. 2,347,937; May 2.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Torch. 2,348,110; May 2.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Torch. 2,348,111; May 2.
Crystal Tube Manufacturing Company. (See Goodman, L., and Brandwein, assignors.)
Cummins, Walter E., Los Angeles, Calif. Dual pump. 2,347,887; May 2.
Cummings, Blanche F., executrix. (See Cummings, George C.)
Cummings, George C., deceased, by B. F. Cummings, Orange, N. J., executrix, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inverse neutral telegraph repeater hub circuit. 2,347,813; May 2.
Cummings, Howard B., St. Paul Park, Minn. Lawn mower appliance. 2,347,991; May 2.
Currie, Dugald, Des Moines, Iowa. Automobile jack. 2,347,888; May 2.
Da Costa, James S., Merchantville, N. J., assignor to Palmer-Bee Company, Detroit, Mich. Selective and automatic loading and unloading device. 2,348,112; May 2.
Dain Manufacturing Company. (See Hill, George B., assignor.)
D'Alello, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Diazinyl carboxy-alkyl sulphides and salts thereof. 2,347,992; May 2.
Daly, George F., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Paper feeding mechanism. 2,348,059; May 2.
Daly, Loretta M., Pittsfield, Mass., assignor to General Electric Company. Electric heater. 2,347,993; May 2.
Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Quick take-up mechanism. 2,347,889; May 2.
Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Draft and buffer gear. 2,347,890; May 2.
D'Antremont, Adelbert S., Kernville, Calif. Counterbalanced overhead door. 2,347,770; May 2.
Davies, Lynn E., Park Ridge, assignor to White Cap Company, Chicago, Ill. Apparatus for sealing cans and the like. 2,347,668; May 2.
Davis, Walwin L., Avon, assignor to E. D. McCurdy, Cleveland, Ohio. Fuel supply system. 2,348,113; May 2.
Dawson, Fred, West Roxbury, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Shoe Press. 2,348,060; May 2.
Dayton Rubber Mfg. Company, The. (See Reiling, Victor G., assignor.)
Dayton Steel Foundry Company, The. (See Miller, Elmer L., assignor.)
Dean, William T., Gary, Ind. Pickling tank lining. 2,347,891; May 2.
De Bretteville, Gustav, Venice, Calif. Method and apparatus for treating crude oil. 2,347,877; May 2.
De Camp, Alfred J., Molina, Colo. Parachute and aircraft projectile. 2,347,994; May 2.
Deere & Company. (See Andrews, N. F., and Dort, assignors.)
Deere & Company. (See Paradise, L. A., Irwin, and Martin, assignors.)
Dennis, Wolcott, Darien, Conn., assignor, by mesne assignments, to U. S. Industrial Chemicals, Inc. Distillation process. 2,347,669; May 2.
Derman, Harry, Laurelton, Long Island, N. Y. Garment hanging device. 2,347,892; May 2.
Detroit Edison Company, The. (See Komives, Laszlo I., assignor.)
Dettle, Lawrence E., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph. 2,347,995; May 2.
De Villiers, Truman E., Okmulgee, assignor to Cities Service Oil Company, Bartlesville, Okla. Lubricant. 2,347,814; May 2.
Devine, James H., Chicago, Ill., assignor to Dev-Insular Company, St. Louis, Mo. Lunch box. 2,347,670; May 2.
Dev-Insular Company. (See Devine, James H., assignor.)
Dewey and Almy Chemical Company. (See Gott, G. E., Habib, Casey, and Fairbank, assignors.)
Dickey, Joseph B. (See McNally, J. G., and Dickey.)

Dickhaut, Charles A., assignor to John Waldron Corporation, New Brunswick, N. J. Apparatus for web alignment. 2,347,893; May 2.
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dimmick, Glenn L., Haddonfield, N. J., assignor to Radio Corporation of America. Sound film printer. 2,347,938; May 2.
Dimple Tie Corporation. (See Kleinmann, Max, assignor.)
Dimple Tie Corporation. (See Naftali, H. and V., assignors.)
Dion, Gerald J. (See Dion, Walter G. and G. J.)
Dion, Walter G. and G. J., Buffalo, N. Y. Light projector. 2,347,771; May 2.
Dircksen, Arnold D., Dayton, Ohio. Ultraviolet fluorescent instrument illumination. 2,347,671; May 2.
Dircksen, Arnold D., Dayton, Ohio, and J. M. Roper, Washington, D. C. Ultraviolet instrument light. 2,347,672; May 2.
Distillers Company Limited, The. (See Staudinger, H. P., and Tuerck, assignors.)
Doberstein, Edward J., Blue Island, assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter chain. 2,348,061; May 2.
Doerrier, Raymond, Chicago, Ill. Self-inking stamp. 2,347,996; May 2.
Dolsy, Edward A. (See Thayer, S. A., Binkley, McKee, MacCorquodale, and Dolsy.)
Dorgelo, Eduard G. (See Posthumus, K., Penning, Dorgelo, and Verbug.)
Dort, Russell L. (See Andrews, N. F., and Dort.)
Douglas, H. A., Mfg. Co. (See Drury, Thomas W., assignor.)
Dow, Alva M., assignor to C. G. Dow, Braintree, Mass. Gun stabilizer. 2,348,114; May 2.
Dow, Carrie G. (See Dow, Alva M., assignor.)
Dow, Harry E., and I. B. Andrews, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Folding machine. 2,347,674; May 2.
Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Governor and drain valve control apparatus. 2,347,939; May 2.
Downes, Edward J., Albany, N. Y. Laundry machine. 2,348,115; May 2.
Doyle, James F., Forest Hills, assignor to Arkell Safety Bag Company, New York, N. Y. Valve bag. 2,347,673; May 2.
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Aliphatic dicarbylamines and producing them. 2,347,772; May 2.
Drummond, Robert S., Detroit, Mich. Gear finishing. 2,347,997; May 2.
Drummond, Robert S., Detroit, Mich. Gear crowning. 2,347,998; May 2.
Drury, Thomas W., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch. 2,347,894; May 2.
Du Mont, Allen B., Laboratories, Inc. (See Campbell, Richard L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Cox, Norman L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hunt, Madison, assignor.)
Du Pont, E. I., de Nemours & Company. (See Lulek, R. N., and Buxbaum, assignors.)
Durant, Albert A. (See Varga, Stephen, assignor.)
Dzus, William, West Islip, N. Y. Fastener assembly. 2,347,675; May 2.
Dzus, William, West Islip, N. Y. Device for positioning and aligning apertures. 2,348,116; May 2.
Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)
Ebert, Joseph F., Hollis, assignor to Allied Control Company, Inc., New York, N. Y. Contact terminal structure. 2,347,815; May 2.
Ehrling, Gunnar E. (See Tjaarda, J., and Ehrling.)
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Eley, James W. (See O'Neill, Peter J., assignor.)
Elliott, Laverne P., Berkeley, and L. F. Brooke, Berkeley Highland Terrace, assignors to Standard Oil Company of California, San Francisco, Calif. Reaction of hydrocarbons. 2,347,999; May 2.
Elliott, William C., Modesto, Calif. Tumbling scraper. 2,348,117; May 2.
Emerson, Walter H., East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Chinaware sanding machine. 2,347,940; May 2.
Eplett, Albert D., Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Safety valve. 2,347,676; May 2.
Erwin, Ransome W., Tyler, Tex. Brine filter-skimmer chamber for closed crude oil emulsion treater tanks. 2,348,167; May 2.
Eureka Vacuum Cleaner Company. (See Sherrer, J. M., Severance, and Huntington, assignors.)
Evans, Rhys, London, England. Ventilator. 2,347,895; May 2.
Eweson, Eric W., New York, N. Y. Smoker's device. 2,347,941; May 2.
Eyler, Lawrence J., Dayton, Ohio, and C. C. Pearson, Santa Monica, Calif. Bomb rack. 2,347,896; May 2.
Faber, John P., Dunellen, assignor to Ransome Machinery Company, Plainfield, N. J. Welding positioner and manipulator. 2,348,062; May 2.
Fairbank, Benjamin A. (See Gott, G. E., Habib, Casey, and Fairbank.)
Fanner Manufacturing Company, The. (See Schane, Edward H., assignor.)
Faris, Harold P., Philadelphia, Pa., and J. E. White, Trenton, N. J., assignors to National Automotive Fibres, Inc., Detroit, Mich. Carpet making apparatus. 2,347,816; May 2.
Farmer, Paul M., West Orange, D. W. Bloser, Teaneck, N. J., and W. J. Kleinknecht, Norwalk, Conn., assignors to American District Telegraph Company, Jersey City, N. J. Watchman's tour system. 2,347,942; May 2.
Farmer, Paul M., West Orange, and D. W. Bloser, Teaneck, assignors to American District Telegraph Company, Jersey City, N. J. Watchman's tour system. 2,347,943; May 2.
Febrey, Harold H., South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey. Electrical shunt for pipe couplings. 2,347,897; May 2.
Feige, Harry, assignor to Baker Perkins, Inc., Saginaw, Mich. Oven heating system. 2,348,118; May 2.
Ferguson, Henry G., Belfast, Northern Ireland. Hitch means for connecting trailers to tractive vehicles. 2,347,898; May 8.
Ferre, Albert W. (See Blanchard, C. E., and Ferre.)
Fettig, Arthur J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Accounting machine and the like. 2,348,168; May 2.
Fieldsend, Eric C., London, England, and W. H. D. Boyes, Saltcoats, Scotland, assignors to Imperial Chemical Industries, Limited. Film, filament, fiber or other shaped article made by hardening proteins coagulated from their solutions. 2,347,677; May 2.
Fiene, Marcus E., Caldwell, N. J., assignor to General Electric Company. Heat transfer system. 2,348,000; May 2.
Film-O-Seal Company. (See Owens, Noel, assignor.)
Finch, Oscar J., New York, N. Y., and J. H. White, Cranford, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permanent magnet material. 2,347,817; May 2.
Fisher, Elbert E., assignor to M. W. Fisher, St. Louis, Mo. Producing alumina. 2,347,736; May 2.
Fisher, Marlew W. (See Fisher, Elbert E., assignor.)
Fitch, Elliott B. (See Black, L. G., Fitch, and Suhr.)
FitzGerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,348,063; May 2.
Folk, Joseph, assignor to The Allbright-Nell Company, Chicago, Ill. Slicing machine. 2,347,818; May 2.
Foresman, Robert A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Stoker apparatus. 2,347,819; May 2.
Forsythe, John W., Wilkinsburg, Pa. Charging box for open hearth furnace charging operation. 2,347,899; May 2.
Fowler, Elbert, Elyria, Ohio. Rotary pump. 2,347,944; May 2.
Fowler, John & Co. (Leeds) Limited. (See Niekirk, Percy B., assignor.)
Francek, Joseph R., Algonquin, assignor to E. J. Sheehan, Chicago, Ill. Dry expansion of wood veneer. 2,347,820; May 2.
Franz, Erwin E., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding apparatus. 2,347,773; May 2.
Frazer-Nash, Archibald G., Tolworth, and S. R. Proctor, Almondesbury, England. Motion transmitting and coordinating means. 2,347,900; May 2.
French, Thomas, & Sons, Ltd. (See Gibbons, Edwin J., assignor.)
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbon materials. 2,347,945; May 2.
Fridolph, Annette, New York, N. Y. Bandage and making same. 2,348,119; May 2.
Frostling, Ivar A., Boxholm, and E. G. Karlsson, Malexander, Sweden. Clock. 2,348,120; May 2.
Fuel Refining Corporation. (See Otto, Carl, assignor.)
Fuller, Joseph C., Newton, Mass. Manufacture of dispensing containers. 2,347,737; May 2.
Galipó, Ramón A., and F. Salvatierra, Buenos Aires, Argentina. Valve for fuel saving devices. 2,347,946; May 2.
Gardner, Percy, Glen Ridge, N. J., and R. Kagan, Brooklyn, assignors to Lever Bias Machine Corporation, New York, N. Y. Apparatus for forming tubular material. 2,347,901; May 2.
Gaubert, Rene J., assignor to Simplex Wrapping Machine Co., Oakland, Calif. Bag making machine and method. 2,347,902; May 2.
Gaver, Kenneth M., Columbus, assignor to The Komel Corporation, Dayton, Ohio. Emulsion. 2,347,678; May 2.
Gaver, Kenneth M., Columbus, assignor to The Komel Corporation, Dayton, Ohio. Wax emulsion. 2,347,679; May 2.
Gaver, Kenneth M., Columbus, assignor to The Komel Corporation, Dayton, Ohio. Wetting and emulsifying agent. 2,347,680; May 2.

Gebhardt, Charles W., assignor to The C. L. Gougler Machine Company, Kent, Ohio. Article finishing apparatus and method. 2,348,064; May 2.

Gelardin, Albert, New York, N. Y. Cosmetic holder. 2,347,774; May 2.

General Aniline & Film Corporation. (See Scherer, Otto, assignor.)

General Electric Company. (See Arey, Ralph G., assignor.)

General Electric Company. (See Bachman, Charles H., assignor.)

General Electric Company. (See Baskerville, Ralph J., assignor.)

General Electric Company. (See Burnham, Locke H., assignor.)

General Electric Company. (See Chapman, Charles H., assignor.)

General Electric Company. (See D'Alelio, G. F., and Underwood, assignors.)

General Electric Company. (See Daly, Loretta M., assignor.)

General Electric Company. (See Fiene, Marcus E., assignor.)

General Electric Company. (See Granfield, John C., assignor.)

General Electric Company. (See Hoare, Stephen C., assignor.)

General Electric Company. (See Mares, Virgil L., assignor.)

General Electric Company. (See Michel, Philip C., assignor.)

General Electric Company. (See Norris, Rollin H., assignor.)

General Electric Company. (See Oppel, John A., assignor.)

General Electric Company. (See Peterson, Harold A., assignor.)

General Electric Company. (See Smith, Sidney R., Jr., assignor.)

General Electric Company. (See Stotenbur, Ralph H., assignor.)

General Electric Company. (See Warren, Glenn B., assignor.)

General Motors Corporation. (See Bluemle, Arnold A., assignor.)

George, Harry F., Chicago, Ill. Flush type door handle. 2,348,065; May 2.

Gibbons, Edwin J., East Providence, R. I., assignor to Thomas French & Sons, Ltd., New York County, N. Y. Ladder web with different colored bands. 2,348,170; May 2.

Gibson, Donald L., West Chester, and W. M. Shoemaker, Kennett Square, Pa., assignors to National Vulcanized Fibre Company, Wilmington, Del. Acetylation of cellulose. 2,348,001; May 2.

Gillen, George A., Bronx, N. Y., assignor to The Connecticut Electric Manufacturing Co., Bantam, Conn. Flexible push-pull control. 2,348,121; May 2.

Glass, Charles B., Benicia, Calif. Trap for gophers, rats, and similar rodents. 2,348,002; May 2.

Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)

Globe Valve Corporation. (See Young, Stephan A., assignor.)

Gluck, Harry, Munhall, and D. J. Snyder, Edgewood, Pa. Pulsation damper. 2,347,903; May 2.

Goldfine, Wesley R., assignor to Airoast Corporation, Chicago, Ill. Roasting coffee. 2,348,066; May 2.

Goldman, Morris. (See Tarter, Louis B. and W., assignors.)

Goldner, Orville C., San Mateo, Calif. Collapsible furniture. 2,347,821; May 2.

Goldsmith, Dale P. J. (See O'Kelly, A. A., and Goldsmith.)

Goldup, Cecil E., assignor to Stanhay Limited, Ashford, England. Hoist. 2,347,822; May 2.

Goodman, Leon, and R. Brandwein, assignors to Crystal Tube Manufacturing Company, Chicago, Ill. Dispensing container for sheet materials. 2,347,823; May 2.

Goodman Manufacturing Company. (See Doberstein, Edward J., assignor.)

Goodrich, B. F., Company, The. (See Allen, Raymond P., assignor.)

Goodrich, B. F., Company. (See Bixby, Willard F., assignor.)

Goodrich, B. F., Company, The. (See Blanchard, Raymond H., assignor.)

Goodrich, B. F., Company, The. (See Craig, David, assignor.)

Goodrich, B. F., Company, The. (See Hermanns, Otto E., assignor.)

Gott, Gordon E., Cambridge, E. E. Habib, Arlington, F. B. Casey, Belmont, and B. A. Fairbank, Cambridge, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Packaging process. 2,348,176; May 2.

Goudreau, Delphus, Northbridge, Mass. Dual cross communion set. 2,347,681; May 2.

Gougler, C. L., Machine Company, The. (See Gebhardt, Charles W., assignor.)

Granfield, John C., Pittsfield, Mass., assignor to General Electric Company. Magnetic core. 2,348,003; May 2.

Green, Isaac H. C., and E. St. Pierre, Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Stocking top. 2,347,775; May 2.

Green, Walter H., Chicago, Ill., assignor to Infilco Incorporated. Liquid treatment. 2,348,122; May 2.

Green, Walter H., and J. R. Barrington, Chicago, Ill., assignors to Infilco Incorporated. Treatment of liquid. 2,348,123; May 2.

Green, Walter H., Chicago, Ill., assignor to Infilco, Incorporated. Liquid treatment. 2,348,124; May 2.

Green, Walter H., assignor to International Filter Co., Chicago, Ill. Sewage treatment. 2,348,125; May 2.

Green, Walter H., Chicago, Ill., assignor to Infilco Incorporated. Sewage purification. 2,348,126; May 2.

Greulich, Gerald G., Mount Lebanon, Pa. Cold-working metallic bars. 2,347,904; May 2.

Griffith, Charles R. (See Cheely, Beulan E., and Griffith.)

Griffiths, George T. (See Braun, K. F., and Griffiths.)

Grimes, Charles P., Syracuse, N. Y., assignor of one-half to W. H. Bretzlaff, Detroit, Mich. Heat transfer and disseminating apparatus. 2,348,127; May 2.

Groak, Josef, Hendon, England. Transfer copying materials. 2,348,128; May 2.

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Oil well pumping unit. 2,348,004; May 2.

Guldbrandsen, Guldbrand, St. Johnsbury, Vt. Door knocker. 2,348,129; May 2.

Gunn, John W., Montrose, Calif. Termite controlling building construction. 2,347,776; May 2.

Gunness, Robert C., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon synthesis. 2,347,682; May 2.

Gustavson, Alvin N., Bemus Point, assignor to Automatic Voting Machine Corporation, Jamestown, N. Y. Voting machine. 2,347,824; May 2.

H. K. Metal Craft Manufacturing Co. (See Hopp, H. P., and Kunzelman, assignors.)

Habel, Berger R., Riverside, Ill., assignor to American Brake Shoe Company. Narrow gauge railroad. 2,347,683; May 2.

Habib, Emile E. (See Gott, G. E., Habib, Casey, and Fairbank.)

Hait, Howard B., Philadelphia, Pa. Waste water humidifier. 2,347,905; May 2.

Hamilton, Irvin, Ridgewood, N. Y. Dolly. 2,347,947; May 2.

Hamilton, Francis E. (See Lake, C. D., and Hamilton.)

Hanks, Marshall W., assignor to Hankscraft Company, Madison, Wis. Vaporizer. 2,347,825; May 2.

Hankscraft Company. (See Hanks, Marshall W., assignor.)

Hanscom, Clarence D. Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling circuit. 2,347,777; May 2.

Hansson, Bror. (See Trapp, C. A., and Hansson.)

Hardy, Charles J., Jr., Harrison, N. Y. Armor plating. 2,348,130; May 2.

Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,347,738; May 2.

Harvey, Leo M. (See Morrison, Jess S., assignor.)

Hartford-Empire Company. (See Smith, Algy J., assignor.)

Hartford National Bank and Trust Company. (See Van Lieshout, Loisius J. A., assignor.)

Hassan, J. E., et al. (See Lichtenthal, Sigmund, assignor.)

Hassett, Raymond J., Spokane, assignor of forty-nine per cent to W. N. Kemp, Parkwater, Wash. Vehicle wheel spring support. 2,347,948; May 2.

Hatch, Lloyd A., St. Paul, and M. E. Buzzell, Mahtomedi, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coating calcinable lithic slabs. 2,347,684; May 2.

Hatcher, Ernest C., Northwood, assignor to J. Stone & Company Limited, Deptford, England. Gearing for rotating concentric shafts in opposite directions. 2,347,906; May 2.

Heany Industrial Ceramic Corporation. (See Heany, John A., assignor.)

Heany, John A., New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y. Bauxite process and product. 2,347,685; May 2.

Heath, Willis A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovering hydrocarbons. 2,347,778; May 2.

Heath, Willis A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well apparatus. 2,347,779; May 2.

Heisner, Donald A., assignor to The Lorain County Radio Corp., Lorain, Ohio. High frequency switching means. 2,347,626; May 2.

Hemphill Company. (See Green, I. H. C., and St. Pierre, assignors.)

Henzi, Ernest A. (See Bonhôte, G., and Henzi.)

Hercules Powder Company. (See Borglin, Joseph N., assignor.)

Hercules Powder Company. (See Oswald, Frank G., assignor.)

Hercules Powder Company. (See Rummelsburg, Alfred L., assignor.)

Hermanns, Otto E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for assembling resilient joints. 2,347,780; May 2.

Higgins, Walter H., Wagga, New South Wales, Australia. Spraying sheep and other animals. 2,347,739; May 2.

Hill, Charles R., Toronto, Ontario, Canada. Shoe sole structure. 2,347,740; May 2.

Hill, George B., assignor to Dain Manufacturing Company, of Iowa, Ottumwa, Iowa. Harvester. 2,347,907; May 2.

Hoare, Stephen C., Manchester, Mass., assignor to General Electric Company. Electrical measuring instrument. 2,348,005; May 2.

Hobart Manufacturing Company, The. (See Allen, K. C., and Meeker, assignors.)

Hobday, Herbert L., and N. G. Brown, Melbourne, Victoria, Australia; said Brown assignor to said Hobday. Dental chuck. 2,347,741; May 2.

Hoffert, Roy G., Racine, Wis. Wire stitching machine. 2,347,908; May 2.

Hoffman, Herbert E., Brooklyn, N. Y. Foldable and suspendable garment hanger or the like. 2,347,949; May 2.

Hoffmann-La Roche, Inc. (See Wenner, Wilhelm, assignor.)

Holtt, Robert W., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Dry-gummed tape dispensing apparatus and moistener, and delivery means therefor. 2,348,067; May 2.

Hoke, Harry A., Altoona, and C. J. Barley, Rosemont, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Water level gauge. 2,348,007; May 2.

Hollywood Sales Corporation. (See Moxley, Harry E., assignor.)

Homer Laughlin China Company, The. (See Emerson, Walter H., assignor.)

Hopp, Harold P., Englewood, N. J., and E. Kunzelman, Mount Vernon, assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y. Jacob's ladder. 2,348,068; May 2.

Hopp, Harold P., Englewood, N. J., and E. Kunzelman, Mount Vernon, assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y. Chain ladder construction. 2,348,069; May 2.

Horton, Arthur W., Jr., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric signaling. 2,348,131; May 2.

Hosiery Patents Inc. (See Subin, Benjamin, assignor.)

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 2,347,686; May 2.

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 2,347,687; May 2.

Houghton-Butcher Manufacturing Company Limited, The. (See Hunter, Douglas G., assignor.)

Huish, Emma E., Alton, Ill. Chart for teaching piano. 2,347,950; May 2.

Hunt, Madison, Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Linear polymeric isothiourea and salts thereof. 2,347,827; May 2.

Hunt, Scott F., Meriden, Conn., assignor to Chandler-Evans Corporation. Carburetor. 2,348,008; May 2.

Hunter, Douglas G., assignor to The Houghton-Butcher Manufacturing Company Limited, London, England. Photographic focal plane shutter. 2,347,951; May 2.

Huntington, Ephraim S. (See Sherrer, J. M., Severance, and Huntington.)

Hurley, Roy T. (See Briechle, A., Hurley, and Merritt.)

Hyland, John W., Portsmouth, Ohio. Hydraulic brake cylinder cleaner and polisher. 2,348,132; May 2.

Iams, Harley A., Summit, N. J., assignor to Radio Corporation of America. Method and apparatus for developing electron beams. 2,348,133; May 2.

Imperial Chemical Industries Limited. (See Fieldsend, E. C., and Boyes, assignor.)

Infilco Incorporated. (See Green, Walter H., assignor.)

Infilco Incorporated. (See Green, W. H., and Barrington, assignors.)

Inman, William H., assignor to Bloomer Bros. Company, Newark, N. Y. Carton. 2,348,070; May 2.

International Business Machines Corporation. (See Blakely, Robert T., assignor.)

International Business Machines Corporation. (See Daly, George F., assignor.)

International Business Machines Corporation. (See Lake, C. D., and Hamilton, assignors.)

International Business Machines Corporation. (See Luhn, Hans P., assignor.)

International Business Machines Corporation. (See Nichols, H. J., and Tholstrup, assignors.)

International Business Machines Corporation. (See Reinhardt, A. E., Boissevain, Shapiro, and Cady, assignors.)

International Business Machines Corporation. (See Scheerer, W., and Locklair, assignors.)

International Business Machines Corporation. (See Sprecker, Alfred L., assignor.)

International Filter Co. (See Green, Walter H., assignor.)

International Plastic Corporation. (See Schieman, Gustave, assignor.)

Irwin, James V. (See Paradise, L. A., Irwin, and Martin.)

Ivel Corporation. (See Levi, Leslie E., assignor.)

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Coincidental ignition and gear shift lock. 2,348,134; May 2.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Pillar lock. 2,348,135; May 2.

Jacobsson, Wilgot J. (See Walker, W. S., and Jacobsson.)

James, Harold V., Denver, Colo. Tire vulcanizer. 2,347,952; May 2.

Jarrett, Eddie C., Fillmore, Calif. Mechanical hand for artificial arms. 2,347,909; May 2.

Jayne, David W., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Rosin and abietic acid salts of a guanidine as a mothproofer. 2,347,688; May 2.

Jerguson, Philip A. (See Winton, Lewis B., assignor.)

Johnson, Charles E., North Muskegon, Mich. Self-locking valve tappet. 2,347,910; May 2.

Johnson, Everett A., Park Ridge, and V. Voorhees, Homewood, assignors to Standard Oil Company, Chicago, Ill. Catalytic conversion process. 2,348,009; May 2.

Johnson, Harold R., Bayside, N. Y. Model airplane. 2,347,689; May 2.

Johnston, Fred D., Towson, and S. S. Sherrill, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Drying apparatus. 2,347,781; May 2.

Johnstone, Robert M., Bondsville, Pa. Shaft coupling. 2,348,071; May 2.

Joplin, William A., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Conveying apparatus. 2,347,828; May 2.

Kagan, Ralph. (See Gardner, P., and Kagan.)

Kanhofer, Elmer R., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,348,072; May 2.

Kannenberg, William K., Milwaukee, Wis. Salvaging apparatus for sunken vessels. 2,347,690; May 2.

Karlsson, Elis G. (See Frostling, I. A., and Karlsson.)

Karlsson, Per Hilmer, and W. D. Yerrick, Wellsville, assignors to The Air Preheater Corporation, New York, N. Y. Rotary reactor. 2,347,829; May 2.

Katcher, Morris, New York, N. Y. Lubricant seal. 2,347,953; May 2.

Keeler, Earl A., Norristown, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,348,177; May 2.

Keene, Walter L., assignor to Rustless Iron and Steel Corporation, Baltimore, Md. Pickling process. 2,347,742; May 2.

Keeney, J. H., & Co. (See Binks, Melvin J., assignor.)

Kellogg Switchboard and Supply Company. (See Kiner, Glenn, assignor.)

Kemp, Walter N. (See Hassett, Raymond J., assignor.)

Kerrison, Oscar C. (See Paterson, W., and Kerrison.)

Kiburz, Jack Y. (See Kiburz, John and J. Y.)

Kiburz, John and J. Y., University City, assignors to John Kiburz Pattern Company, St. Louis, Mo. Flow indicator. 2,347,830; May 2.

Kiburz, John, Pattern Company. (See Kiburz, John and J. Y., assignors.)

Kidd, Thomas D. (See Kidd, Frederick and T. D.)

Kidd, Frederick and T. D., Stockton-on-Tees, England. Ladder. 2,348,136; May 2.

Kiely, Daniel J., North Providence, R. I. Air sterilizing apparatus. 2,347,954; May 2.

Kiner, Glenn, Markham, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Drop-signal holder. 2,348,137; May 2.

Kingston, Jonas A., Reading, England. Horticultural and agricultural implement. 2,347,911; May 2.

Kinkead, Fullerton S., New York, J. A. Krecek, New Rochelle, N. Y., and W. B. Young, Jr., Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,347,831; May 2.

Klein, Louis M., New York, N. Y. Windproof match and its application to cigarettes and the like. 2,347,832; May 2.

Klein, Victor G. (See Rotter, L. C., and Klein.)

Kleinknecht, William J. (See Farmer, P. M., Bloser, and Kleinknecht.)

Kleinmann, Max, assignor, by mesne assignments, to Dimple Tie Corporation, New York, N. Y. Lining for ties. 2,347,691; May 2.

Kleinmann, Max, assignor, by mesne assignments, to Dimple Tie Corporation, New York, N. Y. Necktie and making same. 2,347,692; May 2.

Klonaris, Eustathis N., Morgan City, La. Boat. 2,348,010; May 2.

Knight, Arthur J., assignor to The Ohio Brass Company, Mansfield, Ohio. Section insulator. 2,347,913; May 2.

Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine frame. 2,347,782; May 2.

Knuckey Truck Company. (See Brumbaugh, Andrew K., assignor.)

Koering, Herman J., Pierz, Minn. Artificial weedless fishing lure. 2,347,743; May 2.

Komel Corporation, The. (See Gaver, Kenneth M., assignor.)

Komives, Laszlo I., assignor to The Detroit Edison Company, Detroit, Mich. Installing electric cables. 2,347,912; May 2.

Koppel, Ernst R., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Sheet metal gas burner. 2,348,011; May 2.

Korpi, Karl., Redondo Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Catalyst and preparing the same. 2,347,955; May 2.

Krasberg, Rudolf, Chicago, Ill. Hair curler. 2,347,693; May 2.

Krebs, Ernst T., San Francisco, Calif. Processing wood for the rapid maturation of whisky and other alcoholic liquors and wines. 2,347,783; May 2.

Krecek, Joseph A. (See Kinkead, F. S., Krecek, and Young.)

Kricker, George E., Lakewood, assignor to The Midland Steel Products Company, Cleveland, Ohio. Method and apparatus for welding. 2,347,914; May 2.

Kunzelman, Edward. (See Hopp, H. P., and Kunzelman.)

Lake, Clair D., Binghamton, and F. E. Hamilton, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Sheet stacking mechanism. 2,348,073; May 2.

Lambertsen, Christian J., Philadelphia, Pa. Breathing apparatus. 2,348,074; May 2.

Landauer, Fred, New York, N. Y. Electrode structure. 2,347,915; May 2.

Langel, Adrien L., Chicago, Ill., assignor to Chicago, Metallic Manufacturing Company. Multiple baking pan. 2,347,694; May 2.

Lansing, Earl P., New Orleans, La. Cable sheath cutting and stripping tool. 2,347,956; May 2.

La Plant-Choate Manufacturing Company. (See Choate, R. E., and Austin, assignors.)

Larkin, Wilbur B., and V. C. Norquist, assignors to Butler Manufacturing Company, Kansas City, Mo. Combination hatch and ventilator. 2,348,075; May 2.

La Rocca, Joseph, Cleveland, Ohio. Warning signal. 2,347,784; May 2.

Larrabee, Clifford P., Vandergrift, Pa. Containers containing hydrogen sulphide vapor. 2,347,916; May 2.

Latus, Florence A., and W. H. Lehrfeld, Freeport, N. Y. Telephone support. 2,348,138; May 2.

Laurenson, Robert M., Elkhart, Ind., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,347,833; May 2.

Leathers, Chester F., assignor to Progressive Welder Company, Detroit, Mich. Rheostat. 2,347,695; May 2.

Ledwinka, Joseph, assignor to Budd Wheel Company, Philadelphia, Pa. Brake mechanism. 2,348,078; May 2.

Ledbetter, Robert L., Basile, La., assignor to Continental Oil Company, Ponca City, Okla. Flow meter. 2,348,076; May 2.

Ledwinka, Joseph, assignor to Budd Wheel Company, Philadelphia, Pa. Brake mechanism. 2,348,077; May 2.

Lee, Edward C. (See Thomas, C. L., and Lee.)

Lee, Kenyon F., trustee. (See Bell, David B., assignor.)

Lee, Marvin, Rye, and I. F. Matthysse, New York, N. Y., assignors to Burndy Engineering Company, Inc. Disconnector switch. 2,347,696; May 2.

Lehman, Samuel K., New York, N. Y., assignor to Bendix Aviation Corporation, Bendix, N. J. Engine starting. 2,347,744; May 2.

Lehrfeld, William H. (See Latus, F. A., and Lehrfeld.)

Lenape Hydraulic Pressing & Forging Co. (See Moore, Charles H., assignor.)

Lessin, Maurice E., Bronx, N. Y. Necktie hanger. 2,348,139; May 2.

Lethenstrom, Mervin A., Seattle, Wash. Reciprocating saw machine. 2,347,918; May 2.

Lever Bias Machine Corporation. (See Gardner, P., and Kagan, assignors.)

Levey, Constance D., New Orleans, La. Molded materials. 2,347,697; May 2.

Levi, Leslie E., Bronx, assignor, by mesne assignments, to Ivel Corporation, New York, N. Y. Enclosure. 2,348,012; May 2.

Levin, Eli H., Chicago, Ill. Container having a pouring spout. 2,348,140; May 2.

Lewis, Jacob D., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Load determining apparatus. 2,347,917; May 2.

Lichtenthal, Sigmund, assignor to said Sigmund Lichtenthal and J. E. Hasson, Norwalk, Conn. Fur substitute and felt hat material. 2,348,079; May 2.

Lincoln, Bert H., G. D. Byrkit, and W. L. Steiner, assignors to Continental Oil Company, Ponca City, Okla. Synthesis of sulphur-bearing derivatives of high molecular weight. 2,348,080; May 2.

Lincoln Engineering Company. (See Rotter, L. C., and Klein, assignors.)

Lind, Alvin C. (See Bolen, E. P., and Lind.)

Linde Air Products Company, The. (See Walker, W. S., and Jacobsson, assignors.)

Line Material Company. (See Steinmayer, A. G., and Schultz, assignors.)

Linzell, Harry K., Long Lake, assignor to United States Gypsum Company, Chicago, Ill. Compressed cellulosic product and making same. 2,348,081; May 2.

Livingston, John W., Milwaukee, Wis., assignor to The Union Switch and Signal Company, Swissvale, Pa. Electrical switch. 2,347,834; May 2.

Lockheed Aircraft Corporation. (See Bloomfield, John J., assignor.)

Lockheed Aircraft Corporation. (See Richter, Elvin O., assignor.)

Locklair, Kurt. (See Scheerer, W., and Locklair.)

Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, Dover, Del. Vacuum cleaner. 2,347,919; May 2.

Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y. Vacuum cleaner. 2,348,082; May 2.

Lorain County Radio Corp., The. (See Heisner, Donald A., assignor.)

Lovell, Earl V., Napa, Calif. Ship propulsion. 2,347,785; May 2.

Luhn, Hans P., North Tarrytown, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Computing mechanism. 2,348,141; May 2.

Lulek, Ralph N., Wilmington, Del., and E. C. Buxbaum, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,348,013; May 2.

Lundeen, Chester A., Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Pipe tong. 2,347,698; May 2.

Lynn, Harry H. (See Mosler, E. H., ad Lynn.)

MacChesney, Chester M., Chicago, and A. B. Wilson, Evanston, assignors to Acme Steel Company, Chicago, Ill. Tire cover and package. 2,348,084; May 2.

MacCorquodale, Donald W. (See Thayer, S. A., Binkley, McKee, MacCorquodale, and Doisy.)

Macdonald, Kenneth W., Watertown, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Sole skiving machine. 2,348,142; May 2.

Magnus, George A., and S. Aronoff, Dayton, Ohio. Camera shutter. 2,347,699; May 2.

Mallard, Logan L., Norfolk, Va. Combined bottle closure and dispenser. 2,348,014; May 2.

Manning, Maxwell & Moore, Inc. (See Brongersma, Cornelius, assignor.)

Manning, Maxwell & Moore, Incorporated. (See Eplett, Albert D., assignor.)

Mares, Virgil L., Upper Darby, Pa., assignor to General Electric Company. Electric switch. 2,348,015; May 2.

Margolin, Meyer, Elgin, Ill. Middle sole and insole combination. 2,347,701; May 2.

Maris, Harry B., Riverdale, Md. Device for measuring extremely small angles. 2,347,702; May 2.

Maris, Harry B., Riverdale, Md. Wind calculator. 2,347,703; May 2.

Martin, Floyd R. (See Paradise, L. A., Irwin, and Martin.)

Matthysse, Irving F. (See Lee, M., and Matthysse.)

Mays, James C., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive wheel. 2,347,920; May 2.

McBee Company, The. (See Connor, R., and Welk, assignors.)

McCabe, Ira E., Chicago, Ill. Valve construction. 2,348,083; May 2.

McCoy, Admiral H. (See Redmond, R. D., and McCoy.)

McCullough, William E., Detroit, Mich. Heat exchange unit. 2,347,057; May 2.

McCurdy, Everett D. (See Davis, Walwin L., assignor.)

McGrew, Maud, Baltimore, Md. Artificial seam marker. 2,347,958; May 2.

McKee, Ralph W. (See Thayer, S. A., Binkley, McKee, MacCorquodale, and Doisy.)

McKinney, Elmer E., Reading, Pa. Safety saddle and scaffolding. 2,347,745; May 2.

McNabb, Louis A., Evanston, assignor to The Bell & Howell Company, Chicago, Ill. Strip feed sprocket. 2,347,786; May 2.

McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds. 2,347,704; May 2.

McNaughton, Hart H. (See Scott, A. A., Jr., and McNaughton.)

McWilliams, Lawrence L., Bartlesville, Okla, assignor to Phillips Petroleum Company. Measuring fluid flow. 2,347,746; May 2.

Mead, Richard R., Queens Village, N. Y., assignor to Mergenthaler Linotype Company. Slug trimming mechanism for typographical casting machines. 2,347,787; May 2.

Meeker, David A. (See Allen, K. C., and Meeker.)

Melaven, Ralph M., Highland, Ind., assignor to Standard Oil Company, Chicago, Ill. Suspended catalyst technique. 2,347,747; May 2.

Melling, Herman W., Jackson, Mich. Turf perforator. 2,347,748; May 2.

Mergenthaler Linotype Company. (See Mead, Richard R., assignor.)

Merle, Joseph M., Tarentum, Pa. Making metallic products of sheet-like form. 2,348,178; May 2.

Merolle, Augustus L., Brooklyn, N. Y. Threading closure caps. 2,348,085; May 2.

Merritt, George E. (See Briechle, A., Hurley, and Merritt.)

Michel, Philip C., Schenectady, N. Y., assignor to General Electric Company. Countercircuit. 2,348,016; May 2.

Midland Steel Products Company, The. (See Kricker, George E., assignor.)

Midland Steel Products Company, The. (See Smith, William E., assignor.)

Miller, Charles J., Jr. (See Smith, W. A., and Miller.)

Miller, Elmer L., assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Screw type trailer landing gear. 2,347,921; May 2.

Miller Engineering Corporation. (See Miller, Raymond J., assignor.)

Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Control for combustion apparatus. 2,348,143; May 2.

Miller, Otto N., El Segundo, assignor to Standard Oil Company of California, San Francisco, Calif. Reaction of hydrocarbons. 2,348,017; May 2.

Miller, Raymond J., assignor by direct and mesne assignments, to Miller Engineering Corporation, Detroit, Mich. Making patterns. 2,348,086; May 2.

Miller, Robert S., assignor to Pacific Chain and Manufacturing Company, Portland, Oreg. Welding apparatus. 2,348,087; May 2.

Miner, W. H., Inc. (See Dath, George E., assignor.)

Minnesota Mining & Manufacturing Company. (See Carlton, R. P., and Oakes, assignors.)

Minnesota Mining & Manufacturing Company. (See Hatch, L. A., and Buzzell, assignors.)

Moeller, Axel, Racine, Wis. Bottle stopper. 2,347,835; May 2.

Monroe Camera Corporation. (See Monroe, Spencer F., assignor.)

Monroe, Spencer F., assignor to Monroe Camera Corporation, Chicago, Ill. Photographic apparatus. 2,347,749; May 2.

Moore, Charles H., West Chester, assignor to Lenape Hydraulic Pressing & Forging Co., Lenape, Pa. Method and apparatus for the production of cylindrical metal articles. 2,348,179; May 2.

Moore, Francis J., Minneapolis, Minn. Roof flashing and jacket. 2,347,836; May 2.

Moore, Virgil B., and S. P. Tsoneff, Los Angeles, Calif., assignors to American Marine Engineering Corporation. Water spider. 2,347,959; May 2.

Moore, Willis F., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Size gauge. 2,348,018; May 2.

Moroney, Laurence F., Moonee Ponds, near Melbourne, Victoria, Australia. Mounting and regulating mechanism of sliding window. 2,347,750; May 2.

Morrison, Jess S., Southgate, assignor to L. M. Harvey, La Canada, Calif. Servomotor. 2,347,837; May 2.

Mosler, Edwin H., New York, and H. H. Lynn, Wyoming, N. Y., assignors to The Mosler Safe Company, Hamilton, Ohio. Insulated record container. 2,347,705; May 2.

Mosler Safe Company, The. (See Mosler, E. H., and Lynn, assignors.)

Moss, Cresap M., Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill. Copper-zinc-manganese alloy. 2,347,706; May 2.

Motor Wheel Corporation. (See Miller, John W., assignor.)

Moxley, Harry E., assignor, by mesne assignments, to Hollywood Sales Corporation, Los Angeles, Calif. Device for dispensing molded compositions. 2,347,960; May 2.

Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Accounting machine and the like. 2,348,169; May 2.

Myers, F. E., & Bro. Company, The. (See Spreng, Warren M., assignor.)

Myers, Joseph W., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Electrical cooking apparatus. 2,347,707; May 2.

Naftali, Henry and V., Bronx, assignors, by mesne assignments, to Dimple Tie Corporation, New York, N. Y. Necktie. 2,347,708; May 2.

Naftali, Valentine. (See Naftali, Henry and V.)

Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,347,788; May 2.

Nashua Gummed and Coated Paper Company. (See Hoitt, Robert W., assignor.)

National Automotive Fibres, Inc. (See Bolen, E. P., and Lind, assignors.)

National Automotive Fibres, Inc. (See Faris, H. P., and White, assignors.)

National Fitch Corporation. (See Norbom, Ragnar A., assignor.)

National Marking Machine Company, The. (See Sell, Francis M., assignor.)

National Oil Products Company. (See Robinson, E. A., and Porter, assignors.)

National Vulcanized Fibre Company. (See Gibson, D. L., and Shoemaker, assignors.)

Nelson, Lee, Texas City, Tex. Hoisting tong. 2,347,922; May 2.

New Products Corporation. (See Banker, Oscar H., assignor.)

Nichols, Charles, Brooklyn, N. Y. Ski pole. 2,347,789; May 2.

Nichols, Harry J., and H. L. Tholstrup, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Detachable relay. 2,348,088; May 2.

Nickirk, Percy B., assignor to John Fowler & Co. (Leeds) Limited, Leeds 10, England. Face milling cutter. 2,348,089; May 2.

Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)

Nold, Eberhard. (See Ulrich, H., Ploetz, and Nold.)

Norbom, Ragnar A., New York, N. Y., assignor to National Fitch Corporation. Container transfer equipment for vehicles. 2,348,019; May 2.

Norquist, Victor C. (See Larkin, W. B., and Norquist.)

Norris, Rollin H., Schenectady, N. Y., assignor to General Electric Company. Heat exchanger. 2,348,020; May 2.

Norris, William A., Alhambra, Calif. Air impeller. 2,347,838; May 2.

Norris, William A., Alhambra, Calif. Impeller. 2,347,839; May 2.

Nygaard, Edwin M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Condensation of nitro compounds with polysulphides and product thereof. 2,347,840; May 2.

Oakes, Byron J. (See Carlton, R. P., and Oakes.)

Oakley, John. (See Plumadore, H. W., Collins, and Oakley.)

Ohio Brass Company, The. (See Knight, Arthur J., assignor.)

Ohio Brass Company, The. (See Smith, W. A., and Miller, assignors.)

O'Kelly, Arlie A., Woodbury, N. J., and D. P. J. Goldsmith, Cambridge, Mass., assignors to Socony-Vacuum Oil Company, Incorporated. New York, N. Y. Alkylation process. 2,347,790; May 2.

Oliver, Robert M., Reno, Nev., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hydraulic decelerometer. 2,347,962; May 2.

Olsen, Anders C., Forest Hills, N. Y. Securing lath to studding or the like. 2,347,961; May 2.

O'Neill, Peter J., assignor of one-half to J. W. Eley, Pensacola, Fla. Cleaning and scraping implement. 2,347,963; May 2.

Onions, John H. (See Thornhill, Peter W., assignor.)

Onsrud Machine Works, Inc. (See Onsrud, Rudolph F., assignor.)

Onsrud, Rudolph F., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Turret head router. 2,347,791; May 2.

Ople, John, Chicago, Ill. Device for packaging hams or the like. 2,348,144; May 2.

Oppel, John A., Upper Darby Township, Delaware County, Pa., assignor to General Electric Company. Electric switch. 2,348,021; May 2.

Oswald, Frank G., assignor to Hercules Powder Company, Wilmington, Del. Varnish composition. 2,347,923; May 2.

Otis Elevator Company. (See Lewis, Jacob D., assignor.)

Otto, Carl, Manhasset, N. Y., assignor to Fuel Refining Corporation, Dover, Del. Coke oven charging lorry. 2,347,964; May 2.

Otto, Eugene J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Constant tension drive. 2,348,090; May 2.

Ottoson, Oscar, New York, N. Y. Holder for double-edged razor blades. 2,347,924; May 2.

Outlaw, George S., Vienna, Va. Ax holder. 2,348,091; May 2.

Owens, Charles J., Dundalk, Baltimore, Md. Dual control. 2,348,022; May 2.

Owens-Corning Fiberglas Corporation. (See Slayter, Games, assignor.)

Owens, Noel, Chanute, Kans., assignor to Film-O-Seal Company. Air seal composition for pneumatic tires. 2,347,925; May 2.

Pacific Chain and Manufacturing Company. (See Miller, Robert S., assignor.)

Pacific Flush Tank Company. (See Beddoes, Hubert, assignor.)

Packer, Eben R., New Rochelle, N. Y., assignor to The Rails Company, New Haven, Conn. Actuating means for lubricating devices. 2,348,023; May 2.

Paley, Lewis A., Bloomingdale, assignor to United States Gypsum Company, Chicago, Ill. Building structure. 2,348,180; May 2.

Palmer-Bee Company. (See Da Costa, James S., assignor.)

Paradise, Louis A., and J. V. Irwin, Moline, and F. R. Martin, East Moline, assignors to Deere & Company, Moline, Ill. Pickup mechanism. 2,347,926; May 2.

Parker, James F., Guantanamo Bay, Cuba. Seaplane. 2,347,841; May 2.

Parke, Torsten H., assignor to American Steel Foundries, Chicago, Ill. Brake beam. 2,348,092; May 2.

Parrish, Alan J., Paris, Ill. Earth boring apparatus. 2,348,024; May 2.

Pasman, Abram N., Milford, Conn. Waste outlet fitting. 2,348,093; May 2.

Paterson, William, and O. C. Kerrison, London, England. Filter. 2,347,927; May 2.

Patton Button Company of Tennessee, The. (See Scott, A. A., Jr., and McNaughton, assignors.)

Pearson, Chester C. (See Eyler, L. J., and Pearson.)

Peets, Wilbur J., Elizabeth, and J. Roll, Union, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Clutch and brake mechanism. 2,348,025; May 2.

Penney, Gaylord W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical dust precipitator. 2,347,709; May 2.

Penning, Frans M. (See Posthumus, K., Penning, Dorgelo, and Verburg.)

Pennsylvania Railroad Company, The. (See Hoke, H. A., and Barley, assignors.)

Perkins, Arthur R., Oneonta, N. Y. Forming steel power transfer housings. 2,348,145; May 2.

Perkins Machine and Gear Company. (See Pinmadore, H. W., Collins, and Oakley.)

Peters, Leo., Chicago, Ill. Packaging and mixing plastics. 2,347,640; May 2.

Peters, Tom J., Chicago, Ill. Doorsill for electric furnaces. 2,347,792; May 2.

Petersen, Thorkild, Elgin, Ill., assignor to Pure Milk Cheese Co. Cheese press. 2,347,793; May 2.

Peterson, Harold A., Scotia, N. Y., assignor to General Electric Company. Electric power transmission system. 2,348,026; May 2.

Petro-Chem Process Company Incorporated. (See Throckmorton, John W., assignor.)

Petroleum Conversion Corporation. (See Sheppard, Bruce, assignor.)

Phillas, Efstratios H., New York, N. Y. Motorless boat propeller. 2,348,027; May 2.

Phillips Petroleum Company. (See Auld, D. W., and Weber, assignors.)

Phillips Petroleum Company. (See Benz, Lewis W., assignor.)

Phillips Petroleum Company. (See Crites, Wilbur J., assignor.)

Phillips Petroleum Company. (See Frey, Frederick E., assignor.)

Phillips Petroleum Company. (See Heath, Willis A., assignor.)

Phillips Petroleum Company. See McWilliams, Lawrence M., assignor.)

Phillips Petroleum Company. (See Piety, Raymond G., assignor.)

Phillips Petroleum Company. (See Reeves, W. B., and Utsinger.)

Phillips Petroleum Company. (See Wherry, Thomas C., assignor.)

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well surveying device. 2,347,794; May 2.

Ploetz, Ernest. (See Ulrich, H., Ploetz, and Nold.)

Plumadore, Henry W., Springfield, T. Collins, Jr., Westfield, and J. Oakley, Springfield, assignors to Perkins Machine and Gear Company, West Springfield, Mass. Work holding device. 2,347,710; May 2.

Pneumatic Scale Corporation, Limited. (See Joplin, William A., assignor.)

Pneumatic Scale Corporation, Limited. (See Weeden, Walter H., assignor.)

Podolsky, Leon, Pittsfield, assignor to Sprague Products Company, North Adams, Mass. Carbon-composition resistor. 2,347,795; May 2.

Podolsky, Leon, Pittsfield, assignor to Sprague Products Company, North Adams, Mass. Electrical resistor. 2,347,796; May 2.

Porter, Ralph E. (See Robinson, E. A., and Porter.)

Posthmus, Klaas, F. M. Penning, E. G. Dorgelo, and C. Verburg, Eindhoven, Netherlands; vested in the Alien Property Custodian. Electron discharge device. 2,347,797; May 2.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Telegraph signal translating system. 2,348,146; May 2.

Praeger, Frank H., Merion, assignor to Alcorn Combustion Company, Philadelphia, Pa. Petroleum heater. 2,348,181; May 2.

Price, Harold L. (See Runcie, Walter O., assignor.)

Pringle, Malcolm, Litchfield, Ill. Brake beam strut and braking assembly. 2,348,147; May 2.

Proctor & Schwartz, Inc. (See Myers, Joseph W., assignor.)

Proctor, Stuart R. (See Frazer-Nash, A. G., and Proctor.)

Progressive Welder Company. (See Leathers, Chester F., assignor.)

Pure Milk Cheese Co. (See Petersen, Thorkild, assignor.)

Pure Oil Company, The. (See Backhoff, W. J., and Williams, assignors.)

Pure Oil Company, The. (See Whittier, W. A., and Stucker, assignors.)

Radio Corporation of America. (See Dimmick, Glenn L., assignor.)

Radio Corporation of America. (See Iams, Harley A., assignor.)

Radio Corporation of America. (See Rajchman, Jan A., assignor.)

Radio Corporation of America. (See Ramberg, Edward G., assignor.)

Radio Corporation of America. (See Snyder, Richard L., Jr., assignor.)

Rails Company, The. (See Packer, Eben E., assignor.)

Rajchman, Jan A., Philadelphia, Pa., assignor to Radio Corporation of America. Focusing electron microscopes. 2,348,031; May 2.

Ramberg, Edward G., Feasterville, Pa., assignor to Radio Corporation of America. Electron microscopy. 2,347,965; May 2.

Ramsey, Allan, Evanston, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse construction. 2,347,641; May 2.

Rankin, Alexander M., Welling, assignor to Broad & Company Limited, Paddington, London, England. Ventilator. 2,348,148; May 2.

Ransome Machinery Company. (See Faber, John P., assignor.)

Rasch, Albert, Portland, Oreg. Saucer. 2,348,028; May 2.

Rayfield, Charles L., assignor, by mesne assignments, to C. L. Rayfield Company, Chicago, Ill. Oil burner and system. 2,347,842; May 2.

Rayfield, Charles L., assignor to C. L. Rayfield Company, Chicago, Ill. Oil burner and system. 2,347,843; May 2.

Rayfield, C. L., Company. (See Rayfield, Charles L., assignor.)

Raytheon Manufacturing Company. (See Spencer, Percy L., assignor.)

Redmond, Sidney D., and A. H. McCoy, Jackson, Miss. Torpedo arrester or insulator. 2,348,094; May 2.

Redmond, William D., Scarsdale, N. Y. Stretcher frame for curtains and the like. 2,347,711; May 2.

Reeves, William B., and E. L. Utsinger, Phillips, Tex., assignors to Phillips Petroleum Company. Pumping system. 2,347,751; May 2.

Rehling, Victor G., assignor to The Dayton Rubber Mfg. Company, Dayton, Ohio. Belt. 2,347,798; May 2.

Reinhardt, Albrecht E., Milton, M. G. J. Boissevain, Arlington, A. H. Shapiro, Cambridge, and C. A. Cady, Boston, Mass., assignors, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Formula compounding apparatus. 2,348,149; May 2.

Reinhardt, George D., San Antonio, Tex. Refrigerating cabinet. 2,347,642; May 2.

Richter, Elvin O., assignor to Lockheed Aircraft Corporation, Burbank, Calif. Extendable wing flap. 2,348,150; May 2.

Robinson, Edwin A., Chatham, and R. E. Porter, East Orange, assignors to National Oil Products Company, Harrison, N. J. Treating of leather. 2,347,712; May 2.

Roblin, Richard O., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Softening rubber. 2,347,966; May 2.

Roby, Horace H., assignor to Roby, Inc., Wichita, Kans. Gauge for setting the pitch of propeller blades. 2,348,095; May 2.

Roby, Inc. (See Roby, Horace H., assignor.)

Rock-Ola Manufacturing Company. (See Dettle, Lawrence E., assignor.)

Rogoff, Julian, New York, N. Y., assignor to Burndy Engineering Company, Inc. Tool installed connector and its installation. 2,347,713; May 2.

Roll, John. (See Peets, W. J., and Roll.)

Rooney, Thomas P., Fall River, Mass. Textile drafting device. 2,347,967; May 2.

Roper, John M. (See Dircksen, A. D., and Roper.)

Ross, Donald W., Hyattsville, Md. Making magnesian refractories. 2,347,968; May 2.

Rotter, Lutwin C., Maplewood, and V. G. Klein, assignors to Lincoln Engineering Company, St. Louis, Mo. Pump. 2,348,151; May 2.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fusible link construction for sprinkler heads. 2,348,152; May 2.

Rubly, Harry C., Millburn, and C. H. Young, Lincoln Park, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cushion mounting. 2,347,969; May 2.

Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Polycarboxylic acids and anhydrides derived from polymers of acyclic terpenes and their production. 2,347,970; May 2.

Runcie, Walter O., Lima, Peru, assignor of twenty-five per cent to H. L. Price, Alexandria, Va. Film magazine. 2,348,153; May 2.

Rustless Iron and Steel Corporation. (See Keene, Walter L., assignor.)

St. Louis University, President & Board of Trustees of. (See Thayer, S. A., Binkley, McKee, MacCorquodale, and Doisy, assignors.)

St. Pierre, Eugene. (See Green, I. H. C., and St. Pierre.)

Salvatierra, Francisco. (See Galipó, R. A., and Salvatierra.)

Sandberg, William A., Los Angeles, Calif. Manhole structure. 2,347,844; May 2.

Sargent & Company. (See Voight, Henry G., assignor.)

Sawyer Electrical Mfg. Company. (See Crippe, Ray H., assignor.)

Sayre, Gordon B., assignor to Boonton Molding Company, Boonton, N. J. Apparatus for measuring, preforming, and molding plastics. 2,347,971; May 2.

Schaaf, Alexander, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Loud-speaker. 2,347,799; May 2.

Schack, William, Los Angeles, Calif. Clamping runs of cables and the like. 2,348,096; May 2.

Schane, Edward H., Lakewood, assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Electrically operated awning. 2,347,845; May 2.

Scheerer, Walter, and K. Locklair, Berlin-Lichterfelde-Ost, Germany, assignors to International Business Machines Corp., New York, N. Y. Accounting machine. 2,348,171; May 2.

Scherr, Otto, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Anthraquinones containing trifluoro methyl groups and preparing them. 2,347,846; May 2.

Schieman, Gustave, Bronx, N. Y., assignor to International Plastic Corporation, Morristown, N. J. Continuous method for producing adhesive tape. 2,347,643; May 2.

Schmelz, John J., Contra Costa County, Calif. Bridle. 2,347,752; May 2.

Schoenfeld, David M., assignor to Combustion Engineering Company, Inc., New York, N. Y. Separately fired superheater. 2,347,848; May 2.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Fluid pressure control system. 2,347,847; May 2.

Schultz, William O. (See Steinmayer, A. G., and Schultz.)

Schweitzer & Conrad, Inc. (See Ramsey, Allan, assignor.)

Scott, Alexander A., Jr., and H. H. McNaughton, assignors to The Patent Button Company of Tennessee, Knoxville, Tenn. Button molding apparatus. 2,347,972; May 2.

Scott, Winfield, and R. B. Seymour, Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del. Vinyl chloride copolymers. 2,348,154; May 2.

Seiberlich, Joseph K. H., Medfield, Mass. Starch modification. 2,347,849; May 2.

Selection Engineering Co. Limited. (See Brunton, B., and Booth, assignors.)

Sell, Francis M., assignor to The National Marking Machine Company, Cincinnati, Ohio. Pencil for laundry marking. 2,347,644; May 2.

Sengpiel, William J., assignor to The Sikes Company, Buffalo, N. Y. Chair. 2,347,753; May 2.

Servel, Inc. (See Thomas, Albert R., assignor.)

Severance, Glen R. (See Sherrer, J. M., Severance, and Huntington.)

Seydel-Woolley & Company. (See Woolley, Vasser, assignor.)

Seymour, Raymond B. (See Scott, W., and Seymour.)

Shanley, Connor B., Kirkwood, Mo. Mold-facing sands 2,348,155; May 2.

Shapiro, Asher H. (See Reinhardt, A. E., Boissevain Shapiro, and Cady.)

Shay, Cora E., Los Angeles, Calif. Child's chair. 2,347,754; May 2.

Sheehan, Edmund J. (See Francek, Joseph R., assignor.)

Shell Development Company. (See Van Duzee, Everett N., assignor.)

Sheppard, Allan G., assignor to American-La France-Foamite Corporation, Elmira, N. Y. Pump priming system. 2,347,973; May 2.

Sheppard, Bruce, Bridgewater Township, Somerset County, assignor to Petroleum Conversion Corporation, Elizabeth, N. J. Conversion of hydrocarbon oils. 2,348,156; May 2.

Sherrer, John M., G. R. Severance, and E. S. Huntington, assignor to Eureka Vacuum Cleaner Company Detroit, Mich. Flare pistol. 2,347,645; May 2.

Sherrill, Sloan S. (See Johnston, F. D., and Sherrill.)

Shoemaker, William M. (See Gibson, D. L., and Shoemaker.)

Sikes Company, The. (See Sengpiel, William J., assignor.)

Simplex Wrapping Machine Co. (See Gaubert, Rene J. assignor.)

Singer Manufacturing Company, The. (See Peets, W. J., and Roll, assignors.)

Singer Manufacturing Company, The. (See Webb, I. F., and Ackerman, assignors.)

Sjöstrand, Hjalmar E., Stockholm, Sweden. Device for grinding straight edges on planer cutter blades. 2,347,800; May 2.

Slayter, Games, Newark, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Apparatus for producing fibrous glass. 2,348,182; May 2.

Smart, William A. (See Bennion, L. H., and Smart.)

Smith, William A., and C. J. Miller, Jr., Barberton, assignors to The Ohio Brass Company, Mansfield, Ohio. Radio interference testing machine. 2,348,157; May 2.

Smith, A. O., Corporation. (See Gruetjen, Frederick A., assignor.)

Smith, A. O., Corporation. (See Koppel, Ernst R., assignor.)

Smith, A. O., Corporation. (See Yost, Lloyd, assignor.)

Smith, Algy J., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for introducing fluids into containers. 2,347,974; May 2.

Smith, Sidney R., Jr., Pittsfield, Mass., assignor to General Electric Company. Reclosing circuit-interrupting device. 2,348,029; May 2.

Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Metallic arc welding nozzle. 2,347,646; May 2.

Smith, Zachary H., Mishawaka, Ind. Valved floor drain. 2,348,097; May 2.

Snyder, Daniel J. (See Gluck, H., and Snyder.)

Snyder, Richard L., Jr., Glassboro, N. J., assignor to Radio Corporation of America. Scanning type of electron microscope. 2,348,030; May 2.

Society of Chemical Industry in Basle. (See Bonhôte, G., and Henzi, assignors.)

Socony-Vacuum Oil Company. (See Nygaard, Edwin M., assignor.)

Socony-Vacuum Oil Company. (See O'Kelly, A. A., and Goldsmith, assignors.)

Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Power mechanism for induction heating apparatus. 2,348,032; May 2.

Sorensen, Edward M., Cos Cob, Conn. Proportionalizing control. 2,347,714; May 2.

Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Arc starting device. 2,347,715; May 2.

Sprague Products Company. (See Podolsky, Leon, assignor.)

Sprecker, Alfred L., Freeport, assignor to International Business Machines Corporation, New York, N. Y. Communications device. 2,348,158; May 2.

Spreng, Warren M., assignor to The F. E. Myers & Bro. Company, Ashland, Ohio. Spray gun valve. 2,347,755; May 2.

Staege, Stephen A., assignor to The Black-Clawson Company, Hamilton, Ohio. Apparatus for screening paper stock. 2,347,716; May 2.

Staege, Stephen A., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machine stock inlet. 2,347,717; May 2.

Staege, Stephen A., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,347,850; May 2.

Standard Oil Company. (See Gunness, Robert C., assignor.)

Standard Oil Company. (See Johnson, E. A., and Voorhees, assignors.)

Standard Oil Company. (See Melaven, Ralph M., assignor.)

Standard Oil Company of California. (See Elliott, L. P., and Brooke, assignors.)

Standard Oil Company of California. (See Miller, Otto N., assignor.)

Stanhay Limited. (See Goldup, Cecil E., assignor.)

Stanton, Warren F., Pawtucket, R. I., assignor, by mesne assignments, to American Car and Foundry Investment Corporation, New York, N. Y. Fuel mixture control. 2,348,033; May 2.

Staudinger, Hanns P., Ewell, and K. H. W. Tuerck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Production of acyclic condensation products of acetylene. 2,348,159; May 2.

Staunton, LeRoy W. (See Yates, W. H., and Staunton.)

Steel Products Engineering Company, The. (See Brehm, Charles M., assignor.)

Steiner, Waldo L. (See Lincoln, B. H., Byrkit, and Steiner.)

Steinmayer, Alwin G., Milwaukee, and W. O. Schultz, South Milwaukee, assignors to Line Material Company, Milwaukee, Wis. Fuse device. 2,347,851; May 2.

Stephens, Allen C., Washington, D. C., assignor to Utilities Service Company, Inc., Allentown, Pa. Insulator. 2,347,975; May 2.

Stone, J., & Company Limited. (See Hatcher, Ernest C., assignor.)

Storrie, William, Rumford, R. I., assignor to Apco Mossberg Company. Torque measuring tool. 2,348,098; May 2.

Stotenbur, Ralph H., Pittsfield, Mass., assignor to General Electric Company. Reclosing circuit-interrupting device. 2,348,034; May 2.

Stucker, Joseph B. (See Whittier, W. A., and Stucker.)

Sturtevant, B. F., Company. (See Blanchard, C. E., and Ferre, assignors.)

Subin, Benjamin, Abington Township, Montgomery County, assignor to Hosiery Patents Inc., Lansdale, Pa. Yarn guide device. 2,347,801; May 2.

Suhr, Henry B. (See Black, L. G., Fitch, and Suhr.)

Swenson, George E., Hastings-upon-Hudson, N. Y., assignor to The Celotex Corporation, Chicago, Ill. Wall construction. 2,347,756; May 2.

Synek, Peter, Jackson Heights, N. Y. Apparatus for making beads. 2,348,035; May 2.

Synek, Peter, Jackson Heights, N. Y. Making beads of glass or similar material. 2,348,036; May 2.

Tarter, Louis B., and W., New York, N. Y., assignors by mesne assignments, to M. Goldman, Aldenville, Pa. Double vertical interlock bottle crate. 2,347,647; May 2.

Tarter, William. (See Tarter, Louis B. and W.)

Tavennes Machines Co. S. A. (See Boillat, Philippe, assignor.)

Taylor, George F., assignor to Carboloy Company, Inc., Detroit, Mich. Apparatus for extruding metal. 2,348,172; May 2.

Teletype Corporation. (See Potts, Louis M., assignor.)

Terry, Matson C., Toledo, Ohio. Mooring device. 2,347,718; May 2.
Thayer, Sidney A., S. B. Binkley, and R. W. McKee, St. Louis, D. W. MacCorquodale, and E. A. Doisy, Webster Groves, assignors to President and Board of Trustees of St. Louis University, St. Louis, Mo. Vitamin and obtaining same. 2,348,037; May 2.
Then, Edward O., Newark, N. J., assignor to American Can Company, New York, N. Y. Container. 2,347,719; May 2.
Tholstrup, Henry L. (See Nichols, H. J., and Tholstrup.)
Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,347,757; May 2.
Thompson, Arthur H., assignor to Thompson-Bremer & Co., Chicago, Ill. Self-locking nut. 2,347,852; May 2.
Thompson, Arthur H., assignor to Thompson-Bremer & Co., Chicago, Ill. Manufacture of self-locking nuts. 2,347,853; May 2.
Thompson-Bremer & Co. (See Thompson, Arthur H., assignor.)
Thomas, Charles L., and E. C. Lee, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oil. 2,347,648; May 2.
Thomas, Frank E., Chicago, Ill. Exhibiting top. 2,347,649; May 2.
Thompson-Bremer & Co. (See Thompson, Arthur H., assignor.)
Thornhill, Peter W., Leamington Spa, assignor to J. H. Onions, Coventry, England. Liquid damped telescopic shock absorber. 2,348,160; May 2.
Throckmorton, John W., Wilton, Conn., assignor to Petro-Chem Process Company Incorporated. Furnace construction. 2,348,099; May 2.
Tillman, Ferdinand J., St. Louis, Mo. Calculating machine. 2,347,720; May 2.
Tjaarda, John, Grosse Pointe, and G. E. Ehrling, assignors to Briggs Manufacturing Company, Detroit, Mich. Engine. 2,347,721; May 2.
Touton, Rush D., Cynwyd, assignor to Wurton Machine Company, Philadelphia, Pa. Treating tobacco. 2,348,038; May 2.
Trapp, Carl Åke, and B. Hansson, Stockholm, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Expansible tank for electrical condensers. 2,347,976; May 2.
Trimz Company Inc. (See Yates, W. H., and Staunton, assignors.)
Tsoneff, Stephen P. (See Moore, V. B., and Tsoneff, assignors.)
Tuerck, Karl H. W. (See Staudinger, H. P., and Tuerck.)
Tyson, Leonard, Manitowoc, Wis. Universally adjustable clamping machine. 2,347,854; May 2.
Ulrich, Heinrich, E. Ploetz, and E. Nold, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Composition and process for treating fibrous materials. 2,348,039; May 2.
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Underwood, James W. (See D'Alelio, G. F., and Underwood.)
Union City Body Company. (See Bromagem, Irl R., assignor.)
Union Oil Company of California. (See Korpi, Karl, assignor.)
Union Switch and Signal Company, The. (See Laurenson, Robert M., assignor.)
United-Carr Fastener Corporation. (See Woodward, Clement A., assignor.)
United Shoe Machinery Corporation. (See Bell, Charles C., assignor.)
United Shoe Machinery Corporation. (See Bennion, L. H., and Smart, assignors.)
United Shoe Machinery Corporation. (See Clark, Alfred S., assignor.)
United Shoe Machinery Corporation. (See Dow, H. E., and Andrews, assignors.)
United Shoe Machinery Corporation. (See Knott, Clyde L., assignor.)
United States Gypsum Company. (See Linzell, Harry K., assignor.)
United States Gypsum Company. (See Paley, Lewis A., assignor.)
U. S. Industrial Chemicals, Inc. (See Dennis, Wolcott, assignor.)
Union Switch and Signal Company, The. (See Livingston, John W., assignor.)
Universal Oil Products Company. (See Kanhofer, Elmer R., assignor.)
Universal Oil Products Company. (See Thomas, C. L., and Lee, assignors.)
Utilities Service Company. (See Stephens, Allen C., assignor.)
Utsinger, Edward L. (See Reeves, W. B., and Utsinger.)
Van Duzee, Everett N., Lake Charles, La., assignor to Shell Development Company, San Francisco, Calif. Salt water disposal system. 2,348,161; May 2.
Van Lieshout, Loisius J. A., Larchmont, N. Y., assignor to Hartford National Bank and Trust Company, Hartford, Conn. Radio receiver. 2,347,977; May 2.
Varga, Stephen, East Palo Alto, Calif., assignor, by mesne assignments, to A. A. Durant, Honolulu, Hawaii. Protecting pipe. 2,347,855; May 2.
Verburg, Cornelis. (See Posthumus, K., Penning, Dorgelo, and Verburg.)
Victor Metal Products Corporation. (See Apfelbaum, Huna L., assignor.)
Viera, George E. (See Cavanaugh, W. T., and Viera.)
Vieths, Harvey M., Mesa, Idaho. Fish catching device. 2,348,040; May 2.
Voight, Henry G., Hamden, assignor to Sargent & Company, New Haven, Conn. Removable core lock. 2,347,802; May 2.
Voorhees, Vanderveer. (See Johnson, E. A., and Voorhees.)
Vuille, Bernard A. (See Coates, Henry, and Vuille.)
Wachter, Herbert E., assignor to K. E. Wachter, Kirkwood, Mass. Hone. 2,347,856; May 2.
Wachter, Katherine E. (See Wachter, Herbert E., assignor.)
Wadsworth, George B., Erlanger, Ky. Splicing device for electrical conductors. 2,348,100; May 2.
Wadzinski, Stanley F., Gary, Ind. Tong. 2,347,650; May 2.
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Waitkus, Joseph, Wellsville, assignor to The Air Preheater Corporation, New York, N. Y. Temperature zoned air preheater. 2,347,857; May 2.
Waldron, John, Corporation. (See Dickhaut, Charles A., assignor.)
Walker, Wesley S., Larchmont, N. Y., and W. J. Jacobson, Plainfield, N. J., assignors to The Linde Air Products Company. Removing metal from metal bodies. 2,347,758; May 2.
Warner, Daniel S., Buffalo, N. Y. Handkerchief packet. 2,348,041; May 2.
Warner, Edgar, Middletown, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Web spreader. 2,348,162; May 2.
Warren, Glenn B., Niskayuna, N. Y., assignor to General Electric Company. Elastic fluid turbine arrangement. 2,348,042; May 2.
Washam, Patrick H., Jr., Pittsburgh, Pa. Cooling rolling mill rolls and the like. 2,347,651; May 2.
Watford Electric & Manufacturing Company Limited. (See Coates, Henry, and Vuille, assignors.)
Webb, Irving F., Elizabeth, and A. A. Ackerman, Westfield, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Stand for sewing machines. 2,348,043; May 2.
Weber, Louis J. (See Auld, D. W., and Weber.)
Weeden, Walter H., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Receptacle filling machine. 2,347,858; May 2.
Welk, Nelson S. (See Connor, R., and Welk.)
Wenner, Wilhelm, Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Derivative of tropic acid amide. 2,347,722; May 2.
Wenner, Wilhelm, Montclair, assignor to Hoffmann-La Roche, Inc., Nutley, N. J. Tropic acid amide and manufacture thereof. 2,347,723; May 2.
Western Cartridge Company. (See Burtle, Jerome G., assignor.)
Western Electric Company. (See Franz, Erwin E., assignor.)
Western Electric Company. (See Johnston, F. D., and Sherrill, assignors.)
Westinghouse Air Brake Company, The. (See Bush, Rankin J., assignor.)
Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)
Westinghouse Air Brake Company, The. (See Oliver, Robert M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Penney, Gaylord W., assignor.)
Wherry, Thomas C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Fishing tool. 2,347,759; May 2.
White Cap Company. (See Davies, Lynn E., assignor.)
White, John E. (See Faris, H. P., and White.)
White, John H. (See Finch, O. J., and White.)
White, Richard J., assignor to American Can Company, New York, N. Y. Container. 2,347,724; May 2.
Whittier, William A., Kenilworth, and J. B. Stucker, assignors to The Pure Oil Company, Chicago, Ill. Composition useful as additive to mineral oil lubricants and preparing and using the same. 2,348,044; May 2.
Williams, Louise N., Raleigh, N. C. Adjustable head rest. 2,347,859; May 2.
Williams, Norman D. (See Backoff, W. J., and Williams.)
Wilson, Allen B. (See MacChesney, C. M., and Wilson.)
Wingfoot Corporation. (See Scott, W., and Seymour, assignors.)
Winton, Lewis B., Greenwich, Conn., assignor to P. A. Jerguson, Medford, Mass. Liquid level indicating system. 2,347,860; May 2.
Winton, Lewis B., Greenwich, Conn., assignor to P. A. Jerguson, Medford, Mass. Measuring system including a hydrostatic manometer and an indication translating mechanism. 2,347,861; May 2.

Wisansky, Walter A., Forest Hills, N. Y., assignor, by mesne assignments, to American Home Products Corporation, Jersey City, N. J. Making 3,4-dimethylaniline. 2,347,652; May 2.
Wishart, William W., Chicago, Ill. Compressor. 2,347,862; May 2.
Woodward, Clement A., Dedham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener and fastener assembly. 2,347,863; May 2.
Woolley, Vasser, assignor to Seydel-Woolley & Company, Atlanta, Ga. Conditioning yarn on bobbins etc. 2,347,978; May 2.
Wooten, Leland A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device and manufacture. 2,348,045; May 2.
Wulff, Frank D., Chicago, Ill. Lawn mower blade sharpener. 2,347,864; May 2.
Wulstein, Charles, New York, N. Y. Attachment for work benches. 2,347,760; May 2.
Wurton Machine Company. (See Touton, Rush D., assignor.)
Yates, William H., Chicago, and L. W. Staunton, Evanston, assignors to Trimz Company Inc., Chicago, Ill. Hanging pre-pasted wallpaper. 2,347,865; May 2.
Yerrick, William D. (See Karlsson, P. H., and Yerrick.)
Yost, Lloyd, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis. Ball thrust bearing for well drilling units. 2,348,046; May 2.
Yost, Lloyd, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis. Mud turbine and assembling the same. 2,348,047; May 2.
Young, Clarence H. (See Rubly, H. C., and Young.)
Young, Guy B., Latrobe, Pa., assignor to American Cyanamid & Chemical Corporation, New York, N. Y. Detonator combination. 2,347,866; May 2.
Young, Stephan A., assignor to Globe Valve Corporation, Delphi, Ind. Producing faucet bodies or the like. 2,348,173; May 2.
Young, William R., Jr. (See Kinkead, F. S., Krecek, and Young.)
Zalkind, Philip, New York, N. Y. Wall and closure support. 2,347,725; May 2.
Zimmerman, Robert F., Cincinnati, Ohio. Air filter. 2,348,163; May 2.
Zuckermann, Isidore, New York, N. Y. Portable safety bombproof shelter. 2,347,653; May 2.

LIST OF PLANT INVENTIONS

Rose plant. E. E. Marsh. 626; May 2.

LIST OF DESIGN INVENTIONS

Automobile body. J. Robinson. 137,833; May 2.
Belt or similar article. M. McCoy. 137,837; May 2.
Box or similar article, Jewelry. R. M. Dugdale. 137,807; May 2.
Casserole or similar article. H. I. Kleinberg. 137,794; May 2.
Check, Valve. C. Pool. 137,797–801; May 2.
Compressor. H. F. Hadley. 137,829; May 2.
Dart. P. C. P. Booty. 137,804; May 2.
Dial or similar article, Instrument. D. E. Dailey. 137,836; May 2.
Discharge uptake for steam boilers. E. J. Mabrito. 137,830; May 2.
Dress. P. Adler. 137,847–53; May 2.
Dress. M. McCoy. 137,854–8; May 2.
Exerciser or similar article, Child's. I. R. Heinzel. 137,809; May 2.
Fabric or similar article, Articulated. R. Appel. 137,828; May 2.
Fabric or similar article, Textile. C. Rosenstein. 137,802; May 2.
Fabric or similar article, Textile. C. Rosenstein. 137,817–19; May 2.
Fabric, Textile. E. J. McLaughlin. 137,839; May 2.
Game board. W. P. McGrath. 137,838; May 2.
Golf club head. H. P. G. Newsome. 137,813–16; May 2.
Grater, shredder, and cutter, Combination. N. K. Morris. 137,796; May 2.
Guard, Lamp. N. R. Schwartz. 137,834; May 2.
Handbag. E. Cohan. 137,789; May 2.
Handle for an automobile spotlight. N. A. Tornblom. 137,823; May 2.
Holder for bottles. H. G. Jackson. 137,810; May 2.
Holder for machine tool cutters. H. C. Wilson. 137,803; May 2.
Jacket or similar article. L. Raphael. 137,832; May 2.
Lamp, Desk or table. F. W. Watkins. 137,824–27; May 2.
Latch and lock, Combination. B. R. Thiele. 137,835; May 2.
Lens. G. M. Cressaty. 137,805; May 2.
Lighter, Sunglass cigarette. L. H. Duescher. 137,806; May 2.
Mirror or similar article, Hand. L. L. Lesiak and J. H. Shows. 137,795; May 2.
Oven unit or similar article. H. C. Doner. 137,792; May 2.
Partition and refrigerator or similar article, Combined. H. C. Doner. 137,791; May 2.
Pedestal control valve unit. A. L. Macan. 137,831; May 2.
Pin or the like, Lapel. E. A. Sampson. 137,821; May 2.
Plate or similar article. A. Duhrssen. 137,793; May 2.
Rack for supporting hypodermic needles in card form. S. Galper. 137,808; May 2.
Seat, Child's swing. B. Miller. 137,811; May 2.
Shaving mug and brush holder, Combined. C. H. Churchill. 137,788; May 2.
Sheet of a decorative wall material or the like. W. Burton. 137,840–45; May 2.
Stay, Collar. B. B. Manaster. 137,846; May 2.
Tank or similar article, Amphibian. G. F. Myers. 137,812; May 2.
Tobacco blender and humidor, Combined. J. Russell, Sr. 137,820; May 2.
Toy bank. J. L. Darling. 137,790; May 2.
Vending machine cabinet. P. Schladermundt and C. L. Metzler. 137,822; May 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive wheel. J. C. Mays. 2,347,920; May 2.
Accounting machine. W. Scheerer and K. Locklair. 2,348,171; May 2.
Accounting machine and the like. A. J. Fettig. 2,348,168; May 2.
Accounting machine and the like. R. L. Muller. 2,348,169; May 2.
Accumulator. R. J. Bush. 2,347,932; May 2.
Accounting machines, Carriage return mechanism for. W. A. Anderson. 2,348,048; May 2.
Acetylation of cellulose. D. L. Gibson and W. M. Shoemaker. 2,348,001; May 2.
Adhesive tape, Continuous method for producing. G. Schieman. 2,347,643; May 2.
Aircraft tail wheel assembly. W. Appel. 2,348,101; May 2.
Air filter. R. F. Zimmerman. 2,348,163; May 2.
Air impeller. W. A. Norris. 2,347,838; May 2.
Airplane, Model. H. R. Johnson. 2,347,689; May 2.
Air preheater, Temperature zoned. J. Waitkus. 2,347,857; May 2.
Air seal composition for pneumatic tires. N. Owens. 2,347,925; May 2.
Air sterilizing apparatus. D. J. Kiely. 2,347,954; May 2.
Aliphatic dicarbylamines and producing them. H. Dreyfus. 2,347,772; May 2.
Alkylation process. A. A. O'Kelly and D. P. J. Goldsmith. 2,347,790; May 2.
Alloy: *See*—
Copper-zinc-manganese alloy.
Alumina, Producing. E. E. Fisher. 2,347,736; May 2.
Anthraquinones containing trifluoro methyl groups and preparing them. O. Scherer. 2,347,846; May 2.
Apparatus for applying filler to tape. W. T. Cavanaugh and G. E. Viera. 2,348,166; May 2.
Apparatus for assembling resilient joints. O. E. Hermanns. 2,347,780; May 2.
Apparatus for controlling the maximum demand of electric power-loads. H. Coates and B. A. Vuille. 2,348,058; May 2.
Apparatus for extruding metal. G. F. Taylor. 2,348,172; May 2.
Apparatus for forming tubular material. P. Gardner and R. Kagan. 2,347,901; May 2.
Apparatus for introducing fluids into containers. A. J. Smith. 2,347,974; May 2.
Apparatus for making beads. P. Synek. 2,348,035; May 2.
Apparatus for measuring, preforming, and molding plastics. G. B. Sayre. 2,347,971; May 2.
Apparatus for producing fibrous glass. G. Slayter. 2,348,182; May 2.
Apparatus for producing wells. W. J. Crites. 2,347,768; May 2.
Apparatus for screening paper stock. S. A. Staege. 2,347,716; May 2.
Apparatus for sealing cans and the like. L. E. Davies. 2,347,668; May 2.
Apparatus for web alignment. C. A. Dickhaut. 2,347,893; May 2.
Arc starting device. P. L. Spencer. 2,347,715; May 2.
Armor plating. C. J. Hardy. 2,348,130; May 2.
Arrester or insulator, Torpedo. S. D. Redmond and A. H. McCoy. 2,348,094; May 2.
Artificial weedless fishing lure. H. J. Koering. 2,347,743; May 2.
Automobile jack. D. Currie. 2,347,888; May 2.
Aviation mask, High altitude. A. H. Bulbulian. 2,348,108; May 2.
Awning, Electrically operated. E. H. Schane. 2,347,845; May 2.
Ax holder. G. S. Outlaw. 2,348,091; May 2.
Axle, Dual drive. A. K. Brumbaugh. 2,347,987; May 2.
Azo compounds. J. G. McNally and J. B. Dickey. 2,347,704; May 2.
Bag: *See*—
Valve bag.
Bag making machine and method. R. J. Gaubert. 2,347,902; May 2.
Ball, Bowling. H. S. Cahen. 2,347,881; May 2.
Band saw. W. B. and J. E. Boice. 2,347,764–5; May 2.
Bandage and making same. A. Fridolph. 2,348,119; May 2.
Bauxite process and product. J. A. Heany. 2,347,685; May 2.
Beads of glass or similar material, Making. P. Synek. 2,348,036; May 2.
Beam and column for use in buildings, Hollow. B. Brunton and R. G. Booth. 2,347,879; May 2.
Beam, Brake. T. H. Parke. 2,348,092; May 2.
Bearing for well drilling units, Ball thrust. L. Yost. 2,348,046; May 2.
Belt. V. G. Reiling. 2,347,798; May 2.
Blades, Gauge for setting the pitch of propeller. H. H. Roby. 2,348,095; May 2.
Boat. E. N. Klonaris. 2,348,010; May 2.
Boat hull construction and propulsion. W. S. Brian and F. J. Birk. 2,348,106; May 2.
Bombproof shelter, Portable safety. I. Zuckermann. 2,347,653; May 2.
Bomb rack. L. J. Eyler and C. C. Pearson. 2,347,896; May 2.
Book lettering table. L. T. Crismon. 2,347,886; May 2.
Boring apparatus, Earth. A. J. Parrish. 2,348,024; May 2.
Bottle carrier. E. C. Booth. 2,347,807; May 2.
Bottle closure and dispenser, Combined. L. L. Mallard. 2,348,014; May 2.
Bottle stopper. A. Moeller. 2,347,835; May 2.
Box: *See*—
Lunch box.
Bracket for barges and the like, Splashboard. K. F. Braun and G. T. Griffiths. 2,347,876; May 2.
Brake mechanism. J. Ledwinka. 2,348,077–8; May 2.
Breathing apparatus. C. J. Lambertsen. 2,348,074; May 2.
Bridle. J. J. Schmelz. 2,347,752; May 2.
Building structure. L. A. Paley. 2,348,180; May 2.
Burner: *See*—
Sheet metal gas burner.
Burner and system, Oil. C. L. Rayfield. 2,347,842–3; May 2.
Button molding apparatus. A. A. Scott, Jr., and H. H. McNaughton. 2,347,972; May 2.
Cabinet: *See*—
Refrigerating cabinet.
Cable sheath cutting and stripping tool. E. P. Lansing. 2,347,956; May 2.
Cables and the like, Clamping runs of. W. Schack. 2,348,096; May 2.
Calculating machine. F. J. Tillman. 2,347,720; May 2.
Camera. A. Briechle, R. T. Hurley, and G. E. Merritt. 2,347,732; May 2.
Camera shutter. S. Aronoff. 2,347,700; May 2.
Camera shutter. G. A. Magnus and S. Aronoff. 2,347,699; May 2.
Carburetor. S. F. Hunt. 2,348,008; May 2.
Carpet making apparatus. H. P. Faris and J. E. White. 2,347,816; May 2.
Carrier: *See*—
Bottle carrier.
Carton. W. H. Inman. 2,348,070; May 2.
Cartridge link manufacture. A. E. Borton. 2,347,930; May 2.
Catalyst and preparing the same. K. Korpi. 2,347,955; May 2.
Catalyst technique, Suspended. R. M. Mclaven. 2,347,747; May 2.
Catalysts, Manufacture of. E. R. Kanhofer. 2,348,072; May 2.
Catalytic conversion process. E. A. Johnson and V. Voorhees. 2,348,009; May 2.
Cellulosic product and making same, Compressed. H. K. Linzell. 2,348,081; May 2.
Cellulosic structures, Producing. N. L. Cox. 2,347,884; May 2.
Cellulosic structures, Production of. N. L. Cox. 2,347,883; May 2.
Chain: *See*—
Cutter chain.
Chair: *See*—
Child's chair.
Chair. W. J. Sengpiel. 2,347,753; May 2.
Chamber for closed crude oil emulsion treater tanks, Brine filter-skimmer. R. W. Erwin. 2,348,167; May 2.
Charging box for open hearth furnace charging operation. J. W. Forsythe. 2,347,899; May 2.
Charging lorry, Coke oven. C. Otto. 2,347,964; May 2.
Cheese press. T. Petersen. 2,347,793; May 2.
Child's chair. C. E. Shay. 2,347,754; May 2.
Circuit: *See*—
Signaling circuit.
Telegraph repeater hub circuit.
Circuit-interrupting device, Reclosing. S. R. Smith, Jr. 2,348,029; May 2.
Clamping machine, Universally adjustable. L. Tyson. 2,347,854; May 2.

Cleaner: *See*—
Vacuum cleaner.
Clock. I. A. Frostling and E. G. Karlsson. 2,348,120; May 2.
Closure caps, Threading. A. L. Merolle. 2,348,085; May 2.
Clutch: *See*—
Magnetic clutch.
Clutch and brake mechanism. W. J. Peets and J. Roll. 2,348,025; May 2.
Coagulant composition. G. T. Buchanan. 2,348,165; May 2.
Coffee, Roasting. W. R. Goldfine. 2,348,066; May 2.
Coincidental ignition and gear shift lock. E. N. Jacobi. 2,348,134; May 2.
Communication system. F. S. Kinkead, J. A. Krecek, and W. R. Young, Jr. 2,347,831; May 2.
Communications device. A. L. Sprecker. 2,348,158; May 2.
Communion set, Dual cross. D. Goudreau. 2,347,681; May 2.
Composition useful as additive to mineral oil lubricants and preparing and using the same. W. A. Whittier and J. B. Stucker. 2,348,044; May 2.
Compounding apparatus, Formula. A. E. Reinhardt, M. G. J. Boissevain, A. H. Shapiro, and C. A. Cady. 2,348,149; May 2.
Compressor. W. W. Wishart. 2,347,862; May 2.
Computing mechanism. H. P. Luhn. 2,348,141; May 2.
Condensation products of acetylene, Production of acyclic. H. P. Staudinger and K. H. W. Tuerck. 2,348,159; May 2.
Conditioning yarn on bobbins, etc. V. Woolley. 2,347,978; May 2.
Contact terminal structure. J. F. Ebert. 2,347,815; May 2.
Container: *See*—
Insulated record container.
Container. J. M. Hothersall. 2,347,686–7; May 2.
Container. E. O. Theu. 2,347,719; May 2.
Container. R. J. White. 2,347,724; May 2.
Container for sheet materials, Dispensing. L. Goodman and R. Brandwein. 2,347,823; May 2.
Container having a pouring spout. E. H. Levin. 2,348,140; May 2.
Container transfer equipment for vehicles. R. A. Norbom. 2,348,019; May 2.
Containers containing hydrogen sulphide vapor. C. P. Larrabee. 2,347,916; May 2.
Containers, Manufacture of dispensing. J. C. Fuller. 2,347,737; May 2.
Control, Dual. C. J. Owens. 2,348,022; May 2.
Control for combustion apparatus. J. W. Miller. 2,348,143; May 2.
Control system, Fluid pressure. S. Schnell. 2,347,847; May 2.
Control system, Timing. C. J. Collom. 2,347,935; May 2.
Control unit, Hand. C. Brongersma. 2,348,107; May 2.
Controlling device for drying apparatus. G. G. Crewson. 2,347,936; May 2.
Conveying apparatus. W. A. Joplin. 2,347,828; May 2.
Copper-zinc-manganese alloy. C. M. Moss. 2,347,706; May 2.
Copy holder. F. Black. 2,347,730; May 2.
Copying materials, Transfer. J. Groak. 2,348,128; May 2.
Cosmetic holder. A. Gelardin. 2,347,774; May 2.
Counterbalanced overhead door. A. S. D'Autremont. 2,347,770; May 2.
Countercircuit. P. C. Michel. 2,348,016; May 2.
Coupling: *See*—
Shaft coupling.
Cover and package, Tire. C. M. MacChesney and A. B. Wilson. 2,348,084; May 2.
Crate, Double vertical interlock bottle. L. B. and W. Tarter. 2,347,647; May 2.
Curler, Hair. R. Krasberg. 2,347,693; May 2.
Cushion mounting. H. C. Rubly and C. H. Young. 2,347,969; May 2.
Cutter: *See*—
Face milling cutter.
Cutter chain. E. J. Doberstein. 2,348,061; May 2.
Cutting machine for round billets. J. L. Anderson. 2,347,804; May 2.
Cylinder cleaner and polisher, Hydraulic brake. J. W. Hyland. 2,348,132; May 2.
Dashpot for scales. K. C. Allen and D. A. Meeker. 2,347,803; May 2.
Dental chuck. H. L. Hobday and N. G. Brown. 2,347,741; May 2.
Derivative of tropic acid amide. W. Wenner. 2,347,722; May 2.
Detonator combination. G. B. Young. 2,347,866; May 2.
Developing electron beams, Method and apparatus for. H. A. Iams. 2,348,133; May 2.
Device for dispensing molded compositions. H. E. Moxley. 2,347,960; May 2.
Device for grinding straight edges on planer cutter blades. H. E. Sjöstrand. 2,347,800; May 2.
Device for measuring extremely small angles. H. B. Maris. 2,347,702; May 2.
Device for packaging hams or the like. J. Opie. 2,348,144; May 2.
Device for positioning and aligning apertures. W. Dzus. 2,348,116; May 2.
Diaper. L. W. Alban. 2,347,867; May 2.
Diaper prewasher. L. L. Baker. 2,348,102; May 2.
Diazinyl carboxy-alkyl sulphides and salts thereof. G. F. D'Alelio and J. W. Underwood. 2,347,992; May 2.
Die. C. M. Brehm. 2,347,808; May 2.
Diolefins, Isomerization of conjugated. D. Craig. 2,347,667; May 2.
Dipper, Snuff. F. B. Chesser. 2,348,057; May 2.
Disconnector switch. M. Lee and I. F. Matthysse. 2,347,696; May 2.
Dispensing apparatus and moistener, and delivery means therefor, Dry-gummed tape. R. W. Hoitt. 2,348,067; May 2.
Disposal system, Salt water. E. N. Van Duzee. 2,348,161; May 2.
Distillation process. W. Dennis. 2,347,669; May 2.
Dolly. I. Hamilton. 2,347,947; May 2.
Door: *See*—
Counterbalanced overhead door.
Door knocker. G. Guldbrandsen. 2,348,129; May 2.
Doorsill for electric furnaces. T. J. Peters. 2,347,792; May 2.
Draft and buffer gear. G. E. Dath. 2,347,890; May 2.
Drafting device, Textile. T. P. Rooney. 2,347,967; May 2.
Drain, Valved floor. Z. H. Smith. 2,348,097; May 2.
Drier. C. E. Blanchard and A. W. Ferre. 2,348,174; May 2.
Drive, Constant tension. E. J. Otto. 2,348,090; May 2.
Drivehead. W. J. Crites. 2,347,812; May 2.
Drop-signal holder. G. Kiner. 2,348,137; May 2.
Drying apparatus. F. D. Johnston and S. S. Sherrill. 2,347,781; May 2.
Dual pump. W. E. Cummins. 2,347,887; May 2.
Dyestuffs of the anthraquinone series. R. N. Lulek and E. C. Buxbaum. 2,348,013; May 2.
Dyestuffs, Mono-azo. C. Bonhote and E. A. Henzi. 2,347,928; May 2.
Electric apparatus. L. H. Burnham. 2,347,989; May 2.
Electric cables, Installing. L. I. Komives. 2,347,912; May 2.
Electric circuit breaker. R. J. Baskerville. 2,347,984; May 2.
Electric discharge tube. F. Coeterier. 2,347,990; May 2.
Electric dry shaver. L. H. Amdur. 2,347,869; May 2.
Electric heater. L. M. Daly. 2,347,993; May 2.
Electric lens. C. H. Bachman. 2,347,982; May 2.
Electric measuring instrument. R. G. Arey. 2,348,006; May 2.
Electric power transmission system. H. A. Peterson. 2,348,026; May 2.
Electric signaling. A. W. Horton, Jr. 2,348,131; May 2.
Electric switch. A. A. Bluemle. 2,347,874; May 2.
Electric switch. T. W. Drury. 2,347,894; May 2.
Electric switch. V. L. Mares. 2,348,015; May 2.
Electric switch. J. A. Oppel. 2,348,021; May 2.
Electrical cooking apparatus. J. W. Myers. 2,347,707; May 2.
Electrical dust precipitator. G. W. Penney. 2,347,709; May 2.
Electrical measuring instrument, S. C. Hoare. 2,348,005; May 2.
Electrical resistor. L. Podolsky. 2,347,796; May 2.
Electrical shunt for pipe couplings. H. H. Febrey. 2,347,897; May 2.
Electrical switch. J. W. Livingston. 2,347,834; May 2.
Electrically operated motor vehicles. J. E. Bowker. 2,348,053; May 2.
Electrode holder. B. F. Budd. 2,347,880; May 2.
Electrode structure. F. Landauer. 2,347,915; May 2.
Electron discharge device. K. Posthumus, F. M. Penning, E. G. Dorgelo, and C. Verburg. 2,347,797; May 2.
Electron discharge device and manufacture. L. A. Wooten. 2,348,045; May 2.
Electron microscope, Scanning type of. R. L. Snyder, Jr. 2,348,030; May 2.
Electron microscopes, Focusing of. J. A. Rajchman. 2,348,031; May 2.
Electron microscopy. E. G. Ramberg. 2,347,965; May 2.
Emulsion. K. M. Gaver. 2,347,678; May 2.
Enclosure. L. E. Levi. 2,348,012; May 2.
Engine. J. Tjaarda and G. E. Ehrling. 2,347,721; May 2.
Engine starter. J. W. FitzGerald. 2,348,063; May 2.
Engine starting. S. K. Lehman. 2,347,744; May 2.
Engine starting mechanism. R. M. Nardone. 2,347,788; May 2.
Excavator. R. E. Choate and E. W. Austin. 2,347,882; May 2.
Explosives, Manufacture of. J. G. Burtle. 2,347,660; May 2.
Face milling cutter. P. B. Niekirk. 2,348,089; May 2.
Fastener and fastener assembly. C. A. Woodward. 2,347,863; May 2.
Fastener assembly. W. Dzus. 2,347,675; May 2.
Faucet bodies or the like, Producing. S. A. Young. 2,348,173; May 2.
Feeding mechanism, Paper. G. F. Daly. 2,348,059; May 2.
Fibrous materials, Composition and process for treating. H. Ulrich, E. Ploetz, and E. Nold. 2,348,039; May 2.

Film, filament, fiber or other shaped article made by hardening proteins coagulated from their solutions. E. C. Fieldsend and W. H. D. Boyes. 2,347,677; May 2.
Filter: *See*—
Air filter.
Filter. W. Paterson and O. C. Kerrison. 2,347,927; May 2.
Finishing apparatus and method, Article. C. W. Gebhardt. 2,348,064; May 2.
Fish catching device. H. M. Vieths. 2,348,040; May 2.
Fishing tool. T. C. Wherry. 2,347,759; May 2.
Flare pistol. J. M. Sherrer, G. R. Severance, and E. S. Huntington. 2,347,645; May 2.
Flow indicator. J. Kiburz and J. Y. Kiburz. 2,347,830; May 2.
Flowmeter. R. L. Ledbetter. 2,348,076; May 2.
Fluid flow, Measuring. L. L. McWilliams. 2,347,746; May 2.
Flush type door handle. H. F. George. 2,348,065; May 2.
Fodder treating means. F. S. Chilton. 2,347,664; May 2.
Fodder treating method. F. S. Chilton. 2,348,188; May 2.
Folding machine. H. E. Dow and I. B. Andrews. 2,347,674; May 2.
Footwear, Rubber outsole. R. H. Blanchard. 2,347,872; May 2.
Frame: *See*—
Shoe machine frame.
Fuel mixture control. W. F. Stanton. 2,348,033; May 2.
Fuel saving devices, Valve for. R. A. Galipó and F. Salvatierra. 2,347,946; May 2.
Fuel supply system. W. L. Davis. 2,348,113; May 2.
Furnace construction. J. W. Throckmorton. 2,348,099; May 2.
Furniture, Collapsible. O. C. Goldner. 2,347,821; May 2.
Fuse construction. A. Ramsey. 2,347,641; May 2.
Fuse device. A. G. Steinmayer and W. O. Schultz. 2,347,851; May 2.
Garment hanger or the like, Foldable and suspendable. H. E. Hoffman. 2,347,949; May 2.
Garment hanging device. H. Derman. 2,347,892; May 2.
Gas purifier. J. I. R. Boivie. 2,347,731; May 2.
Gauge: *See*—
Size gauge. Water level gauge.
Gear: *See*—
Draft and buffer gear.
Screw type trailer landing gear.
Gear crowning. R. S. Drummond. 2,347,998; May 2.
Gear finishing. R. S. Drummond. 2,347,997; May 2.
Gearing for rotating concentric shafts in opposite directions. E. C. Hatcher. 2,347,906; May 2.
Goblet, Ice cream. R. D. Bourne. 2,347,658; May 2.
Governor and drain valve control apparatus. S. G. Down. 2,347,939; May 2.
Grinding machine. O. R. Briney, Jr. 2,347,766; May 2.
Guard, Chipper. H. Brewer. 2,347,878; May 2.
Guide, Wire line. C. S. Crickmer. 2,347,885; May 2.
Gun sight. H. L. Barsalou. 2,347,655; May 2.
Gun stabilizer. A. M. Dow. 2,348,114; May 2.
Hammock, Portable. C. F. Benjamin. 2,347,656; May 2.
Handkerchief packet. D. S. Warner. 2,348,041; May 2.
Handle: *See*—
Flush type door handle.
Hanger: *See*—
Necktie hanger.
Harrow, Flexible adjustable lever drag. V. Antal. 2,347,979; May 2.
Harvester. G. B. Hill. 2,347,907; May 2.
Harvester, Corn. N. F. Andrews and R. L. Dort. 2,347,871; May 2.
Hat material, Fur substitute and felt. S. Lichtenthal. 2,348,079; May 2.
Hatch and ventilator, Combination. W. B. Larkin and V. C. Norquis. 2,348,075; May 2.
Headrest, Adjustable. L. N. Williams. 2,347,859; May 2.
Heat conductivity apparatus. R. A. Butland. 2,347,661; May 2.
Heat exchange unit. W. E. McCullough. 2,347,957; May 2.
Heat exchanger. R. H. Norris. 2,348,020; May 2.
Heat transfer system. M. E. Fiene. 2,348,000; May 2.
Heater: *See*—
Electric heater. Petroleum heater.
Heating system, Oven. H. Feige. 2,348,118; May 2.
Heel construction. R. P. Allen. 2,347,868; May 2.
Hinge for molded containers. H. L. Apfelbaum. 2,347,980; May 2.
Hinge, Molded. H. L. Apfelbaum. 2,347,981; May 2.
Hitch means for connecting trailers to tractive vehicles. H. G. Ferguson. 2,347,898; May 2.
Hoist. C E. Goldup. 2,347,822; May 2.
Hoisting tong. L. Nelson. 2,347,922; May 2.
Holder: *See*—
Ax holder. Drop-signal holder.
Copy holder. Electrode holder.
Cosmetic holder. Tie knot holder.
Holder for double-edged razor blades. O. Ottoson. 2,347,924; May 2.
Hone. H. E. Wachter. 2,347,856; May 2.
Horticultural and agricultural implement. J. A. Kingston. 2,347,911; May 2.
Humidifier, Waste water. H. B. Hait. 2,347,905; May 2.
Hydraulic decelerometer. R. M. Oliver. 2,347,962; May 2.
Hydraulically balanced gearing. O. A. Carnahan. 2,347,663; May 2.
Hydrocarbon materials, Treatment of. F. E. Frey. 2,347,945; May 2.
Hydrocarbon oil, Conversion of. C. L. Thomas and E. C. Lee. 2,347,648; May 2.
Hydrocarbon oils, Conversion of. B. Sheppard. 2,348,156; May 2.
Hydrocarbon synthesis. R. C. Gunness. 2,347,682; May 2.
Hydrocarbons, Reaction of. L. P. Elliott and L. F. Brooke. 2,347,999; May 2.
Hydrocarbons, Recovering. W. A. Heath. 2,347,778; May 2.
Impeller. W. A. Norris. 2,347,839; May 2.
Implements, Cleaning and scraping. P. J. O'Neill. 2,347,963; May 2.
Indicating system, Liquid level. L. B. Winton. 2,347,860; May 2.
Indicator: *See*—
Flow indicator.
Induction heating apparatus, Power mechanism for. H. E. Somes. 2,348,032; May 2.
Insulated record container. E. H. Mosler and H. H. Lynn. 2,347,705; May 2.
Insulator. A. C. Stephens. 2,347,975; May 2.
Internal reflection lighting means. G. B. and C. Christensen. 2,347,665; May 2.
Jack: *See*—
Automobile jack.
Ladder. P. and T. D. Kidd. 2,348,136; May 2.
Ladder construction, Chain. H. P. Hopp and E. Kunzelman. 2,348,069; May 2.
Ladder, Jacob's. H. P. Hopp and E. Kunzelman. 2,348,068; May 2.
Ladder web with different colored bands. E. J. Gibbons. 2,348,170; May 2.
Lath to studding or the like, Securing. A. C. Olsen. 2,347,961; May 2.
Lathe. P. Boillat. 2,348,052; May 2.
Laundry machine. E. J. Downes. 2,348,115; May 2.
Lawn mower appliance. H. B. Cummings. 2,347,991; May 2.
Leather, Treating of. E. A. Robinson and R. E. Porter. 2,347,712; May 2.
Light: *See*—
Ultra violet instrument light.
Light projector. W. G. and G. J. Dion. 2,347,771; May 2.
Linear polymeric isothiourea and salts thereof. M. Hunt. 2,347,827; May 2.
Lining for ties. M. Kleinmann. 2,347,691; May 2.
Lithic slabs, Coating calcinable. L. A. Hatch and M. E. Buzzell. 2,347,684; May 2.
Liquid pump. M. J. Corp. 2,348,109; May 2.
Liquid treatment. W. H. Green. 2,348,122; May 2.
Liquid treatment. W. H. Green. 2,348,124; May 2.
Liquid, Treatment of. W. H. Green and J. R. Barrington. 2,348,123; May 2.
Load determining apparatus. J. D. Lewis. 2,347,917; May 2.
Loading and unloading device, Selective and automatic. J. S. Da Costa. 2,348,112; May 2.
Lock: *See*—
Coincidental ignition and gear shift lock.
Pillar lock.
Removable core lock.
Tire and wheel lock.
Loud-speaker. A. Schaaf. 2,347,799; May 2.
Lubricant. T. E. De Villiers. 2,347,814; May 2.
Lubricating devices, Actuating means for. E. R. Packer. 2,348,023; May 2.
Lunch box. J. H. Devine. 2,347,670; May 2.
Machine for operating upon shoes. A. S. Clark. 2,347,666; May 2.
Machine for reading perforated record cards. R. T. Blakely. 2,348,051; May 2.
Magazine, Film. W. O. Runcie. 2,348,153; May 2.
Magnesium refractories, Making. D. W. Ross. 2,347,968; May 2.
Magnetic clutch. J. J. Bloomfield. 2,347,873; May 2.
Magnetic core. J. C. Granfield. 2,348,003; May 2.
Magnet material, Permanent. O. J. Finch and J. H. White. 2,347,817; May 2.
Marker, Artificial seam. M. McGrew. 2,347,958; May 2.
Match and its application to cigarettes and the like, Windproof. L. M. Klein. 2,347,832; May 2.
Measuring and control apparatus. E. A. Keeler. 2,348,177; May 2.
Measuring system including a hydrostatic manometer and an indication translating mechanism. L. B. Winton. 2,347,861; May 2.
Mechanical hand for artificial arms. E. C. Jarrett. 2,347,909; May 2.
Metal articles, Method and apparatus for the production of cylindrical. C. H. Moore. 2,348,179; May 2.
Metal from metal bodies, Removing. W. S. Walker and W. J. Jacobsson. 2,347,758; May 2.

Metallic bar, Cold-working. G. G. Greulich. 2,347,904; May 2.
Metallic products of sheetlike form, Making. J. M. Merle. 2,348,178; May 2.
Metalworking machine. O. J. Bratz. 2,347,875; May 2.
Mineral oil solutions, Process and apparatus for separating wax from. D. G. Brandt. 2,347,810; May 2.
Molded material. C. D. Levey. 2,347,697; May 2.
Molding apparatus. E. E. Franz. 2,347,773; May 2.
Molding machine, Counter. L. H. Bennion and W. A. Smartt. 2,348,105; May 2.
Mooring device. M. C. Terry. 2,347,718; May 2.
Motion transmitting and co-ordinating means. A. G. Frazer-Nash and S. R. Proctor. 2,347,900; May 2.
Mounting: *See*—
Cushion mounting.
Mounting and regulating mechanism of sliding windows. L. F. Moroney. 2,347,750; May 2.
Mud turbine and assembling the same. L. Yost. 2,348,047; May 2.
Multiple baking pan. A. L. Langel. 2,347,694; May 2.
Necktie. H. and V. Naftali. 2,347,708; May 2.
Necktie and making same. M. Kleinmann. 2,347,692; May 2.
Necktie hanger. M. E. Lessin. 2,348,139; May 2.
Nitro compounds with polysulphides and product thereof, Condensation of. E. M. Nygaard. 2,347,840; May 2.
Nozzle, Metallic arc welding. W. E. Smith. 2,347,646; May 2.
Nut, Self-locking. A. H. Thompson. 2,347,852; May 2.
Nuts, Manufacture of self-locking. A. H. Thompson. 2,347,853; May 2.
Oil, Converting. D. B. Bell. 2,347,805; May 2.
Oil, Method and apparatus for treating crude. G. de Bretteville. 2,347,877; May 2.
Oils, Dewaxing. D. G. Brandt. 2,347,809; May 2.
Outlet fitting, Waste. A. N. Pasman. 2,348,093; May 2.
Packaging and mixing plastics. L. Peters. 2,347,640; May 2.
Packaging process. G. E. Gott, E. E. Habib, F. B. Casey, and B. A. Fairbank. 2,348,176; May 2.
Pan spreader, Swing. B. E. Cheely and C. R. Griffith. 2,348,056; May 2.
Panel selector contact shoe. C. C. Barber. 2,347,727; May 2.
Panel, Trim. E. P. Bolen and A. C. Lind. 2,347,806; May 2.
Paper machine stock inlet. S. A. Staege. 2,347,717; May 2.
Paper machinery. S. A. Staege. 2,347,850; May 2.
Patterns, Making. R. J. Miller. 2,348,086; May 2.
Pencil for laundry marking. F. M. Sell. 2,347,644; May 2.
Petroleum heater. F. H. Praeger. 2,348,181; May 2.
Phonograph. L. E. Dettle. 2,347,995; May 2.
Photographic apparatus. S. F. Monroe. 2,347,749; May 2.
Piano, Chart for teaching. E. E. Huish. 2,347,950; May 2.
Pickup mechanism. L. A. Paradise, J. V. Irwin, and F. R. Martin. 2,347,926; May 2.
Pickling tank lining. W. T. Dean. 2,347,891; May 2.
Pickling process. W. L. Keene. 2,347,742; May 2.
Pillar lock. E. N. Jacobi. 2,348,135; May 2.
Pipe: *See*—
Protecting pipe.
Pipe tong. C. A. Lundeen. 2,347,698; May 2.
Plane shutter, Photographic focal. D. G. Hunter. 2,347,951; May 2.
Polycarboxylic acids and anhydrides derived from polymers of acyclic terpenes and their production. A. L. Rummelsburg. 2,347,970; May 2.
Positioner and manipulator, Welding. J. P. Faber. 2,348,062; May 2.
Press: *See*—
Cheese press. Shoe press.
Printer, Sound film. G. L. Dimmick. 2,347,938; May 2.
Projectile, Parachute and aircraft. A. J. De Camp. 2,347,994; May 2.
Propeller, Motorless boat. E. H. Phillas. 2,348,027; May 2.
Proportionalizing control. E. M. Sorensen. 2,347,714; May 2.
Protecting pipe. S. Varga. 2,347,855; May 2.
Pulsation damper. H. Gluck and D. J. Snyder. 2,347,903; May 2.
Pump: *See*—
Dual pump. Rotary pump.
Liquid pump.
Pump. L. C. Rotter and V. G. Klein. 2,348,151; May 2.
Pump priming system. A. G. Sheppard. 2,347,973; May 2.
Pumping system. W. B. Reeves and E. L. Utsinger. 2,347,751; May 2.
Pumping unit, Oil well. F. A. Gruetjen. 2,348,004; May 2.
Push-pull control, Flexible. G. A. Gillen. 2,348,121; May 2.
Rack: *See*—
Bomb rack.
Radio receiver. L. J. A. van Lieshout. 2,347,977; May 2.
Railroad, Narrow gauge. B. R. Habel. 2,347,683; May 2.
Railway traffic controlling apparatus. R. M. Laurenson. 2,347,833; May 2.
Reaction of hydrocarbons. O. N. Miller. 2,348,017; May 2.
Receptacle filling machine. W. H. Weeden. 2,347,858; May 2.
Reclosing circuit-interrupting device. R. H. Stotenbur. 2,348,034; May 2.
Refrigerating cabinet. G. D. Reinhardt. 2,347,642; May 2.
Refrigeration. A. R. Thomas. 2,347,757; May 2.
Refrigerator. C. G. Beersman. 2,347,985; May 2.
Relay, Detachable. H. J. Nichols and H. L. Tholstrup. 2,348,088; May 2.
Resistor, Carbon-composition. L. Podolsky. 2,347,795; May 2.
Removable core lock. H. G. Voight. 2,347,802; May 2.
Remover, Bottle cap. C. H. Cowan, Jr. 2,347,734; May 2.
Resin bonded abrasive sheet material. R. P. Carlton and B. J. Oakes. 2,347,662; May 2.
Rheostat C. F. Leathers. 2,347,695; May 2.
Rolling mill rolls and the like, Cooling. P. H. Washam, Jr. 2,347,651; May 2.
Roof flashing and jacket. F. J. Moore. 2,347,836; May 2.
Rosin and abietic acid salts of a guanidine as a mothproofer. D. W. Jayne, Jr. 2,347,688; May 2.
Rotary pump. E. Fowler. 2,347,944; May 2.
Rotary reactor. P. H. Karlsson and W. D. Yerrick. 2,347,829; May 2.
Router, Turret head. R. F. Onsrud. 2,347,791; May 2.
Rubber, Softening. R. O. Roblin, Jr. 2,347,966; May 2.
Saddle and scaffolding, Safety. E. E. McKinney. 2,347,745; May 2.
Safety device for gas producing systems. H. Beddoes. 2,348,104; May 2.
Safety valve. A. D. Eplett. 2,347,676; May 2.
Salvaging apparatus for sunken vessels. W. K. Kannenberg. 2,347,690; May 2.
Sanding machine, Chinaware. W. H. Emerson. 2,347,940; May 2.
Sands, Mold-facing. C. B. Shanley. 2,348,155; May 2.
Saucer. A. Rasch. 2,348,028; May 2.
Saw machine, Reciprocating. M. A. Lethenstrom. 2,347,918; May 2.
Scraper, Tumbling. W. C. Elliott. 2,348,117; May 2.
Screw type trailer landing gear. E. L. Miller. 2,347,921; May 2.
Scriber, Adjustable circumference. T. H. Burch. 2,347,659; May 2.
Seal, Lubricant. M. Katcher. 2,347,953; May 2.
Seaplane. J. F. Parker. 2,347,841; May 2.
Seat: *See*—
Theater seat.
Secondary recovery apparatus. W. J. Crites. 2,347,769; May 2.
Section insulator. A. J. Knight. 2,347,913; May 2.
Servomotor. J. S. Morrison. 2,347,837; May 2.
Sewage purification. W. H. Green. 2,348,126; May 2.
Sewage treatment. W. H. Green. 2,348,125; May 2.
Sewing machines, Stand for. I. F. Webb and A. A. Ackerman. 2,348,043; May 2.
Shaft coupling. R. McC. Johnstone. 2,348,071; May 2.
Sharpener, Lawn mower blade. F. D. Wulff. 2,347,864; May 2.
Shaver, Electric dry. L. H. Amdur. 2,347,870; May 2.
Sheet metal gas burner. E. R. Koppel. 2,348,011; May 2.
Ship propulsion. E. V. Lovell. 2,347,785; May 2.
Shock absorber, Liquid damped telescopic. P. W. Thornhill. 2,348,160; May 2.
Shoe. G. E. Bergman. 2,347,762; May 2.
Shoe machine frame. C. L. Knott. 2,347,782; May 2.
Shoe press. F. Dawson. 2,348,060; May 2.
Shoe sole structure. C. R. Hill. 2,347,740; May 2.
Signal: *See*—
Vehicle signal. Warning signal.
Sign control. H. P. Burney, Jr. 2,348,054; May 2.
Signaling circuit. C. D. Hanscom. 2,347,777; May 2.
Size gauge. W. F. Moore. 2,348,018; May 2.
Ski pole. C. Nichols. 2,347,789; May 2.
Skill testing game. M. J. Binks. 2,347,657; May 2.
Skiving machine, Sole. K. W. Macdonald. 2,348,142; May 2.
Slicing machine. J. Folk. 2,347,818; May 2.
Slug trimming mechanism for typographical casting machines. R. R. Mead. 2,347,787; May 2.
Smoker's device. E. W. Eweson. 2,347,941; May 2.
Soil analysis for location of oil deposits. A. O. Beckman. 2,348,103; May 2.
Sole and insole combination, Middle. M. Margolin. 2,347,701; May 2.
Solutions containing high ratios of sodium carbonate to sodium sulphate, Preparing. L. G. Black, E. B. Fitch and H. B. Suhr. 2,348,164; May 2.
Solvent compositions. W. J. Backoff and N. D. Williams. 2,347,983; May 2.
Sorting device. R. Connor and N. S. Welk. 2,347,811; May 2.
Splicing device for electrical conductors. G. B. Wadsworth. 2,348,100; May 2.
Spotting and signaling apparatus. J. Barnstyn. 2,348,050; May 2.
Spray gun valve. W. M. Sprehg. 2,347,755; May 2.
Spray recovery means, Coating material. C. C. Bell. 2,347,728; May 2.

Spraying sheep and other animals. W. H. Higgins. 2,347,739; May 2.
Spreader, Web. E. Warner. 2,348,162; May 2.
Sprinkler heads, Fusible link construction for. A. C. Rowley. 2,348,152; May 2.
Sprocket, Strip feed. L. A. McNabb. 2,347,786; May 2.
Stacking mechanism, Sheet. C. D. Lake and F. E. Hamilton. 2,348,073; May 2.
Stamp, Self-inking. R. Doerrler. 2,347,996; May 2.
Starch modification. J. K. H. Seiberlich. 2,347,849; May 2.
Starter, Motor. P. M. Christensen and R. P. Ballou. 2,347,934; May 2.
Steel power transfer housings, Forming. A. R. Perkins 2,348,145; May 2.
Stitching machine. J. W. Bedard. 2,347,761; May 2.
Stocking top. I. H. C. Green and E. St. Pierre. 2,347,775; May 2.
Stoker apparatus. R. A. Foresman. 2,347,819; May 2.
Stretcher frame for curtains and the like. W. D. Redmond. 2,347,711; May 2.
Structure, Manhole. W. A. Sandberg. 2,347,844; May 2.
Strut and braking assembly, Brake beam. M. Pringle 2,348,147; May 2.
Sulphur-bearing derivatives of high molecular weight, Synthesis of. B. H. Lincoln, G. D. Byrkit and W. L. Steiner. 2,348,080; May 2.
Superheater, Separately fired. D. M. Schoenfeld. 2,347,848; May 2.
Support: *See*—
Telephone support. Wall and closure support.
Vehicle wheel spring support.
Switch: *See*—
Disconnector switch. Electrical switch.
Electric switch.
Switching device. C. J. Christensen. 2,347,733; May 2.
Switching means, High frequency. D. A. Heisner. 2,347,826; May 2.
Switching mechanism. H. L. Coyne. 2,347,735; May 2.
Switching mechanism. H. C. Harrison. 2,347,738; May 2.
Table: *See*—
Book lettering table.
Take-up mechanism, Quick. G. E. Dath. 2,347,889; May 2.
Tank for electrical condensers, Expansible. C. Å. Trapp and B. Hansson. 2,347,976; May 2.
Telegraph signal translating system. L. M. Potts. 2,348,146; May 2.
Telegraph repeater hub circuit, Inverse neutral. G. C. Cummings. 2,347,813; May 2.
Telephone support. F. A. Latus and W. H. Lehrfeld. 2,348,138; May 2.
Temperature control system. W. F. Bixby. 2,347,763; May 2.
Termite controlling building construction. J. W. Gunn. 2,347,776; May 2.
Terpene compound, Esters of. J. N. Borglin. 2,347,929; May 2.
Tester, Torque. R. H. Cripps. 2,348,175; May 2.
Testing machine, Radio interference. W. A. Smith and C. J. Miller, Jr. 2,348,157; May 2.
Theater seat. I. R. Bromagem. 2,347,931; May 2.
3,4-dimethylaniline, Making. W. A. Wisansky. 2,347,652; May 2.
Tie knot holder. S. B. Bankson. 2,348,049; May 2.
Tire and wheel lock. F. C. Burrell. 2,347,767; May 2.
Tire vulcanizer. H. V. James. 2,347,952; May 2.
Tobacco, Treating. R. D. Touton. 2,348,038; May 2.
Tong. S. F. Wadzinski. 2,347,650; May 2.
Tool: *See*—
Cable sheath cutting and stripping tool. Torque measuring tool.
Fishing tool. Well tool.
Tool installed connector and its installation. J. Rogoff. 2,347,713; May 2.
Top, Exhibiting. F. E. Thomas. 2,347,649; May 2.
Torch. J. C. Crowley. 2,348,110; May 2.
Torch. J. C. Crowley. 2,348,111; May 2.
Torque measuring tool. W. Storrie. 2,348,098; May 2.
Tour system, Watchman's. P. M. Farmer and D. W. Bloser. 2,347,943; May 2.
Tour system, Watchman's. P. M. Farmer, D. W. Bloser, and W. J. Kleinkneck. 2,347,942; May 2.
Transfer and disseminating apparatus, Heat. C. P. Grimes. 2,348,127; May 2.
Translating apparatus, Electric. C. H. Chapman. 2,348,055; May 2.
Transmission. O. H. Banker. 2,347,654; May 2.
Trap for gophers, rats, and similar rodents. C. B. Glass. 2,348,002; May 2.
Tropic acid amide and manufacture theerof. W. Wenner. 2,347,723; May 2.
Tube: *See*—
Electric discharge tube.
Turbine arrangement, Elastic fluid. G. B. Warren. 2,348,042; May 2.
Turf perforator. H. W. Melling. 2,347,748; May 2.
Ultraviolet fluorescent instrument illumination. A. D. Direksen. 2,347,671; May 2.
Ultraviolet instrument light. A. D. Direksen and J. M. Roper. 2,347,672; May 2.
Vacuum cleaner. G. E. Lofgren. 2,347,919; May 2.
Vacuum cleaner. G. E. Lofgren. 2,348,082; May 2.
Valve: *See*—
Safety valve. Spray gun valve.
Valve bag. J. F. Doyle. 2,347,673; May 2.
Valve construction. O. J. Burke. 2,347,988; May 2.
Valve construction. I. E. McCabe. 2,348,083; May 2.
Valve tapper, Self-locking. C. E. Johnson. 2,347,910; May 2.
Vaporizer. M. W. Hanks. 2,347,825; May 2.
Varnish composition. F. G. Oswald. 2,347,923; May 2.
Vehicle signal. S. E. Cross. 2,347,937; May 2.
Vehicle wheel spring support. R. J. Hassett. 2,347,948; May 2.
Ventilator. R. Evans. 2,347,895; May 2.
Ventilator. A. M. Rankin. 2,348,148; May 2.
View finder, Electronic. R. L. Campbell. 2,347,933; May 2.
Vinyl chloride copolymers. W. Scott and R. B. Seymour. 2,348,154; May 2.
Vitamin and obtaining same. S. A. Thayer, S. B. Binkley, R. W. McKee, D. W. MacCorquodale, and E. A. Doisy. 2,348,037; May 2.
Voting machine. A. N. Gustavson. 2,347,824; May 2.
Wall and closure support. P. Zalkind. 2,347,725; May 2.
Wall construction. G. E. Swenson. 2,347,756; May 2.
Wallpaper, Hanging prepasted. W. H. Yates and LeR. W. Staunton. 2,347,865; May 2.
Warning signal. J. La Rocca. 2,347,784; May 2.
Water level gauge. H. A. Hoke and C. J. Barley. 2,348,007; May 2.
Water spider. V. B. Moore and S. P. Tsoneff. 2,347,959; May 2.
Wax emulsion. K. M. Gaver. 2,347,679; May 2.
Welding apparatus. R. S. Miller. 2,348,087; May 2.
Welding, Method and apparatus. G. E. Kricker. 2,347,914; May 2.
Well apparatus. W. A. Heath. 2,347,779; May 2.
Well surveying device. R. G. Piety. 2,347,794; May 2.
Well tool. L. W. Benz. 2,347,729; May 2.
Wetting and emulsifying agent. K. M. Gaver. 2,347,680; May 2.
Wheel: *See*—
Abrasive wheel.
Wheel starter. M. Bowerman. 2,347,986; May 2.
Wind calculator. H. B. Maris. 2,347,703; May 2.
Wire line pressure retaining core barrel. D. W. Auld and L. J. Weber. 2,347,726; May 2.
Wing flap, Extendable. E. O. Richter. 2,348,150; May 2.
Wire stitching machine. R. G. Hoffert. 2,347,908; May 2.
Wood for the rapid maturation of whiskey and other alcoholic liquors and wines, Processing. E. T. Krebs. 2,347,783; May 2.
Wood veneer, Dry expansion of. J. R. Francek. 2,347,820; May 2.
Work benches, Attachment for. C. Wulstein. 2,347,760; May 2.
Work holding device. H. W. Plumadore, T. Collins Jr., and J. Oakley. 2,347,710; May 2.
Yarn guide device. B. Subin. 2,347,801; May 2.

CLASSIFICATION OF PATENTS

ISSUED MAY 2, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 15: 2,347,908
2— 146: 2,347,691
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4— 287: 2,348,093
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Designs	35	No. 137,859	to No. 137,893,	inclusive.
Total	749			

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed.

Pat. 2,137,591, R. R. R. Sarazin, Vibration damping device, decided April 6, 1944, claim 1.

Pat. 2,296,370, O. C. Slotterbeck, Alkylation process, decided April 5, 1944, claims 1, 5, 6, and 9.

Adjudicated Patent

(C. C. A. Calif.) Heller patent, No. 2,023,809, for gas mixing apparatus, *Held*, if valid, not infringed. *Gasair Corporation* v. *Ransome Co.*, 140 F.(2d) 818.

Order No. 3804

U. S. PATENT OFFICE, *Washington, D. C., Mar. 17, 1944.*

Acting under the provisions of Section 483 of the Revised Statutes (U. S. C., title 35, sec. 6) and with the approval of the Secretary of Commerce, rule 153 of the Rules of Practice (Patents) and rule 60 of the Trade-Mark Rules are amended as set forth below to take effect May 1, 1944.

Rule 153 (Patents)

By striking out the last sentence and inserting in place thereof:

In contested cases the practice on points to which the rules are not applicable shall conform as nearly as practicable to the Rules of Civil Procedure for the District Courts of the United States.

Rule 60 (Trade-Marks)

By striking out the last sentence and inserting in place thereof:

Pleadings and procedure with respect thereto shall be governed by the Rules of Civil Procedure for the District Courts of the United States except as otherwise provided.

CONWAY P. COE,
Commissioner.

Disclaimer

2,218,025.—*Allen D. Garrison*, Houston, and *Charles F. Teichmann*, Beaumont, Tex. METHOD OF TREATING A WELL. Patent dated October 15, 1940. Disclaimer filed April 12, 1944, by the assignee, *The Texas Company.*

Hereby enters this disclaimer to claims 1, 2, 4, 5, 11, 15, and 17 in said specification.

Recording Corporate Names

Corporations wishing to prevent others registering their names as trade-marks under the act of 1905 may record their articles of incorporation in the Patent Office. The charge for such recording is $3 for each paper not exceeding 6 pages, and $1 for each additional 2 pages or less.

Condition of Applications Under Examination at Close of Business April 22, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 44,172; Trade-Mark Division, 1,367. Oldest new case, May 17, 1943; oldest amended, May 14, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Dec. 13	Dec. 6	421
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy ; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 27	Oct. 16	523
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Sept. 15	Sept. 20	952
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 15	Oct. 11	461
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 10	Sept. 11	1,002
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 3	Sept. 10	1,150
7. JARBOE, C. G., Optics, Photography	Dec. 14	Nov. 4	724
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 29	Nov. 29	454
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Nov. 8	Oct. 30	655
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 2	Nov. 18	268
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Aug. 14	July 22	976
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Nov. 3	Nov. 8	508
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 13	Nov. 24	576
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Oct. 4	Nov. 1	761
16. SPENCER, C. J., Telegraphy; Telephony	Nov. 20	Nov. 20	540
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 18	Aug. 10	519
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 17	May 14	845
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Oct. 13	Oct. 28	525
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Nov. 17	Dec. 2	393
21. THOMPSON, T. J., Textiles	Dec. 10	Nov. 1	391
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Aug. 30	Aug. 30	1,118
23. BARROWS, B., Cash Registers; Calculators (part)	July 19	July 6	175
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 6	Nov. 11	561
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Oct. 22	Oct. 26	720
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 19	July 26	918
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Aug. 19	Aug. 2	498
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	July 17	Aug. 11	705
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 27	Nov. 13	678
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	July 28	Aug. 7	1,041
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 13	Nov. 10	1,087
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 2	Sept. 29	583
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Dec. 3	Oct. 29	631
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Nov. 24	Aug. 13	499
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Dec. 7	Nov. 22	430
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Dec. 9	Dec. 20	372
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 18	Aug. 10	672
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 20	Aug. 13	486
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 12	Nov. 26	621
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 10	Dec. 8	583
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Aug. 14	Aug. 27	404
42. MARANS, H., Electric Signaling	Dec. 14	Dec. 4	348
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing, Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Oct. 18	Sept. 6	745
44. HARVEY, L. P., Refrigeration; Preserving	Sept. 15	Aug. 26	411
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Oct. 22	Oct. 11	974
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Oct. 18	Oct. 1	476
47. KANOF, WM. J., Brakes; Boring and Drilling; Land Vehicles (part)	Dec. 6	Nov. 15	609
48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Sept. 10	Sept. 16	816
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 16	Oct. 14	651
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Oct. 2	Oct. 2	1,335
51. CROCKER, A. W., (Acting), Radiant Energy, Multiplex Telephony, Modulators	Sept. 24	Sept. 18	1,340
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Oct. 22	Sept. 2	723
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures. Partitions and Panels, Flexible and Portable.	Oct. 25	Oct. 20	390
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 1	June 15	751
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Aug. 12	Aug. 16	662
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Oct. 16	Oct. 7	747
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 5	Aug. 30	719
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 3	Oct. 21	649
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 7	Sept. 8	1,288
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats' Prime Mover Dynamo Plants.	Aug. 19	Aug. 10	713
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Aug. 3	Sept. 24	446
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 29	Nov. 29	709
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 1	Aug. 18	919
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 6	Dec. 7	1,037
66. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	July 21	July 12	856
Trade-Marks: RICHMOND, F. A.	†Mar. 1	†Feb. 19	1,367
Designs: KALUPY, H. H.	†Mar. 13	†Mar. 23	440

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

MUSKAT ET AL. *v.* SCHMELKES

No. 4,806. Decided January 3, 1944. Petition for rehearing denied March 6, 1944

[— F.(2d) —]

1. INTERFERENCE—REDUCTION TO PRACTICE—NECESSITY OF TESTS.

Stability tests of the chemical compound expressed in the counts as chlorinated melamine characterized in that a substantial amount of the chlorine in said chlorinated melamine is present as active chlorine *Held* essential to its reduction to practice.

2. SAME—ABANDONED EXPERIMENT.

The delay by appellee for eight years after an alleged reduction to practice of the chlorinated melamine in issue before filing his application on that compound *Held* not explained, under the circumstances of the case, by the unavailability of melamine in substantial quantities and the high cost thereof, and *Held* that the alleged reduction to practice amounted only to an abandoned experiment within the rule of *Paul* v. *Hess*, 24 App. D. C. 462, 115 O. G. 251.

3. SAME—REDUCTION TO PRACTICE—NECESSITY OF TESTS.

"If melamine was of such character that when it had been chlorinated it would not be stable or if for any other reason the compound was of no use, it of course would not be a patentable article. We think, therefore, it should have been tested in the respect indicated."

4. SAME—PRIORITY.

"It is our view that appellee has not proved beyond a reasonable doubt that he had reduced his invention to practice prior to the * * * filing date of the appellants, and that the decision of the Board of Interference Examiners awarding priority to appellee was erroneous."

APPEAL from the Patent Office. Reversed.

Messrs. Parry & Miller (*Mr. Edmund H. Parry, Jr.*, and *Mr. Olen E. Bee* of counsel) for Muskat et al.

Mr. H. Frank Wiegand (*Mr. Edwin R. Hutchinson* of counsel) for Schmelkes.

BLAND, *J.*:

From a decision of the Board of Interference Examiners of the United States Patent Office awarding to Schmelkes priority in four counts corresponding to claims taken from three Muskat and Chenicek patents, Muskat and Chenicek have here appealed. The counts all define a product, and since we are not concerned here with the differences in the breadth of the counts, count 1 is illustrative and reads:

1. Chlorinated melamine characterized in that a substantial amount of the chlorine in said chlorinated melamine is present as active chlorine.

The invention relates to chlorinated melamine, which is a nitrogen compound ordinarily obtained in the form of a powder, the melamine forming the carrying agent for the chlorine, which is capable of being liberated for the purpose of oxidizing, bleaching, sterilizing, or for bactericidal reactions. The most important utility of the compound in controversy is for the purpose of destroying bacteria in liquids, such as milk and drinking water.

In the chemical art it is not new to chlorinate a product in varying amounts to accomplish the purposes sought by the appellants and the appellee in their Patent Office activities. Many different chemicals may be chlorinated to some extent. Appellee, in describing the invention of his application, has the following to say:

This invention relates to halogen derivatives of amides and imides of cyanuric acid and the method of making such derivatives. The invention relates, particularly, to N-chloro derivatives of melamine.

Schmelkes describes the compound as a germicidal or detoxifying agent, while Muskat and Chenicek refer to it as a sterilizing agent and also a bleaching agent.

It is shown in the record that there are numerous amines which are susceptible of being chlorinated and that some of them, by reason of their capability of carrying large amounts of chlorine and other characteristics, have found utility in the arts in which the involved compound is designed to be used. Melamine belongs to a smaller class of amines concerning which chemists had considerable knowledge with respect to the possibility of their utilization in the art involved here.

The counts, as before stated, correspond to claims from three of appellants' patents, the application for the first of which was filed in December of 1937. Appellants' patents issued in December of 1939. Appellants took no testimony and are confined to December 1937 for conception and reduction to practice. Appellee filed his application in August of 1940, a little more than eight months after appellants' patents issued, and he was therefore under the burden of proving his priority beyond a reasonable doubt. This he undertook to do by evidence of certain experiments which he alleges resulted in two reductions to practice—one in 1932 and another in 1933.

The Board of Interference Examiners held that appellee had satisfactorily proved that the experiments made at Schmelkes' request by two chemists of whom he was in charge amounted to a complete reduction to practice. It accordingly awarded priority to appellee upon this holding.

Appellants argued before the Board and argue here that the said experiments in 1932 and 1933 did not amount to a reduction to practice and that the fact that eight years passed before appellee, after being advised of appellants' patents, finally filed an application in which appellants' claims were copied as aforesaid creates a strong presumption that the early activities were unsuccessful. They also argue that all the circumstances show that appellee did not complete his invention and that whatever was accomplished amounted to nothing more than an unsuccessful and abandoned experiment.

The rule relating to the question of abandoned experiments is well settled in patent law and has many times been stated by this court. In *Bennett* v. *Fitzgerald*, 18 C. C. P. A. (Patents) 1201, 48 F.(2d)

917, 9 U. S. P. Q. 211, 410 O. G. 1063, this court, in holding that the proof was insufficient to show a reduction to practice where there had been delay in filing the application for patent, cited and quoted from the case of *Paul* v. *Hess*, 24 App. D. C. 462, 115 O. G. 251, in which the following was said:

> Long delay in making use of an invention claimed to have been reduced to practice, or in applying for a patent, have always been regarded as potent circumstances tending to show that the alleged reduction to practice was nothing more than an unsatisfactory or abandoned experiment. * * * And this is specially the case where, in the meantime, the inventor has been engaged in the prosecution of similar inventions * * *, or others, without reasonable explanation, have been adopted for manufacture and commercial use.

It seems that the complete rule applicable to this case is stated in the Hess case, and there is no necessity for citing many similar holdings by this court. In order that we may determine whether the above-quoted principle applies to the instant case and controls decision thereof, we feel required to state the facts somewhat in detail, although there are so many facts and circumstances, some of which have only a minor bearing upon the question involved, that we would not be justified in lengthening the opinion by stating them all.

Schmelkes was the Assistant Director of Research at Wallace & Tiernan Products Company, the assignee of his application. In 1931 he started out on an extensive program involving the preparation and study of a great many N-chloro compounds in order to find which of them were most capable of serving as carriers for as much chlorine as possible. He stated in his testimony:

> We have prepared, in this laboratory, a long series of chlorinated amines of which chlorinated melamine is only one, whenever it was possible for us to prepare a chlorinated amine that was a *stable*, solid material. [Italics ours.]

At that time he knew that melamine was difficult of procurement and prohibitive in price for most practical purposes. Nevertheless, he secured 100 grams of melamine from Eastman Kodak Company in 1932 at a cost of $8.50. That was at a time when he, as stated by his assistant, Dr. Glass, was chlorinating "every organic nitrogen compound we could get our hands on." This sample of melamine was turned over to Glass, a research chemist, for experimentation in chlorination, and in the month of March 1932 Glass conducted four experiments wherein he subjected melamine to a chlorinating agent. He made reports on these tests as follows:

Chlorination of Melamine

Melamine (6.3 g.) was treated with 111 cc. neutral NaOCl (3 molecules) at room temperature. There was no gas evolution or odor of nitrogen chloride. Solution was not complete after ½ hour stirring.

Treatment of the same quantity of melamine with twice the amount of NaOCl resulted in solution at once to a clear red solution and no gas formation. This solution was divided into two parts; the first evaporated in vacuum and the second made slightly acid with dilute HCl,—a yellow precipitate forming. This was filtered, washed with cold water and dried. Analysis: 26.54% Cl. This was designated as Cl No. 12.

The material obtained from the red solution was a dirty, sticky solid and was discarded.

A small sample of melamine was suspended in water and chlorine gas passed into the cold solution. After three hours the white precipitate was filtered, washed with cold water and dried in vacuum. Analysis: 31.57% Cl. Calculated for $C_3N_6H_4Cl_2$; 36.41%. This material was recrystallized from acetone and again analyzed: 37.47% Cl. This product was designated as Cl No. 10.

The chlorination with chlorine gas was repeated using no cooling as above. The product was worked up in the same way and found to contain 44.12% Cl. An attempt was made to recrystalize this material from acetone but it was found to be too soluble. Addition of water to the solution gave an oil which on solidification and drying was found to contain 33.8% Cl and was discarded.

There is no testimony on his part that he or anyone else determined whether or not the chlorinated melamine was stable in character. Schmelkes asserted, without corroboration, that one of the products produced by Glass was turned over to a laboratory technician, Miss Romans, and tested a few days later for its action in killing bacteria in milk, and that the tests were successful. Exhibit 17 is said to be the report of the results of these tests. The exhibit comprises pages taken from Schmelkes' notebook or record book. This testimony is not relied upon by Schmelkes for any purpose except that stated by his counsel in the brief, as follows:

> * * * This testimony by Dr. Schmelkes himself is not cited to establish that the test for bacteria was a reduction to practice. The invention had already been reduced to practice by Glass, Schmelkes' agent, and the law does not require that it must have been tested to kill bacteria to constitute reduction to practice. We cite the testimony to show that before his subsequent reduction to practice in 1933, Schmelkes actually knew that chlorinated melamine would kill at least some kinds of bacteria.

Eleven months thereafter, in February 1933, Schmelkes assigned Dr. Marks, another assistant, to subject melamine to a chlorination process. A small bottle of this chlorinated material was sent to Dr. Gump at Trudeau Sanitarium, Trudeau, New York, who was then engaged in a study of chemical therapeutic agents for the treatment of tubercular patients. Dr. Gump's testimony has no relevancy to the question of reduction to practice and was introduced only for the purpose of showing that at that time there had been no concealment of the invention.

The Board held that the record fairly showed that the invention of Schmelkes had not been concealed or suppressed, which made inapplicable the doctrine of *Mason* v. *Hepburn*, 13 App. D. C. 86, 84 O. G. 147, and there is no contention here by anyone that the doctrine of that case does apply. These activities of Marks are urged by Schmelkes as being a second reduction to practice of the subject-matter of this controversy.

Almost four years thereafter, in 1936, during which period there appears to have been no activity for reasons which appellee attempts to explain and which will be referred to hereinafter, Lang of Rare Metal Products Company requested Schmelkes to furnish him some azochloramid or whatever other chlorinated compounds Schmelkes might suggest for experimentation by Lang to determine whether they would be good as retarding agents in the vulcanization of rubber. Schmelkes sent Lang a small bottle labeled "N-chloro N-N′ dichloro melamine 59.8 per cent av cl₂ November 24, 1936." Whatever Schmelkes' testimony may disclose with reference to the melamine content of this bottle, there is no corroboration by any witness which has any bearing upon the question of reduction to practice, and this testimony again is, as far as we are able to observe, emphasized by appellee only to refute any

contention relating to suppression or concealment which might be made and to show that Schmelkes had not lost interest in chlorinated melamine.

Lang and his associate Wilson filed application in 1937 for a patent for the use of chlorinated melamine and other similar compounds in the method of treating rubber, and on September 5, 1939, they received a patent therefor, No. 2,171,901.

About two and a half years after the Wilson and Lang application had been filed, Schmelkes received a letter, dated January 17, 1940, (appellants' patents, it will be remembered, were granted in December of 1939), from American Cyanamid and Chemical Corporation which referred to a request by Schmelkes for a sample of melamine. That letter stated:

> We are in receipt of your request received through our representative, Mr. J. B. Darlington, for a sample of melamine.
>
> This is a product in which we are very much interested and we are in the process of constructing a plant to manufacture it in substantial quantities. Production from this plant will not be available, however, for perhaps five or six months. When it is available, we will be in position to offer you not only trial lots but substantial quantities if you are then interested.
>
> Our experience has shown that pilot plant production of this material is unsatisfactory and prohibitively expensive. At the present time we do not have enough material to justify us in sending out even sample quantities, although we have had a great many requests. If you want a small quantity I think perhaps you can get it from the Eastman Kodak Company.
>
> We most certainly are making a record of your interest in melamine and as soon as this product is commercially available, we will be sure to get in touch with you.

On August 21, 1940, Lang returned to Schmelkes the remainder of the bottle purportedly containing chlorinated melamine which Schmelkes had sent to Lang in 1936. Schmelkes had an assistant test this chlorinated melamine for available chlorine content, and the analysis showed 56 per cent available chlorine.

Ten days later Schmelkes filed his application for patent.

The sole excuse Schmelkes offered for delaying the filing of his patent application until over eight years after the first alleged reduction to practice in 1932 was that melamine was too expensive to be utilized in making a commercially salable product, and that it was the universal policy of the company for which he worked not to file applications for patents on inventions until it was ready to place the patented articles upon the market in commercial quantities.

Under the rule above quoted from the Hess case, we are here called upon to determine whether, under all the facts and circumstances of record, it should be held that Schmelkes, in the manner stated, had reduced his invention to practice as early as 1933 or whether the long delay in filing his application for a patent, together with the other facts and circumstances detailed herein, justifies a conclusion that whatever he did prior to the filing date of appellants amounted only to an abandoned experiment.

[1] In the first place, the testimony relating to the experiments of Glass and Marks as to the determination of the chlorine content of the melamine is not regarded as strongly indicating that either they or Schmelkes were convinced from such experiments that they had found a material which answered the requirements of a suitable compound for the purposes in mind. Lang's use of the melamine which he obtained from Schmelkes was for an entirely different purpose—viz., as a retarder in the vulcanization of rubber. Neither Schmelkes nor anyone associated with him tested the material at that time for stability. Schmelkes' testimony above referred to in connection with Exhibit 17 was, as before stated, wholly without corroboration. Exhibit 17 does not disclose that Schmelkes at that time knew anything about the stability of the compound which he claims to have invented. In testifying concerning this exhibit, Schmelkes had the following to say:

> I kept this book in my own office; and I pretty well hounded the technicians to be certain to keep this book up to date. This book was more or less an indication as to whether the work in our chemical laboratory was successful and as to along which lines it should be continued and prosecuted. If we had a compound that was of particular interest from the point of view of bacteriological tests, we would—

It is to be noted that at this point in Schmelkes' testimony, his counsel stopped him with the statement—

> That is enough, I think.

We think that Exhibit 17 and Schmelkes' testimony relating thereto cannot, for reasons which are obvious, be relied upon by the appellee as tending to support his claim to priority. On the contrary, it seems to us that the subject-matter would indicate that the reason for Schmelkes' failure to make proper tests and file an application for patent was that he was not convinced that the chlorinated melamine had the desired utility.

Appellee, in his brief, calls attention to the fact that after testing the chlorinated melamine, some of which he sent to Lang, Lang also tested it and found it to be useful as a retarder in the vulcanization of rubber. Schmelkes urges that this fact and the fact that Wilson and Lang took out a patent on their discovery and in their specification disclosed the use of chlorinated melamine show that the appellants were not the first inventors of the article covered by the counts at bar. It may be that in some other proceeding it could be determined that the article called for by the counts involved was old in the art before the appellants filed their applications, but we cannot see how this fact can be helpful to Schmelkes if he lost interest in the article and failed to reduce it to practice by making the test which we herein hold was essential to its reduction to practice. There is no contention here by Schmelkes that the tests made by Wilson and Lang in the rubber vulcanization art inure to his benefit in supplying proof of tests which the record fails to show he made.

The portion of the testimony of Dr. Gump relied upon for the purpose of proving no concealment has a particular significance itself. He stated, in substance, that he tested all the compounds which Schmelkes sent him, and that they were tested as bactericides and were known to contain free available chlorine. The first that he received and tested

was azochloramid. He was asked which was the best of the compounds so tested and replied, "Well, the azochloramid was the best one." While this testimony could not be accepted as corroboration of Schmelkes' testimony as to the character of the material sent to Gump, it seems that it might throw some light upon the question as to why Schmelkes failed to make certain tests and file his application for a patent.

In the interval between the 1932 and 1933 experiments and the year 1937, Schmelkes applied for six patents relating to chlorinated compounds, but not one word about melamine was mentioned. It is shown by the record that melamine did not become available in sufficient quantities and at a price low enough to warrant its extensive use in commercial production until after the issuance of appellants' patents. As before stated, Schmelkes relies upon this as his sole excuse for not filing application for patent until after the issuance of the patent of Wilson and Lang and the patents of appellants.

It is not without interest to note here that Lang must have known of the scarcity of this product, but nevertheless he became interested in the material after obtaining the sample which Schmelkes still had on hand and tested and experimented with the same, and he found that it was useful in the rubber vulcanization art. Notwithstanding its scarcity, which the record indicates continued at least until 1940, he promptly filed, in 1937, his application for patent.

[2] Appellee contends that in order to show a reduction to practice by Schmelkes it was not necessary to show tests for stability or value as a germicidal agent because the counts say nothing about stability or the use to which the material is put, and that appellants are seeking to have this court construe the counts so as to insert limitations which are not even suggested by the language of the counts. We do not so understand appellants' position. We think their contention when boiled down—and we agree with it—briefly is that before one is entitled to an award of priority based upon an actual reduction to practice, it must be disclosed satisfactorily, especially where, as in this case, the proof must be beyond a reasonable doubt, that the inventor so tested his product (if of the character requiring tests) as to bring conviction at least to him that the product has utility within the meaning of the patent laws and is of such value as to warrant a patent grant.

Schmelkes states in his application the following:

> The derivatives are quite stable. One preparation made in 1936, analyzing at that time 106% of available chlorine, was retested in 1940 and found then to contain 96% of available chlorine; the loss of chlorine is inconsiderable as compared with the known instability of most N-chloro compounds.

The test for stability referred to in appellee's application was made after the issuance of appellants' patents, and in order to show patentable utility in his product appellee emphasized in his application the stability of the product. It seems strange, to say the least, that Schmelkes should feel called upon to make a test of this character after the issuance of appellants' patents and before filing his own application if long before this date, in 1932 and 1933, he had satisfactorily ascertained the qualities of the compound in this particular.

[3] In January of 1940 Schmelkes was informed by American Cyanamid and Chemical Corporation that within five or six months substantial quantities of melamine would be available for use if he was interested. Notwithstanding this fact, Schmelkes made the test last above referred to and delayed until August 31, 1940, before filing his application for patent. This circumstance would seem to indicate that Schmelkes had not, in 1932 and 1933, satisfied himself that he had produced an article which was an improvement over that which was old in the art or that it had patentable utility. Under the circumstances, it seems to us that Schmelkes cannot relay upon the unavailability of substantial amounts of melamine or the high cost thereof as an explanation for his long delay in filing his application. By this holding we do not mean to suggest that the unavailability of a material in substantial quantities or its high cost is a matter which may never be taken into consideration in explaining away the presumption that follows a long delay in filing an application for patent. However, we think that all the facts and circumstances of record in the instant case make applicable the principle announced by this court in *Tinnerman* v. *Kost*, 29 C. C. P. A. (Patents) 1259, 129 F.(2d) 725, 54 U. S. P. Q. 413, 545 O. G. 445, where we said:

> * * * It taxes credulity to believe that any inventor with the experience of appellant would have allowed his devices made in 1932 and 1937 to rest without endeavoring to secure patent protection thereon until 1939. The only reason in our opinion that appellant's application was not filed long prior to 1939 is that he did not consider the device had been so reduced to practice as to be worthy of patent protection, and regarded it as an abandoned experiment. * * *

The same reasons Schmelkes alleges prompted him to delay eight years in filing his application would also seem to explain why he failed to go to the trouble of testing his chlorinated melamine for stability. It is not illogical to conclude that when he had completed his experiments in 1932 and 1933 he was of the opinion that since in any event he would not file an application for patent on account of the unavailability and high cost of melamine, there was no necessity of further testing and developing the questions relating to its utility.

A product which would be unstable would not be of sufficient utility to be of interest to Schmelkes when he was seeking a better chlorinated compound than those already well understood and in commercial use. Therefore, we believe that the chlorinated melamine which Schmelkes claims to have produced belongs to that class of articles which require tests more comprehensive than those given by the appellee.

Schmelkes supports the position taken by the Board that the utility of a compound containing chlorine was well-known and that, his experiments having shown the active chlorine content of his compound, it would follow from this determination that a "degree of utility" at least would be inherent. The cases of *Corona Company* v. *Dovan Corporation*, 276 U. S. 358, 370 O. G. 1011, and *Kyrides* v. *Bruson*, 26 C. C. P. A. (Patents), 986, 102 F.(2d) 416, 41 U. S. P. Q. 107, 506 O. G. 6, are cited as authority for the soundness of this contention.

It must be remembered that the problem confronting Schmelkes was to find some carrier which would render the compound stable and serve for the purposes desired. The facts in this case are not on all fours with the Kyrides and Corona Company cases, supra, for reasons which would seem obvious. There are certain kinds of articles which, when made, are fully reduced to practice without the necessity for any tests because their utility in the art to which they belong is thoroughly understood. We have in mind the decision of this court in *Larson et al.* v. *Eicher*, 18 C. C. P. A. (Patents) 1497, 49 F.(2d) 1029, 9 U. S. P. Q. 461, 413 O. G. 6, where we held that there was no necessity of determining the therapeutic qualities of cod liver oil tablets because their therapeutic utility was generally understood.

[4] Neither are the facts in the instant case on all fours with the holding in *Mason* v. *Hepburn*, supra, where a complete reduction to practice had been made of a gadget and there was no possibility that it would not operate as intended. In the instant case, if melamine was of such character that when it had been chlorinated it would not be stable or if for any other reason the compound was of no use, it of course would not be a patentable article. We think, therefore, it should have been tested in the respect indicated. In this view we are supported by the case of *Whitehead* v. *Diamond*, 25 C. C. P. A. (Patents) 1357, 97 F.(2d) 604, 38 U. S. P. Q. 126, 497 O. G. 772, where this court held certain experiments insufficient to show reduction to practice because they did not show whether the yarn in question was stable in its delusterable characteristics.

In view of the statement in appellee's application and the other considerations to which attention has herein been directed, we think the reason offered by the Board for holding that a determination of the active chlorine content by tests would be sufficient and that "it would follow that a degree of utility would at least be inherent" was an erroneous conclusion.

[5] It is our view that appellee has not proved beyond a reasonable doubt that he had reduced his invention to practice prior to the said filing date of the appellants, and that the decision of the Board of Interference Examiners awarding priority to appellee was erroneous. Its decision accordingly is reversed.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,577,917, D. G. Lorraine, Method and apparatus for separating gas and oil; 1,670,728, 1,693,849, 1,620,771, same, Oil and gas separator, D. C., S. D. Calif. (Los Angeles), Doc. 805–RJ, *The Lorraine Corp.* v. *American Pipe and Steel Corp.* Bill dismissed with prejudice (notice Mar. 18, 1944).

1,620,771. (See 1,577,917.) 1,670,728. (See 1,577,917.)

1,681,033. (See Re. 20,203.)

1,693,849. (See 1,577,917.)

1,713,945, S. Bromfield, Accounting and filing system; 1,975,566, R. Bosse, Card register with cards arranged in echelons in horizontal direction; 2,192,178, same, Card registry, D. C., S. D. N. Y., Doc. 21/344, *Visual Records Corp.* v. *Visible Index Corp. et al.* Stipulation of discontinuance as to Leo T. Crowley Aug. 19, 1943. Consent order of discontinuance as to remaining defendants Mar. 18, 1944.

1,806,620, S. Flam, Vibrator mechanism, D. C., S. D. Calif. (Los Angeles), Doc. 1604–RJ, *S. Flam* v. *M. L. White et al.* Dismissed on stipulation without prejudice as to complaint and two counter-claims (notice Mar. 23, 1944).

1,893,535, M. K. Buchanan, Ice cube pan lifter; Re. 18,819, Buchanan & Horton, Refrigerating pan; 1,932,689, 1,912,065, same, Ice cube pan, appeal filed Mar. 31, 1944, C. C. A., 2d Cir., Doc. —, *Mechanical Ice Tray Corp. et al.* v. *General Motors Corp.*

1,912,065. (See 1,893,535.) 1,932,689. (See 1,893,535.)

1,933,099, H. Derman, Built up container; 2,274,048, same, Container, cabinet, and the like; 2,009,482, same, Wardrobe, closet and the like; 2,274,533, same, Door-frame for collapsible closets, C. C. A., 2d Cir., Doc. —, *H. Derman* v. *Stor-Aid, Inc., et al.* Affirmed in part and reversed in part (notice Mar. 23, 1944).

1,975,566. (See 1,713,945.)

1,990,584, N. L. Dolbey, Coating machine; 1,990,585, same, Coating process, filed Mar. 23, 1944, D. C. N. J., Doc. 3438, *Keasbey & Mattison Co. et al.* v. *Sprayed Insulation, Inc., et al.*

1,990,585. (See 1,990,584.) 2,009,482. (See 1,933,099.)

2,020,333. (See Re. 20,018.)

2,064,478. (See Re. 21,661.)

2,073,969. (See Re. 21,661.)

2,081,683, A. Solosko, Elastic attaching device; 2,097,877, S. Getmansky, Hat fastening device, D. C., S. D. N. Y., Doc. 24/175, *A. Solosko et al.* v. *R. Levine.* Order of discontinuance Mar. 18, 1944.

2,094,963. (See Re. 20,018.)

2,095,535, M. G. Swenson, Artificial tooth, filed Mar. 8, 1944, D. C. Minn. (Minneapolis), Doc. 1093, *M. G. Swenson* v. *Henry P. Boos.*

2,097,877. (See 2,081,683.)

2,108,247, P. J. Bellavance, Bracelet and method of making; 2,114,930, P. Manickas, Bracelet, C. C. A., 1st Cir., Doc. 3914, *P. J. Bellavance* v. *Frank J. Morrow Co., Inc.* Judgment of lower court is affirmed (notice Mar. 17, 1944).

2,113,595. (See Re. 21,661.)

2,114,930. (See 2,108,247.)

2,119,964. (See Re. 21,611.)

2,124,412. (See Re. 21,144.)

2,192,178. (See 1,713,945.)

2,224,873. (See Re. 21,661.)

2,232,874. (See Re. 21,661.)

2,232,875. (See Re. 21,661.)

2,274,048. (See 1,933,099.) 2,274,533. (See 1,933,099.)

2,288,585, Partee & Gray, Wood finishing apparatus; 2,341,161, same, Wood finishing, filed Mar. 30, 1944, D. C. Del., Doc. 406, *Virginia Oak Flooring Co.* v. *E. L. Bruce Co.*

2,324,526, M. R. Morgenthaler, Process for the manufacture of soluble dry extracts, filed Mar. 17, 1944, D. C., S. D. N. Y., Doc. 24/510, *Inredeco, Inc.*, v. *Heyman Process Corp.*

2,341,161. (See 2,288,585.)

Re. 18,819. (See 1,893,535.)

Re. 20,018, 2,020,333, 2,094,963, J. Sachs, Automatic circuit breaker, D. C., E. D. Mo. (St. Louis), Doc. 467, *Colt's Patent Fire Arms Mfg. Co.* v. *Frank Adam Electric Co.* Claims 9 and 11 of reissue held valid and infringed, injunction granted; claims 7 and 17 of 2,020,333 and claims 8 and 13 of 2,094,963 held invalid (notice Mar. 29, 1944).

Re. 20,202. (See Re. 20,203.)

Re. 20,203, Re. 20,202 (of 1,681,033), B. W. Freeman, Cut-out machine for shoe uppers, C. C. A., 8th Cir., Doc. 12241, *B. W. Freeman et al.* v. *A. W. Altvater et al.* Judgment of lower court affirmed Dec. 6, 1943.

Re. 21,144 (of 2,124,412), W. W. Dodge, Refrigerating lettuce and the like, D. C., N. D. Calif. (San Francisco), Doc. 21387–W, *Paterson Pacific Parchment Co.* v. *M. L. Kalich & Co.* Claims 4, 5, and 6 of reissue held invalid, and defendants have not infringed claims 1, 2, and 3 (notice Mar. 15, 1944).

Re. 21,611 (of 2,119,964), L. Reichold, Electric sadiron, C. C. A., 2d Cir., Doc. —, *The Winsted Hardware Mfg. Co.* v. *Samson-United Corp.* Decree affirmed (notice Mar. 29, 1944).

Re. 21,661, 2,232,874, C. H. Larson, Mercury switch; 2,224,873, 2,064,478, same, Mercury switch relay; 2,073,969, same, Flasher; 2,113,595, Larson & McCarthy, same; 2,232,875, Cartwright & Larson, Mercury switch relay, filed Mar. 20, 1944, D. C., E. D. Pa., Doc. 3659, *The Adlake Co. et al.* v. *H-B Electric Co., Inc.*

Des. 95,432, J. R. Jones, Food slicer, D. C., W. D. Ark. (Texarkana), Doc. 133, *J. R. Jones* v. *C. L. Montgomery et al.* Dismissed without prejudice pursuant to stipulation (notice Mar. 28, 1944).

Changes in Classification

Order No. 3,810, April 4, 1944, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *class 28, Textiles* (Division 21):

Felting
6 Machines

In *class 148, Metal Treatment* (Division 3):

Solid metal
Heat treatment
19.9 With fluid
20 Iron and its alloys
21 Liquid

CHANGE SUBCLASS TITLES

In *class 28, Textiles* (Division 21), the titles of subclasses 1, 72, and 74 should read:

1 Apparatus
72 Processes
74 With coating or dyeing

ESTABLISH SUBCLASSES

In *class 28, Textiles* (Division 21):

Warp preparation
55.2 Singeing
55.3 Clearing
Strand feeding
71.6 Cage type
71.7 Cantilever
Processes
72.2 Needling
72.3 Felting
72.5 Preparing warps
72.6 With coating, dyeing or fluid treatment

In *class 148, Metal Treatment* (Division 3):

Solid metal
Heat treatment
Iron and its alloys
21.55 With quenching

In *class 200, Electricity—Circuit Makers and Breakers* (Division 37):

Fluid pressure
81.4 Plural switch

MISCELLANEOUS CHANGES

In *class 28, Textiles*, pages 42 and 43, subclasses 2 through 5, inclusive, and 15 through 71.5, inclusive, each should be moved one step of indentation to the right, so as to place these subclasses in indented relationship under subclass 1.

In *class 43, Fishing, Trapping, and Vermin Destroying*, page 60, subclass "83.5 Automatic set" should be indented under subclass "81 Swinging striker", i. e., coordinate with "82 Direct-engaging latch".

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
28	6	28	5
148	19.9	148	13, 21.2
148	20, 21	148	21.55

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Sources	
Class	*Subclass*	*Class*	*Subclass*
28	55.2, 55.3	28	22
28	71.6, 71.7	28	71.5
28	72.2	28	4
28	72.3	28	5, 6
28	72.5, 72.6	28	22+
148	21.55	148	20, 21
200	81.4	200	81, 82, 83

IN THE DEFINITIONS:

4, Baths, Closets, Sinks, and Spittoons (Division 1)

in subclass 192, add:

Search Class—
137—WATER DISTRIBUTION, subclass 68, for liquid level control devices of general utility.
236—AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION, subclass 12, for supply control means with temperature regulation.

5, Beds (Division 8)

in the main class definition, under "(9) Search Classes", add:

272—AMUSEMENT AND EXERCISING DEVICES, subclass 58, for beds combined with or convertible to exercising devices.

8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers (Division 43)

in subclass 132.5, note 6, last paragraph, change "91" to *117*.

25, Plastic Block and Earthenware Apparatus (Division 33)

in subclass 128, add:

Search Class—
18—PLASTICS, subclass 45.
22—METAL FOUNDING, subclass 165+.

28, Textiles (Division 21)

in subclass 1, change "Inventions" to *Apparatus*;
and in the "Note.", cancel "miscellaneous";
in subclass 2, add:

Search Class—
223—APPAREL APPARATUS, subclass 46, for tassel making.;

abolish the definition of subclass 6;
in subclass 12, change "The felting being caused" to *Apparatus under subclass 11, wherein the felting is produced*;
in subclass 13, change "The felting being caused" to *Apparatus under subclass 7, wherein the felting is produced*;
in subclass 14, change "The felting being caused" to *Apparatus under subclass 5, wherein the felting is produced*;
in subclass 17, add the following note:

(1) Note.—This subclass also includes, for example, means for removing a stitching thread from a fabric.;

in subclass 36, cancel the definition and substitute:

36. Includes means responsive to the tension of the warp sheet which operates to vary the speed of rotation of the beam, usually for the purpose of maintaining the tension constant or uniform.

Search this class, subclass—
39—for other speed regulating devices.;

in subclass 39, add:

Search this class, subclass—
36—for driving mechanisms wherein the speed is responsive to the tension of the warp sheet.;

establish the following subclass definitions:

55.2. Apparatus under subclass 22 including means for subjecting the warp to the action of an open flame or an oxidizing temperature.

Search this class, subclass—
63—for other thread singeing apparatus.

Search Class—
26—TEXTILES, CLOTH FINISHING, subclass 3+, for apparatus for singeing cloth.
68—TEXTILES, FLUID TREATING APPARATUS, subclass 2, for apparatus for carbonizing lint or a portion of a textile utilizing an acid or other corrosive fluid.

55.3. Apparatus under subclass 22, including means for removing lint or other foreign matter.

Search Class—
57—TEXTILES, SPINNING, TWISTING AND TWINING, subclass 56 and see the classes referred to in the definition thereto under "Search Classes".;

in subclass 63, cancel the note, and substitute:

Search this class, subclass—
55.2—for apparatus for singeing warp sheets.

Search Class—
26—TEXTILES, CLOTH FINISHING, subclasses 3+.;

in subclasses 71.3, 71.4, and 71.5, cancel "Processes and";
in subclass 71.5, note 1, before "Search Classes", insert:

Search this class, subclass—
59.5 and 71.3+—for feeding combined with stretching.;

under "Search Classes", insert:
87—TEXTILES, BRAIDING, NETTING AND LACE MAKING, subclass 31.;

and in note 3, change "subclass takes" to *and the indented subclasses take*;
establish the following subclass definitions:

71.6. Devices under subclass 71.5, including rotatable cage like elements, the peripheries thereof having thereon or including means for axially advancing a strand spirally wrapped about the element. The periphery of the element may include axially movable belts, screws, interdigitating bar members or axially and/or radially movable bars, the usual function thereof being to render the element self-threading and/or to make the feeding automatic.

71.7. Devices under subclass 71.6 wherein some or all of the cage like elements are supported at one end only.;

in subclass 72, cancel note 1;
establish the following subclass definitions:

72.2. Processes under subclass 72 for producing fabrics either by punching fibers through a base fabric or through a bat of fibers.

Search this class, subclass—
79—for fabrics thus produced.

Search Class—
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, for needling processes which include the use of an adhesive.

72.3. Processes for entangling fibers by mechanical working.

Search this class, subclass—
79—for felted products.

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 112, for carroting compositions and processes.

72.5. Processes under subclass 72 for handling warp yarns or threads in preparation for the weaving operation.

(1) Note.—This subclass includes, for example, tying in, drawing in, pattern setting and other processes for preparing the warp for the loom.

72.6. Processes under subclass 72.2 which include coating, dyeing, or treatment with a fluid.

(1) Note.—This subclass includes, for example, warp sizing.;

in subclass 74, change "coating, dyeing or impregnating steps to *a coating or dyeing step* and add:

Search this class, subclass—
76—for textile processes, including a fluid treatment wherein the fluid employed is not a coating or dyeing composition.;

and in subclass 79, note 1, change "4" to 72.2 and change "5" to 72.3.

30, Cutlery (Division 53)

cancel the definition (but not the notes) of subclass 272, and substitute:

272. Implements under subclass 165 in which means are provided that are designed for moving the blade during hand manipulation.

(0.5) Note.—Means for fixing the blade in a desired position of adjustment, which means are not constructed or designed for operation during hand manipulation, are in appropriate following subclasses.

68, Textiles, Fluid Treating Apparatus (Divisions 2, 27)

in subclass 207, note 5, change the period (.) to *and* and add: *236, Automatic Temperature and Humidity Regulation, subclass 12.*

70, Locks (Division 20)

in subclass 63, add:

Search Class—
109—SAFES, BANK PROTECTION AND RELATED DEVICES, subclass 52, for safes combined with means to lock them to supports.
211—SUPPORTS, RACKS, subclasses 4+, for racks combined with means to lock an article thereto.
248—SUPPORTS, pertinent subclasses, especially subclasses 203 and 361, for supports combined with locks.

104, Railways (Division 34)

in subclass 112, add:

Search Class—
175—ELECTRICITY—GENERAL APPLICATIONS, subclasses 376+, for the combination of a cable and means supported thereon and movable therealong for taping or wrapping the cable.

148, Metal Treatment (Division 3)

in subclass 11.5, cancel the notes and add:

(1) Note.—The lines in general between this class (148) and the metal working classes, relative to combinations of metal working and heat treatment, are as follows:
The metal working classes take:
(1) metal working, plus an unspecified heat treatment.
(2) metal working, plus annealing broadly, where the annealing is for the purpose of relieving working stress or to facilitate working.
Class 148 takes:
(1) metal working plus a specific heat treatment, other than annealing, where the heat treatment is other than conditioning to a working temperature.
(2) metal working plus a specific annealing step.

Search this class, subclass—
2—for processes of metal working and heat treatment combined with casting.

Search Class—
219—ELECTRIC HEATING, subclasses 1+.;

in subclass 13.1, add the following note:

(1) Note.—Processes wherein conventional quenching materials are employed in the metal treatment, such as, for example, oil broadly, air or water are not classified in this or the indented subclasses, but are placed in subclasses 21.1 to 21.4, and 21.55 if the metal treated is one provided for therein, otherwise in subclass 13.;

abolish the definitions, and the notes thereto, of subclasses 19.9, 20, and 21.;
establish the following subclass definition:

21.55. Patents coming under subclass 21.5 in which the metal is quenched with a conventional medium, e. g., oil broadly, air or water, in some particular way.

(1) Note.—The term "quenching" as employed in this class denotes a rate of cooling which is equal to or greater than air cooling. The quenching medium may be a solid, liquid, gas or vapor.

Search this class, subclass—
12—for quenching combined with metal working.
14+—for processes employing a particular quenching medium.;

cancel the definition, and notes thereto, of subclass 22, and substitute:

22. Compositions employed in the treatment of solid metal and processes for preparing same when not otherwise classifiable.

(1) Note.—In this subclass are collected, for example, compositions specialized for use in masking areas of metal surface to protect said areas during the metal treatment, e. g., the use of protective paint on localized areas during carburizing or nitriding treatments.

Search Class—

106—COMPOSITIONS, COATING OR PLASTIC, for coating or plastic compositions in general.

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 5.5, for coating processes in general wherein a coating is employed as a shielding means.

252—COMPOSITIONS, subclasses 89+, particularly subclasses 100, 101, 136, 142+, for pickling compositions.

155, Chairs and Seats (Division 8)

in subclass 41, note 6, under "Search Classes", add:

272—AMUSEMENT AND EXERCISING DEVICES, subclass 58, for chairs or seats convertible to exercising devices.;

in subclass 188, note 10, in the reference to class 272, Amusement and Exercising Devices, after "etc." insert: *, and subclass 58, for chairs and seats combined with exercising devices.*

200, Electricity—Circuit Makers and Breakers (Division 37)

establish the following subclass definition:

81.4. Combinations, under subclass 81, of two or more distinct circuit makers and breakers, each having its own operating means, at least one of said operating means being responsive to pressure of a fluid or to vacuum.;

and in subclass 81.5, add:

Search this class, subclass—

81.4—for combinations of two or more distinct circuit makers and breakers, each having its own operating means, at least one of said operating means being responsive to pressure of a fluid or to vacuum.

223, Apparel Apparatus (Division 24)

in subclass 9, note 2, after "subclasses", add: *and subclass 72.3*;

and in subclass 10, note 1, change "subclasses 6 to 13" to *subclasses 5+*;

and in subclass 11, in the note, change "6" to *5*.

236, Automatic Temperature and Humidity Regulation (Division 30)

in subclass 12, add:

There are also herein devices of this subclass combined with other means to control the supply of the fluids where the combination finds no specific provision in the art class.

252, Compositions (Divisions 3 and 64)

in subclass 9, under "(3) Search Classes", insert:

102—AMMUNITION AND EXPLOSIVE DEVICES, particularly subclass 92, for such devices comprising lubricants.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 9, 1944

[VOL. 562. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 465,223. CALIFORNIA NURSERY COMPANY, Niles, Calif. Filed Nov. 23, 1943.



FOR PLANT NURSERY PRODUCTS—NAMELY, BULBS, ROSEBUSHES, ORNAMENTAL PLANTS, GRAPEVINES, FRUIT AND OTHER TREES.

Claims use since Jan. 1, 1930.

Ser. No. 465,356. CALIFORNIA NURSERY COMPANY, Niles, Calif. Filed Nov. 29, 1943.

Old Adobe

FOR PLANT NURSERY PRODUCTS—NAMELY, BULBS, ROSEBUSHES, ORNAMENTAL PLANTS, GRAPEVINES, FRUIT AND OTHER TREES.

Claims use since Nov. 8, 1943.

Ser. No. 458,321. AGICIDE LABORATORIES, INC., Milwaukee, Wis. Filed Feb. 4, 1943.

TEXSHEL

FOR FLOUR OF NUT SHELLS AND FRUIT PITS SOLD AS A RAW MATERIAL FILLER FOR PAINTS AND LACQUERS, FILLER FOR GLUE PRODUCTS, CARRIER FOR INSECTICIDES, FILLER FOR PLASTIC MANUFACTURE, ETC.

Claims use since Dec. 16, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 452,085. ANN RUSSELL, doing business as The Russell Chemical Company, Cleveland, Ohio. Filed Apr. 1, 1942.

SPARCALITE

FOR DRY CLEANING POWDER USED AS A DISH WASHING COMPOUND TO BE MIXED WITH WATER FOR THE PURPOSE OF CLEANING DISHES, SILVERWARE, AND GLASSWARE.

Claims use since Apr. 1, 1939.

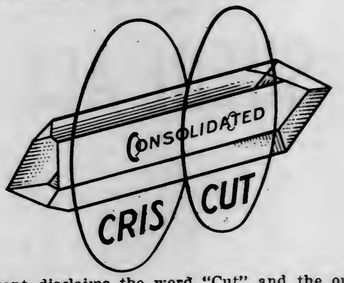
Ser. No. 462,859. SOUTHPORT PAINT COMPANY, INC., Savannah, Ga. Filed Aug. 19, 1943.



FOR AUTOMOBILE TOP DRESSINGS.

Claims use since January 1909.

Ser. No. 464,598. CONSOLIDATED DIAMOND SAW BLADE CORP., Yonkers, N. Y. Filed Nov. 2, 1943.



Applicant disclaims the word "Cut" and the outlines of the two abrasive wheels apart from the mark.

FOR DIAMOND GRINDING WHEELS, DIAMOND CUT-OFF BLADES AND DIAMOND SLICING BLADES.

Claims use since Apr. 1, 1943.

Ser. No. 466,106. THE SAVOGRAN COMPANY, Boston, Mass. Filed Dec. 27, 1943.

STERINSE

FOR CLEANING COMPOUND FOR PAINTED SURFACES, DISHWASHING AND GENERAL CLEANING.
Claims use since Feb. 8, 1944.

Ser. No. 466,707. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Jan. 19, 1944.

"PENNSALT E.C. 2"

Applicant is the owner of Reg. No. 392,195 for the mark "Pennsalt."
FOR SOLVENT EMULSION CLEANERS FOR CLEANING METAL, CERAMIC, PLASTIC, PAINTED AND LIKE SURFACES.
Claims use since July 7, 1943.

Ser. No. 466,708. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Jan. 19, 1944.

"PENNSALT E.C.10"

Applicant is the owner of Reg. 392,195 for the mark "Pennsalt."
FOR SOLVENT EMULSION CLEANERS FOR CLEANING METAL, CERAMIC, PLASTIC, PAINTED AND LIKE SURFACES.
Claims use since Aug. 10, 1943.

Ser. No. 467,376. OLD DUTCH INDUSTRIAL PRODUCTS CO., INC., Kearny, N. J. Filed Feb. 12, 1944.

SUEDE ACE

Applicant disclaims the word "Suede" apart from the mark.
FOR SHOE DRESSINGS.
Claims use since October 1942.

Ser. No. 468,133. THE BEST FOODS, INC., New York, N. Y. Filed Mar. 10, 1944.

2 IN 1

FOR LEATHER DRESSINGS AND POLISHES.
Claims use as to the trade-mark consisting of "a numeral 2 within a numeral 1" since on or about Aug. 20, 1902; and as to the mark in the particular form shown in the drawing since May 7, 1943.

Ser. No. 468,134. THE BEST FOODS, INC., New York, N. Y. Filed Mar. 10, 1944.

TWO 2 IN 1 ONE

FOR LEATHER DRESSINGS AND POLISHES.
Claims use as to the trade-marks consisting of "a numeral 2 within a numeral 1" and/or of the words "Two in One" since on or about Aug. 20, 1902; and as to the mark in the particular form shown in the drawing since May 7, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 457,192. SPERTI, INC., Cincinnati, Ohio. Filed Dec. 3, 1942.

BIO-DYNE

FOR STERILE DRESSING FOR USE IN THE TREATMENT OF BURNS AND WOUNDS.
Claims use since June 15, 1942.

Ser. No. 460,789. MAUD BOWMAN BOYD, doing business under the name M. B. Boyd Co., Oklahoma City, Okla. Filed May 21, 1943.

MILTS NUM-O-COL OINTMENT

The word "Ointment" is disclaimed apart from the mark.
FOR OINTMENT IN THE NATURE OF A COUNTER-IRRITANT FOR THE TREATMENT OF SORE THROAT, HEAD COLDS, CHEST COLDS, RHEUMATISM, INFLUENZA, PNEUMONIA, AND STRAINED MUSCLES AND JOINTS.
Claims use since Dec. 1, 1936.

Ser. No. 466,012. THE WM. S. MERRELL COMPANY, Cincinnati and Lockland Station, Cincinnati, Ohio. Filed Dec. 23, 1943.

SULFA-CEEPRYN

No claim is made to the term "Sulfa" apart from the mark.
FOR BACTERIOSTATIC AND DETERGENT LOCAL APPLICATION IN PYOGENIC, CUTANEOUS AND SUPERFICIAL INFECTIONS AND AS A PROPHYLACTIC IN HEAVILY CONTAMINATED WOUNDS.
Claims use since Nov. 30, 1943.

Ser. No. 466,554. THOMAS R. SHEARER, Verona, N. J. Filed Jan. 13, 1944.

SHEROLITE

FOR CHEMICAL COMPOSITION FOR SEALING OR WATERPROOFING CABLES, SPARK PLUGS, COILS, BATTERIES, BATTERY TERMINALS AND OTHER PARTS OF IGNITION SYSTEMS, FOR DISTRIBUTOR CAPS, ELECTRICAL CABLES AND CONNECTIONS OF AUTOMOBILES, AIRPLANES, AND OTHER MOTOR DRIVEN VEHICLES AND FOR ARTICLES OF MANUFACTURE IN THE INDUSTRIAL ARTS GENERALLY.
Claims use since May 1938.

Ser. No. 466,929. POROCEL CORPORATION, Wilmington, Del., and Philadelphia, Pa. Filed Jan. 27, 1944.

DRIOCEL

FOR BAUXITE FOR USE AS AN ADSORBENT MATERIAL.
Claims use since Jan. 5, 1944.

Ser. No. 467,423. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1944.

AMO

The drawing is lined for blue.
FOR ANTI-FREEZING LIQUIDS.
Claims use since Oct. 11, 1943.

Ser. No. 467,464. JAMES TOM O'STEEN, doing business as Ots Relief Co., Wichita Falls, Tex. Filed Feb. 16, 1944.

OTS

FOR PREPARATION FOR TREATMENT OF PILES AND HEMORRHOIDS.
Claims use since Jan. 18, 1944.

Ser. No. 467,478. VALENTINE LABORATORIES, INC., Chicago, Ill. Filed Feb. 16, 1944.

BERITE

FOR VITAMIN PREPARATION FOR INTERNAL USE FOR TREATMENT OF VITAMIN DEFICIENCY.
Claims use since Feb. 9, 1944.

Ser. No. 467,501. STAUFFER CHEMICAL COMPANY, San Francisco, Calif., and New York, N. Y. Filed Feb. 17, 1944.

3 Magnetic MICRON Measured

The numeral "3" and the words "Micron" and "Measured" are disclaimed apart from the mark.
FOR SULPHUR.
Claims use since Apr. 5, 1941.

Ser. No. 467,503. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Feb. 17, 1944.

LODE

FOR PETROLEUM COMPOSITION, SOMEWHAT COMPARABLE TO MINERAL RUBBER FOR USE IN COMPOUNDING SYNTHETIC RUBBERS.
Claims use since Jan. 26, 1944.

Ser. No. 467,700. I. THOMAS REAMER, doing business as Reaco Products, Durham, N. C. Filed Feb. 23, 1944.

A. E. P.

FOR MEDICINAL PREPARATION FOR ASTHMA.
Claims use since Nov. 15, 1943.

Ser. No. 467,712. THE BOVININE COMPANY, Chicago, Ill. Filed Feb. 24, 1944.



FOR HEMATOGENS.
Claims use since May 19, 1943, for the design; and since Jan. 27, 1944, for mark as shown.

Ser. No. 467,775. WILLIAM R. WARNER & Co. INC., Wilmington, Del., and New York, N. Y. Filed Feb. 25, 1944.

UNIGEL

FOR MEDICINAL PREPARATIONS FOR THE RATIONAL CONTROL OF GASTRO-INTESTINAL HYPER ACIDITY.
Claims use since Feb. 11, 1944.

Ser. No. 467,794. SHELL UNION OIL CORPORATION, San Francisco, Calif. Filed Feb. 26, 1944.

D-D

FOR SOIL FUMIGANT.
Claims use since Jan. 21, 1944.

Ser. No. 467,804. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Feb. 28, 1944.

DUSTORITE

FOR POWDER USED IN THE PRINTING INDUSTRY TO PRESERVE BLANKETS AND TO ABSORB GREASES AND OILS WHICH MAY HAVE PENETRATED INTO THE BLANKETS.
Claims use since Nov. 20, 1940.

Ser. No. 467,806. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Feb. 28, 1944.

SEALORITE

FOR POWDER THAT IS APPLIED TO A LITHOGRAPHIC PLATE TO PREVENT SPREADING OF THE IMAGE.
Claims use since Nov. 20, 1940.

Ser. No. 467,830. WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed Feb. 28, 1944.

BETAROID

FOR VITAMINS AND VITAMIN COMBINATIONS.
Claims use since April 1943.

Ser. No. 467,844. FORREST INCORPORATED, New York, N. Y. Filed Feb. 29, 1944.

HEM-RON

FOR PREPARATION FOR USE IN THE THERAPY OF NUTRITIONAL AND SECONDARY ANEMIAS.
Claims use since Feb. 25, 1944.

Ser. No. 467,860. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa. Filed Feb. 29, 1944.

DIAPERM

FOR TEXTILE FINISHES.
Claims use since November 1940.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 462,949. HOSDREG CHEMICALS, INC., Huntington, Ind. Filed Aug. 23, 1943.

PLAST-X

FOR CAULKING AND PATCHING COMPOUNDS.
Claims use since May 1, 1943.

Ser. No. 464,834. HAL STONEBRAKER, doing business as Technicut Wood Products Co., Overland Park, Kans. Filed Nov. 8, 1943.

TECHNICUT

FOR PORTABLE SECTIONAL DWELLINGS, GARAGES, BARNS, HANGARS, WAREHOUSES, BARRACKS, OFFICE BUILDINGS, COOPS AND KENNELS AND PARTS THEREOF, AND DRESSED WOOD STOCK FOR MAKING SHELVES.
Claims use since 1938.

Ser. No. 465,994. THE SULLIVAN COMPANY, Memphis, Tenn. Filed Dec. 22, 1943.

AQUA BOND

FOR LIQUID ANTI-STRIP COMPOUND FOR BITUMINOUS MIXES, SOIL STABILIZATION AND FLOOR AND ROAD REPAIRS.
Claims use since July 3, 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 459,065. AUDUBON WIRE CLOTH CORPORATION, Philadelphia, Pa. Filed Mar. 13, 1943.

UNIVERSAL

FOR WIRE FABRIC FOR MAKING BELTS AND CONVEYORS AND FOR OTHER PURPOSES.
Claims use since Apr. 30, 1937.

Ser. No. 466,993. THE KITCHEN MAID CORPORATION, Andrews, Ind. Filed Jan. 29, 1944.

KITCHEN MAID

Applicant is owner of T. M. Reg. Nos. 103,403, 173,816, 228,643, 228,776, and 229,229, all involving the mark "Kitchen Maid."
FOR KITCHEN SINK TOPS.
Claims use since July 1, 1932.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 467,009. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Jan. 29, 1944.

HIPERCO

FOR MAGNETIC METAL ALLOYS.
Claims use since Dec. 1, 1943.

CLASS 15

OILS AND GREASES

Ser. No. 462,872. MANUEL ONTANON DELGADO, Anahuac Colony, Mexico City, Mexico. Filed Aug. 20, 1943.

1-2-3

FOR LUBRICATING OILS AND GREASES.
Claims use since June 2, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 466,250. ANSBACHER-SIEGLE CORPORATION, Brooklyn, N. Y. Filed Jan. 1, 1944.

RESINIDE

FOR RESINOUS MATERIALS FOR USE IN ENAMELS, LACQUERS, VARNISHES, AND PAINTS, SAID RESINOUS MATERIALS PROVIDING IN THE CLASS OF GOODS DESCRIBED A FILM CHARACTERIZED BY RAPID DRYING, IMPROVED DURABILITY AND STABILITY TO REAGENTS AND MECHANICAL OR THERMAL SHOCK AND IMPROVED ADHESION.
Claims use since Apr. 30, 1943.

Ser. No. 467,031. GEM PRODUCTS, INC., Milwaukee, Wis. Filed Jan. 31, 1944.

SPRUSUP

FOR OIL TYPE FURNITURE POLISH, WHITE EMULSION FURNITURE POLISH, YELLOW EMULSION FURNITURE POLISH, WOOD-WORK SCRATCH REMOVER AND TOUCH-UP POLISH, SELF-POLISHING WATER EMULSION WAX, LIQUID POLISHING WAX, POWDERED DANCE WAX, AND PASTE POLISHING WAX.
Claims use since Jan. 26, 1944.

Ser. No. 467,334. EDGAR W. CLUTE, doing business as E & E Hobby Suppy Shop, Chicago, Ill. Filed Feb. 11, 1944.

MODELOID

FOR DOPE IN THE NATURE OF PAINT, THINNER FOR PAINTS AND LACQUERS, PAINTS, LACQUERS, AND SOLVENTS FOR PAINTS AND LACQUERS.
Claims use since Sept. 15, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 465,976. CROWE NAME PLATE & MANUFACTURING CO., Chicago, Ill. Filed Dec. 22, 1943.

CRONAME

FOR ELECTRICAL INSTRUMENT PANELS, DIAL SCALES FOR RADIO TUNING, TUNING CONTROLS FOR RADIO TUNING AND KNOBS FOR RADIO TUNING CONTROLS.
Claims use since March 1942.

Ser. No. 466,041. THE EDWIN F. GUTH COMPANY, St. Louis, Mo. Filed Dec. 24, 1943.

ELITE-TRONICS

FOR ELECTRIC LIGHTING FIXTURES FOR FLUORESCENT LAMPS.
Claims use since Nov. 8, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 466,997. DAVID LEVINE, doing business as Plating Equipment & Supply Company, New York, N. Y. Filed Jan. 29, 1944.

PLACO

FOR PLATING AND POLISHING MACHINES AND PARTS THEREOF.
Claims use since Jan. 5, 1942.

Ser. No. 467,616. PARAGON GEAR WORKS, INC., Taunton, Mass. Filed Feb. 21, 1944.

PARAGON

FOR TRANSMISSION GEARS, REVERSE GEARS, REDUCTION GEARS, AND CLUTCHES.
Claims use since Dec. 19, 1907.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 462,875. MANUEL ONTANON DELGADO, Anahuac Colony, Mexico City, Mexico. Filed Aug. 20, 1943.

1-2-3

FOR LAUNDRY WASHING MACHINES.
Claims use since June 2, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 464,960. ATLANTIC ELEVATOR COMPANY, Philadelphia, Pa. Filed Nov. 13, 1943.

AUTODYNE

FOR ELECTRICAL APPARATUS FOR AUTOMATIC SERVICE SETTING OF PROJECTILE FUSES RESPONSIVELY TO REMOTE CONTROL, AND AUTOMATIC ELECTRIC REMOTE CONTROL APPARATUS FOR THE OPERATION OF FUSE SETTING MECHANISMS AND FOR LIKE CONTROL OF COORDINATING MECHANISM FOR CONTROLLING, ARRESTING AND POSITIONING OF MOVABLE AND TRAVELING OBJECTS, SUCH AS ELEVATORS, GUNS AND OTHER ORDNANCE.
Claims use since June 15, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 433,859. HAMILTON WATCH COMPANY, Lancaster, Pa. Filed July 11, 1940.

CORAL

FOR WATCHES, WATCH CASES, WATCH DIALS, WATCH PARTS, AND WRIST WATCHES WITH BRACELETS ATTACHED.
Claims use since Oct. 23, 1939.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 464,762. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y. Filed Nov. 5, 1943.

THE GRACEFUL THREE

FOR BROOCHES, BRACELETS, NECKLACES, LAVALIERES, PENDANTS, AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES.
Claims use since August 1943.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 468,120. MEYERS MANUFACTURING CO., Minneapolis, Minn. Filed Mar. 9, 1944.

HI-HO

FOR NURSERY CHAIR SWINGS.
Claims use since Mar. 1, 1944.

CLASS 37

PAPER AND STATIONERY

Ser. No. 448,728. GILBERT SYSTEM HOTELS, INC., Jacksonville, Fla. Filed Nov. 18, 1941.



FOR LETTER HEADS, PRINTED ENVELOPES, BLOTTERS, AND PRINTED BLANK FORMS FOR HOTEL USE, IN THE NATURE OF MEMORANDUM BLANKS, RECORD FORMS, CALL SHEETS, ETC., SOLD TO HOTELS AFFILIATED WITH APPLICANT IN DIFFERENT STATES OF THE UNITED STATES.
Claims use since 1931.

Ser. No. 462,672. REMINGTON RAND INC., Buffalo, N. Y. Filed Aug. 11, 1943.

STENALITH

FOR STENCILS AND DUPLICATING PAPER.
Claims use since Dec. 27, 1940.

Ser. No. 467,409. STANFORD STANLEY, doing business as Mutual Publishers, New York, N. Y. Filed Feb. 14, 1944.

No. J-6

Applicant disclaims the abbreviation "No." apart from the mark.
FOR BLANK PAYROLL BOOKS USED AS GUIDES TO SOCIAL SECURITY AND WITHHOLDING TAX RECORDS.
Claims use since Oct. 1, 1936.

Ser. No. 467,524. JOSEPH M. KATZ, Pittsburgh, Pa. Filed Feb. 18, 1944.

Capistrano DECKLE

The word "Deckle" is disclaimed apart from the mark.
FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES.
Claims use since Feb. 1, 1944.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 458,864. HIT PARADE, INC., New York, N. Y. Filed Mar. 2, 1943.



The word "Hit" is disclaimed apart from the mark.
FOR ADVERTISING POSTERS SOLD AS SUCH.
Claims use since Feb. 23, 1943.

Ser. No. 464,113. MCGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 13, 1943. Under 10-year proviso.

ENGINEERING AND MINING JOURNAL

FOR MAGAZINES PUBLISHED PERIODICALLY.
Claims use since 1866.

Ser. No. 467,567. WILLIAM F. HOLLAND, doing business as W. F. Holland Agency, Cincinnati, Ohio. Filed Feb. 19, 1944.

Kiddie Kwips

FOR PUBLISHED COMIC PICTURES.
Claims use since Oct. 13, 1943.

Ser. No. 467,715. THE CROSLEY CORPORATION, Cincinnati, Ohio. Filed Feb. 24, 1944.

TIME CLOCKED NEWS

Applicant disclaims the word "News" except as shown.
FOR RADIO SCRIPTS PUBLISHED IN A CONTINUING SERIES AND SOLD AS PUBLICATIONS.
Claims use since Jan. 29, 1944.

Ser. No. 467,932. TRIBUNE COMPANY, Chicago, Ill. Filed Mar. 2, 1944.

Oh, Yeah?

FOR SERIES OF CARTOONS.
Claims use since Feb. 22, 1943.

Ser. No. 467,965. THE CROWELL-COLLIER PUBLISHING COMPANY, New York, N. Y. Filed Mar. 4, 1944.

VICTORY

FOR PERIODICAL PUBLICATION CONTAINING EDUCATIONAL, CULTURAL, AND INFORMATIVE MATERIAL OF NATIONAL, FOREIGN, AND INTERNATIONAL INTEREST.
Claims use since November 1942.

Ser. No. 468,107. GEORGE H. BLOOM, doing business as The Eldonar Company, New York, N. Y. Filed Mar. 9, 1944.

"TYM-A-DAYT"

FOR CALENDARS.
Claims use since Mar. 6, 1944.

Ser. No. 468,136. CALLING ALL GIRLS, INC., New York, N. Y. Filed Mar. 10, 1944.

Let's Talk Things Over

FOR SECTION IN A MONTHLY MAGAZINE.
Claims use since May 1942.

Ser. No. 468,169. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Mar. 10, 1944.

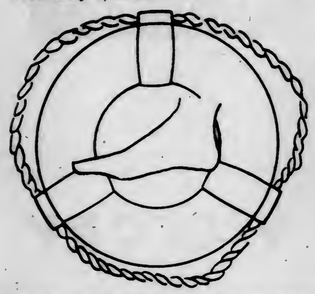
Air Ace

FOR MAGAZINE.
Claims use since July 1, 1943.

CLASS 39

CLOTHING

Ser. No. 460,465. AIR-KUSHIN SHOES, INC., Cincinnati, Ohio. Filed May 7, 1943.



FOR WOMEN'S SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Mar. 17, 1943.

Ser. No. 466,843. LAMM BROTHERS, INC., Baltimore, Md. Filed Jan. 24, 1944.

PITCHSHOULDER

FOR OVERCOATS, RAINCOATS, TOPCOATS, SUIT COATS, AND SPORT COATS.
Claims use since Dec. 12, 1943.

Ser. No. 467,084. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C. Filed Feb. 1, 1944.



NORTHERN PLAINS INDIANS CRAFTS ASSOCIATION

Applicant disclaims the phrase "Crafts Association" except as shown.
FOR GARMENT BELTS, COLLAR AND CUFF SETS, COSTUMES, LEATHER GLOVES, HATS, HEADDRESSES, WAR BONNETS, AND JACKETS.
Claims use since Aug. 25, 1943.

Ser. No. 467,912. BIENARD-GREENE, INC., New York, N. Y. Filed Mar. 2, 1944.

Styled by Hargré

The words "Styled by" are disclaimed apart from the mark.
FOR LADIES' AND MISSES' SLACKS, DRESSES, BLOUSES, SKIRTS, JACKETS, COATS AND SUITS.
Claims use since Nov. 18, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 463,067. J. EMSLEY & COMPANY LIMITED, Bradford, England. Filed Aug. 28, 1943.

EMSFORD

FOR PIECE GOODS WHOLLY OR PRINCIPALLY OF WOOL, WORSTED, HAIR, COTTON, SILK, LINEN, RAYON, OR NYLON.
Claims use since Feb. 25, 1939.

Ser. No. 465,928. PRINCETON SILK CO., New York, N. Y. Filed Dec. 20, 1943.

Tanbro

FOR RAYON PIECE GOODS.
Claims use since Dec. 1, 1943.

Ser. No. 466,505. MARVLO FABRICS, INC., New York, N. Y. Filed Jan. 12, 1944.

14 KARAT COLORS

The word "Colors" is disclaimed apart from the mark.
FOR PIECE GOODS OF COTTON, LINEN, SILK, AND RAYON.
Claims use since Dec. 10, 1943.

Ser. No. 466,665. ASSOCIATED LACE CORPORATION, New York, N. Y. Filed Jan. 18, 1944.

ALCOR

FOR SHIFFLI EMBROIDERED LACES IN THE PIECE, AND SHIFFLI EMBROIDERED MEDALLIONS.
Claims use since Jan. 2, 1940.

Ser. No. 467,594. CREST FABRICS CORP., New York, N. Y. Filed Feb. 21, 1944.

LANDMARK

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since June 3, 1941.

Ser. No. 468,000. CREST FABRICS CORP., New York, N. Y. Filed Mar. 6, 1944.

STYLECREST

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since June 3, 1941.

Ser. No. 468,001. CREST FABRICS CORP., New York, N. Y. Filed Mar. 6, 1944.

SUN-KING

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since June 3, 1941.

Ser. No. 468,045. WESLEY SIMPSON INC., New York, N. Y. Filed Mar. 7, 1944.

SHOO SHOO

FOR WOOLEN PIECE GOODS.
Claims use since December 1943.

CLASS 43

THREAD AND YARN

Ser. No. 466,358. NATIONAL PLASTIC PRODUCTS COMPANY, Odenton, Md. Filed Jan. 6, 1944.



FOR THREAD AND YARN COMPOSED OF PLASTIC FILAMENTS AND PLASTIC WIRE-LIKE FILAMENTS.
Claims use since May 1, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 467,613. MELVIN R. METZGER, Richmond, Ind. Filed Feb. 21, 1944.

LIC-RICH

The word "Rich" is disclaimed apart from the mark.
FOR NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since July 20, 1939.

Ser. No. 467,883. FOOD FAIR STORES, INC., Philadelphia, Pa. Filed Mar. 1, 1944.

MIDTOWN Club

FOR CARBONATED, NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS USED IN MAKING THE SAME.
Claims use since Dec. 17, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 462,306. DEER PARK BAKING CO., INC., Chicago, Ill. Filed July 26, 1943.

Scandia

The applicant is now the owner of registration No. 255,923.
FOR COOKIES OF VARIOUS TYPES AND SHAPES.
Claims use since Apr. 18, 1929.

Ser. No. 464,643. GENE BRENDLIN, San Luis Obispo, Calif. Filed Nov. 3, 1943.



No claim is made to the representation of the label apart from the mark.
FOR FRESH VEGETABLES.
Claims use since Aug. 15, 1943.

Ser. No. 465,592. MAX AMS, INC., New York, N. Y. Filed Dec. 7, 1943.

BERRYLADE

Applicant is the owner of trade-mark certificate No. 403,642, granted Oct. 5, 1943.
FOR FRUIT JAM.
Claims use since Nov. 2, 1943.

Ser. No. 465,595. MAX AMS, INC., New York, N. Y. Filed Dec. 7, 1943.

VITA-PRUNE

Applicant disclaims the notation "Prune" separately from the mark.
FOR PRUNE JUICE, PRUNE CONCENTRATE, AND PRUNE BUTTER.
Claims use since Nov. 2, 1943.

Ser. No. 466,442. HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Territory of Hawaii and San Francisco, Calif. Filed Jan. 10, 1944.

B-IZ

No claim is made to the letter "B" apart from the mark.
FOR CANDY.
Claims use since Dec. 1, 1943.

Ser. No. 466,611. ROBERT FIERRO, Martinsburg, W. Va. Filed Jan. 15, 1944.



The drawing is lined for red.
FOR FRESH DECIDUOUS FRUITS.
Claims use since Sept. 8, 1943.

Ser. No. 466,612. THOMAS SLADE GORTON, JR., doing business as Slade Gorton Company, Chicago, Ill. Filed Jan. 15, 1944.

ICYBAY
FISH FRYER

Applicant is the owner of trade-mark registrations Nos. 360,973 and 299,405, both of which include the word "Icybay." Applicant disclaims the words "Fish Fryer" except as shown.
FOR SPECIALLY PREPARED FRESH FROZEN FISH FOR EDIBLE PURPOSES.
Claims use since Sept. 15, 1942.

Ser. No. 466,983. COOPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Ithaca, New York. Filed Jan. 29, 1944.

NorEast

FOR CANNED PORK AND BEANS.
Claims use since Nov. 13, 1943.

Ser. No. 467,115. SWIFT AND COMPANY, Chicago, Ill. Filed Feb. 2, 1944.

Swiftee

FOR DEHYDRATED SOUP BONE STOCK AND MEAT EXTRACT.
Claims use since Dec. 10, 1943.

Ser. No. 467,192. HANLEY & KINSELLA COFFEE & SPICE COMPANY, St. Louis, Mo. Filed Feb. 5, 1944.



Planter's House

FOR COFFEE.
Claims use since June 25, 1914.

Ser. No. 467,457. THE LA FAYETTE PACKING COMPANY, Rockland, Maine, and New York, N. Y. Filed Feb. 16, 1944.

PRINCESS



MEBROUKA

The portrait is fanciful.
FOR CANNED SARDINES.
Claims use since Dec. 24, 1943.

Ser. No. 467,494. LA VICTORIA, S. A., San Luis Potosi, Mexico. Filed Feb. 17, 1944.



NEGRITO

The word "Anis" is disclaimed apart from the mark.
FOR CHEWING GUM.
Claims use since January 1932.

Ser. No. 467,934. COOPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Ithaca, N. Y. Filed Mar. 3, 1944. Under the act of February 20, 1905, as amended June 10, 1938.

BIG RED

FOR DOG FOOD.
Claims use since Sept. 14, 1942.

Ser. No. 467,935. COOPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Ithaca, N. Y. Filed Mar. 3, 1944. Under the act of February 20, 1905, as amended June 10, 1938.

Yorkwin

FOR CANNED VEGETABLES, KETCHUP, AND TOMATO JUICE.
Claims use since Feb. 12, 1943.

Ser. No. 467,991. R. B. WILSON, doing business as R. B. Wilson Co., Brawley, Calif., and Phoenix, Ariz. Filed Mar. 4, 1944.

"Victory with Vitamins"

VIC

No claim is made to the word "Vitamins" apart from the mark.
FOR FRESH VEGETABLES.
Claims use since Feb. 11, 1944.

Ser. No. 467,992. R. B. WILSON, doing business as R. B. Wilson Co., Brawley, Calif., and Phoenix, Ariz. Filed Mar. 4, 1944.



The picture is fanciful. No claim is made to the representation of the vegetables.
FOR FRESH VEGETABLES.
Claims use since Feb. 11, 1944.

CLASS 47

WINES

Ser. No. 466,819. ANTONIO ANTONACCI, doing business as Antonacci Wine Company, Hoboken, N. J. Filed Jan. 24, 1944.

MARGHERITA



The portrait is fanciful.
FOR WINES.
Claims use since 1937.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 467,336. G. HEILEMAN BREWING CO., La Crosse, Wis. Filed Feb. 11, 1944.

"BIG HOMER"

FOR BEER.
Claims use since Jan. 15, 1944.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 428,152. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Feb. 2, 1940.

COBBS

FOR WHISKEY, GIN, RUM, BRANDY, ALCOHOLIC CORDIALS.
Claims use since Sept. 7, 1934.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 9, 1944

406,895. SOUR PICKLES, SWEET PICKLES, DILL PICKLES, SWEET PICKLE RELISH, SPICED PICKLE RELISH, HOT PICKLE RELISH, PICKLE SAUCES FOR FOODS. T. L. BRICE, doing business as T. L. Brice Company, Sherman, Tex.
Filed May 20, 1941. Serial No. 443,711. PUBLISHED FEBRUARY 29. 1944. Class 46.

406,896. CAPSULES FOR A PREPARATION FOR THE TREATMENT OF ANEMIA. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed March 16, 1942. Serial No. 451,655. PUBLISHED MAY 11, 1943. Class 6.

406,897. LIVE CATTLE, HORSES, AND SHEEP FOR USE AS FOOD. CHARLES SPONSEL, Albuquerque, N. Mex.
Filed September 14, 1942. Serial No. 455,520. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,898. HAND CLEANSER, ETC. IRENE BLAKE COSMETICS, INC., also doing business as "Irene Blake," New York, N. Y.
Filed September 17, 1942. Serial No. 455,588. PUBLISHED JANUARY 26, 1943. Class 4.

406,899. FLUIDS USED IN COOLING METAL DURING CUTTING OPERATIONS, SPECIFICALLY OILS OF VARIOUS VISCOSITIES AND VARIOUS CHEMICAL MAKEUP. GRAY-MILLS CO., Chicago, Ill.
Filed October 12, 1942. Serial No. 456,143. PUBLISHED FEBRUARY 29, 1944. Class 15.

406,900. ABRASIVE AND GRINDING WHEELS. BAY STATE ABRASIVE PRODUCTS COMPANY, Westboro, Mass.
Filed December 28, 1942. Serial No. 457,623. PUBLISHED FEBRUARY 29, 1944. Class 4.

406,901. LIQUID FLOOR SEALING COMPOUND IN THE NATURE OF A VARNISH. MASURY-YOUNG COMPANY, Charlestown, Mass.
Filed January 12, 1943. Serial No. 457,880. PUBLISHED FEBRUARY 29, 1944. Class 16.

406,902. CITRUS FRUIT JUICES. JAMES L. WINSLOW, San Antonio, Tex.
Filed January 28, 1943. Serial No. 458,214. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,903. TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS AND STRIPS. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y.
Filed February 2, 1943. Serial No. 458,306. PUBLISHED FEBRUARY 29, 1944. Class 14.

406,904. LIQUID HERB AND VEGETABLE COMPOUND MEDICAL PREPARATION FOR THE RESTORING AND BUILDING UP OF THE BLOOD AND GENERAL BUILDING UP OF THE VITALITY OF THE BODY. THEODOROS S. DOGGANIOTIS, Newburgh, N. Y.
Filed March 16, 1943. Serial No. 459,148. PUBLISHED DECEMBER 7, 1943. Class 6.

406,905. MAGNIFYING LENS MOUNTINGS. EUGENE W. PIKE, doing business as E. W. Pike & Company, Elizabeth, N. J.
Filed May 29, 1943. Serial No. 461,024. PUBLISHED FEBRUARY 29, 1944. Class 26.

406,906. SAUSAGE; BOLOGNA; CANNED OR PRESERVED FRUITS, VEGETABLES, FISH; BEEF, AND TONGUE. LLOBERA Y COMPAÑIA, S. EN C., Habana, Cuba.
Filed June 4, 1943. Serial No. 461,143. PUBLISHED SEPTEMBER 7, 1943. Class 46.

406,907. FINISHED PRINTING PLATES. INTAGLIO SERVICE CORPORATION, New York, N. Y.
Filed June 11, 1943. Serial No. 461,782. PUBLISHED JANUARY 18, 1944. Class 50.

406,908. DUPLICATING PAPER. OLD TOWN RIBBON & CARBON CO. INC., Brooklyn, N. Y.
Filed July 2, 1943. Serial No. 461,825. PUBLISHED OCTOBER 19, 1943. Class 37.

406,909. POWER TRANSMISSION BELTS. L. H. GILMER CO., Tacony, Pa.
Filed August 30, 1943. Serial No. 463,093. PUBLISHED FEBRUARY 29, 1944. Class 35.

406,910. PIGMENT PAPER IN THE NATURE OF INSENSITIVE PRINTING PAPER. MAX MCGRAW, doing business as McGraw Colorgraph Company, Chicago, Ill.
Filed September 7, 1943. Serial No. 463,263. PUBLISHED FEBRUARY 29, 1944. Class 37.

406,911. TIN COATED SHEET METAL. CARNEGIE-ILLINOIS STEEL CORPORATION, Pittsburgh, Pa.
Filed September 10, 1943. Serial No. 463,312. PUBLISHED FEBRUARY 22, 1944. Class 14.

406,912. LIQUID SPOT REMOVER. LIONEL H. SECCOMBE, doing business as L. H. Seccombe & Sons, Ansonia, Conn.
Filed September 10, 1943. Serial No. 463,333. PUBLISHED FEBRUARY 29, 1944. Class 4.

406,913. GLUE AND A HIDE GLUE WITH ADDED CHEMICALS TO GIVE THE PRODUCT A HIGHER MELTING POINT. SWIFT AND COMPANY, Chicago, Ill.
Filed September 22, 1943. Serial No. 463,592. PUBLISHED FEBRUARY 29, 1944. Class 5.

406,914. WRITING INKS. SANFORD INK COMPANY, Chicago, Ill.
Filed September 24, 1943. Serial No. 463,633. PUBLISHED JANUARY 25, 1944. Class 11.

406,915. LACQUERS, PAINTS, IN PASTE AND READY-MIXED FORMS, VARNISHES, STAINS, AND PASTE WOOD OR METAL FILLERS. RELIANCE VARNISH COMPANY, INC., Louisville, Ky.
Filed September 27, 1943. Serial No. 463,708. PUBLISHED FEBRUARY 22, 1944. Class 16.

406,916. SURGICAL DRESSINGS. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed September 28, 1943. Serial No. 463,735. PUBLISHED NOVEMBER 30, 1943. Class 44.

406,917. PERFUME, TOILET WATER, AND EAU DE COLOGNE. BERGERE PERFUME COMPANY, doing business under the name "Bergere," New York, N. Y.
Filed September 30, 1943. Serial No. 463,770. PUBLISHED DECEMBER 21, 1943. Class 6.

406,918. PENETRATING FLOOR VARNISH CONTAINING GUMS, RESINS, AND OILS. ACME CHEMICAL COMPANY, Milwaukee, Wis.
Filed October 4, 1943. Serial No. 463,858. PUBLISHED FEBRUARY 22, 1944. Class 16.

406,919. CLEANING AND CLEANSING MATERIALS COMPRISING DRY SOLUBLE ALKALINE POWDERS, ETC. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich.
Filed October 14, 1943. Serial No. 464,153. PUBLISHED FEBRUARY 29, 1944. Class 4.

406,920. SUBSTANCES HAVING DI-ELECTRIC INSULATING CHARACTERISTICS—NAMELY, VARNISH, LACQUER, INSULATING COMPOUNDS, SATURANTS, AND IMPREGNANTS. JAMES L. BERNARD, JR., doing business as Communication Products Company, Newark, N. J.
Filed October 21, 1943. Serial No. 464,301. PUBLISHED FEBRUARY 29, 1944. Class 21.

406,921. CHEMICAL COMPOSITION FOR USE IN THE TREATMENT OF NON-FERROUS METAL SURFACES TO INCREASE THEIR RESISTANCE TO CORROSION. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa.
Filed October 22, 1943. Serial No. 464,331. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,922. HOUSEHOLD REFRIGERATORS. STEWART-WARNER CORPORATION, Chicago, Ill.
Filed January 1, 1944. Serial No. 466,268. PUBLISHED FEBRUARY 29, 1944. Class 31.

406,923. TOY CONSISTING OF A MINIATURE PARATROOPER WITH A PARACHUTE ATTACHED. ELVY KALEP, New York, N. Y.
Filed January 5, 1944. Serial No. 466,327. PUBLISHED FEBRUARY 29, 1944. Class 22.

406,924. TOY CONSISTING OF A MINIATURE PARATROOPER WITH A PARACHUTE ATTACHED. ELVY KALEP, New York, N. Y.
Filed January 5, 1944. Serial No. 466,328. PUBLISHED FEBRUARY 29, 1944. Class 22.

406,925. CANNED SALMON. KARL DEHN, doing business as Dehn & Co., Seattle, Wash.
Filed January 10, 1944. Serial No. 466,433. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,926. CANNED SALMON. KARL DEHN, doing business as Dehn & Co., Seattle, Wash.
Filed January 10, 1944. Serial No. 466,434. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,927. JEWELRY CLIPS, BROOCHES, BRACELETS NOT INCLUDING WATCHES, LOCKETS, AND EAR RINGS MADE IN WHOLE OR COMBINATIONS OF CERAMIC, LUCITE, AND "PLEXIGLASS." ELZAC CALIFORNIA JEWELRY CREATIONS, Los Angeles, Calif.
Filed November 2, 1943. Serial No. 464,604. PUBLISHED FEBRUARY 29, 1944. Class 28.

406,928. COMPOSITION FOR FAT-LIQUORING LEATHER. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,668. PUBLISHED FEBRUARY 22, 1944. Class 4.

406,929. PUTTY AND GLAZING COMPOUNDS. THE DICKS-PONTIUS COMPANY, Dayton, Ohio.
Filed November 4, 1943. Serial No. 464,692. PUBLISHED FEBRUARY 22, 1944. Class 16.

406,930. DRY PAINTS, READY MIXED PAINTS, VARNISHES, PAINT ENAMELS, STAINS AND PAINT OILS. THE BISHOP-CONKLIN COMPANY, Los Angeles, Calif.
Filed November 5, 1943. Serial No. 464,742. PUBLISHED FEBRUARY 22, 1944. Class 16.

406,931. RESINOUS MATERIALS SUITABLE FOR USE IN RUBBER OR SYNTHETIC RUBBER COMPOSITIONS AS AN AGE RESISTOR. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed November 8, 1943. Serial No. 464,815. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,932. LUBRICATING OILS. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed November 8, 1943. Serial No. 464,832. PUBLISHED FEBRUARY 29, 1944. Class 15.

406,933. MEDICAL COMPOUNDS FOR RELIEVING ITCHING OF THE SCALP; IN SOME CASES CHECKING OF DANDRUFF AND FALLING HAIR; AND ALSO FOR SOOTHING CHAFED SKIN DUE TO PERSPIRATION. ALFRED R. ESMIZ, doing business as The Vandol Products Company, Highland Park, Ill.
Filed November 12, 1943. Serial No. 464,941. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,934. ORNAMENTAL DOLLS—NAMELY, BOUDOIR DOLLS. JOHN BAYARD STEVENS, Riverside, Ill.
Filed November 13, 1943. Serial No. 464,983. PUBLISHED FEBRUARY 29, 1944. Class 50.

406,935. SELF-LUMINOUS, NON-COLORED, FLUID PIGMENT COATING COMPOSITION. LUNEX COMPANY, Davenport, Iowa.
Filed November 15, 1943. Serial No. 465,001. PUBLISHED FEBRUARY 15, 1944. Class 16.

406,936. NON-GREASY PROTECTIVE SKIN CREAM FOR USE AS A PROTECTION AGAINST DIRT, GRIME, PAINT, VEGETABLE AND OTHER STAINS. THE SKAT COMPANY, Hartford, Conn.
Filed November 16, 1943. Serial No. 465,050. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,937. DEMAGNETIZING APPARATUS FOR MAGNETIC CHUCKS AND WORKPIECES THEREON. LEO F. LITTWIN, doing business as Electro-Matic Products Company, Chicago, Ill.
Filed November 22, 1943. Serial No. 465,204. PUBLISHED FEBRUARY 29, 1944. Class 21.

406,938. IMPRINTED CARDS HAVING BLANK SPACE TO BE FILLED IN, ENVELOPES, ALBUMS, BLOTTERS, DIARIES, NOTE BOOKS, ETC. MUTUAL SAMPLE CARD CORPORATION, New York, N. Y.
Filed November 22, 1943. Serial No. 465,205. PUBLISHED FEBRUARY 29, 1944. Class 37.

406,939. SOFT DUSTING BRUSHES FOR DELICATE LABORATORY EQUIPMENT. THE VARNITON COMPANY, Los Angeles, Calif.
Filed November 22, 1943. Serial No. 465,216. PUBLISHED FEBRUARY 29, 1944. Class 29.

406,940. FINGER PAD DAUBERS MADE OF LAMBS' WOOL FOR APPLYING POLISHES, CLEANERS AND COSMETICS. MATILDA SILVER, doing business as Sufix Manufacturing Co., Brookline, Mass.
Filed November 25, 1943. Serial No. 465,300. PUBLISHED FEBRUARY 29, 1944. Class 29.

406,941. PREPARATION USED FOR ATHLETE'S FOOT. AUGUSTUS K. SNYDER, Annapolis, Md.
Filed November 25, 1943. Serial No. 465,301. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,942. HAIR TONIC, HOT OIL AND TEMPLE OIL FOR HAIR TREATMENT AND SHAMPOO. MADAM N. A. FRANKLIN SCHOOL OF BEAUTY CULTURE, Houston, Tex.
Filed November 26, 1943. Serial No. 465,318. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,943. NUTRITIVE SUBSTANCE COMPOSED LARGELY OF AMINO ACIDS FOR ORAL ADMINISTRATION—A PROTEIN SUBSTITUTE. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed November 26, 1943. Serial No. 465,326. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,944. MANURE. ATKINS & DURBROW, INC., New York, N. Y.
Filed November 27, 1943. Serial No. 465,347. PUBLISHED FEBRUARY 29, 1944. Class 10.

406,945. VAGINAL PREPARATION. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed November 29, 1943. Serial No. 465,367. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,946. ABRASIVE AND GRINDING WHEELS. A. P. DE SANNO & SON, INC., Phoenixville, Pa.
Filed November 30, 1943. Serial No. 465,386. PUBLISHED FEBRUARY 29, 1944. Class 4.

406,947. RICE AND STOCK AND POULTRY FEED HAVING A CEREAL BASE. LOUISIANA STATE RICE MILLING COMPANY, INC., Abbeville, La.
Filed November 30, 1943. Serial No. 465,398. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,948. CORSETS, CORSELETS, BRASSIÈRES, PANTIES, BANDEAUX, GARTER-BELTS, GIRDLES, UNDERDRAWERS, ENVELOPE CHEMISES, VESTS, BLOOMERS, SLIPS, AND PETTICOATS. DOROTHY BICKUM, New York, N. Y.
Filed December 2, 1943. Serial No. 465,445. PUBLISHED FEBRUARY 15, 1944. Class 39.

406,949. VITAMIN COMPLEX AND IRON PRODUCT. EDWARD M. B. OWNEN, doing business as Hi-lo Products, St. Louis, Mo.
Filed December 2, 1943. Serial No. 465,464. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,950. ELECTRICALLY ILLUMINATED SIGNS WITH MOVABLE PERFORATED TAPES. TEL-A-TALE MOTION SIGN CORPORATION, New York, N. Y.
Filed December 3, 1943. Serial No. 465,489. PUBLISHED FEBRUARY 29, 1944. Class 21.

406,951. REMOVABLE COATING MATERIAL IN THE NATURE OF PAINTS FOR SPRAYING PAINT BOOTHS AND THE LIKE. THE DU BOIS COMPANY, Cincinnati, Ohio.
Filed December 4, 1943. Serial No. 465,502. PUBLISHED FEBRUARY 22, 1944. Class 16.

406,952. BALANCES AND SCALES FOR WEIGHING PURPOSES. THE TORSION BALANCE COMPANY, New York, N. Y.
Filed December 4, 1943. Under 10-year proviso. Serial No. 465,517. PUBLISHED FEBRUARY 29, 1944. Class 26.

406,953. AN ORAL RESPIRATORY VACCINE WHOSE SPECIFIC MEDICINAL USE IS DESIGNED FOR THE PREVENTION AND TREATMENT OF RESPIRATORY AILMENTS. BIOLOGICAL PRODUCTS CO., Jersey City, N. J.
Filed December 6, 1943. Serial No. 465,521. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,954. YEAST VITAMINE TABLETS. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed December 6, 1943. Serial No. 465,524. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,955. MEDICINAL HORMONE PREPARATIONS IN OINTMENT FORM AND IN TABLET FORM. SCHERING CORPORATION, Bloomfield, N. J.
Filed December 6, 1943. Serial No. 465,579. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,956. LIVER, IRON, AND VITAMIN PREPARATIONS. THE BOVININE COMPANY, Chicago, Ill.
Filed December 7, 1943. Serial No. 465,596. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,957. CHEMICAL PRODUCTS FOR USE IN PROCESSING TEXTILES. ARNOLD, HOFFMAN & CO. INCORPORATED, Providence, R. I.
Filed December 8, 1943. Serial No. 465,609. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,958. CHEMICAL PRODUCTS FOR USE IN PROCESSING TEXTILES. ARNOLD, HOFFMAN & CO. INCORPORATED, Providence, R. I.
Filed December 8, 1943. Serial No. 465,610. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,959. PENETRATING AND ASSISTING AGENTS USED IN DYEING. P. JOSEPH COLLINS, doing business as Atlas Color & Chemical Co., Boston, Mass.
Filed December 9, 1943. Serial No. 465,647. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,960. A DETERGENT AND SCOURING PREPARATION USED IN FULLING AND SCOURING, PRINCIPALLY BEFORE DYEING OR IN A DYE BATH. P. JOSEPH COLLINS, doing business as Atlas Color & Chemical Co., Boston, Mass.
Filed December 9, 1943. Serial No. 465,648. PUBLISHED FEBRUARY 22, 1944. Class 4.

406,961. WETTING AND PENETRATING AGENTS USED PRINCIPALLY IN A DYE BATH IN TREATING COTTON, WOOLEN AND WORSTED FABRICS. P. JOSEPH COLLINS, doing business as Atlas Color & Chemical Co., Boston, Mass.
Filed December 9, 1943. Serial No. 465,650. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,962. TOY BLACKBOARDS AND TOY MAGIC SLATES. THE BOB PRODUCTS COMPANY, Baltimore, Md.
Filed December 10, 1943. Serial No. 465,676. PUBLISHED FEBRUARY 29, 1944. Class 22.

406,963. COSMETIC OILS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed December 10, 1943. Serial No. 465,688. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,964. COSMETIC OILS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed December 10, 1943. Serial No. 465,689. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,965. VITAMIN B COMPLEX TABLETS. UNIT VITAMIN CORPORATION, Newark, N. J.
Filed December 10, 1943. Serial No. 465,700. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,966. BOWLING ALLEY BED BRUSHES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill.
Filed December 16, 1943. Serial No. 465,795. PUBLISHED FEBRUARY 29, 1944. Class 29.

406,967. CHEWING GUM. AMERICAN CHEWING PRODUCTS CORP., Newark, N. J.
Filed December 18, 1943. Serial No. 465,858. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,968. NAIL POLISH, LIPSTICKS, AND ROUGES. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed December 18, 1943. Serial No. 465,861. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,969. SUGAR COATED PEANUTS. ARTHUR ANDREW CAMP, doing business as Emmy Almond Co., Brookline, Mass.
Filed December 20, 1943. Serial No. 465,891. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,970. PRODUCT USED TO RELIEVE TRANSIENT NASAL CONGESTION THROUGH LOCAL APPLICATION. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 20, 1943. Serial No. 465,926. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,971. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J. and Rochester, N. Y.
Filed December 21, 1943. Serial No. 465,942. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,972. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed December 21, 1943. Serial No. 465,943. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,973. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed December 21, 1943. Serial No. 465,944. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,974. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed December 21, 1943. Serial No. 465,946. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,975. PHOTOGRAPHIC CHEMICALS—NAMELY, PHOTOGRAPHIC FIXING POWDER. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed December 21, 1943. Serial No. 465,948. PUBLISHED FEBRUARY 22, 1944. Class 6.

406,976. INDUSTRIAL FILTERS. SPARKLER MANUFACTURING COMPANY, Mundelein, Ill.
Filed December 23, 1943. Serial No. 466,027. PUBLISHED FEBRUARY 29, 1944. Class 31.

406,977. EAU DE COLOGNE, DUSTING POWDER, AND BUBBLE BATH PREPARATION. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed December 24, 1943. Serial No. 466,047. PUBLISHED FEBRUARY 15, 1944. Class 6.

406,978. CONDEMENT AND SALAD DRESSING—NAMELY, FRENCH DRESSING. E. A. AARON & BROS., INC., Chicago, Ill.
Filed December 27, 1943. Serial No. 466,065. PUBLISHED FEBRUARY 29, 1944. Class 46.

406,979. ADHESIVE CEMENT IN STICK FORM FOR LABORATORY AND SHOP USE, WHICH IS RESISTANT TO DILUTE ACIDS, ALKALIS, GREASE, AND EMBRITTLEMENT ON AGING. THE VARNITON COMPANY, Los Angeles, Calif.
Filed December 29, 1943. Serial No. 466,183. PUBLISHED FEBRUARY 29, 1944. Class 5.

406,980. WHEELED TOYS FOR CHILDREN. TEX TOY MANUFACTURING CO., Houston, Tex.
Filed December 31, 1943. Serial No. 466,235. PUBLISHED FEBRUARY 29, 1944. Class 22.

406,981. WAVE METERS OF THE CAVITY TYPE FOR MEASURING HIGH FREQUENCY AND ULTRA HIGH FREQUENCY WAVE LENGTHS, AND RADAR ECHO BOXES FOR TESTING RADAR EQUIPMENT. AUTO-ORDNANCE CORPORATION, Bridgeport and Greenwich, Conn.
Filed December 31, 1943. Serial No. 466,210. PUBLISHED FEBRUARY 29, 1944. Class 26.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

406,982. (CLASS 23. CUTLERY, MACHINERY AND TOOLS, AND PARTS THEREOF.) THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio. Filed October 23, 1940. Serial No. 437,202.

MASS-FLO

FOR TRAVELING CONVEYORS, PARTICULARLY OF THE ENDLESS CHAIN SCRAPER TYPE FOR CONVEYING SUCH MATERIALS AS ALUMINUM ORE DUST, ALUMINATE SULPHATE, BARLEY, BAUXITE, BEANS, BORAX, BRAN, CARBONATE BONE, CARBON BLACK, CASEIN, CELLULOSE ACETATE, CEMENT, CEREALS, CHARCOAL, POWDERED CHOCOLATE, CLAY, COAL, COCOA BEANS, COCOA TAILINGS, COFFEE, GROUND CORK, SHELLED CORN, FERTILIZER, FLOUR, FLUE DUST, FLY ASH, DRY FULLER'S EARTH, GRAINS, GROUND LIME, DRY MALT, MICA FLAKES, MOLYBDENUM CONCENTRATE, PEANUTS, PEAS, PLASTER OF PARIS, POTASH, RED LEAD, RICE, GRANULATED SALT, SAWDUST, SEEDS, DRY SEWAGE SLUDGE, SLURRIES, SOAKED WHEAT, SOAP CHIPS, SOAP POWDER, SODA, SODA ASH, SODIUM NITRATE, SOY BEAN MEAL, STARCH, DRY SUGAR, SULPHUR, TALC, WOOD FLOUR, AND THE LIKE.
Claims use since Feb. 29, 1940.

406,983. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LOUIS J. KLEIN, New York, N. Y. Filed Oct. 24, 1942. Serial No. 456,395.

HOUSE AND GARDEN
MOP - BRUSH

FOR COMBINATION FLOOR BRUSH AND MOP.
Claims use since June 1942.

406,984. (CLASS 39. CLOTHING.) SISSON BROTHERS WELDEN COMPANY, Binghamton, N. Y. Filed Jan. 23, 1943. Serial No. 458,125.

Babs Taylor

FOR WOMEN'S DRESSES, COATS, EVENING DRESSES, EVENING WRAPS, FUR COATS, JUNIOR MISSES' DRESSES, HOUSECOATS, BLOUSES, DINNER BLOUSES, SLACKS, OUTER SHIRTS, SWEATERS, OUTER SKIRTS, SPORT HATS, SPORT COATS, HOSIERY, SLIPS, PANTIES, BRASSIÈRES, AND NIGHTGOWNS.
Claims use since Nov. 10, 1942.

406,985. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DRITZ-TRAUM COMPANY, INC., New York, N. Y. Filed Feb. 15, 1943. Serial No. 458,530.

REDDY

FOR BUTTON AND BUTTONHOLE TAPE.
Claims use since Jan. 12, 1943.

406,986. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PINAUD INCORPORATED, New York, N. Y. Filed Feb. 17, 1943. Serial No. 458,600.

TONICREAM

FOR FACE LOTIONS AND HAIR LOTION.
Claims use since Aug. 2, 1939.

406,987. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WELDON TOOL COMPANY, Cleveland, Ohio. Filed Apr. 29, 1943. Serial No. 460,279.

WELDON

FOR ROTARY FLUID PUMPS.
Claims use since Mar. 15, 1943.

406,988. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 20, 1943. Serial No. 460,774.

Tach-a-Piece

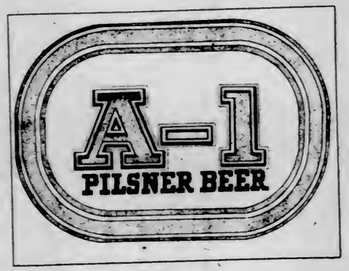
FOR LACE MEDALLIONS.
Claims use since July 15, 1942.

406,989. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HARRY J. ESDALE, doing business as Fuhl-Proof Co., Newark, N. J. Filed June 2, 1943. Serial No. 461,093.

FUHL-PROOF

FOR ACRYLIC RESIN USED FOR DENTURE BASES.
Claims use since May 1942.

406,990. (CLASS 48. MALT BEVERAGES AND LIQUORS.) ARIZONA BREWING COMPANY, Phoenix, Ariz. Filed July 5, 1943. Serial No. 461,861.



FOR BEER.
Claims use since Jan. 5, 1943.

406,991. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHEFFIELD MANUFACTURING CORP., Newark, N. J. Filed Aug. 7, 1943. Serial No. 462,607.

WILKUT

FOR RAZOR BLADES.
Claims use since November 1934.

406,992. (CLASS 37. PAPER AND STATIONERY.) REMINGTON RAND INC., Buffalo, N. Y. Filed Aug. 11, 1943. Serial No. 462,671.

Sight-Saver

FOR BLANK AND PARTIALLY PRINTED INDEX CARDS.
Claims use since May 29, 1941.

406,993. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GEO. SALTER & CO. LIMITED, West Bromwich, England. Filed Sept. 4, 1943. Serial No. 463,238.



FOR SPRING BALANCES AND WEIGHING MACHINES, STEAM GAUGES, PRESSURE GAUGES, VACUUM AND WATER GAUGES.
Claims use since 1884.

406,994. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) ATLAS ASBESTOS COMPANY, North Wales, Pa. Filed Sept. 24, 1943. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 463,614.

BESWIK

FOR ASBESTOS KINDLERS, COMMONLY KNOWN AS ASBESTOS WICKS, FOR OIL BURNING STOVES AND HEATERS.
Claims use since Apr. 19, 1940.

406,995. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. T. LAMME, Austin, Tex. Filed Oct. 22, 1943. Serial No. 464,343.



TEXAS CHEWIE

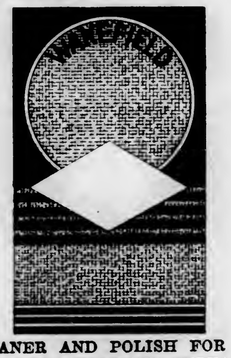
FOR CANDY.
Claims use since Mar. 1, 1926.

406,996. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALVADORE GATTUCCIO, doing business as Sulfa-Mix Company, San Jose, Calif. Filed Nov. 10, 1943. Serial No. 464,883.

SULFA-MIX

FOR FUNGICIDE AND ANTISEPTIC PREPARATION FOR TREATING ATHLETE'S FOOT.
Claims use since February 1943.

406,997. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ANTHONY J. VOLPE, doing business as The Wakefield Co., New York, N. Y. Filed Nov. 19, 1943. Serial No. 465,164.



FOR CLEANER AND POLISH FOR LACQUERED, VARNISHED, AND ENAMELED SURFACES.
Claims use since Sept. 15, 1935.

406,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN E. RESPONDEK, doing business as Gloria Fay, Hamtramck, Mich. Filed Dec. 23, 1943. Serial No. 466,017.

Gloria Fay

FOR HAND LOTIONS OR CREAMS.
Claims use since June 1, 1937.

406,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DITTO, INCORPORATED, Chicago, Ill. Filed Jan. 10, 1944. Serial No. 466,436.

NO-STAIN

FOR PROTECTIVE CREAM DESIGNED FOR USE ON THE HANDS TO PREVENT STAINS, ESPECIALLY FROM SOLUBLE ANILINE DYES, AND GENERALLY FROM MOST INDUSTRIAL DIRT, GRIME, GREASE, ETC.
Claims use since Oct. 12, 1933.

407,000. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) EUGENE E. NOYMER, doing business as The Noymer Manufacturing Company, Boston, Mass. Filed Jan. 17, 1944. Serial No. 466,656.

Styled by
NOYMER

FOR BILLFOLDS, KEY CASES, BRIEF CASES, FITTED AND UNFITTED TOILET CASES.
Claims use since May 1939.

407,001. (CLASS 39. CLOTHING.) THE COTTON SHOP, INC., New York, N. Y. Filed Feb. 9, 1944. Serial No. 467,291.

Zachary Bogert

FOR WOMEN'S, LADIES', AND MISSES' DRESSES, COATS, SUITS, SKIRTS, SHIRTS, BLOUSES, HATS, BATHING SUITS, AND SPORTSWEAR—NAMELY, SWEATERS, SLACKS, PLAY SUITS, SHORTS, AND SLACK SUITS.
Claims use since Sept. 15, 1932.

407,002. (CLASS 17. TOBACCO PRODUCTS.) H. E. SHAW COMPANY, Worcester, Mass. Filed Feb. 19, 1944. Serial No. 467,574.

Padcaster

FOR CIGARETTES, SMOKING TOBACCO, AND CIGARS.
Claims use since June 1942.

407,003. (CLASS 15. OILS AND GREASES.) THE PHOENIX OIL COMPANY, Cleveland, Ohio. Filed Feb. 25, 1944. Serial No. 467,766.

GRIND-RITE

FOR MACHINE GRINDING OIL.
Claims use since Oct. 2, 1942.

TRADE-MARK REGISTRATIONS RENEWED

175,467. **REPRESENTATION OF A GLASS FACTORY.** GLASS. Registered November 6, 1923. CHANCE BROTHERS AND CO. LIMITED. Renewed November 6, 1943, to Chance Brothers Limited, West Smethwick, England, a corporation of Great Britain, by change of name.

178,994. **J.B.L. CASCADE.** HOT WATER BOTTLES. Registered February 5, 1924. RICHARD PALMER. Renewed February 5, 1944, to Tyrrell's Hygienic Institute Inc., New York, N. Y., a corporation of New York, assignee.

180,598. **VEL-O-RA.** SILK PIECE GOODS. Registered March 4, 1924. H. R. MALLINSON & Co. INC. Renewed March 4, 1944, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee by mesne assginments.

180,693. **CORAMINE.** CHEMICAL AND PHARMACEUTICAL PREPARATION TO BE USED AS AN ANALEPTIC AGENT. Registered March 4, 1924. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Renewed March 4, 1944, to Ciba Pharmaceutical Products, Inc., Summit, N. J., a corporation of New Jersey, assignee.

180,743. **HILLROSE.** HAIRDRESSING, BATH SALTS, ALMOND-MEAL CREAM, A CREAM FOR USE FOR EXTREME PERSPIRATION; SALVE AND TINT FOR TINTING THE LIPS, CHEEKS, AND FINGER NAILS; PREPARED HENNA, HAIR TONIC, AND OTHER CERTAIN NAMED TOILET PREPARATIONS. Registered March 4, 1924. SCHRAMM-JOHNSON, DRUGS, Salt Lake City, Utah. Renewed March 4, 1944, to Carrel, Ltd., Chicago, Ill., a corporation of Illinois, assignee.

180,799. **"EDGEWORTH" AND DRAWING.** SMOKING TOBACCO. Registered March 4, 1924. LARUS & BROTHER COMPANY, Richmond, Va., a corporation of Virginia. Renewed March 4, 1944.

180,945. **LOCKHEED.** VEHICLE BRAKES. Registered March 11, 1924. HYDRAULIC BRAKE COMPANY, Los Angeles, Calif., and Detroit, Mich. Renewed March 11, 1944, to Hydraulic Brake Company, Detroit, Mich., a corporation of California.

180,948. **ZIG-ZAG.** FOOTBALLS, BASKET BALLS, SOCCER BALLS, AND PUNCHING BALLS. Registered March 11, 1924. WILLIAM SYKES, LIMITED, Horbury and London, England. Renewed March 11, 1944, to William Sykes, Limited, Horbury, England, a corporation of Great Britain.

180,956. **"AVONDALE" AND DRAWING.** CANNED FRUITS—NAMELY, APRICOTS, PINEAPPLE, PEACHES; CANNED VEGETABLES—NAMELY, PUMPKIN, BEETS, SWEET POTATOES, HOMINY, LIMA BEANS, BEANS, CORN, TOMATOES, SAUERKRAUT, ASPARAGUS; CANNED FISH—NAMELY, SALMON; CONDIMENTS—NAMELY, TABLE SAUCE, AND PREPARED MUSTARD. Registered March 11, 1924. THE KROGER GROCERY & BAKING Co., Cincinnati, Ohio, a corporation of Ohio. Renewed March 11, 1944.

181,024. **KINNEAR.** METALLIC FIRE-RESISTING SHUTTERS, CURTAINS, AND DOORS. Registered March 11, 1924. THE KINNEAR MANUFACTURING CO., Columbus, Ohio, a corporation of Ohio. Renewed March 11, 1944.

181,254. **MOCOYOLK.** FROZEN EGG PRODUCT, COMPOSED OF EGG YOLKS WITH EDIBLE GLYCERIN ADDED AND FROZEN TO PRESERVE THE YOLK IN ORIGINAL CONSISTENCY. Registered March 18, 1924. MORRIS OVSON COMPANY. Renewed March 18, 1944, to Ovson Egg Company, Chicago, Ill., a corporation of Delaware, successor.

181,279. **STOPIT.** PREPARATION FOR TREATMENT OF HEADACHE, NEURALGIA, NERVOUSNESS, INSOMNIA, TRAVELERS' HEADACHES. Registered March 18, 1924. MALCOLM G. GIBBS, doing business as Key Chemical Company. Renewed March 18, 1944, to The Associated Products Company, Washington, D. C., a corporation of Maryland, successor.

181,286. **DIASTAZYME.** STARCHES FOR THE DECOMPOSITION OF STARCHES AND THEIR REMOVAL FROM SIZED COTTON AND WOOLEN MATERIALS, FOR THE TRANSFORMATION OF STARCHES IN FOOD PREPARATIONS INTO SUGARS, AND FOR THE HYDROLYSIS OF STARCHY PRODUCTS IN FOOD PREPARATIONS, AND PROTEINS FOR CERTAIN NAMED PURPOSES. Registered March 18, 1924. JACQUES WOLF & Co., Passaic, N. J., a corporation of New Jersey. Renewed March 18, 1944.

181,287. **ORYZYME.** STARCHES FOR THE DECOMPOSITION OF STARCHES AND THEIR REMOVAL FROM SIZED COTTON AND WOOLEN MATERIALS, FOR THE TRANSFORMATION OF STARCHES IN FOOD PREPARATIONS INTO SUGARS, AND FOR THE HYDROLYSIS OF STARCHY PRODUCTS IN FOOD PREPARATIONS, AND PROTEINS FOR CERTAIN NAMED PURPOSES. Registered March 18, 1924. JACQUES WOLF & Co., Passaic, N. J., a corporation of New Jersey. Renewed March 18, 1944.

181,314. **"DEWEY'S EMULSION" AND DRAWING.** EMULSION OF COD-LIVER OIL AND PORT WINE WITH GLYCEROPHOSPHATE OF LIME FOR THE TREATMENT OF COUGHS, COLDS, AND LUNG TROUBLES, AND FOR USE AS A TONIC. Registered March 18, 1924. H. T. DEWEY & SONS COMPANY, New York, N. Y., a corporation of New York. Renewed March 18, 1944.

181,407. **"AVONDALE" AND DRAWING.** WALL-PAPER CLEANER. Registered March 18, 1924. THE KROGER GROCERY & BAKING Co., Cincinnati, Ohio, a corporation of Ohio. Renewed March 18, 1944.

181,432. **"TUPHINE" AND DRAWING.** FOOTBALLS, BASKET BALLS, SOCCER BALLS, AND PUNCHING BALLS. Registered March 18, 1924. WILLIAM SYKES, LIMITED, Horbury and London, England. Renewed March 18, 1944, to William Sykes, Limited, Horbury, England, a corporation of Great Britain.

181,720. **REPRESENTATION OF A DIAMOND DESIGN.** BRUSHES—NAMELY, AUTOMOBILE BRUSHES, BOTTLE BRUSHES, BATH BRUSHES, BATHTUB BRUSHES, CLOSET-BOWL BRUSHES, CEILING BRUSHES, CLOTHES BRUSHES, CUSPIDOR BRUSHES, AND OTHER CERTAIN NAMED BRUSHES AND MOPS. Registered March 25, 1924. GEO. S. LEINER & Co. Renewed March 25, 1944, to George S. Leiner & Co., New York, N. Y., a copartnership, successor.

181,755. **"AVONDALE" AND DRAWING.** AMMONIA AND BLUING. Registered March 25, 1924. THE KROGER GROCERY & BAKING Co., Cincinnati, Ohio, a corporation of Ohio. Renewed March 25, 1944.

181,916. **REPRESENTATION OF A MONUMENT.** OLIVE OIL. Registered April 1, 1924. ANTONIO CORRAO, New York, N. Y. Renewed April 1, 1944, to Antonio Corrao, doing business as Universal Salad Oil Company, Brooklyn, N. Y.

182,106. **GOLDEN VALE.** OLEOMARGARINE. Registered April 1, 1924. ED. S. VAIL BUTTERINE Co., Chicago, Ill. Renewed April 1, 1944, to The Capital City Products Company, Columbus, Ohio, a corporation of Delaware, assignee by mesne assignments.

182,436. **GLADTRED.** MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, SLIPPERS, OVERSHOES, AND RUBBERS. Registered April 8, 1924. GLADDING DRY GOODS Co. Renewed April 8, 1944, to Gladding's Incorporated, Providence, R. I., a corporation of Rhode Island, by change of name.

182,786. **AERONAUTICAL DIGEST.** MAGAZINE WHICH IS PUBLISHED MONTHLY. Registered April 15, 1924. THE AERONAUTICAL DIGEST PUBLISHING CORPORATION, New York, N. Y., a corporation of New York. Renewed April 15, 1944.

183,341. **"ATCO" AND DRAWING.** FRESH FISH. Registered April 29, 1924. CHESEBRO BROTHERS & ROBBINS, INC. Renewed April 29, 1944, to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine, assignee by mesne assignments.

183,377. **OX WEAR.** MEN'S DRESS SHIRTS, NEGLIGEE SHIRTS, AND WORK SHIRTS. Registered April 29, 1924. NATIONAL SHIRT SHOPS, INC. Renewed April 29, 1944, to National Shirt Shops of Delaware, Inc., New York, N. Y., a corporation of Delaware, assignee.

183,405. **MILL STREAMS.** WHOLE-WHEAT FLOUR, BUCKWHEAT FLOUR, RYE FLOUR, GRAHAM FLOUR, CORN MEAL, LAYING MASH, SCRATCH FEED, HOG FEED, AND BREAD. Registered April 29, 1924. WINCHELL SMITH, Farmington, Conn. Renewed April 29, 1944, to Phoenix State Bank and Trust Company, trustee, Hartford, Conn., a corporation of Connecticut, assignee.

183,782. **BUTTER PUFF.** BREAD, ROLLS, CAKES, FRIED CAKES AND COOKIES. Registered May 6, 1924. GRENNAN CAKE CORPORATION, Detroit, Mich. Renewed May 6, 1944, to Grennan Bakeries, Inc., Chicago, Ill., a corporation of Delaware, by change of name.

183,783. **OVEN-GOLD.** CAKES, COOKIES, COFFEE CAKES, AND BREAD. Registered May 6, 1924. GRENNAN CAKE CORPORATION, Detroit, Mich. Renewed May 6, 1944, to Grennan Bakeries, Inc., Chicago, Ill., a corporation of Delaware, by change of name.

183,785. **FLUFFI RICH.** BREAD, CAKES, FRIED CAKES, AND COFFEE CAKES. Registered May 6, 1924. GRENNAN CAKE CORPORATION, Detroit, Mich. Renewed May 6, 1944, to Grennan Bakeries, Inc., Chicago, Ill., a corporation of Delaware, by change of name.

183,830. **"MEDLEY ROLLS" AND DRAWING.** BREAD, ROLLS, BUNS, AND OTHER PASTRY—NAMELY, BISCUITS, CRACKERS, CAKES, PIES, COOKIES, ECLAIRS, AND CREAM PUFFS. Registered May 6, 1924. TEXAS BREAD COMPANY. Renewed May 6, 1944, to Taystee Baking Company, Houston, Tex., a corporation of Delaware, successor.

184,132. **CARBONUT.** CARBONIZING COMPOUND FOR HARDENING STEEL. Registered May 20, 1924. PACIFIC BY-PRODUCTS Co., San Jose, Calif. Renewed May 20, 1944, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

184,165. **"YE OLDE ENGLISH" AND DRAWING.** FRUIT CAKE. Registered May 20, 1924. GRENNAN CAKE CORPORATION, Detroit, Mich. Renewed May 20, 1944, to Grennan Bakeries, Inc., Chicago, Ill., a corporation of Delaware, by change of name.

184,300. **VITRO.** OXIDES OF COBALT, CHROMIUM, SELENIUM, ZIRCONIUM, TITANIUM, CERIUM, AND TIN, AND FOR SULPHIDE OF CADMIUM. Registered May 20, 1924. THE VITRO MANUFACTURING COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed May 20, 1944.

184,460. **AAA.** SAWS, SAW SWAGES, SAW-FITTING TOOLS, MACHINE KNIVES, CIRCULAR KNIVES, GRASS HOOKS, DITCH-BANK CUTTERS, SAW HANDLES, SAW VISES, PLASTERING TROWELS, SCRAPERS, CORN KNIVES, CAN KNIVES, AND BEET-TOPPING KNIVES. Registered May 27, 1924. E. C. ATKINS & COMPANY, Indianapolis, Ind., a corporation of Indiana. Renewed May 27, 1944.

184,634. **GRISDALE.** CANNED VEGETABLES. Registered May 27, 1924. GRISTEDE BROS., INC., New York, N. Y., a corporation of New York. Renewed May 27, 1944.

184,901. **EVERY LIVING CREATURE.** MAGAZINE PUBLISHED MONTHLY. Registered June 3, 1924. OREGON HUMANE SOCIETY, Portland, Oreg., a corporation of Oregon. Renewed June 3, 1944.

184,991. **"BELL'S" AND DRAWING.** CLEANING FLUID, WHITE-CANVAS CLEANER, AND WHITE-KID CLEANER. Registered June 3, 1924. BELL CHEMICAL Co., Chicago, Ill., a corporation of Illinois. Renewed June 3, 1944.

185,096. **GARDEN BEAUTY.** CANNED VEGETABLES. Registered June 10, 1924. GRISTEDE BROS., INC., New York, N. Y., a corporation of New York. Renewed June 10, 1944.

185,103. **SAMSON.** PLASTER BOARD AND PLASTER WALL BOARD. Registered June 10, 1924. SAMSON PLASTER BOARD COMPANY, Buffalo, N. Y. Renewed June 10, 1944, to United States Gypsum Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

185,223. **REPRESENTATION OF AN ELEPHANT'S HEAD.** CALCINED GYPSUM, STUCCO, CEMENT PLASTER, KEENE'S CEMENT, AND WALL PLASTERS. Registered June 10, 1924. UNITED STATES GYPSUM COMPANY, Chicago, Ill., a corporation of Illinois. Renewed June 10, 1944.

185,398. **"EVERY BITE A DELIGHT".** BREAD. Registered June 17, 1924. ATLAS BAKING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed June 17, 1944.

185,662. **"A-B" AND DESIGN.** COMPLETE AND INCOMPLETE BATTERY-CHARGING APPARATUS, ELECTRICAL CONTROL APPARATUS, ELECTRICAL INSTRUMENTS FOR VARYING THE POTENTIAL OF ELECTRIC CURRENTS, AND SWITCHES, GRID LEAKS, POTENTIOMETERS, CONDENSERS, AND RHEOSTATS FOR USE IN CONNECTION WITH WIRELESS APPARATUS. Registered June 24, 1924. ALLEN-BRADLEY COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed June 24, 1944.

185,691. **"POPPY" AND DRAWING.** NAPHTHA AND REFINED OIL. Registered June 24, 1924. VACUUM OIL COMPANY. Renewed June 24, 1944, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, assignee.

185,709. **SNAPPY.** GASOLINE AND LUBRICATING OIL AND GREASE. Registered June 24, 1924. EDWARD H. JOHANSEN, doing business as Snappy Service Stations, Washington, D. C. Renewed June 24, 1944.

185,778. **PARADISE.** WOMEN'S SHOES OF LEATHER AND CLOTH AND LEATHER. Registered June 24, 1924. BRAUER BROS. SHOE COMPANY. Renewed June 24, 1944, to Brauer Bros. Shoe Company, St. Louis, Mo., a corporation of Missouri, assignee.

186,147. **"SAMSON" AND DRAWING.** CALCINED-GYPSUM WALL PLASTERS. Registered July 1, 1924. SAMSON PLASTER BOARD COMPANY, Buffalo, N. Y. Renewed July 1, 1944, to United States Gypsum Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

186,740. **MADELEINE.** CANDY. Registered July 22, 1924. MADELEINE, Red Bank, N. J., a firm. Renewed July 22, 1944.

186,870. **SNUGINS.** COVER FASTENERS INTENDED TO GRIP BED COVERING AND HOLD IT IN PLACE. Registered July 22, 1924. WILLIAM R. CHAPPELL, doing business as Universal Cover Fastener Company. Renewed July 22, 1944, to Universal Cover Fastener Company, Inc., New York, N. Y., a corporation of New York, assignee.

187,255. **FLUFFO.** PREPARED FLOUR FOR BISCUITS OR SHORT CAKES. Registered July 29, 1924. FLAKO PRODUCTS CORPORATION, New Brunswick, N. J. Renewed July 29, 1944, to Flako Products Corporation, Milltown, N. J., a corporation of New Jersey.

187,298. **"LIFE SAVERS" AND DRAWING.** CANDIES AND CHEWING GUMS. Registered July 29, 1924. MINT PRODUCTS CO. INC., now by change of name Life Savers, Inc. Renewed July 29, 1944, to Life Savers Corporation, Port Chester, N. Y., a corporation of Delaware, assignee by mesne assignments.

187,311. **ECONOMY.** BRASS TUBES, COPPER TUBES, LOW-BRASS SEAMLESS TUBES, COPPER SEAMLESS TUBES, CONDENSER TUBES, BRAZED BRASS AND COPPER TUBES, AND NICKEL-SILVER SEAMLESS TUBES, AND PHOSPHOR-BRONZE TUBES. Registered July 29, 1924. ANACONDA COPPER MINING COMPANY, New York, N. Y. Renewed July 29, 1944, to Anaconda Copper Mining Company, Butte, Mont., a corporation of Montana.

187,446. **"IRVINGTON" AND DESIGN.** ELECTRICAL INSULATION MATERIALS—TO WIT, VARNISHED CAMBRIC, VARNISHED CANVAS, VARNISHED PAPER, VARNISHED SILK, INSULATING VARNISHES, INSULATING COMPOUNDS, FLEXIBLE VARNISHED TUBING, ENAMELED WIRE AND OTHER CERTAIN NAMED PRODUCTS. Registered August 5, 1924. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J., a corporation of New Jersey. Renewed August 5, 1944.

187,527. **VELVET OF PEACHES.** TOILET PREPARATIONS. Registered August 5, 1924. A. BOURJOIS & CO. INC. Renewed August 5, 1944, to Bourjois, Inc., New York, N. Y., a corporation of New York, assignee.

187,547. **HALF MOON.** INTERIOR AND EXTERIOR READY-MIXED PAINT. Registered August 5, 1924. M. J. MERKIN PAINT CO., INC., New York, N. Y., a corporation of New York. Renewed August 5, 1944.

187,560. **TEXTONE.** PLASTIC WALL COVERING. Registered August 5, 1924. UNITED STATES GYPSUM COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 5, 1944.

187,741. **SNUGINS.** COVER NETS MADE OF MOSQUITO NETTING AND PARTICULARLY ADAPTED FOR COVERING BABY CARRIAGES, BASSINETS, CRIBS, AND OTHER VEHICLES OR RESTING PLACES FOR INFANTS. Registered August 12, 1924. WILLIAM R. CHAPPELL, doing business as Universal Cover Fastener Company. Renewed August 12, 1944, to Universal Cover Fastener Company, Inc., New York, N. Y., a corporation of New York, assignee.

187,791. **CRUSH.** NONALCOHOLIC, MALTLESS BEVERAGES AND CONCENTRATES AND COMPOUNDS FOR MAKING THE SAME. Registered August 12, 1924. ORANGE-CRUSH COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 12, 1944.

187,839. **PUMA.** TOBACCO IN LEAF FORM. Registered August 12, 1924. THE TOBACCO REHANDLING CO., LTD., Liverpool, England, and Louisville, Ky. Renewed August 12, 1944, to The Tobacco Rehandling Co. Limited, Inc., Louisville, Ky., a corporation of Kentucky, assignee.

187,966. **"RP" AND REPRESENTATION OF CHINESE CHARACTERS.** WOOD SCREWS, MACHINE SCREWS, MACHINE-SCREW NUTS, CAP SCREWS, SET SCREWS, STOVE BOLTS, RIVETS, AND BURRS. Registered August 12, 1924. REED & PRINCE MANUFACTURING COMPANY, Worcester, Mass., a corporation of Massachusetts. Renewed August 12, 1944.

188,034. **JUDY PUNCH.** NONALCOHOLIC NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. Registered August 19, 1924. WORLD BOTTLING COMPANY, LIMITED, New Orleans, La., a corporation of Louisiana. Renewed August 19, 1944.

188,164. **LUXUS.** CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. Registered August 19, 1924. HAAS BROTHERS, San Francisco, Calif., a corporation of California. Renewed August 19, 1944.

188,204. **VELVO.** METAL SURFACER, BEING A TOOL FOR GIVING A SMOOTH FINISH TO METAL. Registered August 19, 1924. CARVER FILE CO., also doing business as Delta File Works. Renewed August 19, 1944, to Delta File Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania, by change of name.

188,225. **WILCOLATOR.** THERMOSTATIC CONTROLS. Registered August 19, 1924. THE H. A. WILSON COMPANY, Newark, N. J. Renewed August 19, 1944, to The Wilcolator Company, Elizabeth, N. J., a corporation of Delaware, assignee.

188,389. **LIBERTY.** YEAST. Registered August 26, 1924. LIBERTY YEAST CORPORATION, Baltimore, Md. Renewed August 26, 1944, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

188,391. **MIZZY.** DENTAL SUPPLIES—NAMELY, MERCURY, CLEANERS, BRIDGE-REPAIR OUTFITS, ARTICULATORS, IMPRESSION TRAYS, COMPOUND OUTFITS, WHEEL TRUERS AND TEMPORARY STOPPINGS, OXYPHOSPHATE OF COPPER CEMENT, SILVER ALLOYS, ROOT-CANAL FILLINGS, BUFFING BRUSHES, AND OTHER CERTAIN NAMED APPLIANCES. Registered August 26, 1924. MIZZY, INC., New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,414. **CURRANT-ROSE.** TOILET PREPARATIONS. Registered August 26, 1924. A. BOURJOIS & CO. INC. Renewed August 26, 1944, to Bourjois, Inc., New York, N. Y., a corporation of New York, assignee.

188,445. **"HESS" AND DESIGN.** HAIR TONIC AND DANDRUFF REMEDY. Registered August 26, 1924. FRANK HESS, doing business as Hess Hair Milk Laboratories, St. Paul, Minn. Renewed August 26, 1944.

188,450. **BASSINET.** TALCUM POWDER. Registered August 26, 1924. LEHN AND FINK, INC., New York, N. Y. Renewed August 26, 1944, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware, assignee.

188,515. **SALYRGAN.** PREPARATIONS FOR THE TREATMENT OF SPIROCHETAL AND OTHER INFECTIOUS DISEASES AND AS A DIURETIC. Registered August 26, 1924. H. A. METZ LABORATORIES, INC. Renewed August 26, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

188,583. **SHORT-O.** COOKING OIL MADE FROM COTTONSEED OIL. Registered September 2, 1924. FRANK A. BOWLES, also doing business as Bowles Bros., Los Angeles, Calif. Renewed September 2, 1944, to Hygrade Food Products Corporation, New York, N. Y., a corporation of New York, assignee.

188,604. **ETCHARDT.** SILVER HOLLOW WARE. Registered September 2, 1924. BERNARD RICE'S SONS, INC., New York, N. Y., a corporation of New York. Renewed September 2, 1944.

188,663. **SILVER SPRING FABRICS.** DRESS GOODS IN THE PIECE OF SILK, WOOL, COTTON, AND COMBINATIONS OF THESE MATERIALS. Registered September 2, 1924. M. SILVERMAN & SON. Renewed September 2, 1944, to Silver Spring Trading Co., Philadelphia, Pa., a partnership, assignee.

188,666. **VIRGINIA DARE.** TONIC LAXATIVE. Registered September 2, 1924. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y., a corporation of New York. Renewed September 2, 1944.

188,694. **GASODA.** REMEDY FOR ACID STOMACH, HEARTBURN, INDIGESTION, DYSPEPSIA, AND NAUSEA. Registered September 2, 1924. HANCE BROTHERS & WHITE, INCORPORATED. Renewed September 2, 1944, to Hance Bros. & White Co., Philadelphia, Pa., a partnership, assignee by mesne assignments.

188,744. **DEECY.** SOAPS, ALSO NONEDIBLE OILS AND COMPOUNDS THEREOF FOR THE TREATMENT OF LEATHER AND TEXTILES. Registered September 2, 1924. DEECY PRODUCTS COMPANY, Cambridge, Mass., a corporation of Massachusetts. Renewed September 2, 1944.

188,812. **ZEMO.** SOAP. Registered September 2, 1924. THE E. W. ROSE COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 2, 1944.

188,825. **MISSION BELL.** SOAP. Registered September 2, 1924. LOS ANGELES SOAP COMPANY, Los Angeles, Calif., a corporation of California. Renewed September 2, 1944.

188,836. **RUBALCOL.** RUBBING ALCOHOL. Registered September 2, 1924. LEHN & FINK, INC., New York, N. Y. Renewed September 2, 1944, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware, assignee.

188,851. **"IROQUOIS" AND DRAWING.** INDIAN HERB TEA FOR THE RELIEF OF KIDNEY, LIVER, AND STOMACH AFFLICTIONS. Registered September 2, 1924. IROQUOIS FAMOUS INDIAN REMEDIES, INC. Renewed September 2, 1944, to Kraupner and Kraupner, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

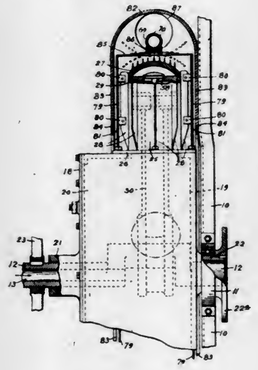
22,473

INTERNAL COMBUSTION ROTARY ENGINE

Leslie W. Beaven, Chicago, Ill.

Original No. 2,300,094, dated October 27, 1942, Serial No. 430,401, February 11, 1942, which is a division of Serial No. 398,428, June 17 1941. Application for reissue August 7, 1943, Serial No. 497,795

32 Claims. (Cl. 123—44)



8. In an internal combustion rotary engine, a stationary shaft, an engine casing rotatable thereon, a plurality of radially disposed cylinders on said engine casing and provided with exhaust ports, laterally spaced plates on opposite sides of and movable with said cylinders, said plates provided with air inlets and their spaced outer portions providing an annular outlet, said cylinders adapted to create air currents between said plates and discharge the same through said opening, thermostatic devices disposed in the discharge path of said air and influenced by the temperature of said currents to control said annular outlet, an annular manifold tube communicating with the exhaust ports of said cylinders and adapted to discharge the products of combustion into said air currents, and a stationary enveloping jacket surrounding said cylinders and spaced plates, said jacket adapted to receive said air currents and the discharged products of combustion and intermingle the same.

22,474

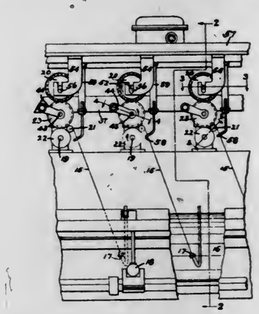
PROCESS AND APPARATUS FOR CONTROLLING TENSION

Louis S. Fryer, Cleveland, and Louis E. Lovett, Madison, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Original No. 2,217,862, dated October 15, 1940, Serial No. 132,266, March 22, 1937. Application for reissue October 14, 1942, Serial No. 461,950

19 Claims. (Cl. 242—45)

1. Apparatus for handling a relatively delicate thread at a linear speed which is substantially constant at given positions in the apparatus comprising means for supplying the thread; means to which the thread passes; and, disposed between said means, means for changing the tension in the thread including a rotatable member positively rotated at a constant speed having a thread-bearing surface of circular cross-section and, in contact therewith and driven therefrom, another rotatable member so disposed that its thread-bearing surface is out of contact with that of the first-named rotatable member, of which rotatable members at least one has associated therewith a driving portion which differs in diameter from the thread-bearing surface thereof, contacts and has driving engagement with the other of said rotatable members so that the peripheral speeds of the thread-bearing surfaces of said rotatable members are different, the thread first engaging the thread-bearing surface



of the positively rotated member and thereafter contacting the thread-bearing surface of the other rotatable member in such manner that the thread-bearing surfaces of said rotatable members move in the direction of travel of the thread.

11. In a process in which plastic filaments are passed through a reciprocating guide and wound as a cake on a rotating bobbin, the improvement which comprises passing the filaments moving from the guide to the bobbin against a surface moving in the direction of passage of the filaments at a speed that is substantially higher than the peripheral speed of the cake, transmitting power from the moving surface to the filaments and thereby accelerating the filaments, while moving the filaments back and forth across the surface transverse to their direction of passage, whereby tension in the filaments at the point of winding on the bobbin is reduced.

22,475

TELEPHONE SYSTEM

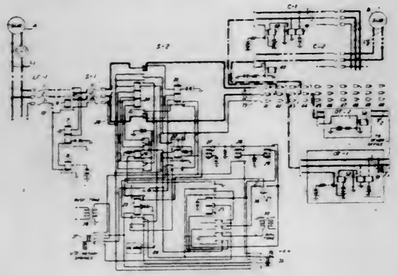
Marcellus B. McDavitt, Hartsdale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original No. 2,291,481, dated July 28, 1942, Serial No. 341,815, June 22, 1940. Application for reissue June 26. 1943, Serial No. 492,466

18 Claims. (Cl. 179—18)

1. In an automatic switch having a bank of terminals divided into groups and having access

to two groups of trunks in each of a plurality of groups of terminals, a switching relay having an operating winding and a polarizing winding, means for energizing said polarizing winding in one direction to enable selection of a trunk in one of the two groups in any one of said plurality of groups of terminals, means for energizing said polarizing winding in the other direction to enable selection of a trunk in the other of the two groups in any one of said plurality of groups of terminals, means responsive to directive control for positioning said switch in selective relation to any one of said plurality of groups of ter-



minals, means for automatically operating the switch to hunt for an idle trunk in the one or the other of said two groups of trunks in a selected group of terminals, means for energizing the operating winding of said relay in the same direction as the polarizing winding responsive to the switch finding an idle trunk in the desired one of the two trunk groups in the selected one of said plurality of groups of terminals, and means comprising said relay for terminating the automatic operation of the switch and for effecting the seizure of the first idle trunk in the desired trunk group.

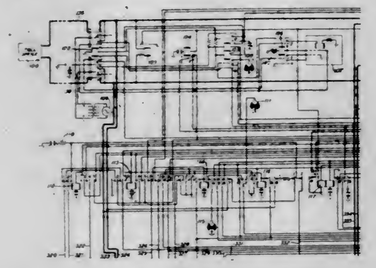
22,476

TELEPHONE SYSTEM

James B. McKim, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original No. 2,277,600, dated March 24, 1942, Serial No. 312,468, January 5, 1940. Application for reissue July 1, 1942, Serial No. 449,275

20 Claims. (Cl. 179—27)



1. In an automatic switching telephone system, incoming trunks, outgoing trunks, a train of automatic switches operable for connecting said incoming trunks to said outgoing trunks, operators' positions, a link switching system independent of said train of switches operable in response to a signal over an incoming trunk for connecting said incoming trunk to an operator's position, means under the direction of said operator for operating said train of switches to establish a connection between an incoming and an outgoing trunk, and means for optionally locking said link switches to said established connection.

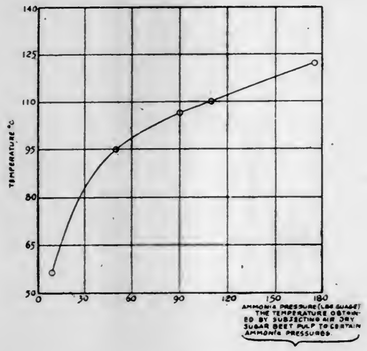
22,477

AMMONIATED AGRICULTURAL MATERIAL AS LIVESTOCK FEED AND PROCESS OF PRODUCING SAME

Harvey C. Millar, Western Springs, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey

Original No. 2,293,845, dated August 25, 1942, Serial No. 354,573, August 28, 1940. Application for reissue July 19, 1943, Serial No. 495,299

15 Claims. (Cl. 99—2)



1. A method of preparing an improved livestock food from an agricultural roughage which includes the step of ammoniating said roughage to impart thereto a substantial amount of nitrogenous material utilizable for nutritional purposes.

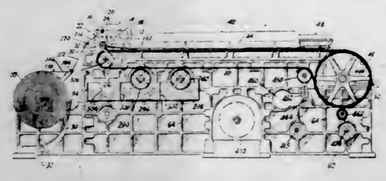
22,478

METHOD OF AND APPARATUS FOR MANUFACTURING RODLIKE ARTICLES

Hiram A. Perkins, deceased, late of Rochester, N. Y., by Stuart L. Perkins, Rochester, N. Y., and Madeleine P. Hathaway, Montclair, N. J., executors; said Hiram A. Perkins, assignor to Setter Bros. Inc., Cattaraugus, N. Y., a corporation of New York

Original No. 2,308,537, dated January 19, 1943, Serial No. 297,684, October 3, 1939. Application for reissue January 14, 1944, Serial No. 518,309

25 Claims. (Cl. 93—1)



1. A candy stick machine comprising, in combination, a crimper roll, means co-acting with said roll to cause paper strips to be formed about the roll to give the strips a curling-up tendency, means acting upon the formed strips to succes-

sively release them from the roll, means acting upon the released strips to promote their curling up tendency resulting from said forming action and to develop loosely convoluted paper, rolls, means for compacting the latter into permanent set rod-like master sticks, and means cutting each master stick into a plurality of candy sticks while continuing said compacting action.

24. In the manufacture of small diameter rods by convoluting sheet material, rolling-up strips of sheet material to form loosely convoluted rolls, applying pressure and a further convoluting action to reduce the diameter and increase the convolutions of the rolls until substantially solid rods are formed, simultaneously applying pressure and a fluid agent to the rolls to moisten their material, applying heat and pressure upon the circumferential surfaces of the compacted rods to produce smooth stiff surfaces by an ironing effect and simultaneously transversely cutting all the way through the compacted rods and applying heat and pressure to the severed portions of the rods to homogenize their material at the ends of the cut rods to iron the ends to present smooth surfaces.

PLANT PATENTS

GRANTED MAY 9, 1944

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

627

CHERRY TREE

Claude Fairman, near Charlevoix, Mich., assignor to Stark Bro's. Nurseries and Orchards Company, Louisiana, Mo., a corporation of Missouri

Application September 30, 1943, Serial No. 504,467

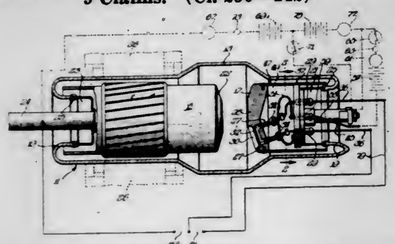
1 Claim. (Cl. 47—62)

A new and distinct variety of cherry tree, characterized as to novelty by its late ripening in relation to its parent variety, grown under comparable conditions, substantially as shown and described.

PATENTS

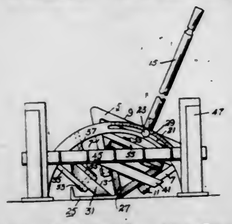
GRANTED MAY 9, 1944

2,348,184
ELECTRON FLOW DEVICE
Zed J. Atlee, Elmhurst, Ill., and Robert French Wilson, Washington, D. C., assignors to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application December 11, 1941, Serial No. 422,530
9 Claims. (Cl. 250—142)



1. An X-ray generator comprising an evacuated envelope at a pressure of the order of 0.02 micron of mercury or lower, and an electron emission element comprising thorium and a sheath of tungsten carbide thereon in said envelope and subject to the low pressure conditions prevailing therein.

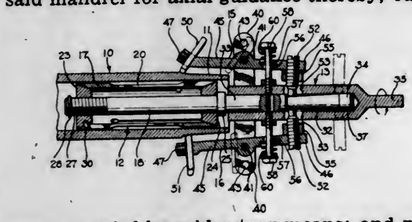
2,348,185
FLANGE BENDING APPARATUS
Ussury A. Bartee, San Pablo, Calif.
Application June 15, 1942, Serial No. 447,136
2 Claims. (Cl. 153—28)



1. Apparatus for bending the flanges of channel beams comprising, an assembly including a yoke having an intermediate section and legs extending from the extremities thereof and converging toward each other, an inwardly directed shaft adjacent the end of each of said legs, a frusto-conical roller mounted on each of said shafts with the conical surfaces of said rollers facing each other and spaced approximately the thickness of a flange at their point of closest approach, a tie block connecting the inner ends of said shafts, and a handle operatively connected to said yoke.

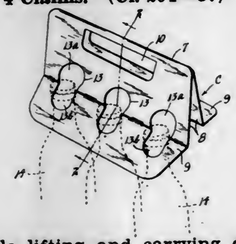
2,348,186
MEANS FOR TAPERING ENDS OF TUBULAR OBJECTS
Quinter E. Bashore, Covina, Calif.
Application April 23, 1943, Serial No. 484,222
16 Claims. (Cl. 82—17)

1. In a device of the character described for cutting an exterior bevel on the end of a tubular object, the combination of: a mandrel for insertion in the end of the tubular object in a fixed manner with a portion of the mandrel protruding therefrom; rotary means to rotatably engage said mandrel for axial guidance thereby; cutting



means carried by said rotary means; and means carried by said rotary means and controlled by said mandrel portion to increase the radial distance of said cutting means from the axis of said mandrel as said rotary means is advanced relative to the tubular object.

2,348,187
BOTTLE CARRIER
Gerald S. Beskin, Minneapolis, Minn., assignor of one-half to Frank O. Kuehn, Sr., St. Paul, Minn.
Application May 29, 1941, Serial No. 395,805
4 Claims. (Cl. 294—87)

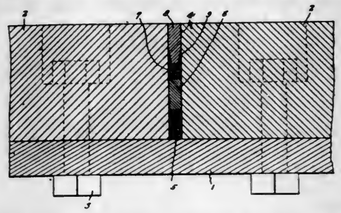


1. A bottle lifting and carrying device comprising a pair of relatively stiff sheets of material having their upper portions interconnected and shaped to form a handle, said sheets extending downwardly and divergently with their lower edges separated to form a space for the reception of the heads of two parallel rows of upstanding bottles, each sheet having a horizontal row of keyhole-shaped slots arranged so that the wider parts of the slots are above the narrower parts and so that each slot in its entirety slants outwardly and downwardly with respect to the said handle, whereby the device may be pressed downwardly upon two rows of bottles to cause relative sliding action between the bottle heads and the narrower parts of the slots and thus produce alignment of the bottle heads with the wider parts of the slots.

2,348,188
SHIP DECKING
William F. Boyer, Delair, N. J.
Application December 1, 1942, Serial No. 467,523
1 Claim. (Cl. 94—3)

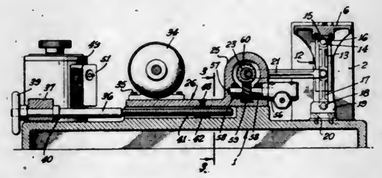
In a ship decking comprising a metallic deck, uniformly spaced planks secured on said deck,

and a plastic calking medium between the planks, a sealing strip frictionally secured between the planks and flush with the upper surfaces thereof, said sealing strip including a substantially



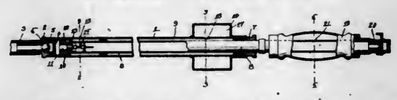
tapered lower marginal portion spaced from the opposed walls of the planks for the reception of any excess calking medium that may be displaced by said sealing strip.

2,348,189
VIBRATION TESTING DEVICE
J D. Buchanan and Paul W. Adler, Burbank, Calif.
Application May 26, 1942, Serial No. 444,598
5 Claims. (Cl. 73—51)



1. Vibration testing apparatus comprising the combination of a base, a bearing on said base, a vibratory support slidably mounted for vertical movement on said bearing, a toggle having one end thereof pivotally connected to said support and the other end pivotally connected to said base, a pitman connected to said toggle, a slide on said base, a shaft rotatably mounted on said slide and having an eccentric connected to said pitman, a motor mounted on said slide and connected to said shaft, means for varying the position of said slide on said base to vary the excursion of said support, and means operated by said slide for indicating the excursion of said support.

2,348,190
LIQUID PUMP
Giles E. Bullock, Rochester, N. Y.
Application November 17, 1941, Serial No. 419,362
2 Claims. (Cl. 103—224)

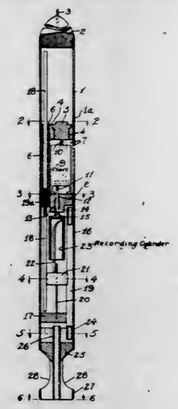


1. In a hand liquid pump the combination of a cylinder, a hollow plunger mounted to reciprocate in said cylinder with clearance between it and the plunger and a perforated wall in the plunger for connection of the space within and without the plunger at the inner end thereof, a plunger head on said plunger, a check valve carried by said plunger and arranged to provide an inlet into the space within and without the plunger, an air chamber on the outside of said cylinder, a duct connecting the inside of said cylinder with said air chamber to provide for the compression of air in said chamber by the liquid forced into the space between the plunger and the cylinder on the movement of said plunger, and a nozzle at the outer end of said plunger to provide a restricted outlet from the plunger and effect a substantially uninterrupted discharge of the liquid under pressure by the movement of the plunger and the expansion of the air in said air chamber on the reversal of the movement of the plunger.

2,348,191
SEPARATORY PROCESS
James Allan Camelford, Chagrin Falls, Ohio, assignor to Alox Corporation, New York, N. Y., a corporation of New York
No Drawing. Application February 7, 1942, Serial No. 429.945
6 Claims. (Cl. 260—452)

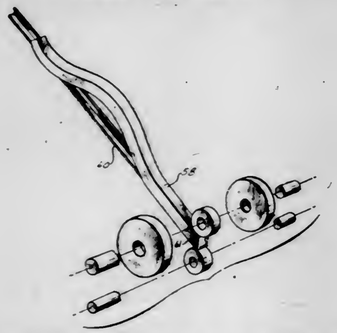
1. Process of removing unoxidized hydrocarbons from a saponifiables-free mixture of unoxidized hydrocarbons and unsaponifiable oxidation products resulting from the liquid-phase controlled partial oxidation of a mixture of essentially saturated aliphatic hydrocarbons of mineral origin, which comprises dispersing the saponifiables-free mixture in glacial acetic acid, separating the resulting solution from material insoluble in the glacial acetic acid, and removing the glacial acetic acid from the solution.

2,348,192
METHOD FOR EVALUATING FLOW CHARACTERISTICS OF WELLS
Lawrence S. Chambers, Alhambra, Calif.
Application January 13, 1940, Serial No. 313,719
14 Claims. (Cl. 73—51)



1. A method of determining the flow characteristics of a flowing well which comprises introducing and lowering a flow meter into said well, flowing said well, maintaining uniform flow of fluid in said well at said flow meter and measuring the volumetric flow of fluid while maintaining such uniform flow, moving said meter in said well to a point vertically disposed in said bore hole from the point of said first mentioned measurement, again maintaining uniform flow of fluid in said well at said flow meter and measuring the volumetric magnitude of flow while maintaining said uniform flow of fluid while making said measurement, and from said measurements determining the flow characteristics of the well.

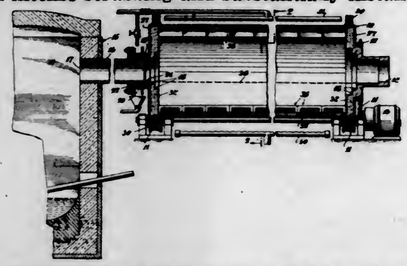
2,348,193
APPARATUS FOR FORMING MATERIAL
Frederick M. Combs, El Segundo, and Starling A. Squiers, Hawthorne, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application November 4, 1940, Serial No. 364,266
1 Claim. (Cl. 153—32)



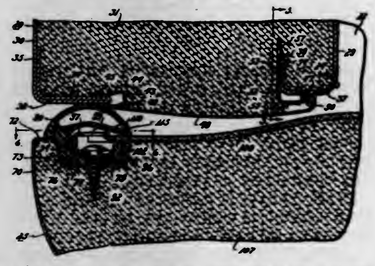
In a machine for bending to a desired longitudinal curvature an elongated work piece of material having a cross section characterized by concavities, the combination of: a pair of juxtaposed rollers having substantially parallel flat treads facing each other; a work engaging elongated combination supporting and forming means of greater strength against flexure than the work piece and having a cross section so complementary of the work piece cross section as to provide an assembled body having two external surfaces so contoured and spaced in cross section as to be simultaneously flatly pressurally engageable with said treads respectively, said body being longitudinally movable between said rollers with said surfaces engaging said treads, said supporting means including an elongated member longitudinally curvate in a plane perpendicular to the axes of the rollers, and further including means for securing said elongated member and work piece at one end against separation in said perpendicular plane, said supporting means being interchangeable with other similar supporting means; means to laterally engage and prevent lateral movement of said body across said treads in a direction parallel to the axes of the rollers as it passes between said rollers; and means for rotating at least one of said rollers to pass said body between said rollers, whereby when said elongated member and work piece are thus secured and said body at the secured end is introduced between said rollers, and said rotating means is energized, said work piece is bent to the longitudinally curvate contour of said member.

2,348,194
METAL VAPOR CONDENSATION
Roland G. Crane, Woodbridge, and Melville F. Perkins, Barber, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application June 3, 1942, Serial No. 445,574
5 Claims. (Cl. 75—14)

1. An improved condenser for condensing zinc metal vapors formed in an electric arc smelting furnace comprising a rotatable chamber into which the hot metal vapors from the furnace are conducted, means for rotating said chamber, a bath of liquid zinc metal filling the lower portion of said chamber, means comprising spaced interlocked baffle blocks forming the inner wall of said rotating member for splashing and hurling liquid metal from said bath into the space thereabove to maintain the same filled with falling droplets of liquid zinc metal and to produce an intense scrubbing and substantially instantaneous quenching action on the metal vapors upon their entry into said chamber, said chamber having corbelled end-wall sections to inhibit end-to-end surging and premature discharge of liquid metal from said bath as said chamber is rotated.

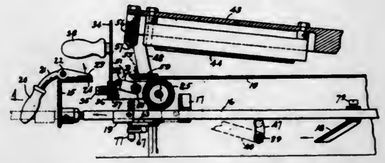


2,348,195
REFRIGERATING APPARATUS
Earl D. Drake, Grand Rapids, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Original application July 18, 1941, Serial No. 402,901. Divided and this application October 11, 1941, Serial No. 414,581
1 Claim. (Cl. 220—9)



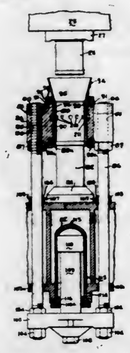
A cabinet construction comprising inner and outer shells having a door opening formed therein, said shells having edge portions about the periphery of the door opening, the edge portion of the outer shell being bent inwardly toward the inner shell, the edge portion of the inner shell being bent to provide a flange extending toward the outer shell but spaced therefrom, a short inturned flange carried by said flange extending rearwardly from said door opening and having an opening therethrough, a clip removably connected to said short inturned flange and having a portion extending parallel with and beyond said flange, said portion having a tongue extending through the opening of said inturned flange, flaring tongues on said portion engaging the edge of said inturned flange for connecting the clip to said inturned flange, said clip having a portion extending substantially parallel with the flange of the inner shell and spaced therefrom, and a breaker strip bridging the space between said shells and having one edge thereof connected to the edge portion of the outer shell and the opposite edge of said breaker strip being bent inwardly, said inwardly bent portion extending between the flange of the inner shell and the portion of the clip which is arranged parallel to said flange for securing the breaker strip in position.

2,348,196
BAG MANUFACTURING MACHINE
Sidney J. Duhaime, Los Angeles, Calif.
Application May 6, 1938, Serial No. 206,347
23 Claims. (Cl. 93—18)



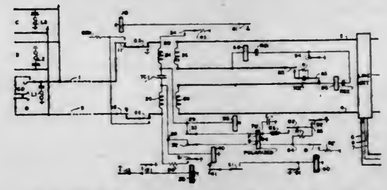
14. A bag making machine comprising reciprocal means engaging and drawing sheet-like, fusible material from a roll, mechanism to fold edges of the material in overlapping relation and to arrange same in tubular form, means to fuse the overlapping edges and the advancing end of the tubular form, said first-mentioned means being arranged to withdraw the fused length of the tubular material, and shearing means to sever the withdrawn fused length from the remaining material.

2,348,197
BRIQUETTING PRESS MOLDING PROCESS
Walter Ernst, Mount Gilead, Ohio, and Leslie S. Hubbert, Cranford, N. J., assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application September 16, 1940, Serial No. 357,016
3 Claims. (Cl. 18—55)



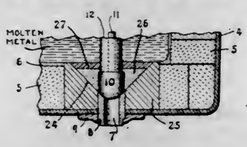
1. A method of molding granular material in a mold with a top and bottom member movable relative to the mold, which comprises the steps of locating the top member outside the mold, moving the mold and bottom member relative to each other so as to locate the upper surface of the latter adjacent the upper portion of the mold, filling the mold with molding material while gradually increasing the distance between the upper portion of the mold and the upper surface of the mold bottom member, inserting the mold top member into the mold and moving said top member toward said bottom member, exerting hydraulic cushioning pressure on said bottom member during movement of said top member toward said bottom member, compressing the molding material to a predetermined first pressure so as to cause the molding material to frictionally move the mold against said cushioning pressure, temporarily releasing the pressure on the molding material when said first predetermined pressure has been reached, and, while said pressure is released, pumping out the air entrapped in the mold, thereafter again moving the top member toward the bottom member while applying pressure to said top member independent of said cushioning pressure until a second predetermined pressure has been reached, withdrawing the top member after attainment of said last mentioned pressure, and ejecting the molded article from the mold.

2,348,198
IMPULSE REPEATER
Harry G. Evers and George Elliott, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application February 15, 1943, Serial No. 475,904
16 Claims. (Cl. 179—16)



1. In a signalling system, a line, an impulsing relay having a first and a second winding, a circuit including said first winding and said line in series completed in response to the closure of said line for momentarily energizing said first winding by current flow in one direction to operate said relay to its operated position, a circuit including said second winding and said line in series completed in response to the closure of said line for energizing said second winding by current flow in said one direction to assist in the operation of said relay and for maintaining said relay in operated position, a local circuit for said first winding ineffective when the line is closed and effective in response to opening said line for momentarily reversing the direction of flow of current thru said first winding to operate said relay to its released position, and another local circuit including a resistance in series with said second winding ineffective when the line is closed and effective in response to opening said line for reversing the direction of current flow thru said second winding to assist in operation of said relay to its released position and for maintaining said relay in its released position.

2,348,199
LADLE FOR MOLTEN METAL AND METHOD OF SEALING CLOSURES THEREIN
Henry G. Freeman, Granite City, Ill.
Application October 20, 1943, Serial No. 507,222
5 Claims. (Cl. 22—85)



1. In the art of transmitting molten metal through a ladle having a discharge port at the bottom and a stopper provided with a closure at the bottom to be seated at said discharge port, the method of separating the lower end portion of said stopper from the hot zone of the molten

metal which comprises forcing said lower end portion of the stopper onto its seat at said discharge port, forming a seal of moist plastic material at the bottom of the ladle, above said seat and around said stopper, heating said plastic material to remove moisture therefrom and at the same time convert it into a relatively hard crust, thereafter pouring molten metal into the ladle, said crust being between the hot zone of the molten metal and the lower portion of the stopper, and subsequently breaking said crust by imparting a lifting movement to said stopper, so as to release the molten metal.

2,348,200

PROCESS FOR SULPHONATING ROSIN

Douglas Fronmuller and Berwyn B. Thomas, Appleton, Wis., assignors to The Institute of Paper Chemistry, a corporation of Wisconsin

No Drawing. Application March 28, 1942, Serial No. 436,616

1 Claim. (Cl. 260—98)

The process of preparing an improved sulphonated abietic acid composition which comprises reacting at a temperature not materially higher than −10° C., and in the presence of an aluminum borate catalyst, a rosin containing abietic acid with fuming sulphuric acid in a reaction medium made up of liquid sulphur dioxide and an inert water immiscible organic solvent, adding H_2O to the reaction mixture and separating the water immiscible solvent containing unwanted materials from the resulting aqueous solution containing the desired sulphonated abietic acid composition, said organic solvent being ether.

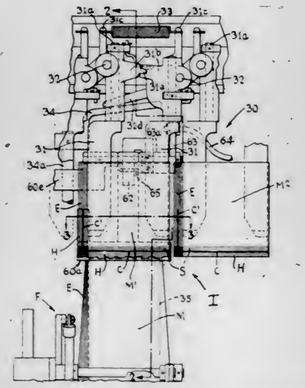
2,348,201

MANUFACTURE OF INFUSION PACKAGES WITH HANDLES

Louis Barnett, Brooklyn, N. Y., assignor, by mesne assignments, to National Urn Bag Co., Inc., Long Island City, N. Y.

Application July 12, 1941, Serial No. 402,171

21 Claims. (Cl. 93—3)



1. In a packaging machine of the character described, cooperating mechanisms for making and filling bags including means for forming heat sealed closure seam joints, and means carried by the first mentioned means for transforming structural portions of said joints to provide an elongated handle integrally attached at one narrow end thereof for dependingly supporting the filled closed bags thereby.

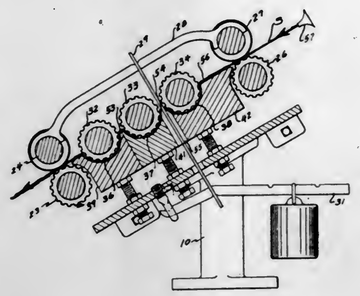
2,348,202

DRAWING ROLLS FOR SPINNING MACHINES

William Beswick, Birmingham, Ala.

Application September 4, 1942, Serial No. 457,277

6 Claims. (Cl. 19—130)



1. In a textile attenuating apparatus, the combination of a plurality of spaced drawing rolls driven at progressively increasing speeds, troughs in which parts of the rolls are adapted to rotate in spaced relation thereto and defining between the troughs ridges over which roving is adapted to be drawn, and means to pass roving to be drawn in series between the rolls and the troughs transversely of the ridges.

2,348,203

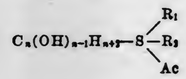
VISCOSE SPINNING SOLUTION

Rudolph S. Bley, Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application January 29, 1940, Serial No. 316,277. Divided and this application August 28, 1942, Serial No. 456,557

4 Claims. (Cl. 106—165)

1. A viscose spinning solution containing a dissolved, substantially stable, cation-active monosaccharide derivative having the structure:



in which n is a number selected from the group consisting of 5 and 6, R_1 is a higher aliphatic radical having at least 8 carbon atoms, R_2 represents a radical selected from the group consisting of alkyl, aralkyl and aryl radicals, and Ac represents a substituent selected from the group consisting of OH and negative acid radicals, said derivative being present in said viscose solution, in an amount sufficient to substantially inhibit incrustation of spinnerets.

2,348,204

SOUND REPRODUCING SYSTEM

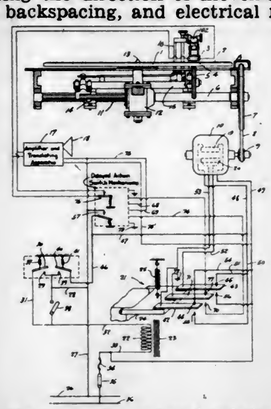
George P. Brubaker, Los Angeles, Calif., assignor to Memovox, Incorporated, Beverly Hills, Calif., a corporation of Ohio

Application September 15, 1941, Serial No. 410,884

17 Claims. (Cl. 179—100.4)

1. In apparatus of the character described, a reproducer head having a stylus adapted to contact with a record track, means for advancing the record track with respect to the stylus, means

for reversing the direction of movement of the track for backspacing, and electrical means for



rendering the reproducer head substantially ineffective during reversal of the record and while maintaining the stylus in contact with the track.

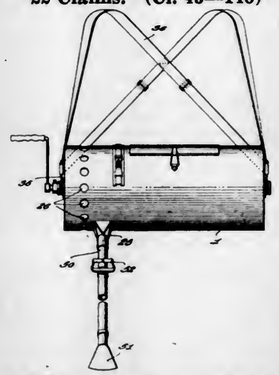
2,348,205

DUSTING APPARATUS

John A. Chater, Medina, N. Y., assignor to Niagara Sprayer and Chemical Co., Inc., Middleport, N. Y., a corporation

Application July 25, 1940, Serial No. 347,534

22 Claims. (Cl. 43—148)



1. A hand blower gun comprising a tubular casing adapted to be supported in a horizontal position and housing a dust hopper, a blower fan, and means for feeding dust from the hopper to the blower, axially aligned bearing members at the ends of said casing, means for rotatably supporting the casing in said bearing members for rotation about the longitudinal axis of the casing, and an outlet pipe communicating with the fan, rigidly secured to the curved outer wall of said casing, and adapted to assume different angular positions in a vertical plane on rotation of the casing about its longitudinal axis.

2,348,206

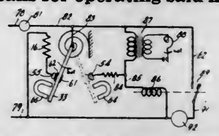
CONTROL SYSTEM

Lewis L. Cunningham, Glendale, Calif., and Homer E. Malone, Milwaukee, Wis., assignors to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application May 1, 1940, Serial No. 332,674

27 Claims. (Cl. 236—46)

1. In a mechanism of the class described for intermittently operating a heating system for regular "on" periods at regular "off" periods, a member oscillating between first and second positions at regular intervals, an actuator for the oscillating member, means for energizing the actuator when said oscillating member is at one of said positions, means for operating said heating system



for the duration of said "on" period when said oscillator is at the other of said positions, and means for imparting snap action to the oscillating member in the traverse of the member from the first position to the second position and retarded action in the traverse of the member from the second position to the first position.

2,348,207

ALLOYS

Reginald S. Dean and Clarence T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application October 20, 1941, Serial No. 415,768

6 Claims. (Cl. 75—134)

1. Alloys, having good corrosion resisting properties, containing from 5% to 75% manganese, from 5% to 25% chromium, and 20% to 90% copper, the total of the manganese, chromium, and copper constituting substantially 100%.

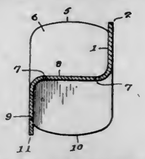
2,348,208

FILLING MATERIAL FOR REACTION SPACES

Andrew M. Fairlie, Atlanta, Ga.

Application January 13, 1941, Serial No. 374,161

8 Claims. (Cl. 261—95)



1. A filling body for reaction spaces consisting of a pair of side plates, spaced from each other, and a substantially flat web spanning the space between said side plates and integrally connected therewith, said side plates both being substantially perpendicular to said web, one of said side plates having at least one portion projecting from the web in one direction and the other of said side plates having at least one portion projecting from the web in the opposite direction and substantially to the same extent as the first mentioned portion, said body also carrying aprons attached to the front and rear edges of said web, and both of said aprons extending substantially perpendicular to said web.

2,348,209

GUN TURRET

Rudolph Fink, Dayton, Ohio

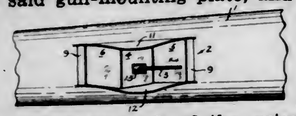
Application August 6, 1941, Serial No. 405,674

7 Claims. (Cl. 89—37.5)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A turret for pivotally mounting a gun in a wall or other substantially flat surface compris-

ing a transparent plate of rectangular shape in which the gun is mounted, said plate normally lying in the plane of the wall or other surface and pivoted thereto about its central axis, a rectangular wing plate hinged to each of the free ends of said gun-mounting plate, and a sliding



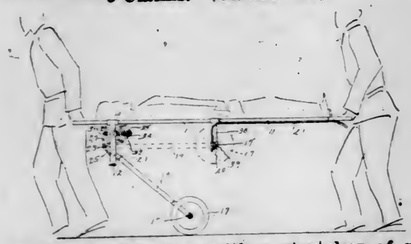
pivot joint between each of the outer ends of said wing plates and said wall whereby said gun-mounting plate may rotate about its central axis and said wing plates may pivot and slide along said wall when the gun and its mounting plate are rotated about said central axis.

2,348,210

ARMY STRETCHER

Ernest Friedlaender, Detroit, Mich., assignor to H. A. Todd and Robert A. Sloman, Detroit, Mich., jointly

Application January 19, 1942, Serial No. 427,267
6 Claims. (Cl. 296—20)



1. The combination with a stretcher of rests joined thereto for supporting one end thereof; and a retractable undercarriage for further supporting said stretcher consisting of levers independently pivoted to said rests, wheels journaled on the ends of said levers, and resilient means remote from said wheels interposed between said rests and said levers adapted to normally urge and maintain said wheels in spaced relation to said stretcher.

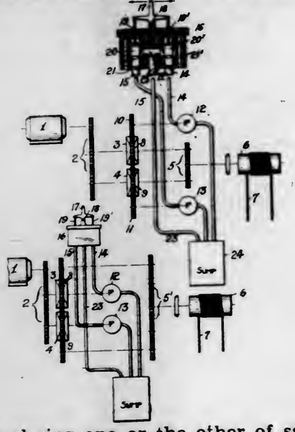
2,348,211

SERVO MECHANISM

Carl A. Frische, Leonia, and Orland E. Esval, Allendale, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application October 19, 1940, Serial No. 361,860
3 Claims. (Cl. 74—293)

1. A servo mechanism for operating a loaded controlled object from a sensitive controlling object, comprising continuously operating motive means, transmission means connecting said motive means with said controlled object, said transmission means comprising oppositely and continuously driven differentials, one arm of each of which is connected to drive the controlled object one in one direction and one in the reverse direction, a free circulating fluid pump driven from a second arm of each of said differentials, a normally open throttle valve in the circulating line from each pump, each of said throttling valves comprising a cylinder, a piston valve therein, a back portion and a conical seat throttling portion, means for introducing fluid adjacent said throttling portion, and a pressure equalizing passage connected adjacent said conical throttling portion to the back portion of said valve for balancing purposes, and means moved from said controlling object for gradually differ-



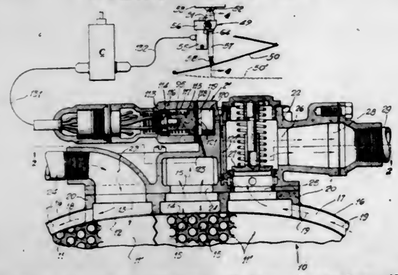
entially closing one or the other of said valves to thereby increase the load exerted by the selected pump upon its differential, whereby the controlled object is driven at a desired variable speed in either direction dependent on the movement of the controlling object.

2,348,212

ELECTRICAL FLAP CONTROL

George Herbert Gill, Manhattan Beach, Calif., assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif., a corporation of California

Application October 9, 1941, Serial No. 414,336
9 Claims. (Cl. 236—35)



1. In a cooling system of the class described, having a heat exchanger through which a flow of a first fluid which tends to congeal at low temperatures and a flow of a second fluid pass in heat exchanging relation, the combination of: control means having a part moving through consecutive positions in a range of movement in response to corresponding changes in the temperature of the first fluid; a closure to control the flow of said second fluid through the heat exchanger; motor means operatively connected to said closure and operating under control of said control means to move said closure throufh consecutive positions between opened and closed, corresponding to the positions of said part of said control means; and means operating in response to a pressure increase in said first fluid in said heat exchanger as the result of the thickening of said first fluid in said heat exchanger to cause said motor means to move said closure toward the closed position thereof.

2,348,213

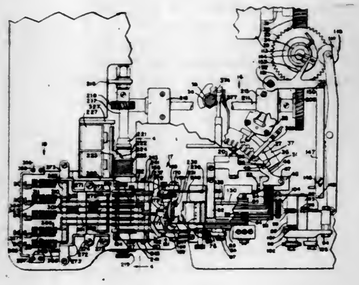
WITHDRAWN

2,348,214

PRINTING TELEGRAPH APPARATUS

Erwin A. Gubisch, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application September 29, 1941, Serial No. 412,829
20 Claims. (Cl. 178—17)



1. A strip controlled circuit operating mechanism comprising a strip reader having a plurality of sensing elements, a plurality of banks of circuit conditioning contacts, means for operating said banks of contacts permutably in accordance with circuit controlling signals, storage means controlled by said sensing elements for storing said circuit controlling signals, and a transfer device to subsequently transfer said stored circuit controlling signals from said storage means to said contact operating means.

2,348,215

PROCESS FOR THE MANUFACTURE OF HESPERIDIN

Ralph H. Higby, Ontario, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California

Application August 3, 1940, Serial No. 350,800
15 Claims. (Cl. 260—210)



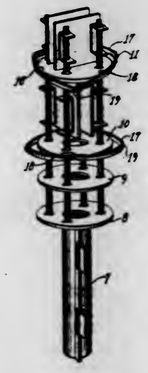
10. In the recovery of hesperidin, the steps of extracting by alkaline treatment of hesperidin source material an aqueous liquor containing hesperidin in solution, adjusting the pH of said liquor downward to such a point that crystallization of the hesperidin from said liquor will occur without further treatment, then prior to any substantial crystallization of hesperidin, removing undesirable fines from the liquor, and thereafter separating hesperidin from the liquor by crystallization.

2,348,216

ELECTRON DISCHARGE DEVICE MOUNT SPACER

Don F. Holshouser, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 9, 1943, Serial No. 475,239
6 Claims. (Cl. 250—27.5)



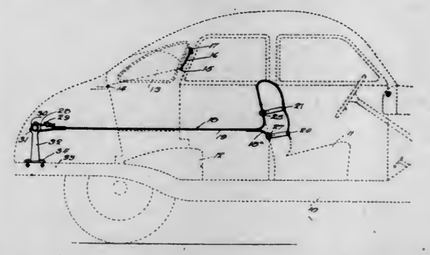
1. An electron discharge device comprising an envelope having a tubular portion, an electrode structure within said tubular portion, a transverse member on said structure and a resilient envelope spacer completely surrounding said transverse member having points of contact with said envelope and affixed to said transverse member at points intermediate said points of contact.

2,348,217

HAMMOCK

Byron Quinby Jones, United States Army

Application July 18, 1941, Serial No. 402,933
4 Claims. (Cl. 5—118)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A vehicle having front and rear seats with backs and having a floor area behind the rear

seat, the back of the rear seat being separable from the body thereof, a cross member supported horizontally on said area and transversely of the vehicle at substantially the level of the rear seat body, and a hammock including a web having means at its ends for attachment to said cross member and to the back of said front seat.

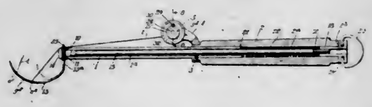
3. A hammock comprising an elongated body strip, a strap secured across said strip near one end thereof and having its ends projecting beyond the longitudinal edges of the strip, a pair of buckles secured to said edges at a greater distance from said end of the strip and adapted to receive said projected ends of said strap, whereby said strip may be laid over the back of the seat to dispose said strap and buckles at opposite surfaces of said back, and means at the other end of said strip for attachment to a support.

2,348,218

SURGICAL STITCHING INSTRUMENT

John D. Karle, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application April 9, 1942, Serial No. 438,292
21 Claims. (Cl. 128—340)



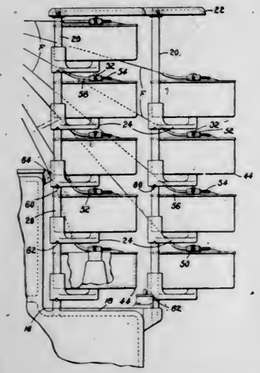
1. A surgical suturing instrument comprising a pair of needle-gripping jaws, telescopically arranged elements each carrying a respective one of said jaws, spring means applied to said elements to urge them endwise relative to one another to carry said jaws into needle-gripping relation, and means supplemental to said spring means to tighten the grip of said jaws upon said needle.

2,348,219

SUPPORT FOR FASTENING MATERIAL

Frank Kennison, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application December 21, 1942, Serial No. 469,634
9 Claims. (Cl. 1—27)



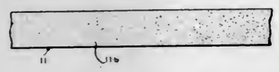
1. The combination with a frame of a fastening-inserting machine having a projection, of a plurality of standards rising from the projection, a carrier-arm arranged to turn about each standard, means for retaining in predetermined angular positions the arms against turning, a container for a coil of the material mounted upon each carrier-arm, a guide for the material mounted upon each carrier-arm, and means for fixing the guides in different angular positions upon the carrier arms, such positions corresponding to different points of reception at the fastening-inserting machine.

2,348,220

ADHESIVE PAPER

Bernard L. Kline, Manhasset, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application January 10, 1941, Serial No. 373,900
5 Claims. (Cl. 117—122)



1. An adhesive paper having on one side thereof a thin, dry, remoistenable, substantially non-hygroscopic adhesive film comprising a water-soluble polyvinyl alcohol of the type which is readily soluble in water of a temperature up to approximately 70° C.

2,348,221

HYDROXYL DERIVATIVES OF THE CYCLOPENTANO POLYHYDROPHENANTHRENE SERIES AND A PROCESS FOR THE MANUFACTURE OF THE SAME

Willy Logemann, Berlin-Friedenau, and Hans Dannenbaum, Falkenhain-Finkenkrug, near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application January 8, 1940, Serial No. 312,858. In Germany December 24, 1938
19 Claims. (Cl. 260—397.4)

1. Method for the manufacture of oxygenated derivatives of the cyclopentano polyhydrophenanthrene series, comprising treating a compound of the cyclopentano polyhydrophenanthrene series having no sterolic side chain at the 17-position and having a reactive hydrogen atom on the α-carbon to an activating portion of the molecule, with an oxidizing agent capable of replacing the reactive hydrogen atom with an oxygen-containing group.

2,348,222

TAP SWITCH

Roy H. Olson, Marion, Iowa, assignor to Collins Radio Company, a corporation of Iowa

Application October 2, 1942, Serial No. 460,559
7 Claims. (Cl. 200—11)



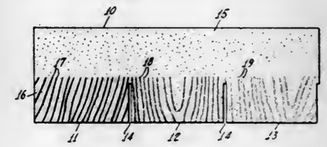
2. A switch of the character described, including: a set of separate contact members arranged around a center in an arc exceeding a semicircle; another set of contact members arranged around said center, this set being interconnected and adapted to make engagement with the members of the other set; means for rotating one of said sets with respect to the other; and means for moving at least some of said members to a different plane during said rotation.

2,348,223

ORNAMENTAL GRANULAR-FACED COMPOSITION SHINGLE

Michael W. Papesh, Joliet, Ill., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey

Application February 9, 1942, Serial No. 430,054
7 Claims. (Cl. 108—7)



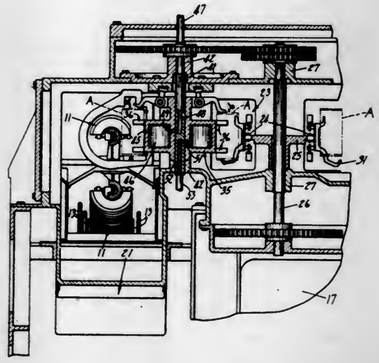
1. An ornamented composition shingle having a groundwork of granules of a single prevailing color upon at least that portion of its surface which is intended to be exposed when the shingle is laid, the groundwork having an ornamental pattern applied thereto composed of a plurality of groups of stripes of colored granules, the stripes of each group being of one color or shade different from that of the stripes of the adjacent groups and from that of the groundwork, whereby the color of the groundwork in the intervals between the stripes of each group is illusorily modified in tone.

2,348,224

COATING MACHINE

Nicholas Pelosi, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application August 22, 1940, Serial No. 353,772
2 Claims. (Cl. 91—55)



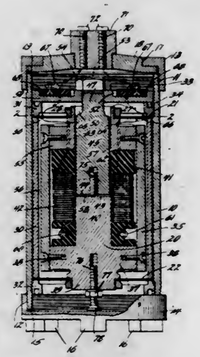
1. A device for transferring freshly coated articles from a heated coating unit to a cooling unit, comprising a rotary turret disposed so as to be partially exposed to the temperatures of each of said units, said turret having peripheral pockets thereon for receiving the coated articles to be transferred from one unit to the other, and means for directly heating said turret for maintaining the temperature of said pockets above the melting temperature of the coating, whereby to prevent said coating on the articles from being chilled and accumulating within said turret pockets.

2,348,225

MAGNETIC SEISMOMETER

Olive S. Petty, San Antonio, Tex.

Application February 13, 1940, Serial No. 318,739
7 Claims. (Cl. 177—352)



2. A magnetic seismometer having in combination, a tubular casing, an armature fixed coaxially therein, a steady mass mounted in the casing and for movement relative to the casing and armature, said steady mass comprising only a permanent magnet, pole pieces therefor and a coil, and diaphragm springs connecting said relatively movable parts, said springs having different natural frequencies of vibration.

2,348,226

PROCESS FOR THE MANUFACTURE OF p-NITROARYL-DISULPHIMIDES

Erik Schirm, Dessau, Germany, assignor, by mesne assignments, to The Hydronaphthene Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 12, 1940, Serial No. 356,507. In Germany September 12, 1939
6 Claims. (Cl. 260—397.7)

1. A process for producing p-nitroaryl-sulphimides which comprises reacting a p-nitroaryl sulphonic acid amide unsubstituted on its amide nitrogen atom with an organic sulphonic acid halide in an aqueous solution while maintaining said solution in an alkaline condition thereby producing a p-nitroaryl disulphimide.

2,348,227

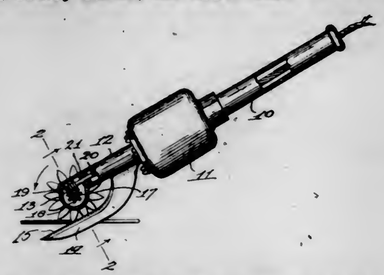
CAN OPENER

Elizabeth M. Scott, Los Angeles, Calif.

Application December 12, 1942, Serial No. 468,785
1 Claim. (Cl. 30—4)

In a can opener, a handle provided in its forward end with a housing, transversely aligned bearings in the ends of said housing, a shaft jour-

nalled in bearings, a rotary cutter carried by one end of said shaft, said cutter having a plurality of radially disposed edged blades, a blade rigidly secured to the handle to the rear of the said shaft which fixed blade projects forwardly beneath said housing and shaft past the lower portion of said rotary cutter, the upper edge of said fixed



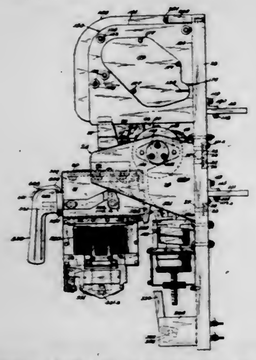
blade being provided with a cutting edge, a longitudinally disposed shaft journalled for rotation in the forward portion of said handle, driving connections between said shaft and the transversely disposed shaft and an electric motor carried by said handle to the rear of said fixed blade for driving said longitudinally disposed shaft.

2,348,228

CIRCUIT BREAKER

William Maxwell Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 10, 1940, Serial No. 339,687
4 Claims. (Cl. 200—144)



1. A circuit breaker structure comprising an insulating panel, a pair of side plates secured to said panel and extending from the face of said panel, an insulating horizontal bar supported between the side plates and spaced from the panel, an arc chute, means on said panel for supporting one end of said arc chute, and means on said bar for supporting the opposite end of the arc chute.

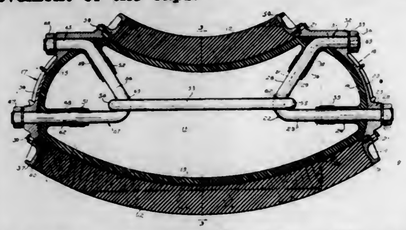
2,348,229

VULCANIZING APPARATUS

Clyde M. Semler, Cuyahoga Falls, Ohio

Application March 18, 1941, Serial No. 384,005
20 Claims. (Cl. 18—45)

1. Apparatus for treating a tire or like casing comprising an expansible arcuate tubular bag having sufficient rigidity to normally retain its shape when its interior is open to the atmosphere, rigid end caps at opposite ends of said bag and means extending through said bag interconnecting said end caps to prevent elongation of said bag during expansion while permitting limited rocking movement of said caps, means for introducing fluid under pressure within said bag, a removable expansible sleeve mounted loosely on said bag, said sleeve being of sufficient rigidity to normally retain its shape independently of said bag and having its external surface shaped in accordance with the casing to be treated, and means extending outwardly from said end caps preventing substantial longitudinal displacement of said sleeve relative to said bag and controlling longitudinal expansion of said bag upon said movement of the caps.



8. Apparatus for treating a tire or like casing comprising an expansible tubular bag having sufficient rigidity to normally retain its shape when its interior is open to the atmosphere, rigid end caps on said bag, means for introducing fluid under pressure within said bag, and means extending through said bag interconnecting said end caps to prevent elongation of said bag comprising a longitudinal member and separate anchor devices flexibly connected with the opposite ends of said member, each of said anchor devices being secured to the adjacent end cap at spaced points on opposite sides of the axis of said bag, thereby enabling and causing said end caps to freely follow the associated bag ends as the bag changes in form during expansion to assume its correct position within said casing, said means insuring that the end caps remain in the same reinforcing relation to the bag ends during all normal conditions of operation and said means also being of such construction as to maintain a substantially straight-line connection between said end caps during said conditions.

2,348,230

ART OF IMPRINTED WOVEN FABRICS

Ernst Spielmann, New York, N. Y.

Application December 6, 1941, Serial No. 421,953
9 Claims. (Cl. 28—74)



1. A printed woven fabric having a set of warp strands and a set of plain or uncolored weft strands, the warp strands solely having a color-fast pattern imprinted thereon, at least one of said sets of strands being of crepe twisted thread, the pattern being displaced out of a common plane as a consequence of shrinking the fabric.

2,348,231

COMPOUNDS FOR USE IN RADIOGRAPHY

William H. Strain, John T. Platt, and Stafford L. Warren, Rochester, N. Y., assignors of one-half to Noned Corporation, Rochester, N. Y., and one-half to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 11, 1940, Serial No. 339,912
9 Claims. (Cl. 260—476)

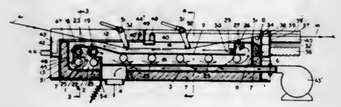
3. Esters of phenyl fatty acids wherein the phenyl group contains from 1 to 3 iodine atoms as a nuclear substituent, and wherein the ester group is selected from the group consisting of a lower saturated alkyl group, a lower saturated hydroxyalkyl group, and a lower saturated dihydroxyalkyl group, and wherein the fatty acid group is selected from the group consisting of the residues of saturated fatty acids having a chain length of not less than 4 and not more than 18 carbon atoms.

2,348,232

QUENCH POT

Oscar C. Trautman, Parma, and William H. Wood, South Euclid, Ohio

Application February 20, 1941, Serial No. 379,754
14 Claims. (Cl. 266—6)



1. Apparatus for use in quenching heated material, such as wire and the like, to a desired temperature by advancing continuously into and through a bath of liquid:—comprising a quench pot; means operative to supply liquid to said pot in the section thereof from which the treated material is withdrawn; means operative to maintain the liquid so supplied at a controlled temperature as it enters said pot; and means operative to discharge from the pot liquid which has been heated by contact with the material under treatment, the transverse cross-sectional area of the said pot being reduced adjacent such discharge means whereby such liquid is caused to move toward and past the entering material at a speed faster than the speed of initial movement of the liquid toward the entering material.

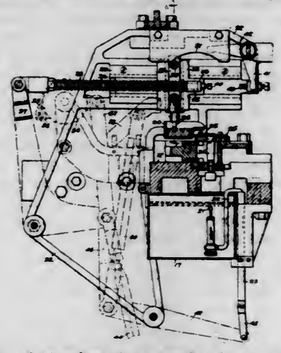
2,348,233

CARTRIDGE COATING MACHINE

Joseph E. Turnock, Riverton, N. J., and Gerard D. Noble, Philadelphia, Pa.

Original application March 27, 1940, Serial No. 326,208. Divided and this application November 13, 1941, Serial No. 418,992
6 Claims. (Cl. 91—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a machine, a bed plate, means for moving cartridge cases with their base end up step by step across the bed plate, a tank at one side of the path of travel of the cartridge cases and adapted to contain a fluent waterproofing material, a horizontal slide carried by the bed plate transversely of the path of travel of the cartridge cases, a vertical slide carried by the horizontal slide, an applicator carried by the vertical slide, a spring normally elevating the vertical slide, an arcuate cam engageable by the vertical slide under action of its spring, a bearing on the horizontal slide, an actuating rod engaging one side of the bearing, a spring on the rod engaging the



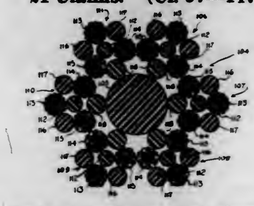
other side of the bearing, and a lever engageable by the rod to strike the vertical slide when the horizontal slide is at one end of its stroke.

2,348,234

FLEXIBLE COMPOSITE ROPE

Richard F. Warren, Jr., Stratford, Conn.

Original application June 19, 1940, Serial No. 341,352. Divided and this application September 3, 1942, Serial No. 457,197
21 Claims. (Cl. 57—147)



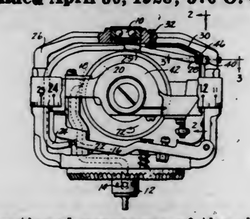
1. In a rope, a main core, a plurality of ropes laid helically about said main core, each of said ropes including a rope core and strands of metal and strands of plastic material laid helically about said rope core, a plurality of elements comprising each of said strands, each of said elements helically disposed in its strand, said elements, strands and ropes preformed into helices whereby to lie in neutral condition in said strands, ropes and about said main core.

2,348,235

ERECTING DEVICE FOR DIRECTIONAL GYROSCOPES

William R. Weems, Decatur, Ga.

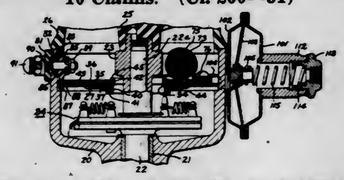
Application May 13, 1943, Serial No. 486,808
1 Claim. (Cl. 74—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a directional gyroscope of the class in which the rotor axle has its bearings in an inner gimbal

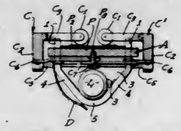
which normally holds said axle in a horizontal plane, the pivot axis of said inner gimbal being normal to the rotor axle and in the same plane, said inner gimbal being rotatable about its pivot axis on bearings carried in an outer gimbal which has its pivot axis vertical, an erecting device for correcting tilting of the rotor axle away from the horizontal plane, comprising a pair of air nozzles fixed to the outer gimbal out from its pivot axis parallel to, and on opposite sides of, the inner gimbal pivot axis, a pair of deflectors fixed to the outer gimbal, in alignment with said nozzles and somewhat away from the ends of said nozzles, and formed to deflect air emanating from said nozzles in opposite directions and substantially at right angles to the direction of said nozzles, and a valve plate carried by said inner gimbal and swingable by the tilting of said inner gimbal between the ends of said nozzles and said deflectors, the valve plate being of such width that its edges will normally cover equal parts of the ends of said nozzles when said inner gimbal is not tilted from its horizontal plane.

2,348,236
IGNITION TIMER
James L. Arthur, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 28, 1941, Serial No. 408,571
10 Claims. (Cl. 200—31)



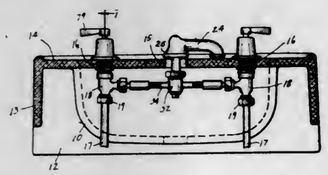
7. In an ignition device for an internal combustion engine having a housing; a cam rotatably supported by the housing; a circuit breaker operated by the cam; and a movable plate for supporting the circuit breaker, the combination with said movable plate, of a stationary plate supported by the housing and having a plurality of spaced bosses for laterally supporting the movable plate; a flange integral with the stationary plate spaced from the movable plate; a bearing sleeve attached to the movable plate extending through the flange of the stationary plate pivotally securing the movable sleeve to the stationary plate; a flange carried by the movable sleeve spaced from the flange of the stationary plate; and spring means about the sleeve and interposed between the flanges for urging the movable plate against the bosses to prevent wobbling of the movable plate.

2,348,237
FILM PATCHING JIG
James M. Barr and Raymond C. Mercer, Los Angeles, Calif.; said Barr assignor to said Mercer
Application August 8, 1941, Serial No. 405,974
12 Claims. (Cl. 153—1)



1. A film patching device comprising: a base having transversely spaced guides and a flat surface between said guides for receiving overlapped sections of film, means for removably supporting patches on said base in a plane beneath the lowermost film section, said patches having erect teeth at opposite extremities for extension through the sprocket perforations in said film sections, and laterally disposed means movable inwardly from opposite sides over said base, said film sections and said teeth for forming and clinching the teeth over the film sections so as to splice said film sections, said patch supporting means including transverse grooves in said base, and spring members fixed to said base and having their free ends overlying intermediate portions of said patches.

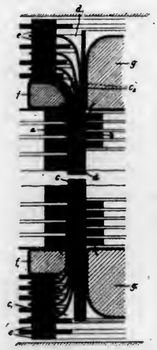
2,348,238
BATH, SINK, AND LAVATORY FIXTURE
Henry F. Beeke and Stephen A. Young, Delphi, Ind., assignors to Globe Valve Corporation, Delphi, Ind., a corporation
Application December 1, 1941, Serial No. 421,101
5 Claims. (Cl. 277—50)



5. In a permanent structure including an initially independent spout and two initially independent valve fixtures, each connected to a supply line and having a lateral discharge, the spout being intermediate the fixtures and the discharges being directed generally towards the spout, said supply lines having predetermined spacing therebetween, determining valve fixture spacing, the combination of a metallic mixing chamber fixture having oppositely directed intake portions and an intermediate discharge portion, the latter having leakproof connection to the spout, each intake portion being elongated, a tubular member aligned therewith, said member and elongated intake portion having an elongated male and female threaded connection therebetween, a ball and socket connection between the adjacent valve fixture discharge and the member, and nut means retaining said ball and socket connection in leakproof relation, the two threaded connections and the two ball and socket connections between the two valve fixtures and the mixing chamber fixture permitting predetermined spout positioning relative to the valve fixtures.

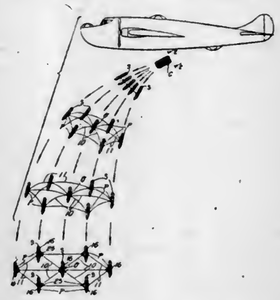
2,348,239
HIGH VOLTAGE TRANSFORMER
Fritz Beldi, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application June 28, 1941, Serial No. 400,316
In Germany July 20, 1940
3 Claims. (Cl. 175—356)

1. In a high voltage transformer comprising concentric high and low voltage windings having an annular gap therebetween, a cylindrical laminated paper insulation structure completely filling the gap between said windings, said insulation structure including a plurality of cylinders of laminated construction telescoped into said annular space alternately from the opposite ends thereof and having end portions extending beyond the ends of the windings, each said telescoping cylinders having one end at which the laminations thereof are in close engagement and an opposite end at which the laminations thereof separated and spread out progressively from a point adjacent the end of the high voltage winding to the respective ends thereof to form a plurality of integral axially spaced annular flange ele-



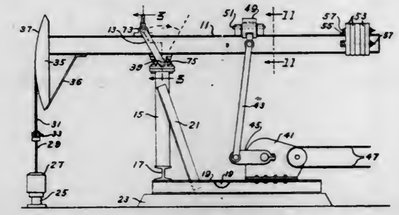
ments extending radially from the body of the cylinder over one end of the high voltage winding, the closely engaged laminated end of each cylinder being adjacent the spread-out laminated end of an adjoining cylinder, the closely engaged laminated end of one of said telescoping cylinders being tapered and belled outwardly to lie adjacent the inner annular flange element on the end of the next adjacent inner cylinder and to fill the gap between the latter and the adjacent part of the transformer.

2,348,240
CLUSTER BOMB
Alexander N. Braun, New York, N. Y.
Application December 11, 1941, Serial No. 422,567
12 Claims. (Cl. 102—2)



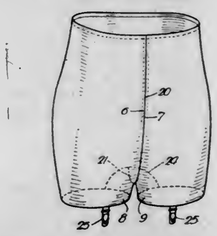
1. A cluster bomb for pattern bombing comprising a plurality of juxtapositioned bomb units, normally coiled cables interposed between each pair of units of said plurality, each of said cables comprising oppositely coiled interconnected and substantially coaxially alined sections, said oppositely coiled sections of a cable having normally compact formations disposed in a pair of juxtapositioned units of said plurality, each of said sections having bifurcated ends, and means connecting said ends to said units.

2,348,241
OIL WELL PUMPING MEANS
Chalon E. Bridwell, Detroit, Mich.
Application August 26, 1941, Serial No. 408,366
12 Claims. (Cl. 74—41)



1. Retractable oil-well pumping apparatus having in combination, a stationary base, a Samson post mounted on said base, a link arm, bearing means journalling one end of said link arm upon the upper end of said post with the other end extending therefrom to be turned to either an operative position or to a retracted position, a walking-beam, bearing means journalling said walking-beam upon the extended end of said link arm, and means for oscillating said walking-beam and link arm together in a predetermined angular relation.

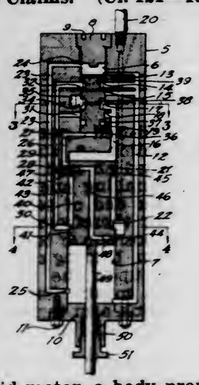
2,348,242
UNDERGARMENT
Conrad Bullinger, Riverside, Ill., assignor to A. Stein & Company, Chicago, Ill., a corporation of Illinois
Application November 9, 1940, Serial No. 364,960
3 Claims. (Cl. 2—224)



1. A form fitting pantie girdle comprising a fabric member having an upper portion provided with side edges united so as to form a tubular body part, and having a lower portion adapted to form legs, said lower portion having sidewise extensions at both sides of the member, said extensions having concave upper edges extending continuously from said upper portion side edges downwardly, outwardly and upwardly, said lower portion being also provided with a centrally disposed notch of substantial width and of a depth approximating the vertical dimension of said lower portion, said notch serving to separate said lower portion into a pair of leg forming sections, the outer side edge of each of said sections being united respectively to the notched-formed inner side edge thereof and the upper edges of said extensions being united to each other substantially in continuation of the seam between the side edges of said upper portion, said notch being of such length and depth and said extensions being of such length that the seam between said upper edges extends substantially from the front to the back of the garment when distended as when being worn,

and such that the seams between the outer and inner side edges of said leg forming sections are disposed substantially in the plane of the portion of the distended garment opposite to the portion thereof containing said first mentioned united side edges.

2,348,243
FLUID MOTOR
Cawthern C. Cole, Whittier, Calif.
Application February 9, 1942, Serial No. 430,085
5 Claims. (Cl. 121—150)



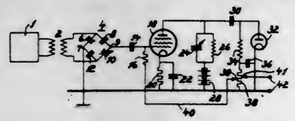
1. In a fluid motor, a body providing a piston chamber and a valve chamber, a piston and a valve each in its respective chamber, a supply port opening into said piston chamber, ports in communication with said valve chamber respectively adjacent each end of said piston chamber and midway therebetween a port in communication with said valve chamber by way of two branch ports; said piston providing means to control the connection of said piston chamber ports with said fluid supply port, a passage means extending from each end of said piston chamber and each opening in to said valve chamber by way of three branch ports, said valve chamber ports being controllable by said valve.

2,348,244
DELAYED-ACTING HARDENER FOR FORMALDEHYDE-UREA ADHESIVES
William C. Dearing, Toledo, Ohio, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio
No Drawing. Application September 17, 1940 Serial No. 357,123
3 Claims. (Cl. 260—29)

3. An adhesive having delayed-hardening properties comprising a composition prepared from water, a water-soluble formaldehyde-urea reaction product, a substance selected from the group consisting of magnesium oxide, magnesium hydroxide, zinc oxide and zinc hydroxide, and a quantity of an ammonium salt of a strong acid that is not less than the approximate chemical equivalent of the quantity of said substance.

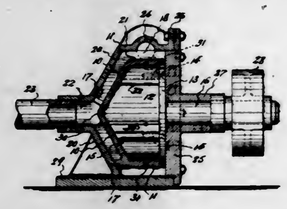
2,348,245
DEVICE FOR CONVERTING VARIATIONS OF A MECHANICAL QUANTITY INTO VARIATIONS OF AN ELECTRIC VOLTAGE
Pieter Heertje Dijksterhuis, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application April 9, 1941, Serial No. 387,780
In the Netherlands May 1, 1940
4 Claims. (Cl. 177—380)

1. A device for converting mechanical variations into electrical voltages which are linearly proportional to the amplitude of the mechanical variations, comprising means to produce a high frequency alternating voltage, means to modulate said high frequency alternating voltage to produce amplitude variations thereof which are non-linearly proportional to the amplitudes of the mechanical variations, and means to convert the non-linear amplitude variations of the high frequency alternating voltage into ampli-



tude variations linearly proportional to the amplitude of the mechanical variations, said latter means comprising a voltage transmission circuit comprising an amplifier for the modulated high frequency voltage and means to produce a control voltage proportional to the non-linear amplitude variations of the modulated high frequency voltage and adapted to vary the amplification of said amplifier.

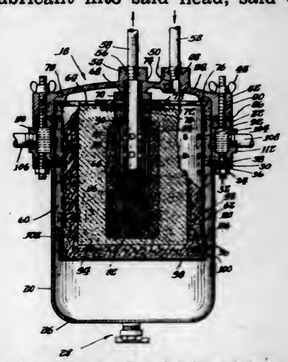
2,348,246
CENTRIFUGAL PUMP
Ralph H. Dixon, Belleville, N. J.
Application May 12, 1942, Serial No. 442,686
4 Claims. (Cl. 103—103)



1. A self-priming centrifugal pump comprising a rotary impeller member having a conical face and a peripheral portion of substantial width concentric to its axis of rotation, impeller vanes projecting from said conical face to extend angularly thereover from points adjacent to its apex to the perimeter thereof and thence across the peripheral portion of said impeller member, said impeller member having an internal chamber provided with an intake means passing axially through the apex of its conical face and outlet means passing radially through the peripheral portion of the impeller member intermediate vanes of the latter, a casing conforming to said impeller member and its vanes, said casing having intake means axially aligned with said impeller member in opposition to its conical face and outlet means substantially tangent to the peripheral portion of said impeller member, and means for driving said impeller member.

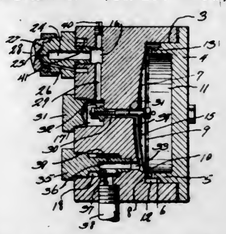
2,348,247
HEATER OR COOLER FOR OIL FILTERS
Charles Benson Dushane, Jr., Chicago, Ill.
Application October 14, 1940, Serial No. 361,076
2 Claims. (Cl. 210—122.5)

1. In a device of the class described, in combination with a relatively deep sheet metal shell having a flange at its upper end, a ring-like water jacket adapted to rest upon said flange, a head adapted to rest upon the upper portion of said water jacket, means for maintaining said water jacket and said head in assembled relation, said head having a concentrically disposed opening, means associated therewith for mounting a clarifier centrally of and within said shell, said clarifier depending into said shell but terminating substantially short of the bottom of said shell to provide a sludge chamber, means formed in the upper portion of said head for introducing unclarified lubricant into said head, said clarifier



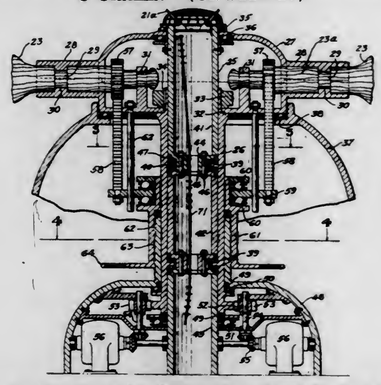
having openings through which said unclarified liquid is adapted to flow into said clarifier, and said clarifier having a concentrically disposed discharge outlet connected with said first mentioned centrally disposed opening for the discharge of the clarified lubricant, and said water jacket having entrance and exit means for flowing heated fluid therethrough from the water jacket of an internal combustion engine whereby to maintain a uniform heating effect upon the lubricant as it passes through the clarifier.

2,348,248
AUTOMATIC VALVE FOR PRESSURE TYPE ATOMIZERS
Olin S. Elliott, Greenville, S. C.
Application August 14, 1941, Serial No. 406,896
3 Claims. (Cl. 137—153)



1. A mixing valve structure comprising a body having a large circular recess formed in one side, a closure plate overlying the recess and having a circular flange extending into the recess, said recess having a bottom of dish-like form within an encircling shoulder, a diaphragm disposed over said bottom with its periphery resting upon said shoulder, said flange bearing against the diaphragm and securing the same against the shoulder, said flange upon its outer side having an encircling channel, the diaphragm dividing the recess into an inner and an outer fluid chamber, said flange having an aperture therethrough establishing communication between the outer fluid chamber and the recess formed in the opposite side of the flange, a fluid conduit leading through the body and having an inlet and an outlet, said conduit including the inner chamber, a valve stem secured at one end to the diaphragm and extending through a portion of the conduit into an enlarged space forming a part of the conduit, said enlarged space having a wall portion formed to provide a valve seat encircling the conduit and facing away from the diaphragm, a valve element carried upon the other end of the stem within said enlarged space for engagement on said seat to close the conduit when the diaphragm is unflexed, the diaphragm when unflexed and when forced past its unflexed position toward the outer chamber, acting to pull the valve to its seat, a second fluid conduit formed through the body and having an inlet end and an outlet end, the said outlet ends of the two conduits joining whereby fluids passing therethrough will be mixed, and said second-mentioned conduit being in communication with the first-mentioned recess for the introduction of fluid into the recess of said closure plate flange.

2,348,249
HELICOPTER
Casimiro Ferro, West New Brighton, Staten Island, N. Y.
Application February 8, 1941, Serial No. 378,032
3 Claims. (Cl. 244—17)

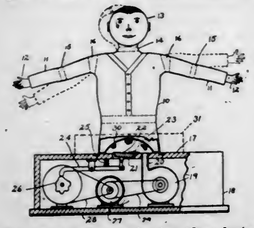


1. In an aircraft of the type described, a body, an upright column in said body, a sleeve embracing the column and rotatable thereon, a head carried by the sleeve, a plurality of lifting propeller blades carried by said head and projecting laterally therefrom, means for mounting the individual blades to turn about their longitudinal axes to vary the pitch of the blades, a stationary sleeve embracing the rotatable sleeve, a collar threaded on the stationary sleeve for longitudinal movement thereon, an operative connection from said collar to each blade to turn the blade to change its pitch on longitudinal movement of the collar, means to turn the collar to adjust the blades, and power means for rotating the sleeve to rotate the blades about an upright axis.

2,348,250
DISPLAY
William M. Gardner and Mary C. Gardner, Pittsburgh, Pa., assignors to Gardner Displays Company, a corporation of Pennsylvania
Application March 17, 1941, Serial No. 383,710
8 Claims. (Cl. 46—119)

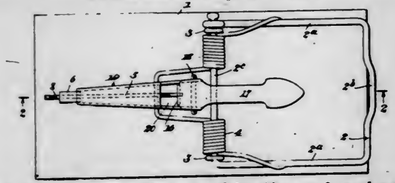
1. A device of the class described comprising a hollow inflatable unicellular body formed from

substantially air-tight flexible material, portions of said material being substantially inextensible and other portions being extensible, means for



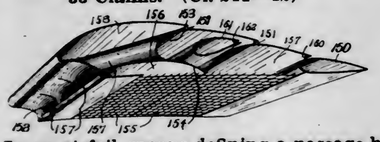
continuously supplying air to the interior of the body and automatic means separate from said air supplying means for relieving and re-establishing the pressure at intermittent intervals.

2,348,251
ANIMAL TRAP
Hershey Roy Graybill, Manheim, Pa., assignor to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania
Application August 27, 1941, Serial No. 408,431
17 Claims. (Cl. 43—83.5)



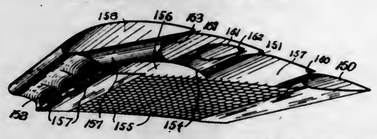
1. In a trap, the combination of a base, a pivoted spring actuated jaw, a counterweighted bait pedal having a trigger portion, means for holding the bait pedal out of contact with said base, and a locking plate having a detent portion for holding the jaw in set position and a trigger engaging portion which is supported by the bait pedal in cooperative relation therewith and out of contact with the base.

2,348,252
AIRFOIL
Roger W. Griswold, II, Old Lyme, Conn.
Application November 23, 1940, Serial No. 367,277
33 Claims. (Cl. 244—42)



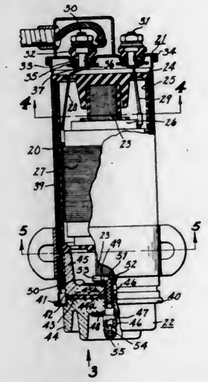
1. In an airfoil, means defining a passage having a relatively small exit and having a relatively large entrance in the lower surface of the airfoil, a member formed of permeable material covering said entrance and forming a portion of the lower surface of the airfoil, said material constructed and arranged to be pervious to airflow, including incipient and developed turbulent boundary layer flow, impinging angularly against said lower surface portion, and generally impervious to air flowing parallel to the lower surface of the airfoil, said exit being disposed in a region of low pressure relative to that existing at said entrance whereby inflow through said permeable material is effective to minimize energy loss in the lower surface boundary layer flow.

2,348,253
AIRFOIL
Roger W. Griswold, II, Old Lyme, Conn.
Application August 1, 1941, Serial No. 405,083
26 Claims. (Cl. 244—42)



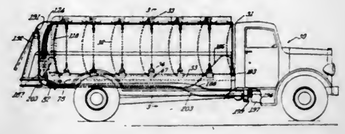
1. An airfoil having a relatively large entrance passage, said passage upstreamwardly directed and forwardly disposed asymmetrically in the leading edge stagnation region of relatively high pressure, a relatively small nozzle-shaped discharge slot downstreamwardly directed and disposed rearwardly from said passage in a region of relatively low pressure, and a chamber formed within said airfoil and establishing communication between said passage and said slot, said passage being formed by surfaces converging to a throat and diverging inwardly to merge into said chamber.

2,348,254
TERMINAL SEAL FOR IGNITION COILS
Herman L. Hartzell, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 5, 1941, Serial No. 417,959
5 Claims. (Cl. 174—18)



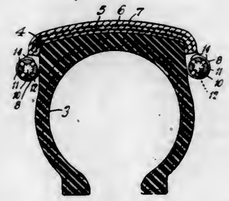
5. In an ignition coil having a case for inclosing a core, electric windings and an insulating liquid, means for closing the case and maintaining a seal thereof, said means including a metallic ring attached to the case and having a tubular portion extending into the case and an internal flange constituting a rest for a body of resilient non-porous insulating material; insulating blocks disposed on opposite sides of the flange and on opposite faces of the body and having arcuate ridges for engagement with the body; a terminal extending through the blocks and body; and means including a portion of the terminal for clamping the internal flange of the ring and the body between the blocks and compressing the body causing same to flow in directions to fill completely the spaces between the body and terminal, the blocks, and the tubular portion of said under surface of the flange respectively thereby effecting complete insulation of the terminal from the case, and completes a seal against fluid creepage past said body.

2,348,255
TANK DISCHARGE CONTROL MEANS
Frank A. Holby, Riverside, Conn., assignor to The William F. Kenny Company, New York, N. Y., a corporation of New York
Application February 27, 1940, Serial No. 321,147
19 Claims. (Cl. 222—54)



1. In combination, a tank equipped with a bottom discharge valve, a top vent valve, a connection between the two valves whereby the discharge valve is opened as a result of the opening of the vent valve, an unloading valve, a conduit connecting said discharge and unloading valves, an operating lever, and connections between said operating lever and the vent and unloading valves whereby swinging of said lever in one direction causes opening of the vent and unloading valves, said connections including a pair of cams and followers, the cams being rotatable by the lever and followers being in connection with said vent valve and unloading valve respectively.

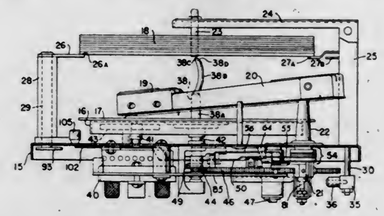
2,348,256
REMOVABLE TIRE COVER
Henry L. Hollis, Chicago, Ill.
Application February 21, 1942, Serial No. 431,813
1 Claim. (Cl. 152—185)



A tire cover having a fabric body and a flexible body surrounding and coating said fabric, and including a product resulting from the chemical reaction of resorcinol paranitroaniline and formaldehyde.

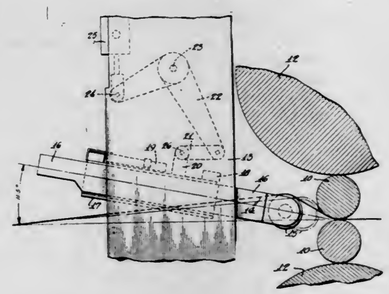
2,348,257
AUTOMATIC RECORD-CHANGING APPARATUS
Fritz Kahl, Fort Wayne, and Ortis C. Booher, Huntington, Ind., assignors to Farnsworth Television and Radio Corporation, a corporation of Delaware
Continuation of application Serial No. 348,576, July 30, 1940. This application July 27, 1942, Serial No. 452,410
2 Claims. (Cl. 274—10)

1. In an automatic phonograph having record-changing apparatus for handling records of relatively small diameter and relatively large diameter, a turntable and a pickup arm with a stylus for reproducing a record on said turntable, said pickup arm being adapted to move inwardly over said turntable and outwardly from said turntable, the combination comprising a means for controlling a record-changing cycle, a pickup arm control member having an aperture therein and engaging said means, means connected to said pickup arm and said pickup arm control member comprising a member within said aperture for engaging the walls thereof to control the movement of said pickup arm during a record-changing cycle, said aperture being of such size that it allows free movement of the pickup arm during the playing of a record, a stop means positioned adjacent said pickup arm control member to limit the movement of said control member and said pickup arm when said pickup arm is moving in-



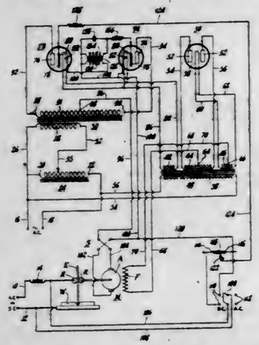
wardly with respect to said turntable during a record-changing cycle, a record support adjacent said turntable movable to a plurality of positions for supporting records of different diameters at their margins and means movable with said record support and engaging said stop means for moving said stop means in accordance with the position of said record support whereby said pickup arm may be moved inwardly to a predetermined position with respect to said record.

2,348,258
BILLY ROLL
Clarence J. Klein, Marland Heights, W. Va., assignor to National Steel Corporation, a corporation of Delaware
Application December 22, 1941, Serial No. 424,065
6 Claims. (Cl. 80—51)



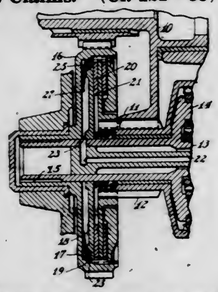
1. A billy roll arrangement for a cold rolling mill in which a metal strip to be reduced is passed under back tension between the work rolls of a mill stand, the combination comprising guide means on the entrance side of the mill stand, carriage means movably associated with the guide means so as to have straight line movement toward and away from one of the work rolls, a major component of said straight line movement being parallel to the pass line, and an idler roll carried by the carriage means and movable thereby between operative and inoperative positions, the idler roll in operative position being not farther from said one work roll than a distance equal to the diameter of the idler roll and engaging the tensional strip to feed the same to the work rolls at an angle to the pass line.

2,348,259
ELECTRIC CONTROL CIRCUITS
John A. Kratz, Yonkers, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application May 14, 1942, Serial No. 442,892
10 Claims. (Cl. 314—64)



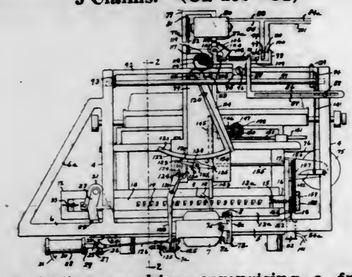
4. An electric welding system comprising, in combination, a welding circuit including a fusible electrode and the work to be welded; electrically operable feeding means for advancing said electrode toward the work; a pair of grid-controlled space discharge devices controlling the energization of said electrically operable feeding means; means responsive to an electrical condition of said welding circuit for initially rendering only one of said devices operative to energize said electrically operable feeding means; and means responsive exclusively to the operative condition of said one device for rendering the other device operative to energize said electrically operable feeding means.

2,348,260
CLEANING MEANS FOR HYDRAULIC CELLS
Vincent T. Moore, Glen Rock, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application September 17, 1941, Serial No. 411,205
8 Claims. (Cl. 121—38)



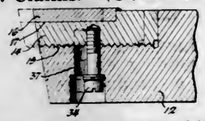
1. In a piston-cylinder motor rotating on its own axis and having means to feed pressure fluid thereto, said piston being reciprocable in said cylinder by said pressure fluid, means to break up accumulations of solid matter centrifuged out of the fluid onto the cylinder wall comprising an annulus peripherally bearing on the cylinder wall adjacent said piston, and inward resilient projections on said annulus bearing on the cylinder head, whereby upon reciprocation of the piston in the cylinder, said annulus is caused to move over the cylinder surface.

2,348,261
LINE JUSTIFYING TYPING MACHINE
Samuel R. Nicks, Houston, Tex.
Application January 19, 1942, Serial No. 427,242
5 Claims. (Cl. 197—84)



1. A typing machine comprising a frame, a work holding carriage movable on the frame, a plurality of printing type of varying widths, means for selectively actuating the type into printing relation with the work on the carriage to form a printed line, a movable spacing bar, a clutch for connecting the movable spacing bar with the carriage, a clutch on the frame operable to hold the carriage against movement, means for controlling the range of movement of the spacing bar, means arranged to be rendered operative by the operation of the line printing mechanism and under the control of the operator and effective to actuate said range controlling means whereby the latter will be automatically adjusted in accordance with the overrun of the printed line and the number of characters in the line to control the range of movement of the bar to cause the line to be justified when it is re-typed.

2,348,262
CUTTING TOOL
Lawrence C. Oak, Huntington Woods, and James B. Donnelly, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application September 7, 1942, Serial No. 457,594
7 Claims. (Cl. 29—95)

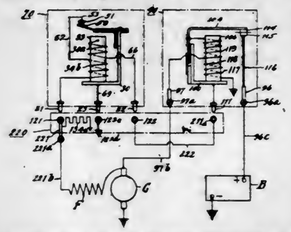


1. In a cutting tool, a cutting bit permanently secured to a backing piece, a shank, and means whereby said backing piece is removably and adjustably secured to said shank, in which said means include a tapped hole in said backing piece, a shank, a hole in said shank, and a set screw extending through said hole in said shank into said tapped hole in the backing piece for securing said parts together, there being clearance between said set screw and the wall of the hole in the shank to permit adjustment in the position of said cutting bit and backing piece relatively to the shank.

2,348,263
REGULATOR FOR AUTOMOTIVE GENERATORS
William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 20, 1942, Serial No. 435,560
3 Claims. (Cl. 220—69)

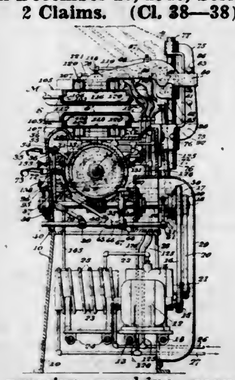
1. An instrument assembly for use in a battery charging circuit including a generator and a storage battery comprising a voltage regulator,

a cut-out relay and a base for supporting the regulator and relay and for making electrical connections therewith said base being one of a plurality of bases with which the voltage regulator and cutout relay may be used; said regulator having a pair of normally closed contacts for by-passing a generator field resistance, an armature for separating the contacts, an electromagnet for attracting the armature and having a main voltage responsive winding and a generator field current carrying winding, and having a circuit comprising a first plug and the field current winding and the contacts and a second plug, and having a circuit comprising the second plug and the voltage responsive winding and a third plug; said cutout relay having a pair of normally open contacts, an armature for



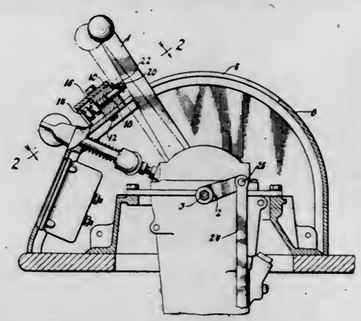
closing them and an electro-magnet for attracting the armature having a current coil in series with the contacts, and having a generator voltage responsive coil, and having terminals for connecting the contacts and current coil into the battery charging circuit and having a plug connected in parallel with the voltage coil; said base carrying a terminal connected with the generator field, a resistance connected with the field terminal and with ground, and carrying first, second, third and fourth connector sockets for receiving, respectively, the first, second and third plugs of the voltage regulator, and the plug of the cut-out relay, and carrying means for connecting the first socket with the field terminal carried by the base, means for connecting the second socket with ground, and means for connecting the third and fourth sockets.

2,348,264
PRESSING MACHINE
Robert H. Reece, Holliston, and Alfred G. Gilbert, South Acton, Mass., assignors to Reece Folding Machine Company, East Cambridge, Mass., a corporation of Maine
Application December 10, 1940, Serial No. 369,448
2 Claims. (Cl. 38—38)



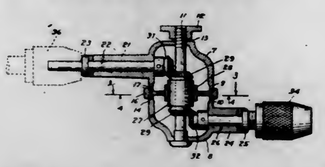
2. In a pressing machine, cooperating press elements, means for automatically closing said elements upon work interposed between them and for thereafter opening the same, manually controlled means for supplying power to said closing and opening means, separate means adapted to cooperate with said manually controlled means for automatically interrupting the operation of said opening and closing means at predetermined times, and manually adjustable means for optionally rendering said interrupting means inoperative whereby to cause said opening and closing means to operate in continuous recurrent cycles.

2,348,265
ENGINE CONTROL MEANS
Edward V. Rippingille, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 23, 1942, Serial No. 459,369
1 Claim. (Cl. 74—526)



Control means for an engine including a member movable to vary the amount of fuel supplied thereto from zero to maximum, fixed stop means determining the position of the member for zero fuel supply, and a removable spacer between said fixed stop means and said member for determining the position of the member for idle running of the engine, said removable spacer being supported in a pocket in said fixed stop means, into which it is inserted when in use, and screw means extending into the other end of the pocket for adjusting the depth thereof.

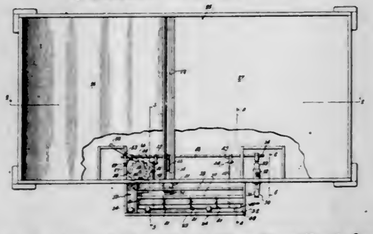
2,348,266
ANGLE TOOLHOLDER
Dwight E. Selby, deceased, late of Seattle, Wash., by Christian A. Andresen, executor, Seattle, Wash., assignor, by direct and mesne assignments, of one-half to Clifford M. Harbough and Inez Cherry, both of Salem, Oreg., and one-half to Albert P. Peters, San Francisco, Calif.
Application October 28, 1941, Serial No. 416,809
3 Claims. (Cl. 77—31)



1. In an angle tool holder, a pair of hollow sections complementing each other to form a closed casing, a partition disc between and engaged with the adjacent ends of said sections, releasable con-

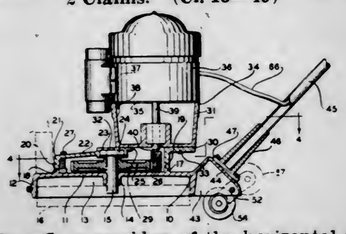
necting means between at least one of said sections and said disc to allow the rotary adjustment of said section relatively to the disc and the other section, and to hold said adjusted section in adjusted position when said sections are tightly held together, means to hold said sections together and against said disc, said holding means being adapted to loosen said adjustable section for angular adjustment, a shank extended through each section, a transmission in the casing journaled in said disc and connected to said shanks so as to allow the angular adjustment of said sections, one of said shanks being adapted for connection to a rotating spindle of a machine, and means on the other shank to hold a tool in operative position on the latter shank.

2,348,267
COIN CONTROLLED GAME APPARATUS
Moyce H. Sikes, Atlanta, Ga.
Application December 12, 1940, Serial No. 369,877
3 Claims. (Cl. 273—11)



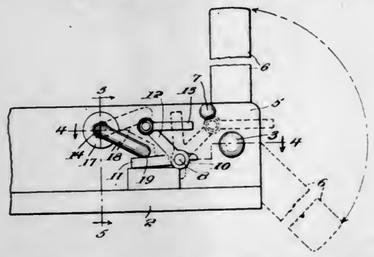
1. A device of the character described for use with game apparatus employing balls, the device comprising a receptacle having therein a detaining pocket to initially receive the balls and also having compartments to which balls are distributable from said detaining pocket, a barrier means relatively low with respect to the height of the pocket and diameter of said balls to stop the passage of said balls to said receptacle but allowing space for the lifting of the balls thereover for passage to the receptacle and distribution to one of said compartments, said barrier means defining said pocket, said receptacle being closed to unauthorized removal of balls but at a part thereof being open to an extent enabling access to and manual gripping of the balls, and means for the discharge of balls from said compartments to the exterior of the receptacle.

2,348,268
FLOOR SCRUBBING MACHINE
Henry V. Smith, St. Paul, Minn.
Application April 29, 1942, Serial No. 441,047
2 Claims. (Cl. 15—49)



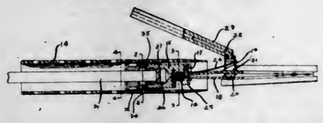
1. In a floor scrubber of the horizontal rotary type embodying a scrubber member and gearing for rotating it about a vertical shaft, a base casting having an integral circular depending flange substantially enveloping in close relation the rotating limits of the scrubber member, a circular annular rib integrally formed on the top of said base casting and spaced from the outer limits thereof, a second casting having an annular flange, said flange and rib being of the same diameters and formed to provide a union between the same, means rigidly securing the second casting to the rib to form a housing for the gearing that drives the scrubber, a cup casting supported upon and secured to the top of the second casting toward one side thereof and toward the side of the base casting, and a vertical-shaft motor held directly upon the upper annular edge of said cup casting.

2,348,269
TRUCK STANCHION
William E. Stevens, Marion, S. C.
Application October 13, 1941, Serial No. 414,843
3 Claims. (Cl. 280—145)



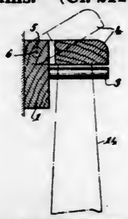
1. In a device of the character described, a pair of spaced apart support members, a pivot element mounted transversely of the said members, a stanchion mounted to pivot on the said pivot element so as to provide a relatively short portion inwardly of the pivot and a long body portion outwardly thereof, a shaft mounted transversely of the support members below the stanchion pivot and spaced horizontally therefrom, a round cam element fixed eccentrically on the shaft, the said cam being disposed for turning movement to bear against the short end of the stanchion to hold the body in upstanding position and to an angular position out of the path of movement of the short end of the stanchion to allow the body to swing outward, and lever means secured to one end of the cam shaft for selective operation of the cam.

2,348,270
ELECTRODE HOLDER
Frank G. Van Dyke, Detroit, Mich., assignor to Bordon Mfg. Co., Inc., Detroit, Mich., a corporation of Michigan
Application July 6, 1942, Serial No. 449,872
7 Claims. (Cl. 219—8)



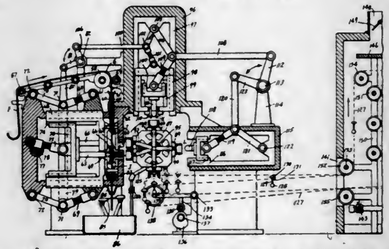
3. In an electrode holder of the class described, a tubular handle of heat and electrical insulating material; a metallic liner in said handle; a metallic cable connector inserted in said liner; and means accessible exterior of said handle and contained within said handle for binding said connector in clamping engagement with said liner.

2,348,271
NECKTIE RACK
William Vonschott, Glendale, Long Island, N. Y.
Application February 6, 1942, Serial No. 429,705
4 Claims. (Cl. 211—89)



4. A rack for neckties comprising a base piece, a cover piece hinged to said base piece for rotation about a longitudinal axis, and a series of parallel pegs aligned with respect to said axis and secured to said base piece at right angles thereto, said cover piece being sufficiently heavy to exert the downward pressure on neckties hung over said pegs necessary to hold them in place.

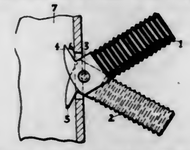
2,348,272
PULP PRODUCT PRODUCTION
Lee M. Wiley, Marion, Ind., assignor of one-third to Julian T. Lett and one-third to Reeley B. Wiley, both of Marion, Ind.
Application September 9, 1940, Serial No. 355,968
7 Claims. (Cl. 18—56)



1. The process of forming molded, liquid repellent and heat resistant structures of a shape other than a flat sheet including molding a flat blank of paper pulp sheet to substantial container structure form, the sheet including coating material of size, resin or like character and liquid solvent such as water, et cetera, such molding mechanically modifying the sheet to the approximate final shape of the structure and simultaneously expressing a certain portion of the liquid from the structure, then free drying the structure to expel additional liquid from the structure and at a temperature insufficient to thermally react upon the coating material, then pressure forming the structure into final form and compacting the coating material upon the structure, and then heating the final formed structure to a temperature sufficient to expel additional liquid to produce a commercially dry structure and to melt and flow the coating material upon the surface of the structure to form a continuous and homogeneous coating of liquid repellent and heat resistant character upon the structure.

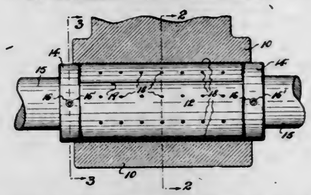
2,348,273
LEAK MENDER
Luther Martin Yaggy, Bagley, Minn.
Application September 2, 1942, Serial No. 457,098
1 Claim. (Cl. 220—25)

A leak mender comprising a screw threaded bolt divided lengthwise into two members, a pin pivotally connecting said members permanently to one another, feet extending each at an angle to the main part of each of said members and in opposite directions from the bolt as a whole,



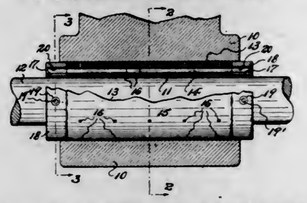
a packing surrounding said members, a nut to bind said packing in place, and a washer between said nut and said packing, said pin being located adjacent said feet and extending at right angles thereto.

2,348,274
SHAFT JOURNALING MEANS
Evender S. Aker, Belleville, N. J.
Application July 28, 1943, Serial No. 496,384
10 Claims. (Cl. 308—240)



1. A device for journaling a shaft in a bearing comprising a cylindrical journal structure affixed to said shaft in surrounding relation thereto, said journal structure having a bearing surface portion of non-metallic material, means spaced inwardly from the bearing surface of said journal structure adapted to provide water receiving spaces, and said journal structure having radial water delivery passages leading outwardly from said receiving spaces to emerge at its bearing surface, whereby centrifugal force induced by rotation of the shaft and journal structure discharges lubricating water from said receiving spaces onto opposed bearing surfaces of the journal structure and the bearing in which it is supported.

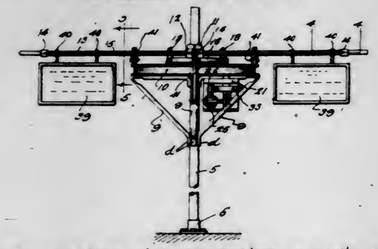
2,348,275
SHAFT JOURNAL
Evender S. Aker, Belleville, N. J.
Application July 28, 1943, Serial No. 496,385
9 Claims. (Cl. 308—240)



1. A device for journaling a shaft in a bearing comprising a cylindrical non-metallic journal body of substantial wall thickness surrounding said shaft, said body having water receiving spaces entering the same from an end thereof to extend longitudinally thereinto and spaced inwardly from the external bearing surface thereof, and said body being further provided with radial water delivery passages leading outwardly from said receiving spaces to emerge at said bearing

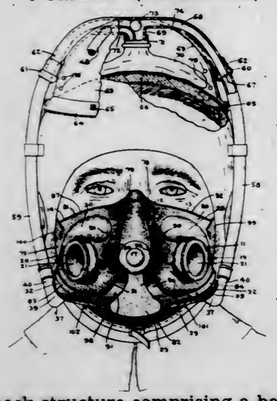
surface, whereby centrifugal force induced by rotation of said shaft and journal body discharges lubricating water from said receiving spaces through said delivery passages onto opposed bearing surfaces of the journal body and the bearing in which it is supported.

2,348,276
MECHANICAL SIGN APPARATUS
Andrew J. Alford, McComb, Miss.
Application April 28, 1942, Serial No. 440,859
3 Claims. (Cl. 40—35)



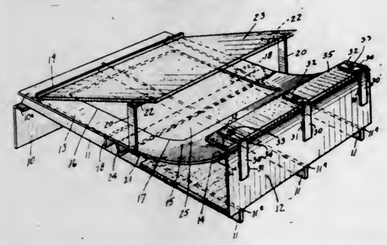
1. In a rotary sign apparatus, a post, a hub journaled on the post and having horizontal arms radiating therefrom, brackets radiating from and fixed on the post beneath said arms, a circular horizontal track mounted on the brackets concentric with the post, rollers carried by the arms and running on the track, the outer ends of said arms projecting outwardly of the track, and signs suspended from the outer ends of the arms.

2,348,277
OXYGEN MASK
Walter M. Boothby and Arthur H. Bulbulian, Rochester, Minn.
Application April 14, 1941, Serial No. 388,482
7 Claims. (Cl. 128—202)



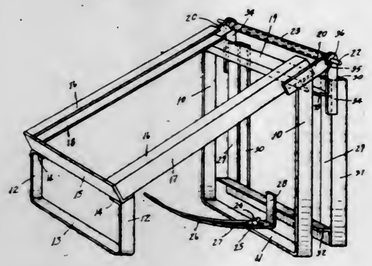
1. A mask structure comprising a body portion adapted to be held upon the face and providing a sealed breathing chamber therein, said mask structure being shaped and formed to enclose the cheeks and the chin of the wearer, raised portions in pairs above the respective cheek parts of the mask forming pairs of connected curved air-breathing channels open along their sides into the breathing chamber, each pair of said channels extending into a single passageway forming an opening from the breathing chamber in the mask body over face-contacting parts, and an extruded turret adapted to hold a valve structure within and encircled by each of said pairs of curved passageways.

2,348,278
APPARATUS FOR FORMING COMBINATION CURVED AND STRAIGHT GLASS
Edgar R. Boyles and Clarence M. Pattison, Hartford City, Ind., assignors to The Johnston Glass Co., Inc., Hartford City, Ind., a corporation
Application December 26, 1940, Serial No. 371,702
5 Claims. (Cl. 49—67)



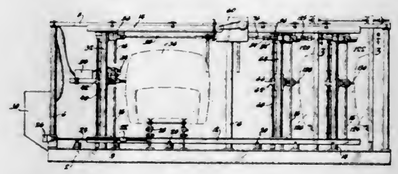
1. A mold structure for bending substantially flat glass sheets to the desired contour including a base having a plurality of spaced beams rigidly connected together at opposite ends, a centrally apertured sheet-like template having the desired contoured glass sheet supporting surface and rigidly supported at its ends and intermediate same by said base, the major portion of the template being spaced from the beams, a glass sheet stop on the template, and heat shielding sheet means beneath the template and registering with and of greater area than the template aperture and supported by the beams immediately adjacent the template.

2,348,279
APPARATUS FOR FORMING AND ANNEALING COMBINATION CURVED AND STRAIGHT GLASS
Edgar R. Boyles and Clarence M. Pattison, Hartford City, Ind., assignors to The Johnston Glass Co. Inc., Hartford City, Ind., a corporation
Application December 26, 1940, Serial No. 371,703
5 Claims. (Cl. 49—67)



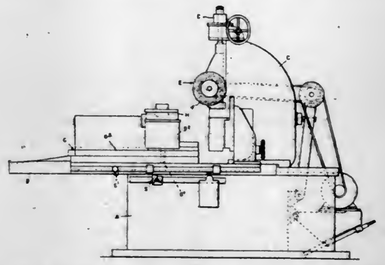
1. Mold apparatus for bending glass sheets including a stationary base, a grooved frame carried thereby and adapted for glass sheet reception and support, a second grooved frame normally constrained to movement in a predetermined direction, means pivotally supporting the second frame upon the base in spaced relation to the first frame, one of the frames being detachably connected to the base and adapted for groove reception of the glass sheet, the two frames having coplanar alignment when a glass sheet is simultaneously included therein, the second frame being sustained by the glass sheet in said alignment against the constraint, and means coaxial with the pivotally supporting means for the second frame for glass sheet support between the frames, the glass upon softening adjacent said means bending about the same and permitting second frame pivoting by its constraint for bent glass sheet formation, removal thereof from the frames requiring the detachment of the detachable frame from the base.

2,348,280
DUPLICATING MECHANISM
Tracy F. Brackett, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 13, 1941, Serial No. 378,707
4 Claims. (Cl. 90—13.5)



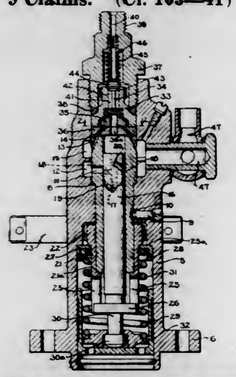
1. In duplicating mechanism, a stationary frame upon which may be mounted a model and a plurality of blanks in spaced relation, a movable frame supported thereon, a tracer head and a plurality of cutter heads mounted upon the movable frame associated with the model and blanks respectively, means for moving said tracer and cutter heads simultaneously across the surface of the model and blanks respectively, one of said cutter heads traveling in the opposite direction to the other, and means controlled by the tracer head to move the movable frame normal to the model to maintain the tracer in light contact upon the model surface and move the cutters to generate the model surface, one cutter producing one half of the model and the other the complementary half with a scanning of only one side of the model.

2,348,281
MACHINE FOR GRINDING RACKS
Samuel G. Brady, Royal Oak, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan
Application August 10, 1942, Serial No. 454,307
6 Claims. (Cl. 51—92)
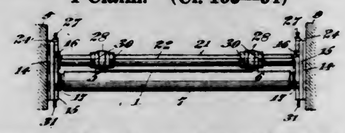


2. In a machine for grinding racks including a form grinder wheel, a main table, a swing table and a work holding carriage mounted for transverse movement on said swing table; of indexing mechanism comprising an exchangeable master rack mounted on said carriage, and cooperating means mounted on said swing table including a locking dog, a rock lever, a pawl on said rock lever, hydraulic motors for respectively actuating said pawl and locking dog into and out of engagement with said rack, valves controlling the supply of fluid to said motors, and timed controlling means for said valves whereby said motors are actuated in predetermined sequence.

2,348,282
FUEL INJECTION APPARATUS
Albert T. Bremser, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 1, 1941, Serial No. 391,362
9 Claims. (Cl. 103—41)



1. In a fluid pumping means comprising a cylinder and an adapter, the latter having a valve-controlled discharge passage and a fluid chamber connected to said passage, the combination therewith of a valve mechanism comprising a valve seat secured between said adapter and said cylinder, fluid inlet passages communicating with said chamber through said seat, and a pressure responsive movable member disposed in said adapter chamber and adapted to operatively engage said seat to control the flow of fluid from said inlet passages into said chamber, said seat and said member having central passages therethrough providing continuous communication between the interior of said cylinder and said adapter chamber.

2,348,283
BURR MASHER
Francis Daniel Dolan, Dundalk, Md., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application May 9, 1941, Serial No. 392,739
1 Claim. (Cl. 153—54)



A burr masher for moving metal strip or the like, comprising a pair of supports relative to which the strip is fed, a U-shaped side frame secured to each support, bearing boxes slidably mounted in each side frame, an arbor journaled in the upper bearing box on each side, a keyway on the arbor, adjustable rollers having a slight inward taper keyed to the keyway on the arbor and rotated by frictional contact with the moving strip, a bottom roll journaled in the lower bearing boxes, a metal strap fastened across the

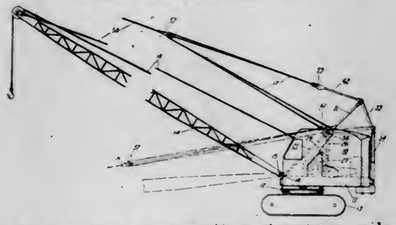
top of each side frame, a coil spring beneath each strap for holding the bearing boxes in position, a press screw threaded through each strap for adjusting the pressure of the spring, and a second press-screw threaded through the bottom of each side frame for vertically adjusting each lower bearing box.

2,348,284
ELECTROLYTIC CAPACITOR
Frank S. Dunleavey, Fort Wayne, Ind., assignor, by mesne assignments, to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application August 14, 1939, Serial No. 290,004
7 Claims. (Cl. 138—78)



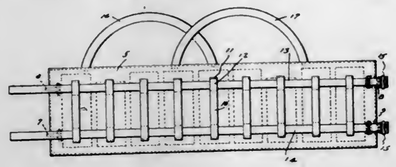
1. A tubular article for enclosing an electrolytic capacitor comprising an outer strengthening layer, and having an inner liner comprising three layers of material one of said layers being composed of a cellulose derivative, another layer being composed of metal foil and a third layer composed of paper, and an adhesive located between said cellulose derivative and said metal foil layers.

2,348,285
RETRACTABLE MAST
Hilmer N. Ekbom and Luther H. Crow, Cedar Rapids, Iowa, assignors to Link-Belt Speeder Corporation, Chicago, Ill., a corporation of Illinois
Application May 26, 1941, Serial No. 395,260
3 Claims. (Cl. 212—59)



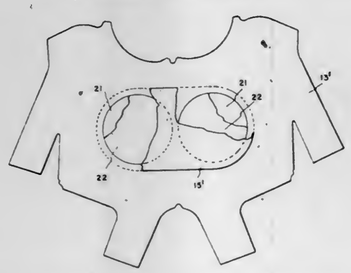
1. In a crane, a supporting structure, a boom pivotally secured thereto, a lower mast structure secured in substantially fixed relation to the supporting structure, an upper mast structure pivotally secured to the upper end of the lower mast structure for swinging movement in the vertical longitudinal plane of the supporting structure, a bail pivotally secured to the upper end of the upper mast structure and extending forwardly in the direction of the boom, a boom hoist cable extending between the free end of the bail and the boom hoist, rigid means for supporting the upper end of the upper mast structure in either upwardly extended position or in lowered position substantially parallel with the roof of the crane, and spacing means for providing a lengthened lever arm between the point of attachment of the cable and bail and the pivotal mounting point of the upper mast and preventing interference between the boom hoist cables and the upper end of the lower mast structure whereby direct lifting effort is applied to the upper end of the upper mast before the boom is lifted from the ground.

2,348,286
LIFE BELT
Frank Andrew Falanga, Brooklyn, N. Y., assignor of thirty-three per cent to Concetta Falanga and thirty-four per cent to Andrew Falanga, both of Brooklyn, N. Y.
Application January 26, 1943, Serial No. 473,641
1 Claim. (Cl. 9—17)



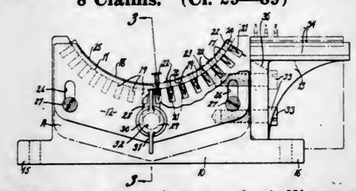
A life belt comprising a pair of coextensive fabric body-encircling bands, including an inner band and an outer band secured one against the other, said outer band having spaced apart offset portions forming cells at the outside of the belt, the inner band having a smooth surface adapted to lie next to a person's body, floatable elements in the cells, shoulder straps secured to the belt, said shoulder straps being secured with corresponding end portions in overlapping relation, fabric strips secured vertically to the inner band, loops at the upper and lower ends of the strips, and upper and lower straps mounted in said loops and adapted for securing about the body of a person.

2,348,287
METHOD OF FORMING COMPOSITE ARTICLES
Edmund J. Fiekers, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application March 2, 1942, Serial No. 433,100
1 Claim. (Cl. 154—2)



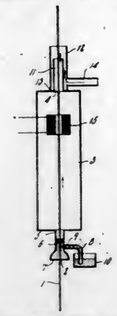
The method of forming a composite article comprising placing two superimposed members of absorbent material between superimposed sheets of vulcanizable material, vulcanizing the sheets while holding adjacent surfaces in contact to secure the sheets together and to the adjacent surfaces of the members, forming an opening through the sheets and members to provide a pocket around the opening with absorbent linings on opposed walls thereof, applying a solvent to the linings, inserting into the pocket the outer edge portion of a closure comprising a material which is soluble in the solvent solution and becomes tacky when softened, and forcing the opposed linings into intimate contact with the adjacent portion of the closure to impregnate the linings with the softened material from the closure.

2,348,288
FIXTURE FOR INSTALLING AND REMOVING THE ABRADING ELEMENTS OF ROTARY ABRADERS
Raymond A. Fontaine, Hamden, Conn., assignor of one-half to Nathan E. Cooper, New Haven, Conn.
Application October 8, 1943, Serial No. 505,434
8 Claims. (Cl. 29—89)



1. A fixture including an installing-member having a concave arcuate installing-seat and formed with a plurality of clearance-grooves extending crosswise of the said installing-seat and spaced from each other in a direction lengthwise of the said arcuate installing-seat in intersecting relationship with the latter.

2,348,289
APPLICATION OF LIQUID TREATING MATERIAL TO STRIP MATERIAL
Raymond B. Frost, Rutherford, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 19, 1943, Serial No. 472,849
8 Claims. (Cl. 91—55)

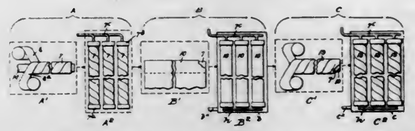


1. Apparatus for applying liquid to strip material comprising a chamber adapted to hold a body of treating liquid in the bottom thereof, said chamber having top and bottom openings for the passage therethrough of strip material, means for withdrawing air from the interior of the chamber so as to create a partial vacuum in said chamber, whereby treating liquid in the bottom of the chamber will be prevented by the pressure of the atmosphere from flowing out of said bottom opening, and means for supplying treating liquid to a body of treating liquid in the bottom of said chamber.

2,348,290
STABILIZED MOTOR FUEL
Everett E. Gilbert, Elizabeth, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware
No Drawing. Application March 28, 1941,
Serial No. 385,695
6 Claims. (Cl. 44—74)

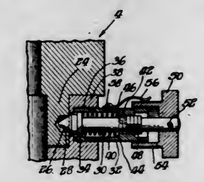
1. A composition comprising gasoline normally tending to oxidize in storage and an alkyl amino diphenyl amine effective to inhibit said oxidation.

2,348,291
MANUFACTURE OF PLYWOOD TUBING AND THE LIKE
Paul R. Goldman, Andover, Mass., assignor to Plymold Corporation, Lawrence, Mass., a body corporate
Application January 22, 1943, Serial No. 473,212
7 Claims. (Cl. 144—309)



1. In the manufacture of wood tubing and the like, the process which includes the steps of spirally winding wood veneer stripping to form a hollow tubular core element, applying a polymerizable bonding agent to such winding, sealing the ends of said core element pressure-tight to present its hollow interior as a closed chamber, supplying a gas medium at above-atmospheric pressure to the sealed chamber of said core element thereby creating a substantial positive pressure differential therein, maintaining such pressure differential during permeation of the gas medium at least partially through the wall for a substantial portion of the polymerizing period for the particular bonding agent, thereafter winding one or more veneer layers onto the core element to provide a composite tubing body, applying a polymerizable bonding agent to and between the windings, venting the end-sealed interior chamber of the tubing body to not greater than atmospheric pressure, confining the sealed and vented tubing body in a pressure compartment and there subjecting it to a gaseous medium under pressure adequate to create a substantial positive pressure differential externally upon and into the body wall, and maintaining such pressure differential through at least an initial portion of the polymerizing period for the selected bonding agent.

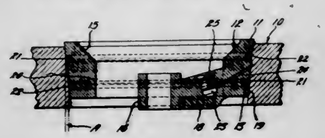
2,348,292
AUTOMATIC LATCHING AND LOCKING DEVICE
Henry R. Gross, Chicago, Ill.
Application April 8, 1943, Serial No. 482,253
3 Claims. (Cl. 29—49)



1. In a device of the character described, first and second members rotatable relative to each other about a common axis, the first of said members having a predeterminedly positioned radial opening therein, a slidable latch, the second of said members carrying a guide for said slidable latch, a first threaded part carried by said latch, said guide having a second, threaded part for cooperation with the threaded part of the latch, a spring fixed at one end relative to said second member and at the other end engaging said latch for resiliently urging said latch radially into said opening and the first threaded part into engage-

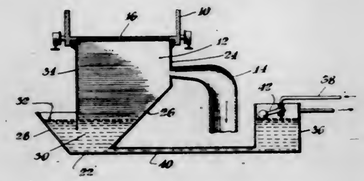
ment with the second threaded part when the opening is radially aligned with said latch, and means for rotating said latch and said guide relative to each other for locking said latch against release.

2,348,293
TAPERED BUSHING AND METHOD OF REMOVING THE SAME
Leland S. Hamer, Long Beach, Calif., assignor of one-third to Paul A. Dewhirst, Los Angeles, and one-sixth to Vernon Zillgitt, Long Beach, Calif.
Application October 7, 1940, Serial No. 360,140
8 Claims. (Cl. 308—237)



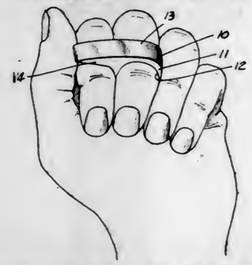
1. In combination, a support having a tapered opening, a tapered bushing seated in the opening, there being a space between the wall of the opening and the periphery of the bushing, sealing means for preventing the escape of fluid pressure from the ends of the space, and means for conducting fluid pressure to said space to free the bushing from the opening.

2,348,294
WIND BOX FOR SINTERING MACHINES
Charles H. Harris, San Luis Potosi, Mexico, assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application June 10, 1941, Serial No. 397,381
3 Claims. (Cl. 266—15)



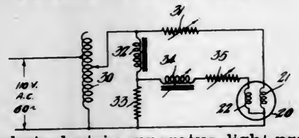
2. In metallurgical sintering machines of the down-draft conveyor type, the improvement which consists in providing a stationary windbox having a trough in the bottom portion extending in the direction of the conveyor movement, means for supplying water to said trough, said trough of water being divided longitudinally by one of the side walls of the windbox, said trough dividing wall extending below the level of the water in the trough to provide a water seal in the lower part of the windbox but terminating a substantial distance above the bottom of said trough forming an outer trough portion which is open to the atmosphere, said open-trough portion providing a passageway through which material falling into the trough from the conveyor may be removed without adversely affecting the normal draft on the sintering machine, by scraping it under said trough dividing wall into said open trough portion and up through the water over the rim of the trough, and means responsive to a lowering of the water level in the trough for maintaining the water seal in said windbox.

2,348,295
SUPPORT FOR FABRIC MARKING
Bruce Hartshorn, Baldwin Park, Calif., assignor of one-half to Kenneth Glandon, El Monte, Calif.
Application May 24, 1943, Serial No. 488,194
6 Claims. (Cl. 281—1)



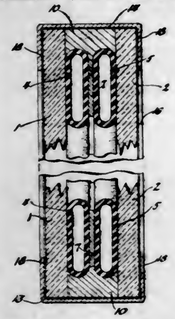
4. A supporting device for fabric marking comprising: a finger receiving loop; and an extension projecting tangentially from said loop and constituting a solid writing surface; said writing surface being bowed outwardly in a direction longitudinally of the extension for the purpose described.

2,348,296
ALTERNATING CURRENT EXCITER LAMP FOR SOUND REPRODUCERS
Robert L. Haynes, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1942, Serial No. 452,987
9 Claims. (Cl. 250—41.5)



1. In a photoelectric apparatus, light producing means comprising a main incandescent filament, a secondary filament of smaller diameter than the main filament and means for supplying alternating current in different phase relation to said filaments.

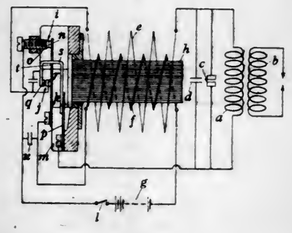
2,348,297
DOUBLE WINDOWPANE
Carl F. Huddle, Ferndale, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 9, 1942, Serial No. 468,359
5 Claims. (Cl. 20—56.5)



1. A multiple window pane structure having a frame of strip material for its edges, a resilient

spacer between the panes and spaced from the frame, a water vapor dam of plastic material impervious to moisture in the space thus provided between said spacer, said panes and said frame, and a less impervious but stronger adhesive between said panes and said frame, to bond the parts together.

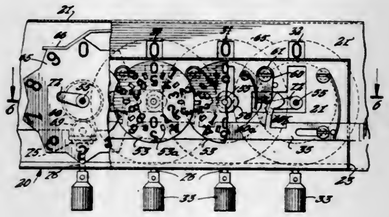
2,348,298
AUXILIARY SPARK IGNITION APPARATUS FOR INTERNAL COMBUSTION ENGINES
Ivan Jack Hulbert, Willesden Junction, London, England, assignor to Rotax Limited, London, England
Application June 11, 1943, Serial No. 490,508
In Great Britain June 17, 1942
2 Claims. (Cl. 123—148)



1. Auxiliary spark ignition apparatus of the kind specified, comprising the combination of a primary winding, a secondary winding, and a pair of trembler interrupters respectively adapted to control the circuits containing the primary and secondary windings.

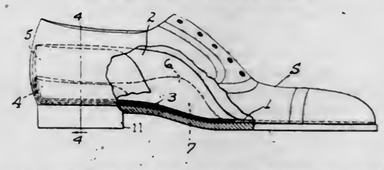
2. Auxiliary spark ignition apparatus as claimed in claim 1, in which the primary and secondary windings are mounted on an iron core, and in which the trembler interrupter associated with the secondary winding is responsive to magnetic attraction of the said core, and is adapted to actuate the trembler interrupter associated with the primary winding.

2,348,299
POCKET CALCULATING DEVICE
Aron M. Josepho, New York, N. Y.
Application October 20, 1941, Serial No. 415,759
4 Claims. (Cl. 235—74)



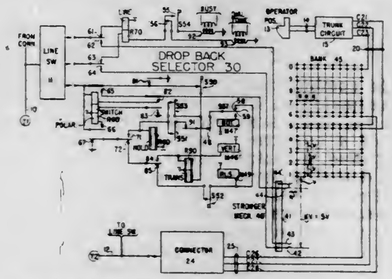
1. In a calculating device including a plurality of numeral indicating dials, rotary shafts upon which said dials are frictionally mounted, totalizer dials rigidly attached to said shafts, tens transfer for the totalizer dials and separate resetting means for each of said dials for resetting said dials to zero position independently of each other.

2,348,300
SHOE
Calvin C. Klaus, Highland, Ill.
Application April 3, 1943, Serial No. 481,669
3 Claims. (Cl. 36—8.5)



1. A shoe having an insole formed of a plastic material, said insole having a counter formed integral therewith, and a rigid arch support molded into the insole, said arch support having a flange supporting the counter.

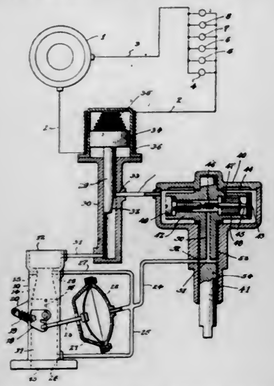
2,348,301
TELEPHONE SYSTEM
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application October 31, 1942, Serial No. 463,998
16 Claims. (Cl. 179—18)



1. In a telephone system, a drop-back selector of the primary-secondary motion type having an incoming trunk and comprising a single unitary contact bank including first and second sections, said first section including a plurality of spaced-apart rows of control contacts and said second section including a plurality of spaced-apart rows of line contacts, a plurality of lines terminated by said contact bank, each of said lines including control and line conductors respectively terminated by corresponding control and line contacts in corresponding rows in said first and second sections, a wiper set having a normal position and mounted for both primary and secondary movements with respect to said contact bank, said wiper set including a control wiper and a spaced-apart line wiper adapted to cooperate respectively with said first and second sections, means controllable over said incoming trunk for imparting selective primary movement to said wiper set, whereby said control and line wipers are both moved adjacent corresponding rows of contacts respectively included in said first and second sections only in the event at least a predetermined amount of primary movement is imparted to said wiper set, means for controlling the return of said wiper set back to its normal position following the primary movement imparted thereto, and means controllable only in the event at least said predetermined amount of primary movement is imparted to said wiper set for imparting selective secondary movement thereto, whereby said control and line wipers are moved to

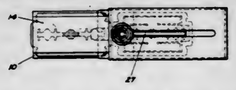
select corresponding control and line contacts in the adjacent rows respectively included in said first and second sections in order to cause said wiper set to select the associated terminated line.

2,348,302
GOVERNOR
Marion Mallory, Detroit, Mich.
Application November 6, 1942, Serial No. 464,821
9 Claims. (Cl. 290—40)



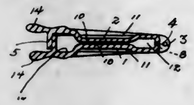
1. In combination with an internal combustion engine having an intake passageway and an electrical generator arranged to be driven by the engine, of a governor comprising a valve in said passageway, a suction device, a conduit connecting said suction device into the intake passageway on the engine side of said valve whereby the suction device moves the valve toward closed position as the vacuum in the suction device increases and moves the valve toward open position as the vacuum decreases, an air bleed for said suction device, and means coordinated with said generator and air bleed means and responsive to an increase in the load put on the generator for moving the air bleed toward open position correspondingly as the load is increased and thereby correspondingly decreasing the vacuum in said suction device whereby the governor valve moves correspondingly toward open position.

2,348,303
MAGAZINE FOR SAFETY RAZOR BLADES
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application April 16, 1940, Serial No. 329,942
13 Claims. (Cl. 206—16)



1. A magazine having a flat slotted top, a thin sheet metal feed slide having operating means extending through the slot whereby it may be reciprocated in contact with the top of the magazine, the feed slide having slots providing spaced divergent edges offset below its body, and means for pressing a stack of blades at all times toward the slide in a position always overlapping its path of reciprocation and placing corners of the blade in line with the divergent edges of said slide.

2,348,304
COMBINATION SERVER AND SQUEEZER FOR CITRUS FRUITS
Charles S. Nudelman and Ralph C. Meilach, Chicago, Ill.
Application March 31, 1941, Serial No. 386,170
2 Claims. (Cl. 100—41)

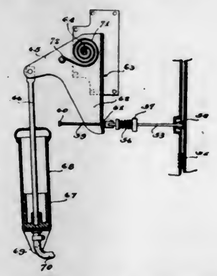


1. A combination server and squeezer for citrus fruits comprising similarly formed, hingedly connected arcuately flanged sections, one fitting into the other with the flanges overlapping, and each provided with a central raised portion between which portions the juice is squeezed, and grooved to direct the juice to a common point adjacent the hinge, and a single central dispensing opening at the point of juice concentration through which the juice is projected.

2,348,305
MANUFACTURE OF CELLULOSE DERIVATIVES HAVING AFFINITY FOR ACID DYESTUFFS
Henry Charles Olpin, Sydney Alfred Gibson, and John Edward Jones, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 24, 1940, Serial No. 347,296. In Great Britain August 22, 1939
2 Claims. (Cl. 260—229)

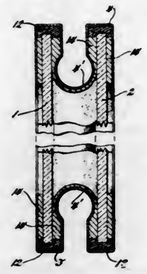
1. Process for the production of cellulose derivatives having an affinity for acid dyestuffs, which comprises pretreating 100 parts by weight of cotton linters with formic acid, esterifying said pretreated cellulose with a mixture containing about 300 to 350 parts by weight of acetic anhydride, 50 parts by weight of acetic acid, 250 parts by weight of mono-chloracetic acid, and 20 parts by weight of sulfuric acid, ripening the mixed ester obtained, and treating the ripened mixed ester with pyridine.

2,348,306
VEHICLE DOOR CLOSING MECHANISM
John B. Parsons, Toledo, Ohio
Original application January 12, 1942, Serial No. 426,438. Divided and this application February 24, 1943, Serial No. 476,887
4 Claims. (Cl. 268—3)



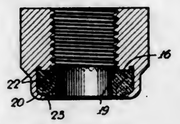
1. A device of the class described comprising in combination with a vehicle door mounted in a door frame for swinging movements to and from closed position, a check strap pivoted to the door frame, spring means associated with said strap to cushion the door opening movement, an extension on said strap, fluid pressure actuated arm connected to engage said extension for effecting door opening movement, and means enabling lost motion between said arm and extension to afford manual opening and closing movements of the door.

2,348,307
DOUBLE WINDOWPANE
Ralph A. Richardson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 3, 1942, Serial No. 467,677
4 Claims. (Cl. 20—56.5)



1. A multiple windowpane structure having a frame of strip material for its edges, spacing means between the panes, and a compound seal of which one constituent provides a water vapor dam which prevents infiltration of moisture from the atmosphere to the space between the panes, and another constituent securely bonds the parts together; the first of said constituents being a plastic material impervious to moisture, extending between each pane and the frame, and the other of said constituents being a less impervious but more adhesive plastic material extending between other parts of each pane and the frame.

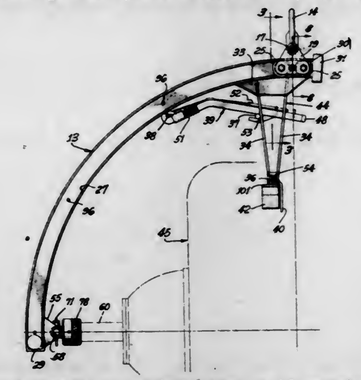
2,348,308
LOCK NUT
Irving Richardson, Newark, N. J.
Application April 7, 1943, Serial No. 482,076
4 Claims. (Cl. 151—7)



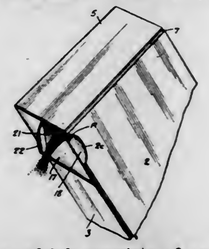
1. A lock nut comprising a tapped body having a coaxial cylindrical socket with a flat floor, keying means rising from said floor, and distributed over substantially the effective area thereof, a unitary yielding washer preassembled in said socket with said keying means embedded therein, the rim of said socket overlapping said washer.

2,348,309
TILTING ARC
Frederick H. Rohr, San Diego, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application May 21, 1943, Serial No. 487,862
11 Claims. (Cl. 294—78)

1. In tilting arc apparatus, the combination of an arcuate crane in the form of a rail with openings therein and having a track on each side thereof, a trolley lifting carrier supporting said crane, said carrier having a double set of wheels mounted thereon each set engaging with one of said tracks and running thereon and both sets gripping said rail therebetween and preventing dislodgement therefrom, spring actuated means mounted upon said carrier and located to engage with each of said openings and to lock said carrier upon said rail adjacent thereto, and means extending from the ends of said rail for attachment of the load arranged with its center of gravity at or near the center of radius of said arcuate crane.



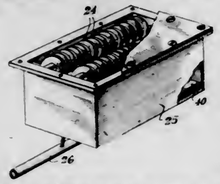
2,348,310
CONTAINER
Ben Rous, Brooklyn, N. Y., assignor to Federal Carton Corporation, New York, N. Y., a corporation of New York
Application June 20, 1942, Serial No. 447,858
5 Claims. (Cl. 229—17)



1. A carton which consists of an integral blank which is folded into carton shape, each outer wall of said carton being of rectangular shape, said blank having hinge-lines which constitute edges of wall-members which respectively constitute the outer walls of said carton when said blank is folded into carton shape, said blank having an extension flap at an edge of said blank, said extension flap being turnably connected along a hinge-line to only a part of the edge of the adjacent wall-member so that said extension flap is spaced from a corner of said adjacent wall-member, said adjacent wall-member having a diagonal hinge-line which intersects two of its edges which meet at said corner, the area between said diagonal hinge-line and said two edges constituting an outer spout-member, said outer spout-member having a tapered inner spout-member which is turnably connected to said outer spout-member along a hinge-line which is coincident with said first-mentioned hinge-line, said extension flap

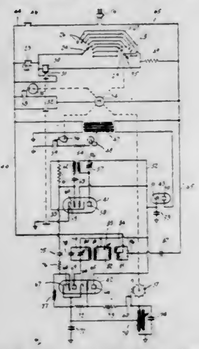
being fixed to the inner surface of one of said outer walls, said outer spout-member being outwardly movable relative to its respective outer wall, said inner spout-member being movable outwardly of the carton and back into the carton, said inner spout-member having an extension which is located inwardly of the carton when the inner spout-member is located outwardly of the carton.

2,348,311
ELECTRODE ELEMENT FOR DRY DISK RECTIFIERS
Samuel Ruben, New Rochelle, N. Y.
Application March 25, 1941, Serial No. 385,055
7 Claims. (Cl. 175—366)



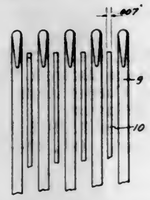
5. The method of making a dry rectifier electrode which comprises casting a cuprous compound of copper with an element selected from the group consisting of sulfur, selenium and tellurium into a block, reducing said block into a plate, punching disks from said plate and heating said disks in contact with an excess of said element to convert them to disks of the cupric compound of said element.

2,348,312
REMOTE CONTROL APPARATUS
Francis M. Schmidt, North Tonawanda, and Gerald G. Smith, Kenmore, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application June 11, 1941, Serial No. 397,554
8 Claims. (Cl. 177—380)



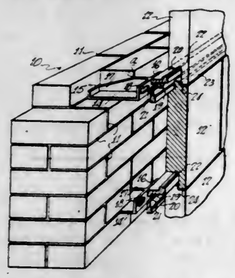
1. A signal transmitter including a generator adapted to produce electrical energy of high frequency power modulated by a series of signals of lower frequency, switching means and associated circuits adapted to start and stop the operation of said generator, initiating means for operating said switching means to start said generator, and apparatus automatically operable thereafter to reverse said switching means to stop said generator, said apparatus being selectively operable to predetermine the number of low frequency signals impressed on said circuit prior to said reversal.

2,348,313
METHOD OF PRODUCING HOSIERY
William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application January 16, 1942, Serial No. 426,984
1 Claim. (Cl. 66—8)



A method of producing hosiery including the steps of measuring and drawing needle and sinker loops in a circular, independent needle knitting machine equiped with latch needles and drawing the needle loops much larger than sinker loops and thereafter finishing the fabric by substantially reducing its lateral dimension and increasing the longitudinal, thereby elongating sinker wales while reducing the width of needle wales, but still leaving needle wales substantially wider than sinker wales.

2,348,314
SUSPENSION FOR REFRACTORY WALLS
Albert K. Spalding, Dallas, Tex.
Application June 5, 1942, Serial No. 445,849
6 Claims. (Cl. 72—101)

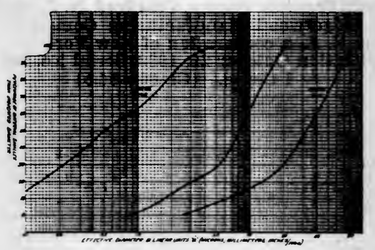


1. Suspension means for a tile wall including in combination with a supporting structure, a bracket comprising a plate having lips at either end at right angles to said plate, one of which is apertured, said plate being embedded in said supporting structure a predetermined depth, and means secured to the apertured lip of said bracket for suspending the elements of said tile wall.

2,348,315
PENCIL LEAD, CRAYON, AND CERAMIC
William Harry Vaughan, De Kalb County, Ga., assignor to M. A. Ferst, Ltd., Atlanta, Ga., a corporation of Georgia
Application February 9, 1940, Serial No. 318,167
5 Claims. (Cl. 106—19)

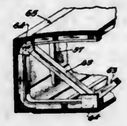
1. In the process of producing ceramic bodies: the step of providing a mixture of ceramic materials comprising groups of particles of regulated sizes in which the diametral ratios between groups adjacent in the ascending scale of gradation of sizes of particles range between 1 is to 1.1 and 1 is to 8, the amount by volume of the material comprising each group of particle sizes be-

ing not less than equal to and not more than one and one-half times the amount of the group of



next smaller size particles present whereby a reduction of porosity of the finished product is accomplished.

2,348,316
LAMINATED STRUCTURE
Eugene L. Vidal, New York, N. Y., and Laurence J. Marhoefer, Wood-Ridge, N. J., assignors, by mesne assignments, to Vidal Corporation, a corporation of Delaware
Application September 12, 1940, Serial No. 356,426
2 Claims. (Cl. 244—123)



1. In a wing, a beam substantially rectangular in chordwise cross-section constituting the main spanwise support for said wing, said beam comprising a laminated skin of adhesively bonded sheet material wholly enclosing an internal reinforcing structure, said reinforcing structure comprising a plurality of chordwise extending, spanwise spaced, substantially rectangular frames each comprising at least a pair of substantially U-shaped laminated sectionse of adhesively bonded sheet material, the arms and cross-piece of each said U-shaped section being of relatively small cross-sectional area and the sections of each pair being adhesively bonded to each other and to said skin; and, a plurality of spanwise extending, laminated stringers of adhesively bonded sheet material, said stringers being of relatively small cross-sectional area and in interlocking engagement with successive frames and being adhesively bonded to said frames and to said skin to provide a unitary reinforcing structure.

2,348,317
LUBRICANT CONTAINING METAL COMPOUNDS
Stanley P. Waugh, Westfield, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware
No Drawing. Application May 22, 1941, Serial No. 394,622
16 Claims. (Cl. 252—48)

1. A lubricant composition comprising an E. P. agent and chlorinated materials selected from the group consisting of sulfur, sulfurized materials and a compound of a metal of the group consisting of antimony and bismuth per se possessing no appreciable E. P. properties but being effective to enhance the load-carrying capacity of said E. P. agent, the metal in said compound being in the monoatomic form.

2,348,318
ADJUSTABLE PLASTER EAR
Merritt B. Austin, Jr., Winnetka, Ill.
Original application October 24, 1940, Serial No. 362,515. Divided and this application May 6, 1941, Serial No. 392,051
2 Claims. (Cl. 220—3.3)



1. In an outlet box having an ear for attaching a cover plate projectiong outward from a side wall of the box at right angles to the front edge of the box, adjustable means for securing the said box to a wall structure at varying depths, comprising an angular bracket consisting of a pair of flanges disposed in mutual angular relation, one of said flanges having means for securing it to a wall structure, and an opening therein extending to the junction of the flanges, said opening being of sufficient size to receive and straddle said projecting attaching ear; the other flange having a relatively narrow slot extending from said opening to the end of the flange, normal to the junction of the flanges, said slot being widened adjacent the said opening to receive said attaching ear; and means carried by the said wall of the box below and in alignment with said ear extending through the slot to engage the edges thereof for fastening the bracket to said wall, said opening in the first-mentioned flange being adapted to slide over said slot-engaging means when the latter loosely engages the edges of the slot so that said bracket may be removed by sliding the same in either direction until the slot-engaging means is displaced from said slot through the open end thereof, or the communicating opening of the other flange.

2,348,319
COMBINED WINDLACE AND PANEL TRIM RETAINER
David C. Bailey, Amesbury, Mass.
Original applications November 9, 1939, Serial No. 303,650, and November 9, 1939, Serial No. 303,651. Divided and this application September 30, 1940, Serial No. 359,029
5 Claims. (Cl. 296—44)



3. A windlace for a structural opening, comprising a strip of resiliently compressible material, a retainer therefor comprising a sheet metal strip having corrugations extending transversely of the longitudinal extent of said metal strip and bent on a line extending longitudinally of the metal strip to provide two angularly related longitudinally extending corrugated metal strip portions, and means securing said compressible strip to the metal strip along said longitudinal line of bending thereof and at the vertex of the angle formed by said angularly related metal strip portions, said means including an envelope of flexible sheet material secured to said metal strip, completely enclosing said compressible strip, and extending in covering relation to the full area of at least one of said angularly related longitudinally extending corrugated metal strip portions.

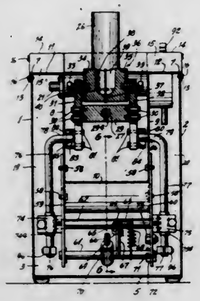
2,348,320
SALT WATER PIT LINING
Joseph C. Becker, Longview, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application July 3, 1942, Serial No. 449,697
4 Claims. (Cl. 94—20)

1. A composition suitable for lining salt water pits, comprising an intimate mixture of 10% to 30% by weight of bitumen, 50% to 70% by weight of soil, and 30% to 70% by weight of sawdust.

2,348,321
FLUORINE COMPOUNDS
Anthony F. Benning, Woodstown, N. J., and Joseph D. Park, Wilmington, Del., assignors to Kinetic Chemicals, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application December 13, 1941, Serial No. 422,870
5 Claims. (Cl. 260—583)

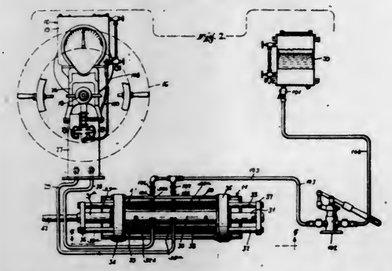
2. The compounds represented by the formula $CF_3(CH_2)_nNH_2$, in which n is a digit from 1 to 5.

2,348,322
CENTRIFUGAL ELECTRIC CASTING AND MOLDING MACHINE
Foy E. Bellows, Van Alstyne, Tex.
Application June 15, 1942, Serial No. 447,028
5 Claims. (Cl. 22—65.1)



1. In a centrifugal casting and molding machine, a rotatable shaft, a coil spring anchored at one end and having its other end secured to said shaft, a pair of arms rigid with said shaft and projecting in opposite directions therefrom, a weight adjustably mounted on one of said arms, a crucible operatively mounted on the other arm, an electric circuit including said crucible but which will be closed through the crucible only when a piece of metal to be melted is placed in the crucible, a mold detachably clamped on the latter arm and having a molding cavity communicating with said crucible, said spring being wound by turning said arms through one or more complete revolutions, a pair of contact members electrically connected with opposite sides of said crucible, a pair of movable locking members forming conductors in said circuit and movable into and out of engagement with said contact members to close the circuit to said crucible and prevent rotation of said shaft, and to break said circuit and permit rotation of the shaft by its spring, respectively, and means for actuating said locking members.

2,348,323
TELEMOTOR SYSTEM
Charles Franklin Binder, Cranford, N. J., assignor to Lidgerwood Manufacturing Company, Linden, N. J., a corporation of New York
Application October 26, 1939, Serial No. 301,349
1 Claim. (Cl. 60—54.5)

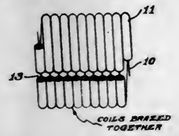


In a power-transmitting mechanism, the combination of a forward compressor, an aft fluid-operated telemotor comprising two longitudinally disposed cylinders and pistons movable within each of said cylinders, connections between said pistons, means for connecting said pistons to a power-transmitting mechanism; and two pipe lines each connecting said forward compressor with one cylinder of said aft telemotor; with a filling tank situated substantially above said aft telemotor, a hand pump, a pipe line having an equalizing valve and connected to said tank and one end of said pump, another pipe line connected to the other end of said pump, two pipes one end of said pipes being connected with the other ppie line and each one of the opposite ends being connected with each of the cylinders of said aft telemotor, respectively, and valves carried by these two pipes and controlling the flow of fluid therethrough.

2,348,324
WETPROOF CIGARETTE PAPER
Allen M. Bond, Jr., Louisville, Ky., assignor to Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware
No Drawing. Application May 21, 1941, Serial No. 394,482
4 Claims. (Cl. 131—15)

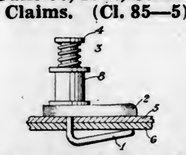
1. A wet-proof cigarette paper consisting of cigarette paper coated with aluminum stearate in an amount of the order of 0.05 to 0.2 pound of dry aluminum stearate per one thousand square feet of cigarette paper.

2,348,325
ELECTRICAL TRANSFORMER
George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 26, 1941, Serial No. 390,628
4 Claims. (Cl. 175—359)



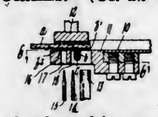
1. An electrical transformer comprising a pair of concentric conductors wound into the form of a helix whereby the outer one of said conductors constitutes one winding of the transformer and the inner one of said conductors constitutes a second winding of the transformer, said outer winding comprising a plurality of adjacent, incomplete, outer turns each having an entire cross-sectional portion thereof removed.

2,348,326
METAL CLAMP
Lawton Arthur Burrows and Justin Bunyan Loe, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 30, 1942, Serial No. 449,124
4 Claims. (Cl. 85—5)



1. A metal clamping device adapted to hold together at least two perforated sheets of material, said device comprising an element having an elongated arm extending substantially at right angles to the longitudinal axis of saihd device and capable of being inserted through holes in the sheets to be secured; a projection attached to said device having a flat surface adjacent to the extended portion of the arm and likewise extending substantially at right angles to the longitudinal axis of the device to a point substantially outside the normal base of said device; and means for moving apart and drawing together the aforesaid extended arm and flat surface.

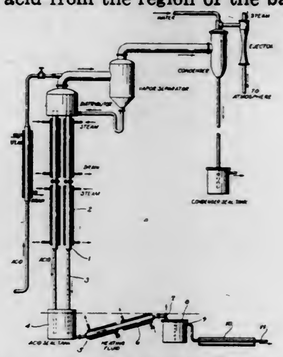
2,348,327
RIBBED INSOLE AND METHOD OF MAKING THE SAME
Joseph Calleo, Endicott, N. Y., assignor to Puritan Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application November 19, 1941, Serial No. 419,740
11 Claims. (Cl. 12—20)



1. The method of making a ribbed innersole which comprises leading a folded strip of flexible material having outwardly turned flanges to the body of an insole in such fashion that said flanges are brought against one surface of said body, feeding the strip and body step by step simultaneously in the same direction at the same speed, and slitting one of said flanges crosswise in timed relation with the feeding steps.

2,348,328
PROCESS OF AND APPARATUS FOR TREATING SULPHURIC ACID CONTAINING DISSOLVED NITRO BODIES
Fred Francis Chapman, Wilmington, and Ralph Francis Peterson, Bellefonte, Del., and Clifford Akeley Woodbury, Media, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 10, 1941, Serial No. 373,956
4 Claims. (Cl. 23—306)

1. The process of treating the residual sulphuric acid containing nitrobodies or the like, which comprises passing said acid continuously in the form of a thin layer down and over the inner surface of a heated substantially vertical tube, and down through a heat-insulated barometric leg at the base of said tube into a heat-insulated seal tank, thereby maintaining said acid in said tank at approximately 300 F., flowing said acid from the region of the base of said



seal tank upwardly through inclined tubes, heating the acid in said tubes from approximately 300° F. to approximately 480° F., the time of passage of said acid through said inclined tubes being approximately 30 minutes, flowing said acid into a heat-insulated retention tank and retaining the acid in said tank for approximately 45 minutes, to produce a concentrated sulphuric acid free from nitrobodies.

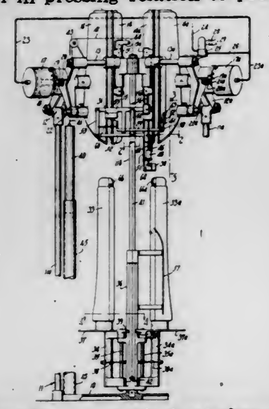
2,348,329
PROCESS FOR SEPARATING XYLENES
Percy J. Cole and Granville W. Burtt, Philadelphia, Pa., assignors, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application June 26, 1940, Serial No. 342,438
4 Claims. (Cl. 260—674)

3. A process for separating meta-xylene and para-xylene from mixtures thereof which comprises treating the xylene mixture with fuming sulfuric acid to sulfonate substantially completely the xylenes therein, subjecting the sulfonated mixture to steam distillation at a temperature of about 140° C. to effect partial hydrolysis of the sulfonated mixture and form substantially pure meta-xylene as the primary distillation fraction, cooling the residue from the steam distillation to about 10° C. to precipitate directly therefrom substantially pure para-xylene sulfonic acid, separating the precipitated para-xylene sulfonic acid, washing the solid para-xylene sulfonic acid with aqueous sulfuric acid of about 60% concentration, and steam distilling a mixture of the para-xylene sulfonic acid and aqueous sulfuric acid to hydrolyze the para-xylene sulfonic acid and obtain substantially pure para-xylene.

2,348,330
MEASURING DEVICE FOR FABRIC FINISHING MACHINES
Forrest J. Couch, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application January 22, 1943, Serial No. 473,195
10 Claims. (Cl. 223—57)

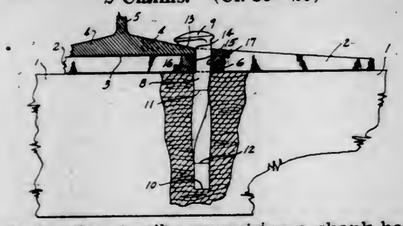
1. In a machine of the class described, a pair of pressing members having generally parallel

pressing surfaces, means whereby relative movement may be caused between said members in a direction generally parallel to said pressing surfaces into and out of various pressing position relations of said members, means for causing relative approach pressing motion of said members when in pressing relation to press an arti-



cle between them, a control member adapted to engage an article supported on one of said pressing members as the pressing members move toward pressing relation, said control member being movable by a variation in the conformation of said article, and means for controlling said last named means by said movement of said control member.

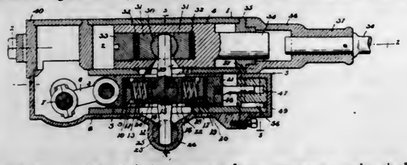
2,348,331
RAILROAD SPIKE
Lloyd A. Couch, Eugene, Oreg.
Application January 2, 1942, Serial No. 425,433
2 Claims. (Cl. 85—20)



1. A railroad spike comprising a shank having an elongated head at one of its ends, and a chisel edge at its opposite end, said shank being of square formation in cross-section, the underside of the head being tapered for engagement with the upper surface of the flange of a rail, said tapered portion of the head merging with a straight portion of the shank wherein is formed a locking-shoulder for engagement with the underside of a tie-plate, and the lower portion of the shank being twisted through 90 degrees to position said chisel edge into alignment with the major axis of the head.

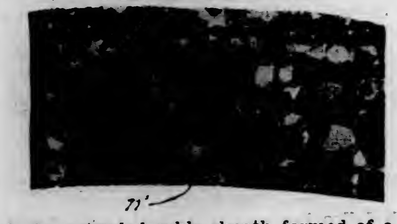
2,348,332
VIBRATORY MACHINE
Ernest Craig, Falconbridge Township, Sudbury District, Ontario, and Robert Craig, North Bay, Ontario, Canada
Application November 11, 1942, Serial No. 465,294
9 Claims. (Cl. 125—33)

9. A vibratory machine comprising, a portable body member supporting an operating tool and having parallelly arranged cylinders, a reciprocable hammer member operating in one of said cylinders to impart impact shocks to said tool, a reciprocable driving member operating in the cylinder adjacent to the hammer cylinder, a rocker member pivotally mounted intermediate of its



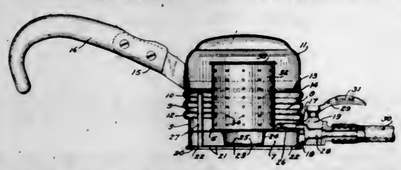
length in said driving member, means pivotally connecting one end of said rocker member intermediate of the length of said hammer member, means pivotally supporting the opposite end of said rocker member, and resilient means arranged on opposing sides of one of said pivots to oppose the thrust of the driving member.

2,348,333
LEAD ALLOY
Gabriel Joseph D'Eustachio, Perth Amboy, N. J., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application March 29, 1941, Serial No. 385,884
8 Claims. (Cl. 75—166)



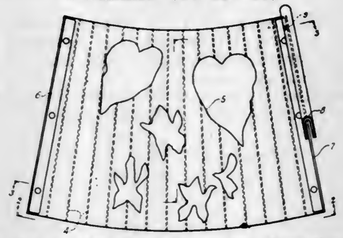
1. An extruded cable sheath formed of a lead base alloy containing copper in amounts sufficient to improve resistance to creep and fatigue but not sufficient to prevent extrusion, characterized by the inclusion of tin in amounts ranging from equal to that of the copper up to less than .5% of the alloy for suppressing aggregation of copper at the tongues and flow lines without impairment of the creep strength and fatigue resistance of the alloy and the balance lead with usual commercial impurities.

2,348,334
SPRAYING DEVICE
Flora H. Ellinger, Chicago, Ill.
Application August 22, 1941, Serial No. 407,950
10 Claims. (Cl. 299—84)



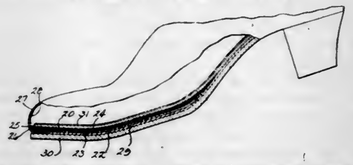
1. A spraying device comprising, a casing, a partition dividing said casing into a chamber and a passage, means for supplying liquid to said chamber and passage, a valve in said means operable to deliver liquid under pressure directly either to said chamber and said passage or to said passage alone, and an air vent communicating with said chamber.

2,348,335
JOINTED RUBBER-COVERED MASK
Joseph M. Escher, Pittsburgh, Pa., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 14, 1941, Serial No. 393,358
2 Claims. (Cl. 41—39)



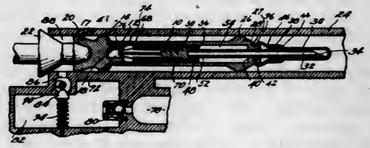
1. A die mask of the character described consisting of a plurality of closely spaced flat tapered strips arranged on their flat sides in a horizontal plane having a rubber coating on both sides thereof and having rubber formed integrally with the coating material disposed between adjacent strips forming hinges for flexible joints.

2,348,336
FLOATING INSOLE SHOE AND INSOLE ASSEMBLY THEREFOR
Joseph H. Everston, Milwaukee, Wis.
Application December 18, 1941, Serial No. 423,513
13 Claims. (Cl. 36—19.5)



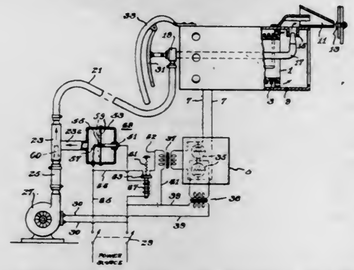
1. A shoe insole assembly comprising the combination of an insole having a heel portion, a shank portion, and a floating forward portion, a lasting ply beneath said forward portion and having a thinned shank portion, connected to the shank portion of the insole rearwardly of said insole forward portion, a cushion intervening between the lasting ply and the forward portion of the insole, accommodating relative longitudinal movement between the forward insole portion and the lasting ply, and a shank piece underlying the heel portion of the insole and connected thereto and extending forwardly to lap the lasting ply short of said forward insole portion.

2,348,337
HYPODERMIC PROJECTILE
Earl Henry Francis, Kansas City, Mo.
Application September 22, 1941, Serial No. 411,798
5 Claims. (Cl. 102—92)



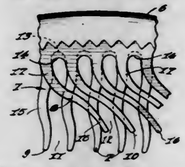
1. A hypodermic projectile comprising a case having an opening through its outer end wall; a hypodermic needle having a side opening slidably mounted in the end wall of said case and projecting outwardly therefrom; a piston fixed to the inner end of said needle and positioned in spaced relation to said end wall to form a fluid chamber therebetween; a spring; means securing said spring under compression in operative relation with said piston; and means operable when said needle is forced inwardly into said case to release said compression spring securing means whereby said spring expands to cause a relative movement of said piston and case to cause a fluid to flow from said chamber outwardly through said needle.

2,348,338
ELECTRICAL HEATING APPARATUS
Henderson C. Gillespie, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 2, 1942, Serial No. 429,276
6 Claims. (Cl. 219—13)



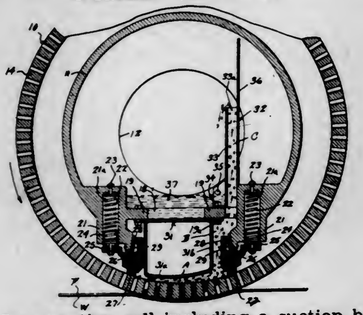
1. In an electrical heating system for heating work by induction, the combination of a supporting device, a coupling coil adapted to be applied to the work for inducing heating current therein, said coil being carried by said supporting device, means for supplying electrical energy to said coil, means for directing a stream of cooling fluid to said coil, manually operable means also carried by said supporting device for controlling the flow of said stream, and means responsive to a change in flow of said stream for controlling the supply of energy to said coil by said first named means.

2,348,339
COMB
Samuel Golden, Bronx, N. Y.
Application September 22, 1943, Serial No. 503,381
5 Claims. (Cl. 132—18)



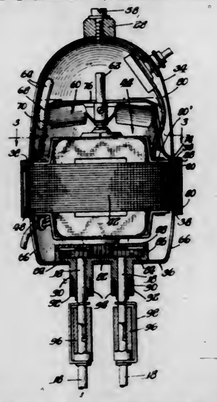
5. In a comb, a top portion and two spaced banks of teeth attached to said top portion, the teeth of one bank being substantially perpendicular to the said top portion and the teeth of the other bank being disposed generally obliquely with respect to said top portion, the said perpendicular teeth extending above and below the oblique teeth, the perpendicular teeth being substantially straight except for an intermediate curved portion, the oblique teeth being substantially throughout their length of curved configuration, both banks of teeth being in divergent relation with each other.

2,348,340
SUCTION ROLL
John E. Goodwillie and Earl E. Berry, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application February 13, 1941, Serial No. 378,712
8 Claims. (Cl. 92—53)



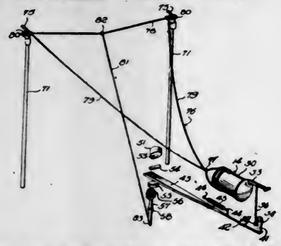
5. In a suction roll including a suction box, a perforated shell rotatably mounted therearound, and seals including offgoing and oncoming seals between the shell and box defining a localized suction area on the shell, the improvement of a wall between said seals extending from adjacent the oncoming seal across said suction area to terminate in spaced relation from the offgoing seal, said wall being spaced inwardly from said shell in diverging relation thereto to define a confined path increasing in capacity as it approaches the offgoing seal and communicating at its point of greatest capacity with the interior of the suction box.

2,348,341
MOTOR
James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application July 29, 1940, Serial No. 348,268. Divided and this application December 19, 1941, Serial No. 423,669
4 Claims. (Cl. 172—36)



1. In a mixing and agitating appliance, a driving unit comprising a motor, a housing axially embracing the motor and having axially spaced inlet and outlet apertures for accommodating a flow of air through said housing, an air impeller means driven by the motor and located within the housing adjacent one axial extremity of the housing, and an annular shroud member at one end edge embracing said impeller and having its other end edge circumjacent the periphery of said motor for directing said flow of air in its entirety axially of the motor and through the interstices thereof in direct cooling relationship.

2,348,342
AIRPLANE PICKUP MECHANISM
Edward G. Hill, Richmond, Va., assignor to G. Tucker Smith and E. Govan Hill, both of Richmond, Va., as trustees
Application June 22, 1942, Serial No. 448,007
12 Claims. (Cl. 258—1.6)

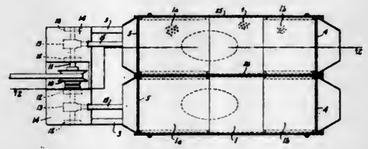


12. In an airplane pick-up mechanism, a catapult comprising a carriage, a source of power normally conditioned to tend to move said carriage, and a latch normally engaging and holding said carriage against movement, a flexible element having a loop, means for supporting said loop in open formation with a portion thereof extending transversely of the direction of movement of said carriage to be engaged by a hook carried by an airplane traveling over said catapult in said direction, a member having mechanical connection with said latch, a spring urging said member in a latch-releasing direction, a clutch device engageable with said member to prevent a latch-releasing movement thereof, a lever engaging a portion of said clutch device to render it effective for holding said member against movement, and a flexible element connected between said lever and said portion of the loop substantially centrally of the length thereof whereby initial engagement of the airplane-carried hook will turn said lever and release said clutch device to permit said spring to move said member in a latch-releasing direction.

2,348,343
PROCESS OF MANUFACTURING FERTILIZERS AND RESULTING FERTILIZER
John O. Holbrook, Columbus, Ohio
No Drawing. Application September 26, 1941, Serial No. 412,503
9 Claims. (Cl. 71—41)

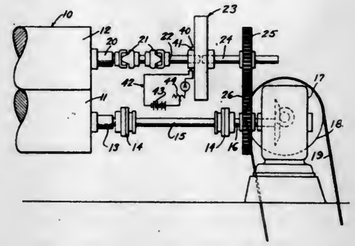
1. A fertilizer manufacturing process comprising dry-mixing ground superphosphate and a ground alkaline material selected from the class consisting of dolomite, limestone, hydrated lime, quick lime, and cyanamid and said materials admixed with potash, in such proportions as to provide a substantial excess of the alkaline material above that required to neutralize the free phosphoric acid of the superphosphate, continuing to mix while adding concentrated liquid phosphoric acid in such a quantity that substantially homogeneous pellets are formed by the nodulizing effect of the mixing action and the liquid phosphoric acid but in quantity no more than that required to approximately completely neutralize the excess alkaline material, and maintaining the temperature of the mixture from rising to a substantial extent.

2,348,344
PROCESS OF SEPARATING INTERMIXED DIVIDED MATERIALS
Colin William Higham Holmes, Durham City, England, assignor to The Birtley Company Limited, Birtley, England
Application November 25, 1941, Serial No. 420,337
1 Claim. (Cl. 209—467)



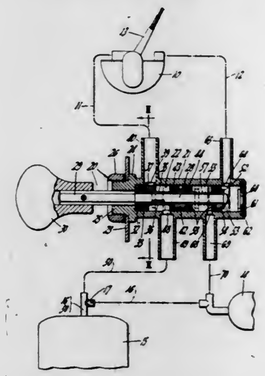
The process of separating intermixed divided materials which comprises feeding said materials to an inclined air-pervious surface between the ends thereof, imparting a reciprocating head motion to said surface to impel materials toward the upper end thereof, passing air under predetermined pressure upwardly through said surface and the bed of materials formed thereon to stratify and fluidize said materials, causing lighter materials to travel downwardly longitudinally to the lower end of the surface to discharge by inclining the surface at a predetermined angle between the feed-on point and the lower end of said surface, opposing the opposite upward travel of heavier materials by inclining the surface at a greater angle between the feed-on point and the upper end of said surface causing stratified heavier materials to discharge at the upper end of said surface and maintaining the air escapement through the bed substantially constant under changes in the air resistance of the bed of materials by providing throughout the surface an air-permeability which is relatively low compared to that of the bed under maximum load conditions, and by maintaining a substantial air pressure beneath said surface, and constraining all materials to discharge at the ends of the surface by preventing lateral movement and escape thereof.

2,348,345
PRESS ROLL DRIVE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application May 8, 1941, Serial No. 392,443
2 Claims. (Cl. 92—49)



1. A drive assembly for the press rolls of a paper machine press of the type having press rolls in cooperating pressure driving relation which comprises an in-shaft directly driving one of said press rolls, an auxiliary shaft driven by said in-shaft, an eddy current electric slip clutch having a driving part driven by said auxiliary shaft and a driven part adapted to be driven by said driving part, a second in-shaft coupling the driven part of said clutch to another of said press rolls, said clutch having a coil associated therewith for inducing eddy currents between the driven and driving parts thereof, a direct current excitation circuit for energizing the coil of said clutch to induce eddy currents between the driving and driven parts thereof to drivingly couple said parts, and means for regulating the excitation of said coil to control the helper drive effort applied to said another of said press rolls from said one of said press rolls.

2,348,346
WINDSHIELD CLEANER SYSTEM
Erwin C. Horton, Hamburg, and Anton Rappl, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application January 1, 1942, Serial No. 425,362
3 Claims. (Cl. 60—60)

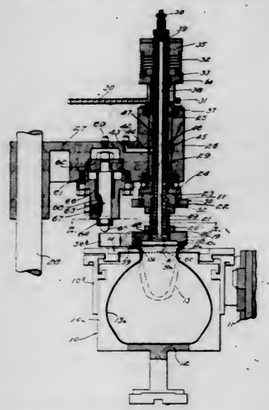


1. A motor vehicle windshield wiper system comprising a sub-atmospheric fluid pressure generator, a vacuum reservoir, a vacuum operated windshield cleaner motor having a fluid wiper operating passage and a fluid wiper parking and arresting passage, a conduit between said fluid pressure generator and said arresting passage and a conduit between said reservoir and said operating passage, valve means for rendering said two conduits selectively effective to alternatively connect either of said passages with its source of fluid pressure, a conduit between said generator and said reservoir, and a check valve in said conduit permitting fluid flow from said reservoir to said generator but preventing retrograde fluid flow, whereby said wiper is parked directly from the generator alone and depletion of the vacuum supply of the reservoir during periods when the wiper is arrested is avoided.

2,348,347
PASTE MOLD MACHINE FOR FORMING HOLLOW GLASS BLANKS INTO FINALLY BLOWN ARTICLES
Bernard H. Koob, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application September 5, 1942, Serial No. 457,414
12 Claims. (Cl. 49—18)

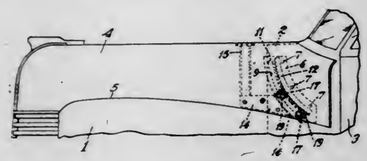
1. In a glassware forming machine, the combination with a blow mold having a cavity therein

open at one end of the mold, of clamping means mounted to rotate at said end of the mold independently of the latter about the extended axial line of the mold cavity, said clamping means comprising a plurality of members movable relatively to each other to and from positions at which they cooperate to grip the open end or finish portion of a hollow glass blank or parison having a body portion located within said mold cavity so



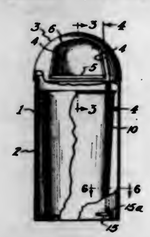
as to rotate said blank or parison in said mold cavity when said clamping means is rotated as aforesaid, means including a continuously rotating driving member to rotate said clamping means when the relatively movable members thereof are in their cooperative positions as aforesaid, and means operable to automatically stop rotation of said clamping means after a predetermined period of rotation thereof while said driving member continues to rotate.

2,348,348
HOOD CLOSURE SUPPORTING MEANS
Walter H. Krause, Chicago, Ill., assignor to Chicago Forging & Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application January 20, 1943, Serial No. 472,954
9 Claims. (Cl. 16—128.1)



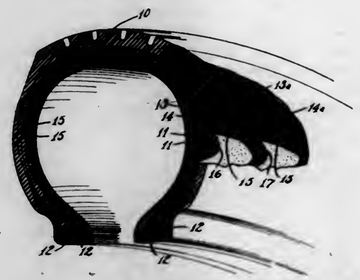
1. A concealed hinge for a horizontally hinged closure element, which includes a plurality of fixed abutments, spaced laterally apart and lying in parallel, generally vertical planes, each such abutment including a generally arcuately slotted guide member and a rack having a profile substantially the same as the slot of said guide member, a closure support including a member movable in relation to each said abutment, each said member including an element penetrating one of said slots and a rotatable pinion in mesh with the rack associated with such slot, the center of the pinion coinciding with the slot penetrating element, and a closure mounted on and movable unitarily with said closure support.

2,348,349
TRASH PAIL COVER
Maurice Lumley, Cincinnati, Ohio, assignor to The F. H. Lawson Company, Cincinnati, Ohio, a corporation of Ohio
Application September 29, 1941, Serial No. 412,804
7 Claims. (Cl. 220—36)



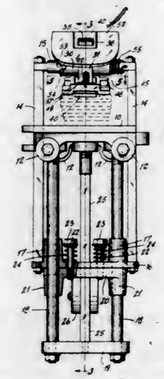
1. A trash can cover device having a shell open at the bottom for engaging over a trash can, said shell having at its upper portion a closure, a casing inset into the closure, having inwardly sloping edged sides and a bottom portion, a door constituting the rear portion of the casing, means for hinging the door at the top of the said inset casing so as to engage the sides and bottom by gravity, a foot treadle projecting pivotally at the lower portion of the shell, and connections from the foot treadle to the door for opening the door upon movement of the foot pedal, said means including an operating rod extending downwardly through the shell from a position above the top of the enclosed trash can in a position close to the side of the shell so as not to interfere with the positioning and removal of the cover from the trash can.

2,348,350
TIRE
Frederick R. McKelvey, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 26, 1940, Serial No. 362,938
8 Claims. (Cl. 152—356)



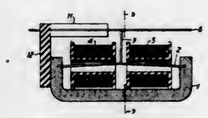
8. A tire casing having a body of rubber material and cord reinforcement terminating in bead portions, said casing comprising a plurality of reinforcing plies of laterally extending cords united with said rubber material anchored in said bead portions and extending from bead to bead, and a breaker ply of parallel laterally extending cords also united with said rubber material, said breaker ply extending across the crown of the casing and terminating short of said bead portions with its cords parallel to one of said reinforcing plies and being disposed radially within said reinforcing ply and thereby supported against outward expansion.

2,348,351
CLAMPING DEVICE FOR HEEL-BUILDING MACHINES
John A. McMahon and Ernest Sydow, St. Louis, Mo., assignors to John E. Mitchell Company, Dallas, Tex., a corporation of Missouri
Application June 15, 1942, Serial No. 447,024
8 Claims. (Cl. 12—50)



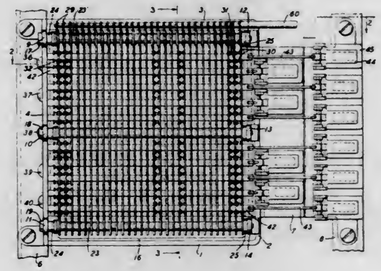
1. A clamping device for heel-building machines comprising a clamp carrier affording a clamping base, a clamping frame slidably mounted on said carrier, a holder rotatably mounted on the upper end of said clamping frame, two clamping plates of different size mounted on opposite sides of said holder and interchangeable in position for clamping purposes by turning said holder, means for locking said holder in either position of said clamping plates, means for lowering and raising said clamping frame, and coil springs interposed, respectively, between said holder and corresponding ends of said clamping plates.

2,348,352
ALTERNATING CURRENT GENERATOR
Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,466
2 Claims. (Cl. 179—90)



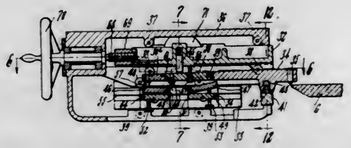
1. An alternating current generator comprising a plurality of magnetostriction elements, each consisting of a pair of bars joined at one end of each at a knee and solidly secured at the other end of each, a plurality of reeds each tuned to a given different frequency, a link between each of said reeds and one of said knees whereby the forces of compression and tension are alternately applied to said bars through the vibrations of said reeds communicated through said links, and a coil wound about said bars for translating the resulting changes in magnetism of all of said bars into alternating current.

2,348,353
SWITCHING MECHANISM
Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 5, 1943, Serial No. 485,738
4 Claims. (Cl. 179—27.54)



1. In a multicontact relay, a box-shaped frame, mounting members extending forward from the vertical sides of said frame, a series of vertical contact strips insulatedly mounted to and between said members, vertical series of contact springs, each series having its contact ends in position to make contact with an individual contact strip and having its base ends located at the rear of the frame, all of the base ends of said springs being insulatedly mounted in a single unit between the vertical side members of said frame and provided with terminals extending back beyond the frame, said vertical series of contact springs being so located that corresponding springs in each series form a horizontal row, an operating card for each horizontal row of contact springs secured to the individual contact springs of said row, so that the longitudinal movement of said card moves the attached springs sideways to contact with their respective adjacent contact strips, a magnet for actuating each card longitudinally, a series of flat ribbon cables lying vertically side by side beyond the terminals, each cable having a conductor connected to each terminal of a separate vertical row of springs, and a cable having a conductor connected to each vertical strip at the top ends thereof and lying horizontally above and across the mounting members of said frame.

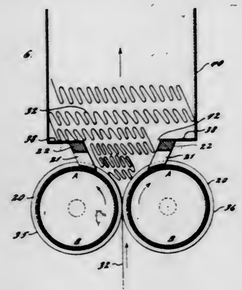
2,348,354
GRINDING WHEEL DRESSER
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application June 14, 1941, Serial No. 398,101
9 Claims. (Cl. 125—11)



4. A wheel dressing device comprising a supporting structure, two carriages mounted on said structure for movement in substantially parallel paths, means for moving said carriages simultaneously in their respective paths in relatively

opposite directions, a plurality of cams mounted on one of said carriages in tandem along the path of movement thereof, a lever mounted on the other carriage to swing about a pivot axis transverse to the path of that carriage, a dressing tool mounted on one arm of said lever, cam follower means mounted on the other arm of said lever arranged to engage the said cams successively when the carriages are moved in the manner set forth, and means for adjusting the cams angularly to various inclinations with the path of movement whereby to vary the extent of movement which they impart to the said follower means.

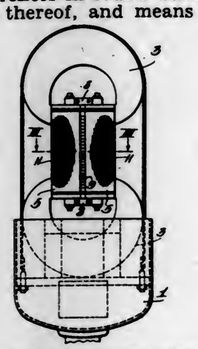
2,348,355
APPARATUS FOR MOVING AND STORING SHEET MATERIAL
Paul L. Miller, Clearwater, S. C., assignor to United Merchants & Manufacturers, Inc., Wilmington, Del., a corporation of Delaware
Application January 8, 1943, Serial No. 471,766
2 Claims. (Cl. 271—2.1)



1. Apparatus for the transporation and storage of sheet material during the processing thereof, comprising a pair of rotatably mounted cylindrical rolls mounted side by side, each of said rolls having a plurality of annular grooves in the cylindrical surface thereof and arranged in spaced relation, the axis of the grooves lying in planes perpendicular to the axis of the rolls; guide means associated with each roll; the guide means associated with at least one of said rolls comprising a plurality of fingers arranged in spaced relation, and extending transversely of the axis of said grooved roll and into said annular grooves, said fingers being mounted on a bar extending parallel to the axis of said grooved roll; means to rotate said rolls to deliver said sheet material upwardly between said rolls and to said guide means; and vertically elongated receiving and storage means located above said rolls having an end portion, adjacent said guide means, adapted to receive said sheet material, and side portions adapted to confine and store the same in pleated configuration.

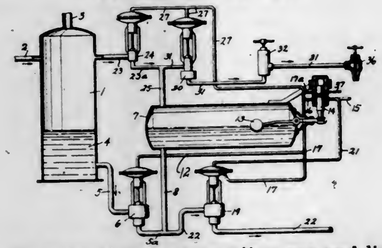
2,348,356
MICROPHONE
Harry F. Olson, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1941, Serial No. 376,861
15 Claims. (Cl. 179—138)

1. In a pressure gradient responsive microphone, the combination of means providing a magnetic path including an air gap, a conductor mounted for movement in said air gap in response to differences in sound wave pressure on opposite sides thereof, and means for deriving



from the sound waves driving forces for actuating said conductor which vary as a non-linear function of the frequency of said sound waves.

2,348,357
GAS AND OIL SEPARATOR
Asbury S. Parks, Houston, Tex.
Application July 14, 1941, Serial No. 402,400
8 Claims. (Cl. 183—2.7)



7. An apparatus for separating gas and liquid comprising a tank, supply valve means for controlling the supply of a liquid under pressure having a gas entrained therein to said tank, a gas discharge valve controlling the discharge of gas from the upper portion of said tank to a region of reduced pressure, a liquid discharge valve controlling the discharge of liquid from the lower portion of said tank, means responsive to the level of liquid in said tank operative upon a predetermined drop of level in said tank for closing the gas and liquid discharge valves and opening the supply valve means, and operative upon a predetermined rise of liquid in said tank for closing said supply valve means, opening the gas discharge valve and urging the liquid discharge valve to an open position, and said liquid discharge valve including pressure responsive means maintaining said liquid discharge valve closed until a predetermined pressure drop is effected.

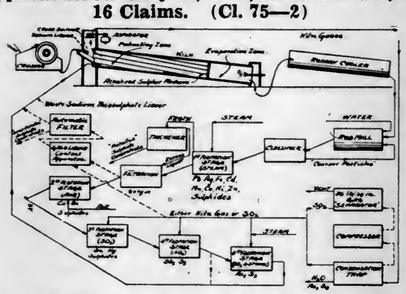
2,348,358
METHOD OF COATING TIN COATED COPPER WITH INDIUM
Albert J. Phillips, Plainfield, and Albert A. Smith, Jr., Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 14, 1941, Serial No. 393,410
1 Claim. (Cl. 204—35)

The method of treating tin coated copper articles used for handling milk whereby small minute openings in the tin coating are sealed preventing milk from coming into contact with the copper base metal therebeneath, which consists in plating indium on said tin coating to a thickness of 0.00003 inch, thereafter rubbing the indium coating with a soft cloth so as to spread the indium into surface imperfections in the tin coating filling them so that the copper base metal is provided with a sealing layer consisting of tin and indium which is free from pinholes and minute openings such as would expose the base metal.

2,348,359
METHOD OF EXTENDING THE LIFE OF ELECTROLYTIC POLISHING BATHS
Henry A. Holden Pray, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application November 4, 1939, Serial No. 302,852
6 Claims. (Cl. 204—140)

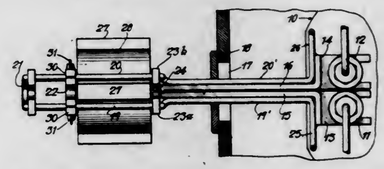
1. The method of restoring lost operating efficiency of a used electrolytic polishing bath which contained originally from 15 to 20 per cent sulfuric acid and from 63 to 67 per cent phosphoric acid, by weight, the balance being largely water, and which also contains nickel salts dissolved anodically during use, which method comprises heating said bath to a temperature between about 180° F. and the boiling point of said bath, allowing said bath to cool, and removing precipitated nickel sulfate therefrom.

2,348,360
METHOD OF RECOVERING MINERALS
Howard L. Reed, Austin, Tex.
Application January 22, 1941, Serial No. 375,441
16 Claims. (Cl. 75—2)



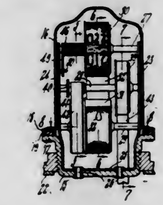
1. In a continuous method of recovering mineral values from a mass containing an element capable of forming a water-soluble alkali compound with sulphur, the steps of causing such mass to flow in a substantially continuous stream through zones of progressively increasing temperatures, mixing with such mass as it flows an excess of sulphur and an alkali, the temperature of the hottest of such zones being sufficient to cause a rapid sulphidization of said mass and vaporization of the excess sulphur, causing the sulphur vapor so produced to flow toward the cooler of said zones, and condense upon the stream of material flowing toward the hotter of such zones, leaching with water the solid materials flowing from the hottest of such zones, drawing off the aqueous solution, treating said aqueous solution with the gases from said heated zones to cause the precipitation therefrom of the insoluble sulphide of said element, collecting the barren liquor after such precipitation and mixing it with the stream of material entering said heated zones.

2,348,361
ADJUSTABLE WORK COIL CONSTRUCTION FOR INDUCTION HEATING
Wallace C. Rudd, Yonkers, and Nathan Levin, Brooklyn, N. Y., assignors to Induction Heating Corp., New York, N. Y., a corporation of New York
Application June 24, 1943, Serial No. 492,042
8 Claims. (Cl. 219—13)



1. An induction heating work coil construction adapted for brazing elongated objects of various lengths, within slotted supporting members therefor, comprising a pair of generally parallel conductor portions for extending along opposite sides of the objects, a pair of generally U-shaped conductor portions, the branches of which are electrically connected with said parallele portions and adapted respectively to depend therefrom down around the regions at each end of the objects, means slidable along said parallel portions for adjustably fixing the branches of one of said U-shaped portions along said parallel conductor portions to accommodate objects of different lengths, the other of said U-shaped portions being divided by a gap at its base, and means for electrically connecting the terminals of a high frequency source of power respectively at each side of said gap.

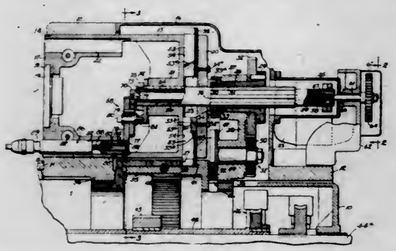
2,348,362
LIQUID LEVEL GAUGE
Henry J. G. Rudolf, Brookline, Mass., assignor to Applied Mechanics Co., Cambridge, Mass., a corporation of Massachusetts
Application February 11, 1942, Serial No. 430,380
3 Claims. (Cl. 73—321)



1. An indicator instrument adapted for application to liquid containers to show values dependent on the height of the liquid level therein, comprising a casing having means for attachment to such a container and having a window in one side, an indicating unit consisting of a pair of drums and a flexible band wrapped in relatively opposite directions of wind about the respective drums of said pair extending from one to the other, said drums being supported rotatably in the casing with a portion of said band adjacent to said window, a third drum mounted rotatably independently of the before named drums,a propelling tape secured to and wrapped about said third drum extending to the exterior of the casing, a belt drive between said third drum and said indicator unit, consisting of a pulley mechanically connected with the third

drum, a pulley mechanically connected with one of the pair of drums, a belt wrapped about said two pulleys for transmission of torque from one to the other when either is rotated, a spring engaged with the other one of said pair of drums and arranged to exert torque tending to wind up the band on that drum, and a float connected to said tape outside of the casing; the tape being wrapped about said third drum in the direction such that its withdrawal from the drum causes rotation of that drum with which said spring is engaged, through the belt and pulley transmission and the indicator band, oppositely to the direction of torque application by the spring.

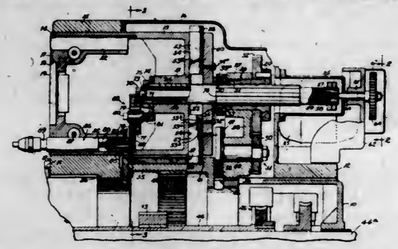
2,348,363
TURRET INDEXING MECHANISM
Harry W. Ruppel, Cleveland, Ohio, assignor to The Foote-Burt Company, Cleveland, Ohio, a corporation of Ohio
Application May 11, 1940, Serial No. 334,625
7 Claims. (Cl. 29—40)



1. In a machine tool, in combination, a support, a hollow turret mounted on said support for rotary movement and for axial reciprocation and having a plurality of parallel spindle holes opening to one end and annularly arranged in uniformly spaced relation about the axis of rotation, means for rotating said turret to index said holes successively into a working station, a plurality of rotary spindles respectively mounted in certain of said holes, a power drive shaft extending axially into the other end of said turret, gear means mounted entirely within said turret for establishing a drive connection between said shaft and said spindles, said gear means including a train of speed change gears, and a removable closure in said one end of said turret for affording access to said speed change gears.

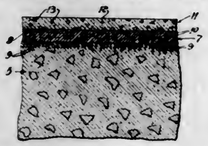
2,348,364
TURRET ACTUATING MECHANISM
Harry W. Ruppel, Cleveland, Ohio, assignor to The Foote-Burt Company, Cleveland, Ohio, a corporation of Ohio
Original application May 11, 1940, Serial No. 334,625. Divided and this application October 10, 1942, Serial No. 461,570
7 Claims. (Cl. 29—40)

1. In a machine tool, in combination, a frame, a turret housing on said frame, a turret mounted in said housing for axial reciprocation and for rotary indexing movements and having a plurality of tool holes annularly arranged in uniformly spaced relation about the axis of rotation, a cam drum mounted in said frame for rotation about an axis parallel to said turret axis and having cam means for reciprocating said turret in forward and reverse directions, drive means for rotating said drum, a plurality of pins projecting from said turret for movement in the successive indexing movements of said turret into operative engagement with said cam means and corresponding in number and spacing to said tool holes, each pin being adjustable in said turret



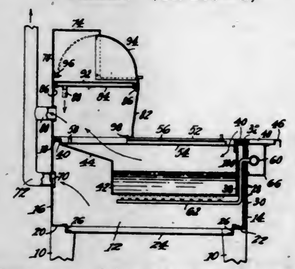
selectively into projected position for engagement by said cam means or into retracted position out of the range of said cam means, and means operable in timed relation to said drum to index said turret step by step respectively after successive revolutions of said drum.

2,348,365
PROTECTIVE COATING FOR CONCRETE PAVEMENTS
George H. Sandenburgh, Ann Arbor, Mich., assignor of one-half to William M. Pindell, Evanston, Ill.
Application March 13, 1940, Serial No. 323,647
6 Claims. (Cl. 94—23)



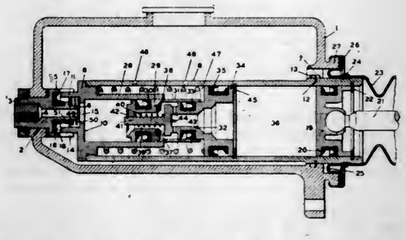
1. In combination with the slab of a concrete pavement, a relatively thin protective surface coating therefor embodying a layer containing tar adhered directly to the upper surface of the slab through the action of the tar and which penetrates at least in part into the pores of the concrete of said slab, and a traffic wear-resisting surface layer disposed upon the first layer and containing asphalt bonded directly to the first layer, at least one of said layers embodying relatively small particles of stone or the like therein.

2,348,366
STOVE
Bruno J. Saviskas, Worcester, Mass.
Application April 22, 1941, Serial No. 389,696
2 Claims. (Cl. 126—1)



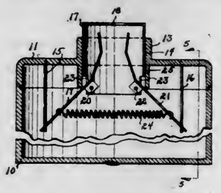
1. A stove comprising an open top cooking vessel having a rear wall, a drip apron extending upwardly and rearwardly from said wall, a heating compartment below said vessel, a warming compartment associated with said vessel and located to the rear thereof and generally above said drip apron, said warming compartment having an open bottom, a front wall in part defining said bottom, said front wall being approximately vertically above said vessel rear wall so that gases from the vessel are enabled to rise up said apron into said warming compartment, the latter being enclosed except for its open bottom, a gas exhaust at the rear of the stove for said warming compartment, a horizontally slidable door for said vessel forwardly of said warming compartment, and means preventing complete closing of said vessel by said door, whereby an air entry and cooking gas exit are always maintained for said vessel.

2,348,367
COMPOUND MASTER CYLINDER
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application October 3, 1941, Serial No. 413,460
9 Claims. (Cl. 60—54.6)



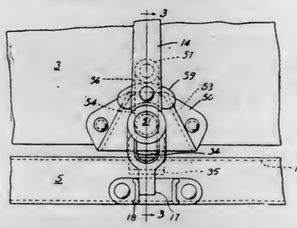
1. In a fluid pressure producing apparatus, a cylinder, an outlet for the cylinder, a piston in said cylinder, a second piston in said cylinder positioned between the first piston and the outlet passage and provided with a passage therethrough for permitting fluid pressure developed by the first piston to pass to the outlet, a spring for resisting the movement of said second piston, a second cylinder of smaller diameter than the first named cylinder positioned between the second piston and the outlet passage, a third piston in said second cylinder having a passage therethrough and provided with a cylindrical portion of smaller diameter than the small cylinder and extending toward the second piston, a fourth piston carried by the second piston and positioned in the cylindrical portion of the third piston so as to be subject to fluid pressure developed by the first piston, valve means carried by the third and fourth pistons for controlling the passages through the second and third named pistons, said valve means being controlled by a relative movement of the third and fourth pistons toward each other, means for biasing the two last named pistons apart and the valve means open, said valve means being caused to be closed when the pressure developed by the first named piston creates such a differential force as to move the third and fourth pistons toward each other and said valve means when closed causing fluid to be trapped between the first two named pistons whereby the second and third pistons can be actuated simultaneously with the first named piston against the resistance of the spring to thus cause the third piston to develop pressure.

2,348,368
ASH RECEPTACLE AND CIGARETTE BUTT SNUFFER
Carl A. Shepard, Des Moines, Iowa
Application November 8, 1940, Serial No. 364,828
7 Claims. (Cl. 131—237)



1. In a device of the class described, an inverted cup member having an opening in its end wall and adapted to be slidably mounted in a wall of a container, two spaced apart jaw members hingedly secured to said inverted cup member, and a means for yieldingly holding said two jaw members apart and said inverted cup member in an elevated position of its sliding movement.

2,348,369
RETARDING MEANS FOR RAILWAY CAR DOORS
Arthur E. Small, Porter, Ind., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application July 17, 1942, Serial No. 451,249
11 Claims. (Cl. 268—44)

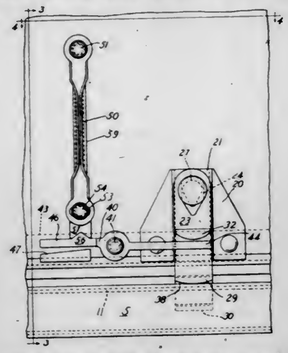


1. A door stop for a railway car having a track carried by the car and supported by spaced apart brackets associated with the track, a door movably mounted upon said track, a lever pivotally mounted upon said door and arranged when in certain positions to engage a projection carried by the car to impart movement to the door, said door stop comprising a pin slidably mounted upon said door for vertical movement into and out of horizontal alignment with said brackets, and means carried by said lever arranged to engage said pin when the lever is in said certain positions to move said pin out of alignment with said brackets.

2,348,370
RETARDING MEANS FOR RAILWAY CAR DOORS
James S. Swann, Homewood, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application September 2, 1941, Serial No. 409,187
3 Claims. (Cl. 292—68)

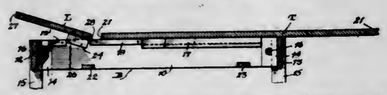
1. Retarding means for a door of a railway car, said door movable along a track having a

laterally extending part and carried by said car; said means comprising a dog slidably and pivotally mounted upon said door and comprising vertically spaced lugs disposed respectively above and below said laterally extending part so that upon pivotal movement of said dog said lugs bind upon said part and retard movement of said door along said track, a lever pivotally



mounted upon said door in engagement with said dog so as to raise the dog upon rotation of said lever to prevent said binding, a handle pivotally mounted upon said door for moving said door along said track, and cam means between the handle and the lever for rotating said lever upon pivotal movement of said handle, whereby said dog may be raised and said retarding means released by a force exerted upon said handle.

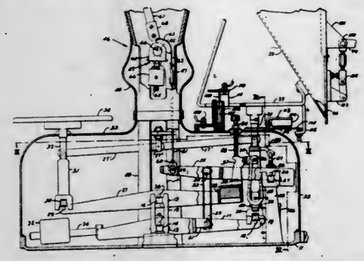
2,348,371
EXTENSION LEAF TABLE
John C. L. Viehmann, Manhasset, N. Y.
Application August 12, 1942, Serial No. 454,511
4 Claims. (Cl. 311—45)



1. An extension leaf table comprising a table body having a fixed frame and supporting legs, the said frame including side and end rails, a table top slidably mounted on said table frame between an extended position and a contracted position, guideways on opposite rails, runner blocks attached to said table top mating with said guideways for guiding the slidable motion of the table top, and an end extension leaf removably attachable bodily to the end of the table frame, the said extension leaf being provided for its removable attachment with runner blocks arranged to be insertable between the said opposite rails and to be slidably mateable with part of said guideways, the said extension leaf when attached to the table body being in horizontal alignment with and arranged in mating relation to the table top in extended position.

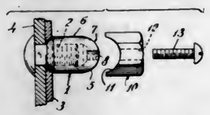
2,348,372
WEIGHING SCALE
Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 21, 1942, Serial No. 427,627
7 Claims. (Cl. 249—45)

1. In a device of the class described, in combination, weighing mechanism comprising load receiving means including a hopper, disengageable load counterpoising means for back-weighting said weighing mechanism, a load counterbalancing pendulum operatively connected to said load receiving means for automatically counterbalancing an increment of the load, an indicator connected to and actuated by said pendulum, a chart for said indicator, a series of weight indicia including a zero indicium marked on said chart and adapted to indicate the weight of the increment of load counterbalanced by said load counterbalancing pendulum, an indicium marked on said chart in spaced relation to said series of indicia, a light sensitive element, means for masking said light sensitive element having an opening, such opening being positioned in predetermined relation to said indicium on said chart in spaced relation to said series of indicia on said chart, a lamp for illuminating said light sensitive ele-



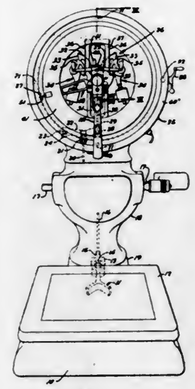
ment, means on said indicator for intercepting light emanating from said lamp, an electrically operated feeding means for delivering material to said hopper, a gate on said hopper adapted to close by the action of gravity, electrical means for opening said gate, an electrical circuit for energizing said light sensitive element as well as said electrically operated feeding means and said electrical means for opening said gate on said hopper, means comprising normally open switches in said electrical circuit for preventing energization of said electrically operated feeding means, and means associated with said hopper and said hopper gate for closing said normally open switches when said counterpoising means is disengaged and said means on said indicator for intercepting light from said lamp is in a nonintercepting position and said indicator is in registration with said zero indicium on said chart.

2,348,373
LOCKING DEVICE
William C. Welch, Philadelphia, Pa.
Application April 22, 1942, Serial No. 440,006
1 Claim. (Cl. 85—32)



A locking device for automobile wheels and the like which comprises a securing part having a head and screw threads permitting it to be screwed into engagement with a member to be held in place, the central portion of the head being entirely circular in cross-section and the end convex, thereby eliminating projections which may be engaged by a wrench, an operative part shaped to be engaged by an ordinary wrench and having a concave seat adapted to engage the convex end of the securing part, a tapped hole in the securing part, a hole in the operative part, and a screw adapted to be inserted in the hole of the operative part and be threaded into the tapped hole of the securing part removably holding the operative part to the securing part.

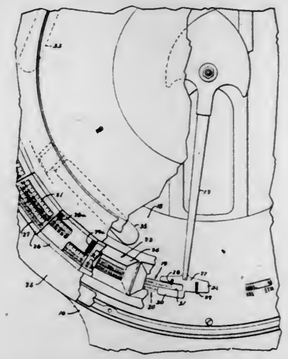
2,348,374
WEIGHING SCALE
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 17, 1942, Serial No. 427,161
12 Claims. (Cl. 88—24)



1. In a device of the class described, in combination, weighing mechanism including load receiving means, load counterbalancing mechanism operatively connected thereto and load indicating means actuated by said load counterbalancing mechanism comprising a rotatable indicator, a screen, optical projecting means, including an objective lens, carried by said rotatable indicator, a plurality of annular transparent charts, said charts being mounted concentrically and having planes facing each other, each of said annular transparent charts having a series of weight indicia printed on that plane facing the plane of the other of said charts, means for directing a pencil of light through said charts and through said projecting means carried by said indicator, and a segment of transparent material mounted between the outer of said charts and said objective lens to intercept that portion of such pencil of light passing through the indicia spaced at the greater distance from the objective lens whereby images from the indicia of both charts will be brought into focus by the projecting means on said indicator on said screen at equal magnification.

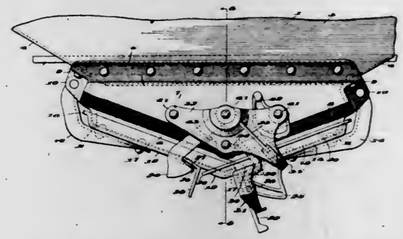
2,348,375
WEIGHING SCALE
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application August 5, 1942, Serial No. 453,635
3 Claims. (Cl. 116—129)

1. In a weighing scale, in combination, a chart bearing weight indicia, said indicia being arranged in circumferentially spaced groups in two concentric series of groups, one of said series comprising a conventional series of indicia from which alternate groups of indicia have been deleted, the other of said series comprising the deleted groups, said groups being located in adjacent pairs, each of said pairs of groups consisting of successive indicia, a plurality of lens cells disposed above said pairs of groups, the



inner ends of the walls of said cells hiding the space between said groups from view, a plurality of lenses, one of said lenses being mounted in the outer end of each of said cells, and an indicator having two index lines, one of said index lines being associated with each of said series of groups.

2,348,376
RAILWAY CAR
Ernest G. Goodwin, Toledo, Ohio, assignor to Unitcast Corporation, Toledo, Ohio, a corporation of Ohio
Substituted for abandoned application Serial No. 401,007, July 3, 1941. This application March 4, 1943, Serial No. 477,963
3 Claims. (Cl. 105—280)



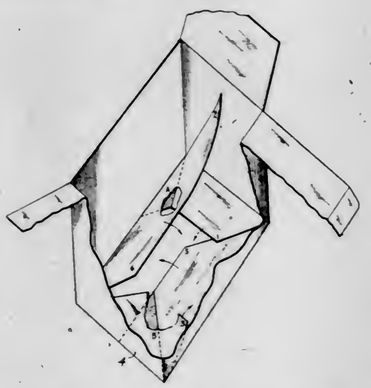
1. In a railway car having a lading discharge opening, a pair of oppositely arranged hinged doors respectively adapted to be disposed in downwardly converging planes for closing said lading discharge opening, each of said doors having a main body portion and upturned marginal flanges along the side and free edges thereof, means for supporting one of said doors in a partially closed position, and means engageable with the other door for supporting both of said doors in fully closed position, said marginal flanges of the doors being arranged so that when the doors are in fully closed position the portions of the side marginal flanges adjacent the free edges of the doors are in overlapping relation and the marginal flanges at the free edge of each door overlaps the body portion of the other door.

2,348,377
CARTON
Charles H. Goodyear, Stockton, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application May 24, 1940, Serial No. 337,629
1 Claim. (Cl. 229—51)



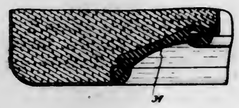
A carton having spaced lines of weakness in walls thereof to provide a tear strip for effecting separation of the carton into main and cover sections upon removal of the strip, said tear strip extending across three of the walls of the carton in spaced relation to the top wall of the cover section to leave main and cover sections connected by the fourth wall on a line closely adjacent two of the adjacent corners of the fourth wall, and a stiff tubular open ended liner in the carton coextensive with the side and end walls thereof to provide a flange over which the separated cover section may be reseated in its unopened position to leave exposed a band of the liner equal in width to the tear strip.

2,348,378
CARTON
Charles H. Goodyear, Stockton, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application April 30, 1942, Serial No. 441,242
1 Claim. (Cl. 229—41)



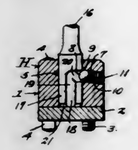
A carton comprising side and end walls, and a bottom including a flap hinged on each wall, each side flap being hinged to a different end flap on lines intersecting diagonally opposite corners, one of the side flaps having three free edges seating in the hinge folds between the other three flaps and their respective connected walls, and at least one of said end flaps having a free square end seating in the hinge fold between a side flap and its connected well.

2,348,379
REFRIGERATING APPARATUS
Martin J. Goulooze, Grand Rapids, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application October 16, 1941, Serial No. 415,186
1 Claim. (Cl. 220—9)



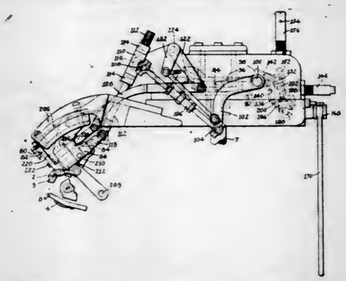
A cabinet construction comprising spaced apart walls having their marginal edges bent to extend toward each other and in spaced apart relation, an insulated flexible breaker strip disposed between said marginal edges and having slits formed in the longitudinal edges thereof for the reception of said marginal edges, a flat resilient member extending over the outer face of said breaker strip, and means on the outer face of said breaker strip adjacent the respective slits for engaging the longitudinal edges of said resilient member, said resilient member being bowed longitudinally to permit the longitudinal edges of said resilient member to engage said means of said breaker strip for urging the longitudinal edges of the breaker strip toward the marginal edges of said walls, said means on the face of the breaker strip normally being so spaced that said resilient strip remains bowed in operative position.

2,348,380
PUNCH
Frank Benjaman Graham, Lansing, Mich.
Application July 19, 1943, Serial No. 495,330
1 Claim. (Cl. 164—124)



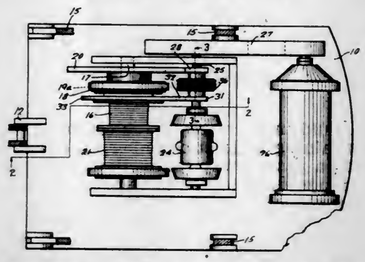
In a mounting for a punch or similar tool, a retainer having a guideway extended partway therethrough, an outer ball carried by the retainer and held to extend into the guideway, an inner ball carried by the retainer and spring-pressed to extend into the guideway, the outer ball and the inner ball being spaced apart both longitudinally and circumferentially of the guideway, and a tool insertable longitudinally into the guideway, the tool having a superficial groove comprising longitudinal and transverse portions, the outer ball being received in the longitudinal portion of the groove, when the tool is inserted as aforesaid, and the inner ball then engaging the tool to one side of the longitudinal portion of the groove, the tool abutting against the retainer, at the inner end of the guideway, to aline the transverse portion of the groove with the outer ball, the tool thereafter being rotatable with respect to the retainer, to cause the outer ball to enter the transverse portion of the groove, and to cause the inner ball to enter the longitudinal portion of the groove and to engage one side thereof.

2,348,381
THREAD CUTTER FOR SEWING MACHINES
Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 23, 1940, Serial No. 366,895
28 Claims. (Cl. 112—252)



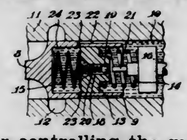
23. A shoe sewing machine having, in combination, stitch forming devices, a work support and a presser foot at the front of the machine for clamping between them that portion of the work operated upon while being presented to the stitch forming devices, a fulcrum for the presser foot at the rear of the point of operation of the stitch forming devices, a cutter for severing the thread at the end of a seam, a movable carrier for supporting the thread cutter, an arcuate guideway for the carrier, the center of curvature of which guideway is concentric with the fulcrum of the presser foot, mechanism for actuating the carrier in the guideway including a disconnectible connection, a notched element on the presser foot, a displaceable element connected to the carrier arranged to slide along the notched element for controlling the position in which the carrier is disconnected from its actuating mechanism and for locking the carrier to the presser foot at a position determined by the thickness of the work, and means for holding the displaceable element out of sliding engagement with the notched element to free the presser foot from movement restricting force when the carrier is disconnected.

2,348,382
SAFETY DEVICE FOR HOISTING MECHANISM
Edwin G. Halby, Marion, Ohio, assignor to The Marion Steam Shovel Company, Marion, Ohio, a corporation of Ohio
Application September 17, 1942, Serial No. 458,745
3 Claims. (Cl. 254—187)



3. In a hoisting mechanism comprising a hoisting drum, a load supporting cable wound on said drum, a shaft, means for rotating said shaft, and a driving connection between said shaft and said drum to impart load hoisting rotation to the latter in a direction opposite the direction of rotation of the shaft, a clutch including a member rigidly connected with said shaft, a second member rotatably supported on said shaft and having a friction surface extending about said rigidly connected member, said rigidly connected member having circumferentially spaced eccentric bearing surfaces, supporting members mounted for oscillatory movement on the respective bearing surfaces, and friction shoes pivotally mounted on said supporting members and movable into non-clutching relation to said friction surface by the rotation of said clutch members in opposite directions and into clutching engagement with said friction surface by said second clutch member when rotative force is exerted on said second member in the direction of rotation of the first mentioned clutch member, and a driving connection between said drum and said second clutch member to rotate the latter in the same direction that said drum rotates.

2,348,383
MEANS FOR CONTROLLING MOVEMENTS OF VALVES OR OTHER ELEMENTS
Stanley Hedgecock, London, England, assignor to Laystall Engineering Company Limited, London, England
Application October 9, 1941, Serial No. 414,388
In Great Britain July 2, 1941
9 Claims. (Cl. 251—143)

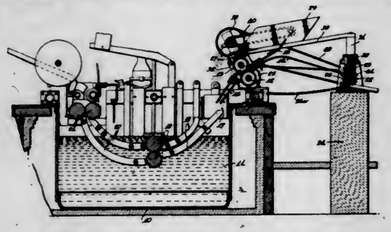


1. Means for controlling the movement of an actuated member, comprising, a body having a guiding bore, a stationary base in said bore, a tubular extension for said actuated member slidable in said bore, a floating member mounted to move within said extension with respect to said actuated member, and dividing said extension into primary and secondary chambers, primary and secondary loading means respectively located in said chambers and acting in opposite directions on said floating member, both loading means cooperating with said base to resist actuating effort applied to said actuated member, said primary loading means being of greater strength than the secondary loading means and imposing resistance on the actuated member which progressively increases with increased deflection thereof, resistance means between the actuated member and the floating member for restraining substantial displacement of the floating member relative to the actuated member such as would permit deflection of the secondary loading means while the primary loading means is being deflected during the initial period of movement of the actuated member, and means for releasing said resistance means after a pre-determined degree of deflection of said primary loading means.

2,348,384
COATING APPARATUS
Edward H. Hillman, deceased, late of Steubenville, Ohio, by Grace E. Fellows, Youngstown, and Walter F. MacQueen, Niles, Ohio, administrators, assignors to National Steel Corporation, Pittsburgh, Pa., a corporation of Delaware
Application July 31, 1942, Serial No. 453,080
6 Claims. (Cl. 91—12.5)

6. A device of the character described comprising a galvanizing pot, a receptacle adjacent

the pot for holding a flux in crystalline or granular form, a guide wheel in the receptacle, a guide wheel above the pot, a continuous conveyor operatively engaging the guide wheels, receptacle means on the conveyor, means associated with



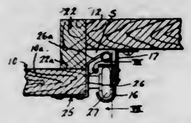
the conveyor for causing the receptacle means to pick up flux in the receptacle and deposit the same in the pot, sheet feeding rolls associated with the pot, and means for driving the feeder rolls and conveyor from a single source of power.

2,348,385
WELDING TORCH COOLER
Wilbur S. Houghton, Glendale, Calif., assignor to Victor Equipment Company, San Francisco, Calif.
Application January 3, 1941, Serial No. 372,995
1 Claim. (Cl. 158—27.4)



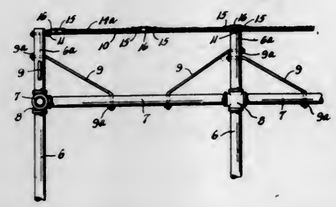
A gas torch nozzle having a tubular shank and provided with a plurality of heat radiating fins projecting outwardly along said shank, the tubular shank portion of the nozzle and said fins being principally of aluminum to lower the heat conductivity of the nozzle therethrough, and being a separate section detachably connected to the torch nozzle at one end and to the torch body at the other end, outwardly of the gas mixing chamber of the torch.

2,348,386
UPWARD ACTING DOOR CONSTRUCTION
George H. Hufferd, Grosse Pointe, and Matthew P. Graham, Detroit, Mich., assignors to Crawford Door Company, Detroit, Mich., a corporation of Michigan
Original application September 16, 1940, Serial No. 356,998. Divided and this application May 29, 1942, Serial No. 444,954
3 Claims. (Cl. 20—19)



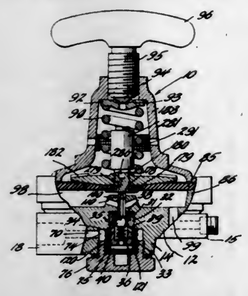
2. An upward acting door construction comprising a doorway having side door jambs, vertical tracks mounted on the inner faces of the door jambs in spaced relation from the doorway and from the door jambs, weatherstrips carried by the door jambs extending inwardly from the door jambs into abutting relation with the outer face of the door at the side edges of the door, said inner faces of the door jambs, weatherstrips, and tracks defining fixed isolated vertical paths in front of the side edges of the door and completely closed around the peripheries thereof except for narrow gaps between the tracks and the door, brackets carried by the door having fingers projecting forwardly of the outer face of the door into said paths, and a spring cable unit anchored to said fingers and trained through said paths for counterbalancing said door.

2,348,387
AERIAL BOMB PROTECTIVE APPARATUS
John D. Hume, Minneapolis, Minn.
Application October 19, 1940, Serial No. 361,927
1 Claim. (Cl. 109—49.5)



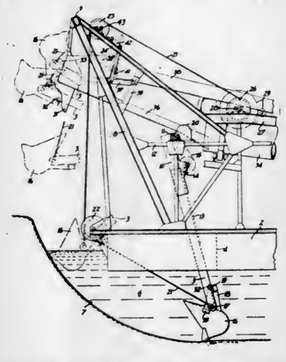
Aerial bomb protective apparatus comprising, a network-supporting-frame, a series of widely spaced reinforcing flexible elements supported from said frame, and a layer of flexible netting secured to said frame and supported on said flexible elements, said layer of netting being made up of a plurality of readily replaceable netting units, and quick detachable means for connecting said units together.

2,348,388
FLUID PRESSURE REGULATOR
Alexander F. Jenkins, Baltimore, Md.
Original application December 6, 1940, Serial No. 368,937. Divided and this application September 11, 1942, Serial No. 458,023
2 Claims. (Cl. 50—21)



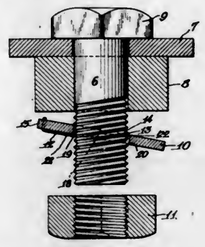
1. A fluid pressure regulator comprising a casing containing an inlet chamber, an outlet chamber, and a passageway connecting said chambers, a valve member adapted to reciprocate axially of said passageway to control the passage of fluid therethrough from said inlet chamber to said outlet chamber, a flexible diaphragm comprising a wall of said outlet chamber, a separate floating pin movable longitudinally in said passageway and extending from said diaphragm to said valve member to unseat and to permit the seating of the latter in response to movements of said diaphragm, said pin having a plurality of longitudinal flutes in its outer surface, a groove in said surface circumferentially thereof and of less depth than the flutes, a resilient plain substantially circular ring disposed in said groove and sprung outwardly of the axis of said pin where it bridges the flutes to frictionally and resiliently engage the walls of said passageway, whereby the ring is securely retained on the pin and vibration of the plunger within the passageway during the automatic regulation of the valve is prevented.

2,348,389
DREDGE
Walter W. Johnson, Berkeley, Calif.
Application October 13, 1941, Serial No. 414,715
4 Claims. (Cl. 37—71)



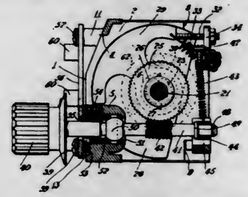
1. A dredge comprising a buoyant body, a bucket, an arm on which the bucket is pivotally mounted, said arm arranged on the body for carrying the bucket into filling position under the body and to dumping position above the body, cam means for turning the bucket relative to the arm to discharge material therefrom in the dumping position, and a stop upon the bucket for engaging the arm to limit turning movement of the bucket in the dumping direction.

2,348,390
WASHER RETAINER
Samuel M. Kass, Philadelphia, Pa.
Application October 20, 1941, Serial No. 415,729
5 Claims. (Cl. 85—50)



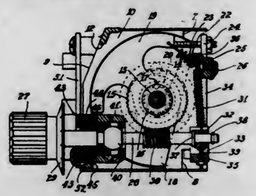
1. In a device for holding a washer on a bolt used with parts through which the bolt passes downwardly, a washer surrounding the bolt below the parts and flexible sustaining means for the washer surrounding the bolt, engaging with the threads of the bolt and connected to the outer circumference of the washer at one side of the bolt.

2,348,391
VARIABLE CONDENSER
Arthur S. Kester, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application January 8, 1942, Serial No. 425,987
6 Claims. (Cl. 116—124.1)



6. In a drive for variable condensers and the like, two sleeves, a casting having a front wall and two spaced transverse wings, the front wall having a window and three mounting points, and the wings being perforated, a main shaft projecting through the perforations in the wings and carrying on its two free ends the sleeves fastened thereto, a ball bearing for the shaft in each wing, a driving gear fastened to the shaft between the two wings, an indicating dial fastened to the shaft between the two wings and visible through the window, a reference dial rotatably mounted on said main shaft between said wings, an adjustable stop for said reference dial, a spring holding said reference dial against said stop, a transverse worm shaft at right angles to the main shaft and engaging with its worm the gear, a ball formed near one end of said transverse shaft, a rigid and a resilient seat for said ball in said casting, a slidable bearing for the other end of said transverse shaft in said casting, a coiled spring engaging said slidable bearing and pulling the worm of the transverse shaft into engagement with said gear, and end plates mounted on said wings spaced therefrom.

2,348,392
VARIABLE CONDENSER
Arthur S. Kester, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application July 8, 1942, Serial No. 450,169
2 Claims. (Cl. 74—10)



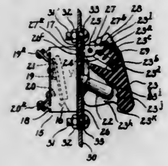
1. In a drive for variable condensers and the like, a main shaft, a driving gear fastened to the shaft, a driving shaft having a worm intermediate its ends engaging said gear, a bearing for one end of said driving shaft, a guide confining one end of said bearing for movement in one plane, resilient means forcing said bearing in said plane in a direction to press the worm into engagement with the gear, a movable stop limiting the motion of said bearing in the opposite direction in said plane, a ball formed on the driving shaft between the worm and its other end, a cup shaped seat for said ball, and a knob fastened to said other end of the shaft for rotating it.

2,348,393

GUARD FOR ELECTRIC SWITCH LEVERS

Alvin W. Krieger, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application April 20, 1942, Serial No. 439,707
18 Claims. (Cl. 200—172)



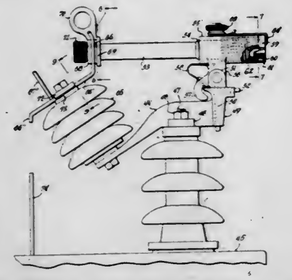
18. A protective guard adapted for use with a switch having a pivoted switch lever comprising a body cover member for said lever, said cover member being provided with a recess therein, a fixedly secured upstanding hinge post adapted to extend into said recess, pintle means connecting said hinge post and the walls of said cover member defining the said recess therein to provide for hinge movement of said cover member, a spring member carried in said recess, and means providing a turning movement of one end of said spring member on said hinge post to constitute an over-center mechanism whereby said spring member as it passes a dead-center position upon movement of said cover member will be biased towards the position to which said cover member is being moved, said cover member including an interior surface thereof adapted to slidably engage and operate said pivoted switch lever as said cover member is moved into protective position over said switch lever.

2,348,394

CIRCUIT INTERRUPTER

William D. Kyle and Chester W. Brown, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis., a corporation of Delaware

Application November 21, 1941, Serial No. 419,858
17 Claims. (Cl. 200—114)



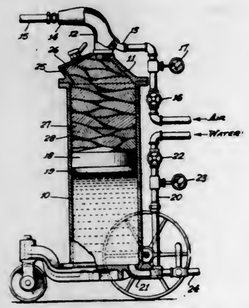
16. A circuit interrupter comprising a first terminal, an insulator supported from said first terminal, a second terminal carried by said insulator, a sleeve, a pivot support member pivotally supporting said sleeve and carried by said sleeve and comprising relatively movable portions, said first terminal having means for removably receiving said pivot support member, a fuse tube slidably mounted within said sleeve and having an open end normally adjacent said sleeve and having a contact at the other end of said fuse tube, said second terminal having means yieldingly gripping the contact of said fuse tube, a fuse link normally connecting the contact of said fuse tube with said sleeve, means for attaching said fuse link to said sleeve, and a spring urging said fuse tube towards sliding motion with reference to said sleeve, said fuse tube being normally restrained against sliding motion by said fuse link, said fuse tube after executing sliding motion being unbalanced and rocking about said pivot support member.

2,348,395

METHOD OF LINING AND INSULATING THE INTERIOR SURFACES OF CONTINUOUSLY OPERATED FURNACES

Leonard Larson, McGill, Nev., assignor to Kennecott Corporation, New York, N. Y., a corporation of New York

Application December 8, 1941, Serial No. 422,039
8 Claims. (Cl. 266—43)



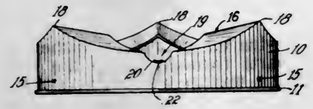
1. The method of providing a cellular refractory lining for the interior surfaces of a heated furnace or the like, which comprises: forming an aqueous dispersion of finely divided solid material consisting principally of divided refractory material and containing a highly colloidal argillaceous material, said aqueous dispersion having not less than about 30% water and a plastic consistency such that the shear point thereof, as determined by a "modified Stormer viscometer" is within the range of 100 grams and about 3000 grams; charging such a mixture into a dispensing chamber together with a quantity of free water to form a heterogeneous mixture of such plastic material and free water within said chamber; and discharging such mixture from said chamber with the aid of fluid pressure while directing such discharged mixture against such heated surface, whereby such plastic thixotropic argillaceous material is caused to forcibly impinge upon such surface in a plurality of successive "slugs."

2,348,396

ASH TRAY

John G. Lawrence, Tampa, Fla.

Application September 14, 1942, Serial No. 458,187
12 Claims. (Cl. 131—242)



1. An ash tray comprising a circular, openable body including a cover therefor having a central opening, the cover including a plurality of segmental sections each having downwardly converging surfaces, the lower meeting marginal portions of said surfaces being radially troughed and apertured longitudinally of the trough, and the apertures having elevated, longitudinal bridges, said bridges being troughed lengthwise.

2,348,397

PACKING STRUCTURE AND METHOD OF PACKING

Curtis Lindley, Jr., Empire, Charles H. Goodyear, Stockton, and Willis H. Thomas, San Francisco, Calif.; said Goodyear and said Thomas assignors to said Lindley

Application May 29, 1940, Serial No. 337,820
2 Claims. (Cl. 206—46)



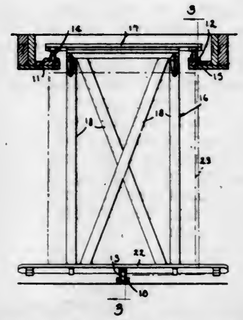
1. A packing structure comprising a container for articles packed in layers each of which layers includes a plurality of staggered intermeshing rows, a tray overlying each lower layer for supporting the next higher layer thereover and having wall portions foldable upwardly to lie against the adjacent walls of the container, and fillers providing cells for receiving the articles, the fillers comprising base strips underlying alternate rows of articles, a plurality of upwardly foldable cell wall panels upon the edges of the base strips, each panel having a main portion positioned for alinement with an article of a row upon one side thereof and with a space between adjacent articles of a row upon the opposite side thereof, and wing portions upon the main cell wall portions extending between the adjacent articles of adjacent rows at obtuse angles to the main wall portions, the erected cell wall panels being of a height sufficient to provide support for an overlying tray.

2,348,398

RACK

Raymond P. Lorey and Frank L. Lorey, Jasper, Ind.

Application April 2, 1942, Serial No. 437,460
7 Claims. (Cl. 211—28)



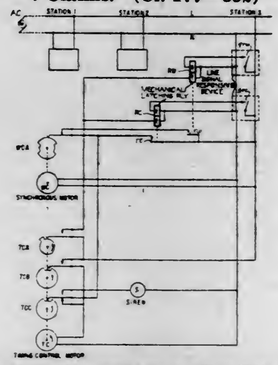
2. In combination in a display rack, an inclined support adapted to receive and support a relatively large and flat article, said support being of substantially the same length and width as the article supported, a beam extending across the top portion of said support and extending beyond the side edges thereof, rollers respectively connected to the underside of said beam and the lower end of said support, and means for receiving and guiding said rollers, the lower end of said support being provided with one roller only, while the upper end of said support is provided with a plurality of rollers, one on each end of said beam.

2,348,399

ELECTRICAL SIGNALING SYSTEM

John Francis Mackenzie, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application October 2, 1940, Serial No. 359,414
In Great Britain October 3, 1939
7 Claims. (Cl. 177—352)



1. In a signaling system, a plurality of stations, an impulse generator at each station, an alternating current network serving said stations, synchronous motors at the stations operating over said alternating current network and driving said generators in synchronism, devices at the different stations operated substantially simultaneously and each effective when operated to cause the generator at its station to begin to generate impulses, said impulses being generated in unison by the generators at the different stations, a second motor at each of said stations, means at each station for transmitting the first impulse generated thereat to said second motor at that station to initiate its operation, means at each station controlled by said second motor for thereafter sustaining its operation independently of said generator for a predetermined interval, a responding device at each station, and means at each station controlled by said second motor thereat during said interval for transmitting the impulses generated by the generator at that station to the responding device at that station.

2,348,400

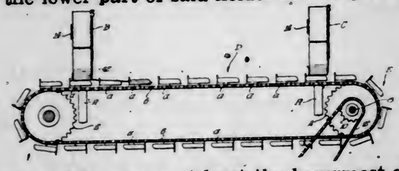
DISPENSING MECHANISM

Robert O. Manspeaker, Chicago, Ill.

Application October 6, 1941, Serial No. 413,763
4 Claims. (Cl. 214—8.5)

2. In an apparatus of the character described, a conveyor travelling in a substantially fixed closed path in a substantially vertical plane and comprising a plurality of individual spaced receiving and discharging elements carried upon the upper surface thereof, a holder for a stack of superposed articles positioned above said conveyor having an opening in the bottom, a substantially centrally positioned stack supporting member partially closing said opening extending in the general direction of travel of said conveyor and adapted to support the lowermost article of the stack, said

stack supporting member comprising a flat strip disposed centrally across the bottom part of the holder providing a guideway space on opposite sides thereof for said receiving and discharging elements, the front and rear of the lower portion of said holder with respect to the direction of movement of said conveyor having openings therein, and said receiving and discharging elements being provided with projecting members on opposite sides of the back thereof adapted to move through said rear and front openings of the lower part of said holder in said guideway



space and to engage at least the lowermost article of said stack thereby to cause said article to be deposited in said receiving and discharging elements when the latter pass into operative association with said guideway space, said strip extending beyond said holder in the direction of movement of said conveyor and the portion beyond said holder inclining downwardly in a gentle slope whereby when said articles are removed from the bottom of the stack by said projecting members they will be carried downwardly over said slope and deposited gently into the receiving and discharging elements.

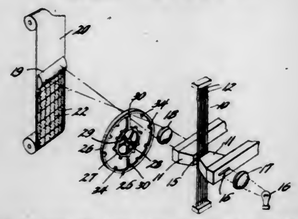
2,348,401

APPARATUS FOR RECORDING WAVE FORM SIGNALS

Lorenzo Manzanera, San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.

Application July 28, 1942, Serial No. 452,661

6 Claims. (Cl. 234—36)



1. In apparatus for the multiple recording of seismic signals, means for feeding a sensitized strip in the direction of the length thereof, means to record on said strip a plurality of traces extending lengthwise of the strip, and timing mechanism for recording on said strip a succession of transverse lines representing equal time intervals with certain of said lines intersecting all of said traces and with the major number of said lines, disposed intermediate said first named lines, intersecting only those traces immediately adjacent each edge of the strip.

2,348,402

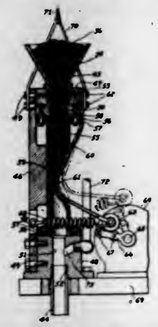
DISPENSING DEVICE

Frank Miller, West Orange, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey

Application June 2, 1943, Serial No. 489,375

1 Claim. (Cl. 222—529)

A device for dispensing a fluent material, comprising a vertical body having a container at its upper end, a flexible discharge tube for the container extending downwardly along the body, a spring arm extending downwardly along the side of the tube and having a bowed portion intermediate its ends to constrict the intermediate portion of the tube for preventing the flow of



material through the tube, means for securing the upper end of the spring arm to the body at the upper end of the tube, and means for intermittently flexing the spring arm out of engagement with the discharge tube to permit the flow of material through the tube.

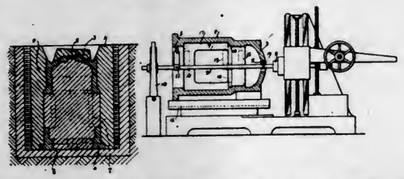
2,348,403

METHOD OF MAKING PRESS STRUCTURES

Johan A. Muller, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware

Application January 2, 1941, Serial No. 372,720

7 Claims. (Cl. 29—148)



1. A method of making the main body of a press having a press head and a press base, which comprises the steps of simultaneously casting the press head and press base as a single integral hollow unit with windows therebetween, machining the interior of said casting by turning operations only while providing in the base of said casting a shoulder and a bore of a diameter at least slightly greater than the diameter of a press ram to be assembled in the interior of said casting, inserting said press ram through said opening into the press body, closing said opening by a bed member supported by said shoulder, introducing the press platen and guiding means therefor through at least one of said windows, and operatively connecting said platen with said ram.

2,348,404

INDUCTION COIL MOUNTING

Herbert F. Obergfell, River Forest, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware

Application June 11, 1942, Serial No. 446,635

3 Claims. (Cl. 175—361)

3. The combination of an induction coil having a wedge-shaped spool head on each end

thereof, two mounting side members each shaped to fit the contour of one of the sloping wedge surfaces on each of said spool heads, and means for clamping said two side members around said induction coil at both ends, said wedge-shaped



spool heads creating a wedging action against said side members in response to tightening said clamping means to thereby distribute the clamping pressure evenly over a large area of the surfaces of both said spool heads.

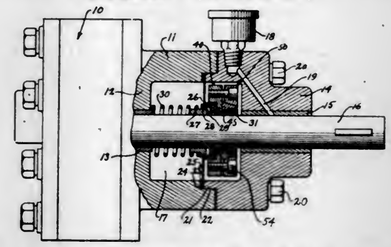
2,348,405

SEAL CONSTRUCTION

Oscar G. Odelius, Chicago, Ill.

Application February 22, 1943, Serial No. 476,684

8 Claims. (Cl. 286—11)



1. A shaft seal comprising a plastic composition bushing, means for contracting said bushing into tight gripping engagement around a shaft, said bushing having a recessed end face, a flexible metal diaphragm having an aperture adapted to freely receive said shaft and a face portion surrounding said aperture adapted to engage the end face of the bushing, and a sleeve slidable on said shaft having a collar for engaging the other face of the diaphragm and a pilot portion projecting through the diaphragm aperture into the recess of the end face of the bushing in spaced relation from the recess defining walls.

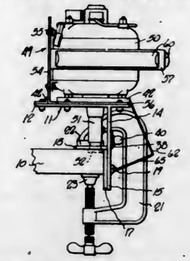
2,348,406

PORTABLE RECESS CUTTER

Russell B. Ogren, South Bend, Ind.

Application August 12, 1941, Serial No. 406,568

7 Claims. (Cl. 144—27)



1. In a portable recess cutter, a guide frame comprising a pair of interconnected angularly disposed plate portions adapted to engage a work piece at a corner thereof, a spacing plate projecting from said plate portions and a surface plate carried by said spacing plate in spaced parallel relation to one of said first named plates, said angularly disposed plates, surface plate and spacing plate having communicating cut outs therein adapted to receive a cutting element for engagement with the face of said work piece parallel to said surface plate.

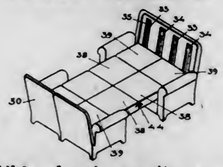
2,348,407

CONVERTIBLE SLEEPING UNIT

Ralph Hender O'Neill, Dartmouth, Nova Scotia, Canada

Application October 28, 1940, Serial No. 363,074

1 Claim. (Cl. 155—6)



In convertible sleeping units, a pair of individual seats adapted to be placed in a vis-a-vis arrangement with one another, each seat having a solid bottom wall and a solid back rest, said back rest being shorter in height than the length of said bottom wall, parallel channel members secured to said solid back rest and bottom wall and suitably spaced from the side edges thereof and having key-ways formed in their uppermost ends and forming stops at their extreme ends, a bottom cushion and a back cushion secured together by hinged flaps, a pair of runners secured to the underside and at the free end of said back cushion, a pair of runners secured to the underside and at the hinged end of said bottom cushion, said runners adapted to engage with said channel members and regulated as to length of travel by the stops formed at the extreme ends of said channel members.

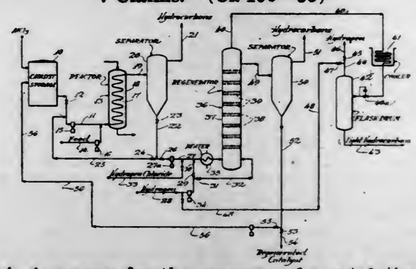
2,348,408

CATALYST RECOVERY

James M. Page, Jr., Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

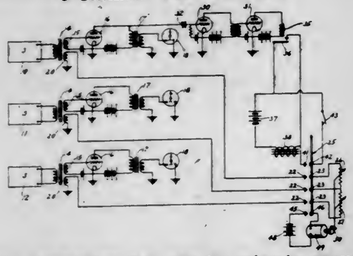
Application November 30, 1940, Serial No. 368,003

7 Claims. (Cl. 196—53)



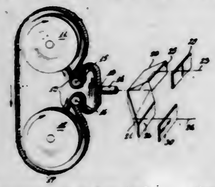
4. A process for the recovery of a catalytically active aluminum halide-hydrocarbon complex from a comparatively inactive aluminum halide-hydrocarbon sludge formed during the conversion of hydrocarbons in the presence of an aluminum halide catalyst which comprises treating said aluminum halide-hydrocarbon sludge with hydrogen in the presence of an active hydrogenation catalyst selected from the group comprising the oxides and sulfides of the heavy metals of the sixth group of the periodic system under such conditions of temperature and pressure that there is no substantial vaporization of aluminum chloride but that there is a restoration of said aluminum halide-hydrocarbon complex to a catalytically active fluid state.

2,348,409
SEISMIC SURVEYING
Josephus O. Parr, Jr., San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application June 14, 1941, Serial No. 398,166
9 Claims. (Cl. 177—352)



1. In apparatus for use in seismic surveying, the combination with a plurality of seismometers, of separate amplifying and recording devices associated therewith for separately recording energy representative of earlier arriving seismic waves, means for combining the signal energy from at least two of said seismometers and for delivering the combined energy to one of said recording devices, means operable on the arrival of seismic energy at that seismometer which is more remote from the source of the seismic disturbance for initiating operation of said first named means and for thereafter varying with time the extent to which such energy is combined by said first named means.

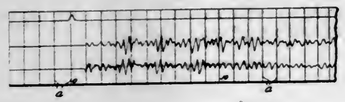
2,348,410
APPARATUS FOR TAKING STEREOSCOPIC OR THREE-DIMENSIONAL MOVING PICTURES
Guillermo Pastor, La Paz, Boliva
Application October 13, 1941, Serial No. 414,876
6 Claims. (Cl. 88—16.6)



1. In an apparatus for tak... stereoscopic moving pictures, in combination, a moving picture camera having a master film, a pilot film movable in front of and adjacent to the master film past the lens of the camera, said pilot film having its alternate frames treated to polarize light in opposite senses, and angularly disposed mirrors at either side of the lens reflecting to mirrors placed immediately within the optical axis of the lens, the light between the angularly disposed mirrors and the mirrors directly within the optical axis of the lens being intercepted by polarizing filters in opposite senses to alternately block light passing to the film.

2,348,411
METHOD FOR CORRELATING SEISMOGRAPHIC CURVES
Olive S. Petty, San Antonio, Tex.
Application February 8, 1941, Serial No. 378,114
7 Claims. (Cl. 35—10)

1. In a method of geophysical exploration wherein a detonation is set off at a point in the earth's surface, the resulting seismic wave impulses recorded on seismograms, at one or more stations spaced from the point of detonation, in the form of seismographic curves, plotted across time-interval lines the spacing of which is either non-uniform or according to different scales of measurement, or subject to both such disconformities, and the several seismographic curves correlated: the steps of successively transcribing two or more of such curves onto a common surface having uniformly spaced time-interval in-



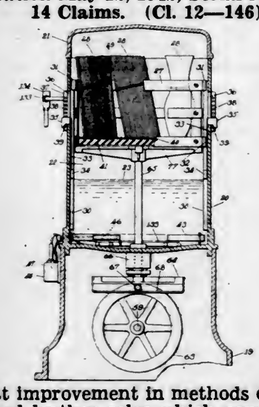
dicia inscribed thereon, each of said curves being transcribed section by section, a section being the portion of the curve which lies between adjacent time-interval lines, each point on each section of each transcribed curve occupying the same relative position with respect to the bounding time-interval indicia on said common surface that the corresponding point of the original curve occupied relative to the adjacent time-interval lines on the original seismogram from which said curve was transcribed.

2,348,412
PUMP ASSEMBLAGE
Edward M. Pfauser, Elm Grove, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application September 19, 1941, Serial No. 411,517
11 Claims. (Cl. 103—41)



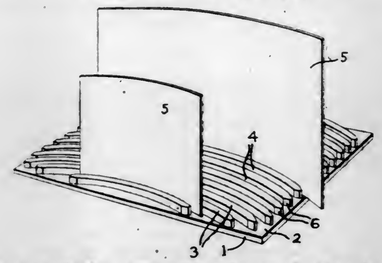
1. In combination, a casing having a bore and a socket adjoining the bore, a pump plunger movable in said casing bore, a pivot member swingable in said socket and coacting with said plunger to move the same, a relief valve associated with said casing laterally adjacent to said socket, a lever for oscillating said pivot member, a rod journalled for rotation in the swinging end of said lever and being operatively connected to said valve, and an actuating knob for said lever and valve secured to said rod and journalled for rotation on the swinging end of the lever.

2,348,413
METHOD OF TEMPERING SOLES
William E. Phinney, Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey
Application May 12, 1942, Serial No. 442,623
14 Claims. (Cl. 12—146)



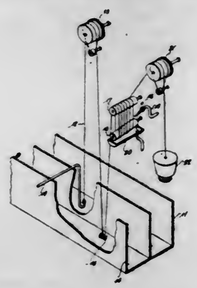
1. That improvement in methods of tempering unattached leather soles which consists in subjecting them to a series of individual stages of wetting with water each of duration too short to render their surfaces sodden, and subjecting them to alternate stages of water-vapor each of duration sufficient to disperse the water left on their surfaces by the wetting stages.

2,348,414
STORAGE RACK FOR PHOTO-TEMPLATES
Lyle L. Pierce, near Seattle, Wash., assignor to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington
Application August 17, 1942, Serial No. 455,058
7 Claims. (Cl. 211—41)



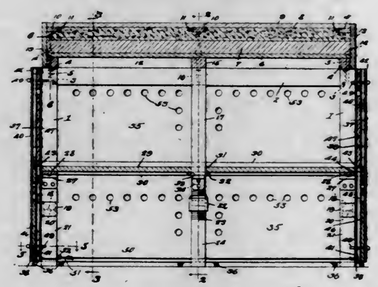
4. A rack for supporting large sheets of varying heights and of thin flexible material in upright positions, said rack comprising a base, a plate covering the top of said base, and a plurality of cleats fastened upon said plate, said cleats being spaced apart to provide therebetween upwardly opening channels open at their ends to have the lower marginal portions of sheets slid endwise into the same, said channels being longitudinally curved to hold the sheets longitudinally flexed and thereby vertically stiff and being of depths to accommodate sufficient of the lower marginal portions of the sheets to hold the sheets in upright positions with their upper portions entirely free, said plate being composed of a material more resistant to wear than the material of said base and highly resistant to abrasion and cutting by the lower edges of the sheets as the latter are slid into and from said channels.

2,348,415
MANUFACTURE OF RAYON
James J. Polak, Asheville, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application May 9, 1941, Serial No. 392,763
1 Claim. (Cl. 18—8)



An apparatus for the manufacture of rayon threads which comprises an acid spinning bath, a spinneret located therein, means for extruding a viscose solution through the spinneret into the bath to form thread that is coagulated and partially regenerated in said bath, a second bath for completing the regeneration of the thread, means for withdrawing the thread from the first bath, a pair of axially offset thread-storage, thread-advancing rollers disposed wholly without the second bath and operated at a take up speed in excess of the delivery speed of the means for withdrawing the thread from the first bath for drawing and stretching the thread through the second bath, said rollers also acting to support the thread in a series of lateral convolutions, means for directing a spray of water in contact with the thread and counter-current to the direction of travel of the said series of convolutions whereby the thread is washed acid-free and the thread containing the least acid initially contacts the water-spray and means for collecting the thread directly after the washing operation.

2,348,416
SHELTER TABLE
Frank Eugene Posey, Hamtramck, Mich.
Application May 25, 1942, Serial No. 444,447
8 Claims. (Cl. 312—163)



1. A shelter table including legs for engaging a supporting surface, a top supported thereby, and shield members removably straddling end portions of the table and slidable on said surface into position to straddle the legs.

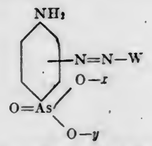
2,348,417

ARSANILIC ACID AZO SULPHONAMIDE COMPOUND

Frederick Proescher, San Jose, and Vladimir M. Sycheff, Palo Alto, Calif., assignors to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application May 21, 1941, Serial No. 394,560
3 Claims. (Cl. 260—149)

1. An azo compound of the following general formula:



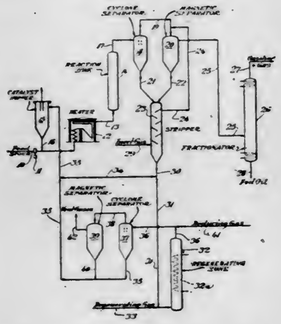
in which W is a radical of the group consisting of sulphanilamide and its N^1-substituted derivatives, the N directly linked to said radical being the N^1 nitrogen of the "sulpha" compound and x and y are selected from the group consisting of hydrogen and alkali metals.

2,348,418

CATALYTIC PROCESS

Willard G. Roesch and Frank G. Brueckmann, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application November 20, 1940, Serial No. 366,366
7 Claims. (Cl. 196—52)



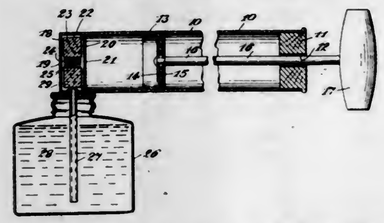
1. In the process of converting hydrocarbon oils by the action of solid refractory siliceous catalysts in finely divided form, wherein a catalyst containing a magnetic element is dispersed in the oil vapors, heated to conversion temperature to effect the desired conversion, thereby contaminating the catalyst with carbonaceous deposits, separated from the oil vapors, regenerated by treatment with oxidizing regeneration gases to remove carbonaceous deposits and thereafter separated from said regeneration gases and recycled to the conversion step while still hot, the improvement comprising separating the major part of the regenerated catalyst from the spent regeneration gases in an initial separation zone by means of the difference in density between the catalyst and the gases, and recovering additional catalyst from the regeneration gases by passing regeneration gases from said initial separation zone into a zone containing a reducing atmosphere, then through a magnetic field in which the particles of catalyst are attracted and flocculated.

2,348,419

SPRAYING DEVICE

William H. Rose, Jersey City, N. J.

Application February 28, 1941, Serial No. 381,106
5 Claims. (Cl. 299—88)



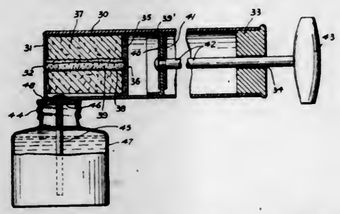
1. In a spraying device: a liquid-container compartment having an entrance opening and an exit opening, said entrance opening being adapted to be connected to a source of air pressure; a liquid absorbent member within said liquid-container compartment; and a plurality of closely adjacent parallel strand elements carried by said liquid absorbent member, the terminals of said strand elements being respectively adjacent said entrance opening and said exit opening.

2,348,420

LIQUID SPRAYING DEVICE

William H. Rose, Jersey City, N. J.

Application June 10, 1942, Serial No. 446,420
10 Claims. (Cl. 299—88)



5. A liquid spraying device comprising an exterior casing having an opening adapted for the introduction of air under pressure into said casing, and an opening adapted for the emission of air from within said casing; a loosely compacted mass of liquid-absorbent material within said casing lying along the longitudinal axis of and from end to end of said casing and in alignment with said casing openings and spaced from the side walls of said casing, and a more densely compacted mass of liquid-absorbent material surrounding said loosely compacted mass of absorbent material and in contact therewith.

2,348,421

BOOK CONSTRUCTION AND BOOKBINDING METHOD

Talbert C. Ross, Greenwood, Miss., assignor, by mesne assignments, to August W. Halling, Berkeley, Wm. S. Hogan, San Francisco, George Chenu, Sacramento, Eugene Whitten, Palo Alto, Wm. Bassett, Los Angeles, and Richard Greaves, Fresno, Calif., as trustees of the Conference of California I. B. of B. Unions, San Francisco, Calif.

Application May 29, 1942, Serial No. 445,397
11 Claims. (Cl. 281—26)

2. A method of binding a stack of sheets for a book, including the steps of: making a plurality

of cuts in the binding margin of the stack to provide a plurality of cut edges in each sheet; bending said cut edges permanently out of the planes of the corresponding sheets into the planes of neighboring sheets, thereby interlocking the sheets to achieve a degree of cohesiveness in the stack; rounding the binding side of the stack;



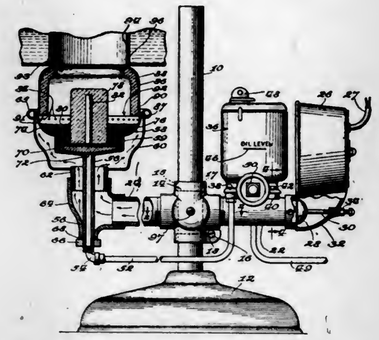
passing filamentous material through said cuts while the stack is in rounded state; and drawing said filamentous material snug and securing the filamentous material without excessive tension to unify the stack while in rounded state, thereby allowing sufficient filamentous material to avoid any excessive tendency for the filamentous material to pull the stack out of curvature.

2,348,422

LIQUID HYDROCARBON FUEL BURNING APPARATUS

Paul Schaefer, Des Plaines, Ill.

Application June 9, 1941, Serial No. 397,186
11 Claims. (Cl. 158—96)



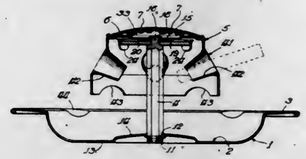
1. In a liquid fuel burner, the combination of a fuel level and flow rate adjusting device, a power operated blower secured to said device, a fuel combustion chamber formed by an inner casing and outer casing spaced from and surrounding said inner casing, a dome partially closing said inner casing, means to conduct air under pressure from said blower to the space between said outer casing and said inner casing, said inner casing having a plurality of ports directed horizontally at an angle to the radii of the inner casing which intersect the ports respectively, means to supply liquid fuel from said device to the bottom of the inner casing, a porous refractory ceramic disc located at the bottom of said inner casing and forming a means for filtering and vaporizing the liquid fuel, a bed formed of fragments of a refractory material located above said disc and forming a means for partially insulating said disc from the heat of combustion above said bed, a refractory core located within said bed and extending above the upper surface thereof, a heat conducting cup surrounding the lower portion of said core and resting upon said disc, and a central stem within said core and forming a heat conducting path from the top portion thereof to said cup, whereby the heat of combustion will be transmitted through said core, stem and cup to said disc to insure vaporization of the liquid fuel therein.

2,348,423

ASH TRAY AND PLATE SECURING MEANS THEREFOR

John F. Schylander, Chicago, Ill.

Application January 5, 1940, Serial No. 312,519
9 Claims. (Cl. 40—142)



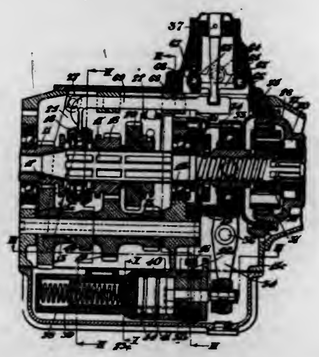
1. An article of the class described comprising a base, a vertically disposed spindle mounted thereon, a supporting member having apertures formed therein mounted on said spindle, a cover plate mounted on said supporting member and having tongues extending through said apertures, and resilient means mounted on said spindle and operatively related to the tongues of said plate and to said supporting member for securing the plate to said member.

2,348,424

CHANGE-SPEED MECHANISM

Leo Joseph Shorter, Coventry, England, assignor to Singer Motors Limited, Coventry, England

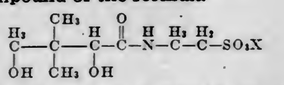
Application February 12, 1941, Serial No. 378,641
In Great Britain March 15, 1940
5 Claims. (Cl. 74—328)



1. A change-speed gear-box incorporating an auxiliary hydraulically-operable, change-speed mechanism adapted to give an overdrive, said auxiliary change-speed mechanism having a control element movable to the overdrive position by the hydraulic mechanism and movable to the direct-drive position, on the release of the hydraulic pressure, by spring bias, and said control element being additionally held in the direct-drive position by the hydraulic mechanism when a high-torque speed of the gear-box is engaged, characterized hereby, that the admission of pressure to the hydraulic mechanism is effected by means of a double-acting wedge-shaped block, said block being movable by the gear-shift lever of the gear-box and being adapted to coact in its extreme positions with slidable rods through which the appropriate valves of the hydraulic mechanism can be actuated.

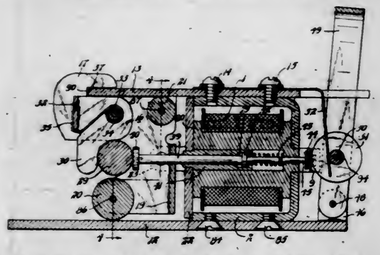
2,348,425
ANTIVITAMIN
Esmond E. Snell, Austin, Tex., assignor to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1943, Serial No. 484,291
13 Claims. (Cl. 260—513)

7. A compound of the formula



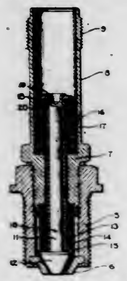
in which X stands for a member of the group consisting of hydrogen and the alkali and alkaline earth metals.

2,348,426
LATCH MECHANISM
Hubert T. Sparrow, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 2, 1942, Serial No. 460,493
23 Claims. (Cl. 292—304)



1. A device of the character described, comprising, in combination, a latch means, an electromagnet for holding the latch means in locked position, control means mounted within the latch means for controlling the energization of the electromagnet and a latch bar for simultaneously actuating the latch means and the control means in such a manner as to cause the energization of the electromagnet for holding the latch means in locked position.

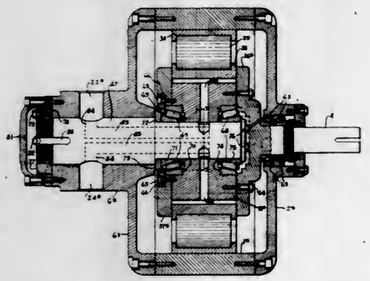
2,348,427
SPARK PLUG AND METHOD OF MAKING THE SAME
Tullio Tognola, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 9, 1940, Serial No. 344,507
16 Claims. (Cl. 123—169)



1. In a spark plug, a tubular shell, a ground electrode mounted on said shell, and a center electrode assembly supported by said shell for cooperation with said ground electrode comprising a tubular body member, a center electrode disposed in said body member and means surrounding said center electrode for insulating the latter from said member, said insulating means including a polymer derived from cashew nut shell oil which is solid and yet pliable when set.

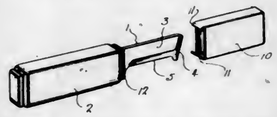
11. The method of making a spark plug comprising the steps of making a tubular body member, introducing into the bore of said member an insulating sleeve surrounding a metallic tube, placing loose stacks of insulating washers around the projecting ends of said sleeve, withdrawing substantially all air from around the foregoing assembled parts, causing the spaces between said parts to be filled under vacuum with an insulating material in liquid form, inserting a center electrode in said tube, compressing said stacks of washers and securing the same in place in said body to form a unit structure, and heating said structure until said insulating material sets.

2,348,428
VARIABLE DELIVERY VANE PUMP
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application December 22, 1939, Serial No. 310,507
5 Claims. (Cl. 103—121)



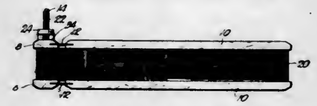
2. A vane pump comprising a housing having an internal chamber open at both ends, a shift ring supported within said housing for movement transversely with respect to the axis of said housing and forming the outer race of an anti-friction bearing, a cylinder ring positioned within said shift ring and forming the inner race of the anti-friction bearing, a rotor positioned within said cylinder ring normally eccentrically with respect thereto, a plurality of vanes extending from said rotor into engagement with said cylinder ring to form a plurality of compression chambers, bearing means positioned within opposite sides of said rotor, each of said bearing means comprising an inner race, an outer race and a plurality of rotary bearing elements therebetween, end plates secured to opposite sides of said rotor engaging the outer races of said bearing means and said cylinder ring, an end wall for said housing, a rotor supporting shaft supported in said end wall normally eccentrically with respect to said cylinder ring, said shaft extending through said bearing means in said rotor to support said rotor, an end wall for the end of said housing which is opposite said shaft having bearing means therein, a shaft extending from the rotor end plate adjacent said end wall and being supported in said last-named bearing means, port means extending through said rotor in communication with said chambers, port means extending longitudinally through said support shaft and communicating with said rotor port means, and port means in the end wall supporting said support shaft communicating with said port means in said shaft for providing an inlet and an outlet to said chambers.

2,348,429
KNIFE
Ralph E. Walker, Silverdale, Wash.
Application July 9, 1942, Serial No. 450,279½
1 Claim. (Cl. 30—151)



An insulation cutting and skinning knife of the character described comprising a blade body equipped with a handle at its inner end and having a sharpened longitudinal edge portion extending from the handle to its outer end, and having a straight sharpened edge across the end of the blade body inclined at an obtuse angle relative to the sharpened longitudinal edge, and there being an extension from the blade at the junction of the two sharpened edges; said extension having a rounded sharpened edge which merges directly with the sharpened edge at the end of the blade and merges into the sharpened longitudinal edge in a sharpened concave seat adapted to receive a cable thereagainst to facilitate the circumferential cutting of the insulation thereon.

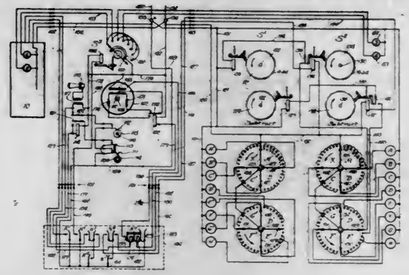
2,348,430
POST BINDER
Courtney C. Wall, Ozark Beach, Mo., assignor to Helen Holman Wall, Ozark Beach, Mo.
Application September 10, 1942, Serial No. 457,823
6 Claims. (Cl. 129—12)



2. In a binder of the character described, a pair of posts; a follower block provided with post receiving openings; a locking bar having perforations therein to receive the posts respectively; and interlocking means formed on the posts and locking bar to hold the latter in engagement with the former, said interlocking means being rendered inoperative when the posts are flexed toward each other.

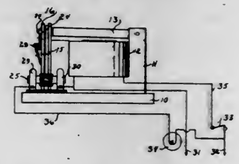
2,348,431
SCOREBOARD
Bernard A. Warmey and William J. Moreland, Jr., Chicago, Ill., assignors, by mesne assignments, to George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application June 13, 1940, Serial No. 340,378
12 Claims. (Cl. 177—384)

1. In a scoring device, a set of tubular lamps for displaying any tens digit, a set of tubular lamps for displaying any units digit, a step-by-step switch for controlling the tens digit lamps, a step-by-step switch for controlling the units digit lamps, means for stepping the units switch



in either direction, and means controlled by said units switch for automatically stepping the tens switch in either direction.

2,348,432
REMOTE CONTROL RELAY
Walter F. Woodin, Rolfe, Iowa
Application March 23, 1942, Serial No. 435,882
5 Claims. (Cl. 200—87)

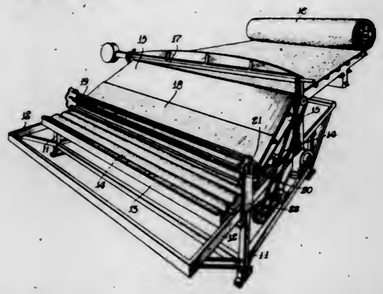


1. In a remote control relay device, a base member, an electro-magnet mounted on said base member, a bar element pivotally mounted on said base member and capable of being actuated by said electro-magnet, two spaced apart plate members adjacent the end of said bar element, a pin on the end of said bar element, a contact arm mounted on said pin and actuated thereby, a contact plate on said contact arm, a lug element on said arm, a ratchet element rotatably mounted on said plates and having alternate deep and shallow teeth thereon capable of being contacted by said lug on said arm, a ratchet pawl for preventing counter rotation of said ratchet, a yielding means of holding said arm in its raised position, and contact fingers mounted on said base member adjacent said contact plate and capable of being contacted by said contact plate when said lug on said arm is engaging the shallow teeth on said ratchet.

2,348,433
CORRUGATED FIBROCEMENT SLAB
Giovanni Guerci, Turin, Italy; vested in the Alien Property Custodian
Application February 21, 1940, Serial No. 320,200
In Luxemburg February 22, 1939
2 Claims. (Cl. 154—30)

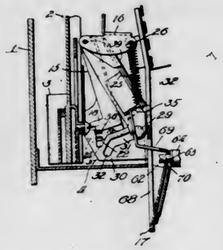
1. A machine for manufacturing corrugated fibro-cement slabs comprising a frame, means on said frame for supporting a sheet of fibro-cement in a plastic state wound in roll form, a corrugated mould movable on said frame, an endless conveyor for unrolling the sheet from the roll and gradually placing it on said movable mould, a knife on the conveyor for cutting the sheet into portions of the desired length as it moves down

towards the mould, a squirrel cage mounted for rotation and vertical displacement at the outlet end of said conveyor and meshing by virtue of its own weight with the corrugations of the



mould so as to cause the sheet to conform by the action of the rods of said squirrel cage to the corrugations of the mould without undergoing objectionable tension stresses.

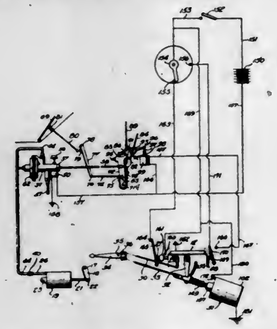
2,348,434
COIN-CONTROLLED SELECTOR
Earle G. Henry, Wilmette, Ill., assignor to Buckley Music System, Inc., a corporation of Illinois
Application February 16, 1942, Serial No. 431,087
16 Claims. (Cl. 194—92)



14. The combination with a coin-controlled apparatus including a rotatable selective device and an ejector for coins received in the apparatus, of means to operate said ejector including a member extending through and coaxial with the selective device and having ejecting movements relatively to that device, and an interlock between said member and the selective device to lock the latter against movements during ejecting movements of said member.

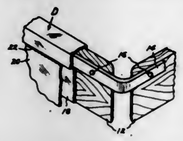
2,348,435
COMBINED CLUTCH CONTROL AND GEAR SHIFTING MECHANISM
Henry W. Hey, Richmond, Va., and Jeannot G. Ingres, Detroit, Mich., assignors to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application June 11, 1941, Serial No. 397,620
32 Claims. (Cl. 192—.01)

9. In combination with a motor vehicle power plant having a clutch and a transmission; a fluid pressure operated power device connected to the clutch, a control valve mechanism for said power device, means operable under predetermined conditions for operating said valve mechanism to connect said power device to a source of pressure differential to disengage the clutch, a gear shifting mechanism comprising a fluid pressure operated motor, and auxiliary means operable under a different predetermined condition and upon initial establishment of differential pres-



sure in one end of said motor to an extent insufficient to effect operation thereof for connecting said power device to said source for disengaging the clutch.

2,348,436
SUITCASE
Meyer Medoff, Lambertville, N. J.
Application December 29, 1942, Serial No. 470,431
1 Claim. (Cl. 190—48)

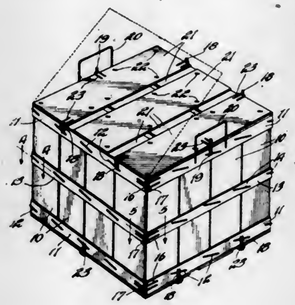


In a suitcase of generally rectangular shape having a top side and a bottom side pivotably attached so that their rims are engageable, a flexible outer covering on each side, a stiffener assembly in each rim, and a rim covering on each rim adhesively attached thereto, said stiffener assembly comprising a primary wood stiffener of rectangular transverse shape continuous along the straight portions of the rim and interrupted short of the rim corners, an auxiliary flat strip fiber stiffener attached to said primary stiffener but continuing around said corners, and a supplementary corner stiffener of curved fiber in each corner, the auxiliary stiffener for the bottom side rim being flush with the outer edge of its associated primary stiffener and the auxiliary stiffener for the top side rim extending beyond the outer edge of its associated primary stiffener, whereby in engaged position the contacting surfaces of the two rims have an L-shaped transverse sectional shape, and said outer coverings being sewed to and positioned flatwise on the covered primary stiffeners and abutting the covered auxiliary stiffeners.

2,348,437
CONTAINER
Ralph E. Moyer, New Buffalo, Mich., assignor to Kidd, Dater & Price Grocery Co., Benton Harbor, Mich., a corporation of Michigan
Application August 12, 1940, Serial No. 352,179
1 Claim. (Cl. 217—12)

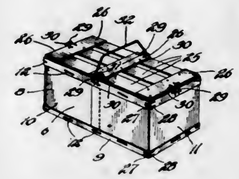
A container for fruit, and the like, having four rectangular sides assembled flatly together in

line, each side comprising upper and lower rims with transverse slats attached to the rims at top and bottom, the sides being connected by staples overlapping the joint, the outer ends having staples with projecting interengaging loops for connecting the sides, the ends of each side having staples with loops extending therefrom to form upper and lower projections, a similar cover for each end fitting against and overlapping the ends



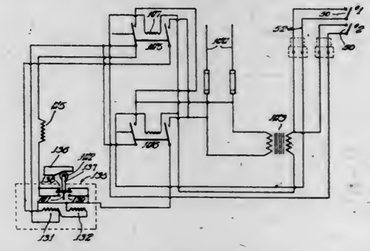
of the sides so that either end can be used as the top or bottom, each cover comprising cross slats secured together with staples having loops extending at the edges and positioned to engage bendably with the corresponding loops from the sides, the sides and ends having openings between the slats, either cover being removable, and the engaged staples at either side of a cover forming a hinge therefor when the staple connection with the other three sides is disengaged.

2,348,438
CONTAINER
Ralph E. Moyer, New Buffalo, Mich., assignor to Kidd, Dater & Price Grocery Co., Benton Harbor, Mich., a corporation of Michigan
Application August 12, 1940, Serial No. 352,180
1 Claim. (Cl. 217—12)



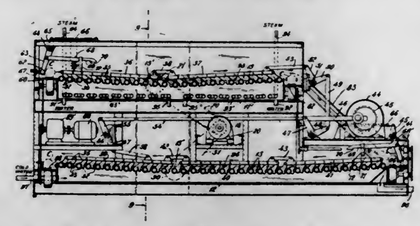
A container structure having rectangular closely connected sides and ends open at the top and bottom, said sides having opposite side strips at the bottom, a cover for the structure, means for attaching the cover to the sides and ends, a removable rectangular bottom comprising connecting cross slats with those at the ends extending beyond those between the ends, the opposite side strips at the bottom having grooves open at one side at each end for receiving the ends of the said end cross slats and preventing the bottom from moving inwardly within the container and movable locking slats extending below the bottom and engageable at the ends with the grooves for holding the bottom in place.

2,348,439
PRESS AND THE LIKE
Victor W. Peterson and Otto J. Maha, Chicago, Ill., assignors to Hannifin Manufacturing Co., Chicago, Ill., a corporation of Illinois
Original application October 22, 1937, Serial No. 170,407, now Patent No. 2,308,712, dated January 19, 1943. Divided and this application January 26, 1942, Serial No. 428,252
4 Claims. (Cl. 60—97)



1. In apparatus of the character described, the combination of a plurality of fluid operated presses adapted to be selectively separately operated, a single power unit for supplying fluid pressure to each of said presses, fluid lines leading from said power unit to each of said presses, control mechanism for selectively connecting said power unit with a single selected press and for disconnecting said power unit from all other presses, a plurality of control devices one associated with each of said presses for actuating the control mechanism to connect the power unit with the press whose control device is operated and to disconnect said power unit from all other presses as aforesaid.

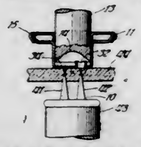
2,348,440
APPARATUS FOR TREATING CANNED MATERIAL
Horace L. Smith, Jr., and Weld E. Conley, Jr., Richmond, Va., assignors, by mesne assignments, to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 27, 1941, Serial No. 380,890
12 Claims. (Cl. 99—361)



1. Apparatus for treating products in closed containers of circular cross-section, comprising a series of rotary horizontally disposed drums having stationary axes and arranged in parallel spaced relation so as to support the containers in the valleys between them, said drums being of such length that a column of containers may be supported in each of said valleys, means for rotating said drums in the same direction, a conveyor for conducting a column of containers longitudinally of such column and longitudinally of the drums toward a postion in front of the series of drums, a pair of pivoted clamping members adapted when actuated to engage one of

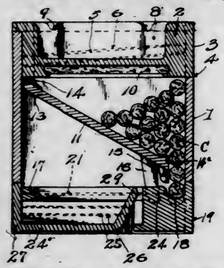
the containers on the conveyor to arrest the movement of that container and those to the rear of it while permitting the containers that have passed said arresting means to reach said position in front of the series of drums, electrically operated means for moving said members simultaneously, means operating after such containers reach said position to feed all of them simultaneously and laterally onto said drums, transfer mechanism for advancing the columns of containers from valley to valley along the series of drums, and means for effecting a temperature change in the container contents during the advance of the containers along the drums.

2,348,441
MANUFACTURE AND ATTACHMENT OF BUTTONS
William L. Walker, Detroit, Mich., assignor to Universal Button Fastening and Button Company, Detroit, Mich., a corporation of Michigan
Application May 19, 1942, Serial No. 443,667
10 Claims. (Cl. 79—1)



1. The method of orienting buttons and attaching them by a double pronged fastener which comprises providing a button with a single eccentric opening in the button collet in predetermined relation to a surface of the button, then by means of said opening orienting the button with respect to the double prongs of a fastener, then causing the prongs of the fastener to enter the button, one passing through said opening and the other piercing the collet, and then upsetting the prongs inside the collet.

2,348,442
CIGARETTE AND MATCH DISPENSER
William H. Banck, Washington, D. C.
Application December 8, 1941, Serial No. 422,155
1 Claim. (Cl. 312—80)

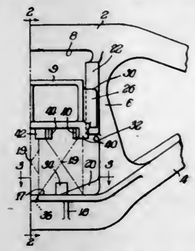


In a cigarette dispenser including a box having a front wall opening, the combination with a slide carrier reciprocable through said opening and having a dispensing trough, of a pivotally suspended inclined partition forming the bottom of an interior feed hopper above the slide carrier, said carrier having spaced longitudinally extending slide faces, a pair of sockets and cam faces below the plane of the slide faces, a pair of spaced cams depending from the partition for co-action with said sockets and faces, a pair of spaced guide lugs also depending from the partition and spaced from the front wall, and a ledge extending across the lower edge of the partition and forming an upper wall of the feed-chute.

2,348,443
PROCESS FOR CONCENTRATING CAROTENE
Harold M. Barnett, Long Beach, Calif.
No Drawing. Application June 7, 1943, Serial No. 489,989
4 Claims. (Cl. 260—666)

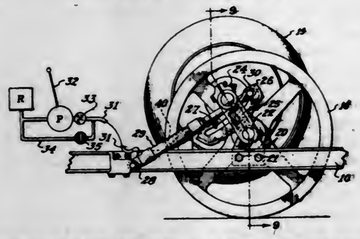
1. The process of making a carotene concentrate comprising pulping a carotene-containing vegetable material, elutriating with a minimum amount of water to separate the carotene particles from the fibrous material, coagulating the carotene particles, and separating the coagulum from the excess water.

2,348,444
CAR TRUCK
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 6, 1941, Serial No. 421,908
11 Claims. (Cl. 105—197.2)



5. In a railway car truck, a side frame comprising tension and compression members and spaced columns defining a bolster opening, said opening having a relatively wide lower portion and a relatively narrow upper portion defined by bolster guide faces on said columns, a bolster projecting into said opening, springs on said tension member supporting said bolster, and spring positioning means fixed on said tension member and said bolster, said spring positioning means being arranged in rows transversely of said truck to accommodate the interlacing thereof when said bolster is assembled or dismantled at the bottom of said bolster opening whereby spring positioning means of maximum length may be utilized on said bolster and said side frame in a bolster opening of normal depth.

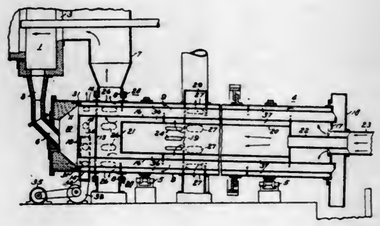
2,348,445
ROAD ROLLER
August H. Bayer, North College Hill, Ohio, assignor to Littleford Brothers, Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application January 19, 1942, Serial No. 427,335
5 Claims. (Cl. 94—50)



1. In a device having a frame and means for supporting said frame upon the ground, a link

pivoted to said frame at one end, a running wheel freely revolvable upon said link at the other end, a cross-guide integral with said link, a hydraulic cylinder pivoted to said frame, said cylinder having a piston, the end of which is engaged in said cross-guide, means for positioning said piston rod at one end or the other of said cross-guide when the running wheel is resting on the ground and the frame is also resting on the ground, means for supplying fluid under pressure to said cylinder and means for relieving the pressure on said cylinder, said cross-guide being disposed substantially transversely of said link so that when said piston is disposed at one end of said cross-guide and fluid under pressure is supplied to the cylinder, the running wheel will be raised from the ground and whereby when said piston rod is disposed at the other end of said cross-guide and fluid under pressure is supplied to said cylinder, said frame is raised off the ground.

2,348,446
ROTARY COOLER
George D. Becker, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 9, 1943, Serial No. 497,916
12 Claims. (Cl. 263—44)

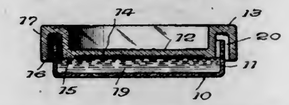


1. A cooler for indirect cooling of hot materials comprising a substantially horizontal elongated rotary drum, a feed header plate closing said drum adjacent one end, a discharge header plate closing said drum adjacent the other end, a plurality of spaced imperforate material conveying and cooling tubes extending between and connecting said header plates, a division plate in said drum adjacent said feed header plate and transversely enclosing a shallow space adjacent said feed header plate and surrounding the walls of said tubes adjacent their feed ends, means effecting flow of a stream of cooling air in the interior of said drum between said discharge header plate and said division plate, and means effecting flow of a separate stream of cooling air through said shallow enclosed space adjacent said feed header plate, said streams of cooling air being in non-mixing relation and free of contact with heated material in said cooler.

2,348,447
ADHESIVE AND COATING MATERIAL
Eugen Bock, Krefeld-Uerdingen, Germany; vested in the Alien Property Custodian
No Drawing. Application February 11, 1941, Serial No. 378,411. In Germany February 2, 1940
1 Claim. (Cl. 260—32)

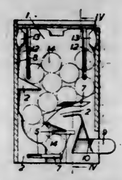
As a new composition of matter a solution of 20 parts of highly polymeric vinyl isobutyl ether in 40 parts of benzine and 40 parts of acetone.

2,348,448
APPARATUS FOR THE CULTIVATION OF ANAEROBIC AND MICROAEROPHILIC ORGANISMS
John H. Brewer, Towson, Md., assignor to Kimble Glass Company, Vineland, N. J., a corporation of Illinois
Application February 16, 1942, Serial No. 431,179
6 Claims. (Cl. 195—139)



4. In combination with a Petri dish adapted to contain a gel-like culture supporting medium, a cover for the dish comprising a substantially flat transparent plate having a relatively shallow recess in one face thereof, said face having a smooth flat rim portion juxtaposed to and surrounding said recess, said rim portion being adapted to rest on the contained gel-like medium to form an air-tight seal therewith, and an inverted U-shaped flange on said plate, said flange bridging the side wall of said dish.

2,348,449
CONTAINER DELIVERING ARTICLES SINGLY
Alfred John George Chandler, London, England
Application January 16, 1942, Serial No. 427,027
In Great Britain March 28, 1941
4 Claims. (Cl. 312—89)

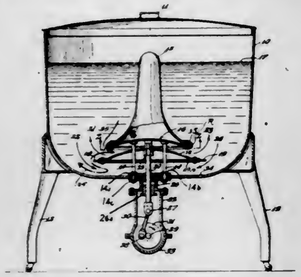


3. A container for delivering tablets, pellets, capsules and like articles, having in combination a main plate upon one side of which are formed projections which define, in part, a passage-way for the articles, a reciprocatable member having projections thereon which control the progress of the articles and whereof one is a checking member, a return spring, said passage-way being so angularly related to the path of the checking member and of such size relatively to that of the articles as to present the article next above the lowermost more or less frontally to the path of the checking member, the said main plate being also formed with slots for the accommodation of the projections on said reciprocatable member, bearing surfaces for said reciprocatable member, and a return-spring housing; and the said projections upon the reciprocatable member operating through the said slots in the said main plate, and a sleeve-like member which covers the aforementioned passage-way, slots, bearing surfaces and housing.

2,348,450
WASHING MACHINE APPARATUS
Franklin V. Chaney, New York, N. Y., assignor to R. Ann Chaney, Savannah, Ga.
Application June 26, 1941, Serial No. 399,768
7 Claims. (Cl. 68—184)

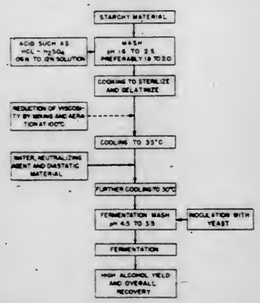
1. A washing machine comprising a tub which has a closed bottom wall, an immovably fixed

fluid-directing deflector located in said tub above said bottom wall, an agitator mounted for up-and-down movement between said deflector and said bottom wall, said agitator having a rigid central portion and a resilient fin which projects laterally outwardly from said central portion and which extends laterally outwardly beyond the edge of said deflector, said fin having a shape



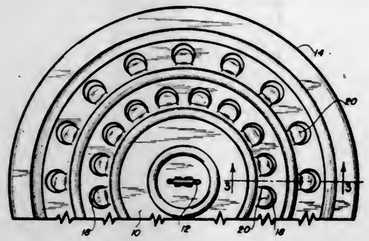
which is sufficiently flat to cause said fin to flex in respective opposite curvatures and substantially equally during the successive up-and-down movements of said agitator, and being so arranged relative to the tub and deflector that substantially equal and laterally opposite pulses are imparted to the liquid in said tub in the zone between the agitator and the deflector and in the zone between the agitator and said bottom wall.

2,348,451
METHOD OF PRODUCING ALCOHOL
Leo M. Christensen, Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y., a corporation of Delaware
Application March 27, 1941, Serial No. 385,548
6 Claims. (Cl. 195—15)



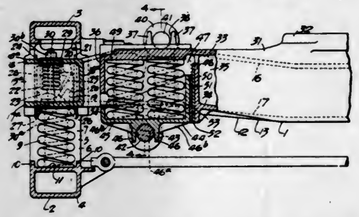
. 6. A method of producing alcohol from starch and its congeners comprising cooking an acidified starchy material, having a pH of from 1.6 to 2.5, said hydrogen ion concentration being obtained by adding an acid selected from the group consisting of lactic, hydrochloric and sulphuric acid, the temperature and length of said cooking step and the hydrogen ion concentration favoring the production of dextrins rather than sugar, to produce a mash containing a low concentration of sugar, reducing the viscosity of the sterilized mash by aeration, adding an alkaline compound to reduce the acidity to a pH between 4.5 and 5.5, inoculating with a diastatic material to maintain the production of sugar and then inoculating with yeast to convert the sugar into alcohol.

2,348,452
UTENSIL LID
George P. Christopher, Seattle, Wash., assignor to Lillian S. Christopher, Seattle, Wash.
Application March 31, 1942, Serial No. 436,927
5 Claims. (Cl. 99—347)



1. A utensil lid, comprising: a perforate plate adapted to rest upon the edge of a utensil to be closed, tongues on said plate each disposed slightly below a perforation and terminating in spaced relation with the perforation edge to define a venting slit, and depending means on said plate shielding said slits throughout the length of each.

2,348,453
RAILWAY TRUCK
Glenn F. Couch, Rochester, N. Y., assignor to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland
Application April 21, 1941, Serial No. 389,669
15 Claims. (Cl. 105—190)

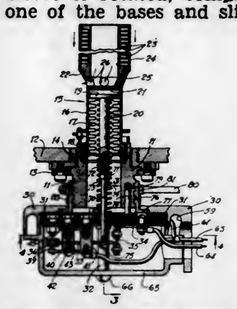


1. In a railway truck of the type having a side frame provided with spaced channel-shaped guide columns facing one another and connected adjacent their lower extremities by a tension member, the combination of a transom having an end portion positioned between said guide columns, a group of coil springs supported by said tension member and in turn supporting said transom end, friction means positioned in and constantly contacting said guide columns and adapted to prevent a horizontal angular movement of said transom relative to said side frame, hanger means including friction means carried by said transom inwardly of said side frame, a group of coil springs carried by said hanger means, and a bolster having an end supported by said last named group of coil springs and engaging said friction means.

2,348,454
CONTROL DEVICE
Lewis L. Cunningham, Los Angeles, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application June 30, 1942, Serial No. 449,074
1 Claim. (Cl. 200—140)

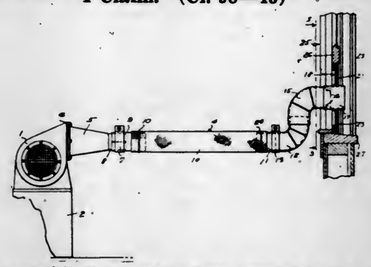
In a control device: a relatively fixed base; a sub-base; a threaded sleeve interconnecting

said bases and rotatable to vary the relative position of the bases along the axis of the sleeve; said sleeve being internally threaded at one end to cooperate with an externally-threaded portion of said fixed base and having at its other end an outwardly-extending lateral flange, providing a surface of relatively large area, rotatable in a recess in said sub-base; means for preventing relative angular movement of the bases when said sleeve is rotated, comprising a pin secured to one of the bases and slidable in an



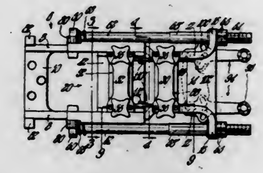
opening in the other of the bases, the axis of said pin being parallel to the axis of relative movement of the bases; said bases being free from engagement with each other so that said flange and said pin serve as the sole support for said sub-base; means movable substantially along the axis of said sleeve in response to change in a condition and so mounted on said fixed base that a movable portion thereof extends within the sleeve toward said sub-base; and means mounted on the sub-base for controlling said condition and operatively engageable by said portion.

2,348,455
PORTABLE COLLAPSIBLE FUME EXTRACTOR
Arthur T. Daudelin, Yakima, Wash.
Application September 26, 1941, Serial No. 412,497
1 Claim. (Cl. 98—43)



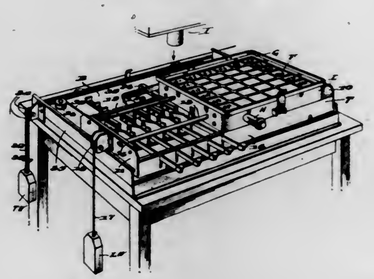
A portable fume extractor comprising a portable exhaust fan having a casing provided with a tapered reducer extending outwardly from its outlet, a panel adapted to be mounted in a window opening and having a main section and an auxiliary section, a pipe section extending through the main section of said panel, a flexible conduit, a coupling extending from the inner end of said conduit, a clamp detachably securing said coupling to the outer end of said reducer, a nipple extending from the outer end of said flexible conduit, a pair of rotatably connected elbows, the outer one of said elbows being secured to the inner end of the pipe section, and a clamp secured about the inner elbow for detachably securing the same about the nipple at the outer end of said conduit.

2,348,456
FEEDING MECHANISM
Hubert E. Dickerman, Springfield, Mass.
Application December 8, 1942, Serial No. 468,205
5 Claims. (Cl. 271—2.5)



1. The combination with relatively reciprocable members movable towards and away from one another of feed mechanism comprising, a support adapted to be secured to one of said members, a carriage guided for straight line movements back and forth thereon, a cam on one of said members engageable with said carriage to move the same in one direction on the support as the members move relative to one another in one direction, pairs of rolls on said carriage and on said support for receiving therebetween a strip of material, yielding means to hold the rolls of the pairs in relatively yieldable engagement, means for permitting free rotation of the rolls in certain directions and holding them against rotation in other directions, means to move the said carriage in an opposite direction as the carriage is disengaged by said cam, and roll separating means operating to overcome the yielding means and separate the rolls of one pair when the pairs of rolls are in a certain predetermined position.

2,348,457
PHOTOGRAPHIC PRINTING APPARATUS
William F. Drehs, Reading, Pa.
Application April 18, 1941, Serial No. 389,251
12 Claims. (Cl. 88—24)

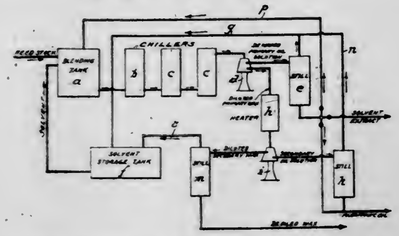


1. Photoprinting apparatus for producing prints from photonegatives successively in row arrangement comprising a supporting frame member for photoprinting sheet material movable in a path past a printing station, a cover member overlying and movable with the frame member having a row of windows for exposing successive areas of the photoprinting material, and means for advancing the frame member along its path step by step to bring successive windows of the row to printing position at the printing station.

2,348,458
METHOD OF PREVENTING LANDSLIDES
Victor A. Endersby, Lafayette, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 28, 1943, Serial No. 484,945
13 Claims. (Cl. 61—36)

1. A method of preventing landslides due to water absorption by underground bentonitic strata comprising the step of injecting into said strata a low viscosity mineral oil containing a small amount of an oleophilic surface cation active wetting agent.

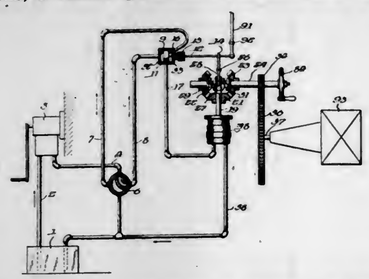
2,348,459
PROCESS FOR PRODUCING OILS WITH LOW POUR POINTS
Bruno Engel, Appelviken, Sweden, assignor to Aktiebolaget Separator-Nobel, Stockholm, Sweden, a corporation of Sweden
Application December 31, 1938, Serial No. 248,874
In Germany January 4, 1938
8 Claims. (Cl. 196—18)



1. The process of treating wax-bearing hydrocarbon oils to obtain therefrom oils having low pour points and good viscosity-temperature characteristics, which comprises adding to the oil a solvent selective non-paraffinic hydrocarbon and cooling to a temperature adapted to precipitate solid wax and fluid paraffinic hydrocarbons and centrifugally separating the same with a major proportion of the solvent from the oil and a minor proportion of the solvent to thereby produce a solution of a non-paraffinic low pour-point, low cloud-point-reducing extract and a minor proportion of the solvent, and subsequently substantially raising the temperature of the mixture of solid wax paraffinic hydrocarbons and solvent to form a mixture of solid crystalline wax and a solution of solvent and paraffinic oil and at that temperature separating the last named solution, containing the major part of the solvent of said mixture, from the said solid crystalline wax and such minor part of the solvent as is carried off with the wax.

2,348,460
COMBINED HAND AND HYDRAULIC VALVE OPERATOR
Richard Fennema, Edmond P. De Craene, and Carl A. Dopp, Chicago, and Frederick B. Venton, Elmhurst, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 19, 1941, Serial No. 407,472
11 Claims. (Cl. 74—472)

1. A fluid motor system of the character described, the combination comprising a source of fluid under pressure, conduit means for the conveyance of fluid, a valve selectively directing flow of fluid through said conduit means, a cylinder in communication with the said conduit means and having a reversing piston, a fluid motor mounted on the said conduit means and operated by fluid flowing through the said cylinder, gears operatively connected to the said motor, a shaft rotatable in opposite directions in indirect response to fluid flow within the said conduit means, a clutch positioned intermediate to the

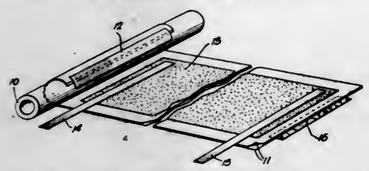


said shaft and said motor, a portion of the said clutch being movable by the said piston for selectively engaging the said gears, the said gears including a pair of beveled gears and a beveled pinion gear, the latter member being driven by the said motor and driving the pair of beveled gears, the said shaft being operatively connected with the gears selectively.

2,348,461
ART OF LUBRICATION
Willard L. Finley, Edgewood Arsenal, Md., and James H. Kirk, Hammond, Ind., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 19, 1941, Serial No. 407,440
4 Claims. (Cl. 252—48)

1. A liquid lubricating oil composition comprising a petroleum lubricating oil and a minor proportion of a mixed calcium salt of an alkyl phenol sulfide of which the alkyl groups contain from four to six carbon atoms and an alkyl ester of salicyclic acid of which the alkyl groups contain from six to eighteen carbon atoms.

2,348,462
ELECTRICAL RESISTANCE DEVICE
Charles A. Framburg, Jr., Forest Park, and Elbert W. Larson, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 16, 1942, Serial No. 451,154
16 Claims. (Cl. 201—75)

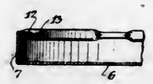


1. An electrical resistance device comprising a continuous web of material impregnated with a conducting material to form a resistance element, a continuous web of insulating material wider and longer than the resistance element to enclose the edges and ends of the resistance element, and terminals engaging the resistance element and extending beyond the edges of the insulating material.

2,348,463
PRODUCTION OF COLOR PHOTOGRAPHIC IMAGES
Alfred Fröhlich and Wilhelm Schneider, Dessau, and Walter Zeh, Wolfen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 17, 1942, Serial No. 431,273. In Germany October 19, 1940
9 Claims. (Cl. 95—6)

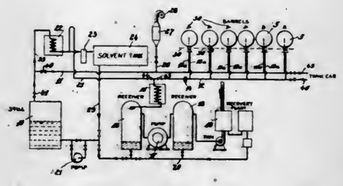
5. In a process of producing color photographic images by color forming development, the improvement which comprises developing an exposed silver halide emulsion with an aromatic primary amino developer in the presence of a soluble salt of a 1-phenyl pyrazolone carrying in the phenyl radical in the o-position to the linkage of the phenyl ring to the pyrazolone ring, a substituent selected from the class consisting of alkyl, alkoxy and aroxy groups.

2,348,464
METHOD AND MACHINE FOR MAKING CLOSURES
Kenneth Bernard Geertsema, Springfield Gardens, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application July 6, 1940, Serial No. 344,222
13 Claims. (Cl. 153—2)



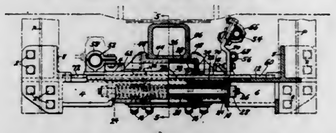
1. In a device for making lug closures, the combination of a support for a closure blank, an inner sleeve adapted to be telescoped into the blank to provide an inner radial support therefor and to prevent the portions intermediate the lugs from being distorted inwardly by the formation of the lugs, an outer sleeve operatively secured to and slidable with respect to the inner sleeve and adapted to extend about the flange of the blank to support it exteriorly, means for withdrawing the sleeves from the closure consecutively, an expandible member adapted to fit under a portion of the blank, and a lug forming member adapted to strike inwardly a part of the blank against said expandible member.

2,348,465
PROCESS OF TREATING ARTICLES FOR REMOVING GREASE AND OILS
Paul L. Geiringer, New York, N. Y.
Application December 11, 1940, Serial No. 369,687
In Great Britain February 5, 1940
12 Claims. (Cl. 141—6)



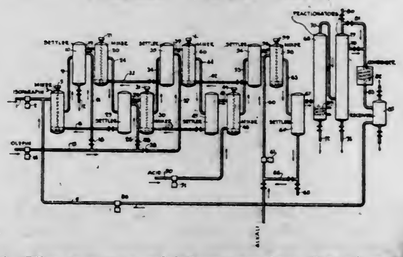
1. A process for the cleaning of articles with hard surfaces to remove grease and oil from said surfaces, comprising the steps of diminishing the pressure in a closed space adjacent a surface to be cleaned, at the beginning of the operation; admitting into said closed space the vapor of a solvent and condensing said solvent vapor on said surface, said vapor being admitted under pressure to increase the speed of condensation; cooling said surface to further increase the speed of the process; drawing off the condensed solvent and continuing the operation until nearly clean solvent drains off; then shutting off the influx of vapor and extracting the last remainders of condensed solvent by diminishing the pressure to produce a high degree of vacuum and evaporating said remaining solvent and sucking off the vapor created by such final flashing-out, and applying heat to increase the speed of the evaporation and the sucking off.

2,348,466
COUPLER CENTERING AND PIPE CONTROL DEVICE
James P. Golden and Glennon A. Meyer, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application March 10, 1942, Serial No. 434,036
7 Claims. (Cl. 213—21)



1. In a coupler centering and pipe control device for railway cars, a transversely movable coupler, a coupler carrier secured to the car and extending transversely thereof, a coupler saddle slidably mounted on said carrier for movement therealong and supporting said coupler, a slide located on each side of the coupler and each supporting a pipe and resting upon said carrier for sliding movement along the carrier relative to each other and to the coupler saddle, yielding means normally holding said coupler and coupler saddle in a central position, and means carried by said slides and engageable with said saddle to move one of the slides after a predetermined transverse movement of said saddle from the normal central position.

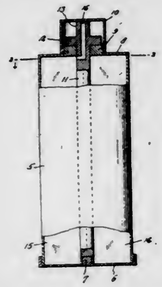
2,348,467
ALKYLATION OF HYDROCARBONS
Arthur R. Goldsby and Ernest F. Pevere, Beacon, Louis A. Clarke, Fishkill, and George B. Hatch, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 10, 1941, Serial No. 392,874
4 Claims. (Cl. 260—683.4)



1. The process which comprises forming a solution of olefin in sulfuric acid, subjecting said

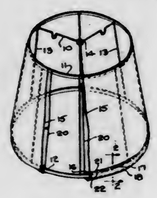
solution to contact with substantially olefin-free low-boiling isoparaffin to strip absorbed olefin product from the acid, and passing the resulting mixture of low-boiling isoparaffin and stripped olefin product to a reaction zone containing an alkylation catalyst maintained under alkylating conditions such that the isoparaffin is alkylated by the olefin product with the formation of saturated hydrocrabons boiling within the gasoline range.

2,348,468
DISPENSER
Hyman B. Grace, London, Ontario, Canada
Application January 16, 1943, Serial No. 472,627
1 Claim. (Cl. 222—320)



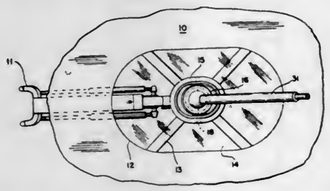
A dispensing container comprising a rigid tube having a reduced discharge neck at one end, a rotatable shaft extending into said tube through said neck and having an outer end projecting out of the neck, a radial partition in said tube extending from end to end thereof, a radial wing member on said shaft also extending from end to end of the tube, a right angled discharge duct extending inwardly from the outer end of the shaft and opening into the tube at the neck end thereof, a rotor on the outer end of the shaft for manipulation to rotate the same and seating on said neck to seal the neck around the shaft, and a cap threaded onto said neck against the outer end of the shaft to cover said rotor and close the outer end of the duct.

2,348,469
MANUFACTURE OF LAMP SHADES
Joseph Greenberg, Philadelphia, Pa., assignor of fifty per cent to Sidney Rotman, Philadelphia, Pa.
Application March 11, 1941, Serial No. 382,730
6 Claims. (Cl. 240—108)



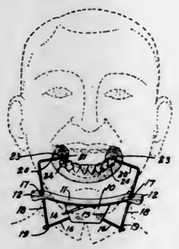
6. In a lamp shade of the type having an open frame which includes an upper ring and a lower ring secured together in an axially spaced relation, an outer covering for said shade frame stretched tautly thereabout, a fabric tape disposed flatwise against the inner surface only of the lower ring member of the frame and extending circumferentially thereabout, said tape being stitched to said outer covering by stitches disposed to either side of and in close proximity to said lower ring member of the shade frame, and an inner lining for the shade having one marginal edge portion thereof arranged in overlying relation to the portion of the outer shade covering which is secured to said tape, said inner lining being drawn inwardly and upwardly about the lower edge of the shade for securement to the upper ring member of the shade frame.

2,348,470
DETACHABLE GUN MOUNT
Henry K. Growald, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, a corporation of Delaware
Application August 23, 1940, Serial No. 353,795
13 Claims. (Cl. 89—37)



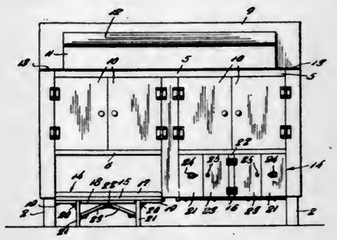
1. In a mount for a gun, a supporting frame having an opening, a member pivotally journalled within said frame for limited rotation within said opening and having a part-spherical socket portion, and a movable gun-carrying element having a part-spherical ball portion adapted for universal movement within said socket portion and separate pivotal movement with said member and with respect to said frame whereby the movement of said gun with respect to said frame is increased beyond the normal movement provided by the ball and socket portions.

2,348,471
DENTURE CLAMP
Charles Haller, Denver, Colo.
Application August 26, 1943, Serial No. 500,151
5 Claims. (Cl. 32—19)



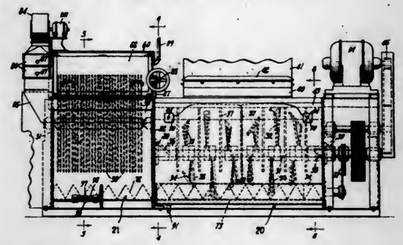
1. A denture clamp of the character described, comprising a frame member engageable beneath the chin of a user, hooked rods slidably mounted through opposite ends of said frame member for engagement of their hooked upper ends with a lower dental appliance, and spring means engaging between said rods and frame member to yieldingly urge the hooked ends of said rods towards the frame member.

2,348,472
COMBINATION FURNITURE
Nimrod Franklin Hart, Portsmouth, Va.
Application October 31, 1941, Serial No. 417,398
1 Claim. (Cl. 312—33)



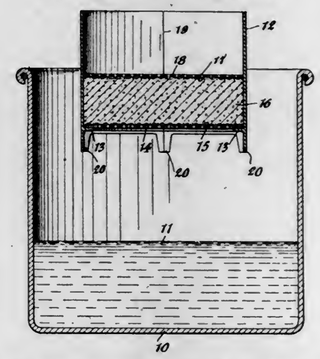
An article of furniture comprising a cabinet structure, and a folding stool mounted on the lower portion of said cabinet structure and adapted to swing thereinto, said stool including a base pivotally secured to the cabinet structure for swinging movement in a vertical plane, a cushion on one side of the base, spaced intermediate and outer plates secured on the opposite side of said base, legs hingedly mounted on the inner end portions of the outer plates for supporting the stool in operative position, the hinged end portions of said legs being engageable with the inner ends of said outer plates for positively limiting the swinging movement of said legs toward operative position, a cleat mounted on the intermediate plates, braces hingedly mounted on said cleat, lugs projecting from the braces, and loops on the legs engageable with the lugs for releasably securing said legs in operative position, said legs and braces comprising panels adapted for side abutting engagement with the plates when the stool is in inoperative position.

2,348,473
METHOD OF TREATING CHOCOLATE AND SIMILAR MATERIALS
Paul Hollstein, Carlstadt, N. J., assignor to J. M. Lehmann Co., Inc., New York, N. Y., a corporation of New York
Application November 12, 1938, Serial No. 239,991
7 Claims. (Cl. 99—23)



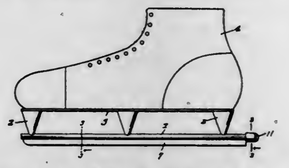
1. The method of treating chocolate to improve its taste, texture and stability, which comprises, stirring a mass of the material to keep it in a plastic state, spreading out part of the material and subjecting it to contact with currents of heated gas, the material being spread in successive portions until all portions have been spread and stirred repeatedly, continuously maintaining approximately 10 sq. ft. or more of material spread and exposed to the heated gases for each 100 lbs. of material under treatment, and continuing the action until the material attains the desired taste, texture, stability and consistency.

2,348,474
POROUS ABRASIVE ARTICLE
Henry R. Houchins, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application February 2, 1942, Serial No. 429,288
14 Claims. (Cl. 51—308)



1. The improved process of making abrasive snagging wheels which comprises: treating abrasive grain of relatively large grit size with a wetting agent; placing the treated abrasive grain in a porous container; compacting said abrasive grain by subjecting it to vibration; forming a ceramic bond raw mix into a slurry with water; deflocculating said slurry; immersing said abrasive grain in the deflocculated slurry so as to allow upward penetration and saturation of the compacted grain by said slurry; subjecting the container holding the grain to vibration while said abrasive grain is immersed in said slurry; drying the saturated mass of abrasive grain; and burning the dried product to at least partially vitrify the bond.

2,348,475
ICE SKATE
Richard Edward Howard, St. Paul, Minn.
Application October 9, 1942, Serial No. 461,463
3 Claims. (Cl. 280—11.18)

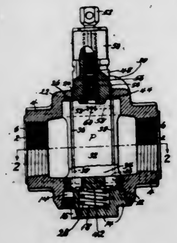


1. An ice skate of the character described comprising a tubular rail having a longitudinal slot therein, a removable rod mounted in the rail, a blade integral with the rod and extending through the slot, and a cap threadedly connected to the rod and to the rail for securing said rod in position in said rail.

2,348,476
LUBRICATED VALVE
Charles I. Hummer, Detroit, Mich., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 2, 1943, Serial No. 493,215
8 Claims. (Cl. 251—93)

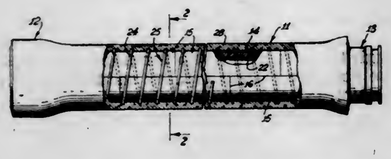
1. In a lubricated valve the combination of a valve body having a passageway therethrough for

the flow of matter, a substantially cylindrical bore formed in the body and having its axis substantially normal to the axis of said passageway and its walls finished to provide a body seating surface, a body head portion at least partially closing one end of said bore and internally finished to provide a body head seating surface, a plurality of cavities formed in said body head portion and interrupting said body head seating surface, a substantially cylindrical valve plug rotatably mounted in said bore and having the side and at least parts of one end finished to provide respectively plug and plug head seating surfaces, a passageway extending through the valve plug and adapted to register with said body passageway for flow of matter when said valve is in full open position, longitudinal grooves interrupting said plug seating surface adjacent the sides of said pas-



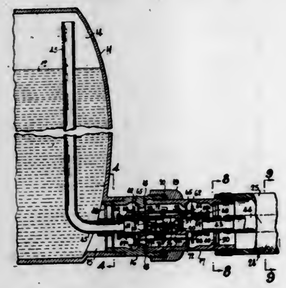
sageway and being extended upward to interrupt said plug head seating surface adjacent the periphery thereof and connect with said cavities when the valve is in substantially full open or closed position, a circumferential groove interrupting said plug seating surface adjacent the lower end thereof and connecting the ends of alternate longitudinal grooves, a source of lubricant pressure, and radial holes connecting said source of lubricant pressure to the alternate longitudinal grooves which are joined by the circumferential groove for supply thereto at all times of lubricant under pressure, said cavities and the remainder of the longitudinal grooves being cut off from connection with each other and with the alternate longitudinal grooves when the valve is in other than a substantially full open or closed position.

2,348,477
PIPE AND METHOD OF MAKING SAME
Fred F. Jenkins, Lynwood, Calif., assignor to American Pipe and Construction Co., a corporation of Delaware
Application July 31, 1942, Serial No. 453,085
1 Claim. (Cl. 138—84)



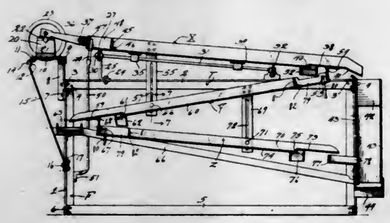
A composite pipe comprising: a steel tube; an inner lining of centrifugally spun concrete in said tube; a wire wrapped around said tube in contact therewith and secured thereto, said wire being under tension; and an outer coating of concrete enclosing said wire and tube.

2,348,478
DELIVERY SYSTEM FOR VOLATILE LIQUIDS
Nelson M. Jones, Sarasota, Fla., assignor to Green's Fuel, Incorporated, Sarasota, Fla., a corporation of Florida
Application January 25, 1943, Serial No. 473,555
2 Claims. (Cl. 284—4)



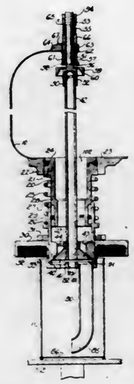
1. In a coupling for connecting one pair of concentric pipes to a second pair of concentric pipes comprising two connector members meeting endwise, means for detachably securing the two connecting members together, each connecting member having a spider member therein for rigidly supporting an inner pipe, the proximate ends of the inner pipes being adapted to telescope relative to each other, and having spring-pressed valves therein based normally to closed position, each of said valves having pins extending towards each other, so that the ends of the pins will engage each other when the two ends of the inner pipes are telescoped relative to each other, a pair of valves slidably mounted on the inner pipes and biased to normally close the passageways between the inside walls of the connector members and the inner pipes, the latter valves having pins extending towards each other, so as to engage each other to move the last-named valves to open position when the connector members are secured together.

2,348,479
ORE SEPARATING APPARATUS
John F. Kellerman, Fort Lupton, Colo., assignor of one-fourth to Lee Combs and one-fourth to Ben Roberts, both of Fort Lupton, Colo.
Application January 4, 1941, Serial No. 373,170
6 Claims. (Cl. 209—437)



1. An apparatus of the class described comprising a supporting structure, a pan, means for mounting the pan upon the structure for reciprocating movement, means for reciprocating the pan, a second pan underlying the first named pan, means hingedly connecting the second pan at one end directly to the discharge end portion of the first pan, means connecting the opposite end of the second pan to the first pan, said last named means being so constructed and arranged as to hold the second pan in selective vertical swinging adjustment with respect to the first pan, the connections between the two pans holding both of the pans for unitary reciprocation, the first pan in its delivery end being formed to provide a slot extending thereacross through which the concentrates of said first pan are discharged upon the second pan, a water box forming a part of the opposite end portion of the first pan, said box having a forward wall extending across the pan and having a discharge slot immediately adjacent to the bottom of said first pan to provide means for even distribution over the bottom of the pan of the water discharging from the box out through said slot, and means carried by the first pan for delivering water within the water box.

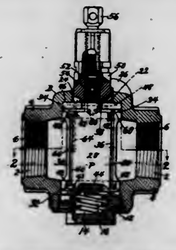
2,348,480
FILLING VALVE
Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application November 25, 1939, Serial No. 306,112
8 Claims. (Cl. 226—124)



1. A valve for filling containers with fluid from a reservoir comprising a conduit for conducting fluid from the reservoir to the container, said conduit having an inlet in said reservoir, the outlet of said conduit being adjacent the bottom of the container, a valve intermediate the inlet and outlet of said conduit for controlling the passage of fluid through said conduit, a vent opening to the atmosphere for conducting air from the container as it fills with fluid, and a second valve for establishing communication between said vent and the portion of said conduit on the outlet side of said first valve, said valves having alternate positions so that when one is open the other is closed.

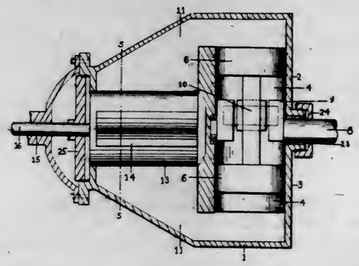
2,348,481
LUBRICATED VALVE
David M. Knox, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 2, 1943, Serial No. 493,218
9 Claims. (Cl. 251—93)

1. In a lubricated valve the combination of a valve body having a passageway therethrough for the flow of matter, a bore formed in the body and having its axis substantially normal to the axis of said passageway and its walls finished to provide a body seating surface, a body head portion at least partially closing one end of said bore and internally finished to provide a body head seating surface, a valve plug rotatably mounted in said bore and having the side and at least parts of one end finished to provide respectively plug and plug head seating surfaces, a passageway extending through the valve plug and adapted to register with said body passageway for flow of matter when said valve is in full open position, a plurality of discontinuous circumferential lubri-



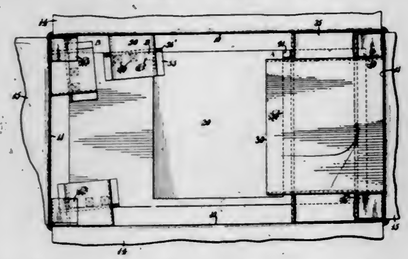
cant grooves interrupting said plug seating surface adjacent the upper and lower ends thereof and arranged in staggered overlapping relationship, longitudinal lubricant grooves interrupting said plug seating surface and connecting said discontinuous circumferential grooves together in pairs to provide a plurality of substantially Z-shaped groove arrangements, and a plurality of relatively short longitudinal lubricant grooves interrupting said plug seating surface and located between the overlapped ends of the Z-shaped groove arrangement but clear of connection thereto.

2,348,482
HYDRAULIC CLUTCH
Albert B. Kramer, Newark, N. J.
Application December 15, 1942, Serial No. 469,057
4 Claims. (Cl. 192—60)



1. A fluid clutch comprising a casing; cylinders disposed therein; opposed pistons reciprocating in the cylinders; a drive shaft operatively associated with the pistons; a fluid passage in the casing communicating between the heads of the pistons; fluid in the casing; a valve member mounted in the fluid passage, whereby the passage may be closed; a hollow driven shaft associated with the casing, a slot in the driven shaft; a valve stem for the valve member extending through the driven shaft; a pin associated with the valve stem and extending through the slot of the driven shaft; a sleeve with a diagonal cam-slot therein engaged with the pin of the valve stem, and carried by the driven shaft; and a feather key mounted on the driven shaft slideably engaging the sleeve.

2,348,483
PACKAGING HEAVY, LEGGED ARTICLES
Howard J. Lacy, II, and Elmer C. Slaughter, Indianapolis, Ind., assignors to U. S. Corrugated Fibre Box Company, Indianapolis, Ind., a corporation of Indiana
Application August 20, 1941, Serial No. 407,622
8 Claims. (Cl. 206—46)

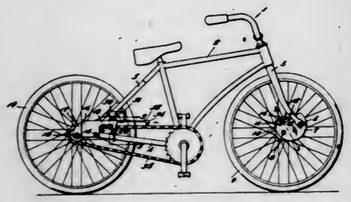


1. A filler and cushion unit for inclusion in a carton with a packaged article, comprising two sheets of corrugated paper each folded on an intermediate fold line to form two portions at right angles to each other with one portion of each sheet slotted at an intermediate point in its length inwardly toward but not to a fold line and the two sheets interlocked at their slots so that a free edge of each sheet overlies and bottoms on an inner surface of a companion sheet.

2,348,484
METHOD OF SEALING OFF POROUS FORMATIONS
Howard C. Lawton, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 31, 1941, Serial No. 417,271
6 Claims. (Cl. 166—22)

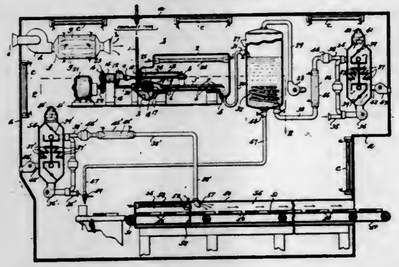
1. The method of sealing off porous formations in oil wells comprising the steps of introducing into the well and injecting into the formation a treating solution of acaroid resin in a water miscible solvent, flowing the well to allow the solvent to be leached out of the treating solution, and allowing the resin deposited thereby to be converted by the action of the formation temperature to a water- and oil-insoluble plugging material.

2,348,485
VEHICLE SPRING SUSPENSION
George Lively, Farmington, N. Mex., assignor of one-half to Harold D. Tanner, Farmington, N. Mex.
Application October 4, 1941, Serial No. 413,669
1 Claim. (Cl. 280—277)



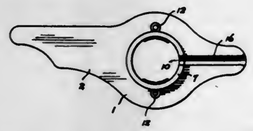
In a velocipede comprising a frame including a front fork, a pair of substantially segmental metallic plates pivotally mounted for vertical swinging movement in said fork and extending rearwardly therefrom, an axle mounted between the rear portions of the plates, a wheel journaled on said axle, clamps mounted on the fork above the plates, cups mounted on said clamps at substantially right angles to the fork and facing rearwardly therefrom, lugs rising from the rear end portions of the plates, forwardly facing cups on the lugs in opposed relation to the first-named cups, and coil springs having their end portions engaged in the first and second-named cups for yieldingly resisting upward swinging movement of the plates relative to the fork.

2,348,486
STERILIZING APPARATUS
John T. McCrosson, New York, N. Y.
Application November 8, 1940, Serial No. 364,805
2 Claims. (Cl. 21—74)



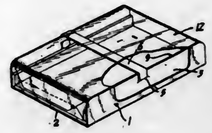
1. A room structure within which to sterilize and pack food and other products comprising enclosing walls to provide a confined interior atmosphere which is segregated from the outside atmosphere, means to deliver outside air into the room interior operative to maintain therein an air pressure somewhat in excess of outside atmospheric pressure, the discharge portion of said air delivery means having means to sterilize the ingoing air by ultra violet ray irradiation, and air drying means operative to draw part of the air and segregate the same from the interior atmosphere of the room subject for use in treating products processed within the room, said air drying means also having means to sterilize dry air discharged therefrom by ultra violet ray irradiation.

2,348,487
LINE TIGHTENER
William Anthony McKay and James Archibald Dickie, Vancouver, British Columbia, Canada
Application July 29, 1943, Serial No. 496,644
2 Claims. (Cl. 254—161)



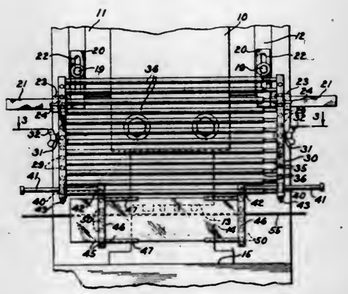
1. A line tightener comprising a frame having spaced side plates, a drum journalled in the plates, a one way clutch means for holding the drum against rotation in one direction, said drum having a slot extending inwardly from one end to receive the end of a line and one of said plates having a corresponding slot adapted to be brought into register with the slot in the drum.

2,348,488
CONTAINER
Wakeman G. McLellan and Roderick I. McLellan, San Francisco, and Wilson J. Field, Orinda, Calif., and Gustave H. Poesch, Columbus, Ohio, assignors to E. W. McLellan Co., San Francisco, Calif., a partnership
Application August 28, 1940, Serial No. 354,552
3 Claims. (Cl. 312—31)



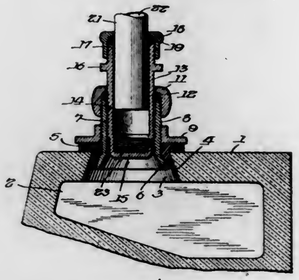
1. A package comprising: a substantially rectangular blank of cardboard or the like; a sheet of moisture absorbent material secured to a side of said blank; a plurality of spaced flowers separately secured to said sheet of absorbent material on the side thereof opposite said blank and in positions with their blossoms facing outwardly of said sheet; single means securing each of said flowers to said sheet and securing said sheet to said blank; and a hermetically sealed, transparent container enclosing said sheet and said flowers, said sheet being moistened for producing moisture of evaporation within said container, the walls of said container being relatively thin, flexible material.

2,348,489
SAFETY DEVICE
George C. Matson, Brookfield, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 6, 1943, Serial No. 475,033
9 Claims. (Cl. 74—608)



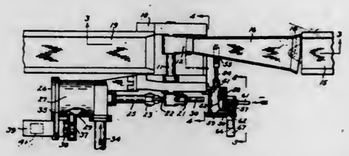
1. A safety guard for a machine comprising a plurality of screens, one pair of screens being mounted and spaced in substantially parallel relationship, a third screen mounted on and between said pair of screens and attached to one end of each of said pair of screens, said screens cooperating to form a multi-sided enclosure, a plurality of substantially parallel cooperating sleeves and rods forming said screens, said sleeves receiving said rods, the space between said pair of screens being adjustable, said third screen being extensible and contractible as the spacing between said pair of screens is altered, said pair of screens also being extensible and contractible to adapt them to machines of varying dimensions, and means for mounting said screens on a machine.

2,348,490
FLOW CONTROL MEANS
Thomas P. Newman, Geneva, and Harold W. Ashby, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 17, 1943, Serial No. 483,472
10 Claims. (Cl. 4—10)



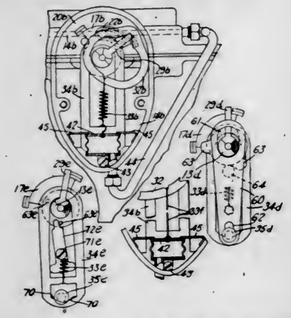
1. In a substantially tubular combined flow control and coupling means interposed between a flushing supply tubing and a plumbing fixture or the like, the combination including a spud member mounted in axially fixed relation upon the fixture, a sleeve reciprocably movable within said spud, the said sleeve having variably restrictable outlet means adjacent its lower portion for communicating with an inner chamber of the fixture upon predetermined adjustment of the axial position of the said sleeve within the spud member, and the said sleeve having means at its upper end for adjustable telescopic sealing engagement with the water flushing supply tubing.

2,348,491
SHEAR
Joseph M. O'Malley and Fred B. Fay, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application May 22, 1943, Serial No. 488,074
10 Claims. (Cl. 164—42)



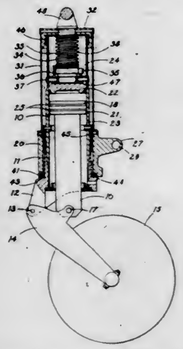
1. A flying shear for severing stock as it travels longitudinally in a generally horizontal direction comprising two parallel horizontal shafts located respectively above and below the line of stock travel, two blade-carrying arms on the respective shafts normally converging rearwardly toward the on-coming stock, a blade on each arm, an actuating arm on each shaft extending substantially parallel with the corresponding blade-carrying arm, a fluid-pressure actuated motor having a slidable piston rod substantially parallel with the line of stock travel, links connecting the piston rod with the actuating arms to swing them forwardly and then rearwardly, and guide means to direct the stock between the blades during their forward movement and at one side of the blades during their rearward movement.

2,348,492
SNAP-ACTION VALVE MECHANISM
William Edward O'Shei, London, England
Application May 27, 1943, Serial No. 488,690
In Great Britain April 21, 1942
12 Claims. (Cl. 121—97)



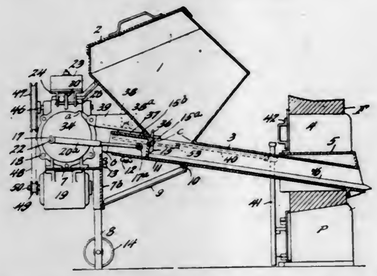
8. In a fluid motor, a source of motor operating fluid, a snap-action valve mechanism for fluid motors, comprising a seating having fluid ports, a valve on the seating movable back and forth between two positions for operatively connecting the ports, spring means supported for back and forth movement and operatively connected to the valve, actuating means operable to shift the spring means back and forth across a point of maximum spring distortion for so moving the valve, and means deriving power from said source operable automatically to adjust the effective force exerted by the spring means for overcoming any tendency of the valve to resist its intended movement.

2,348,493
LANDING GEAR FOR AIRCRAFT
Sydney MacDonald Parker, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England
Application December 30, 1941, Serial No. 424,974
In Great Britain January 3, 1941
6 Claims. (Cl. 244—104)



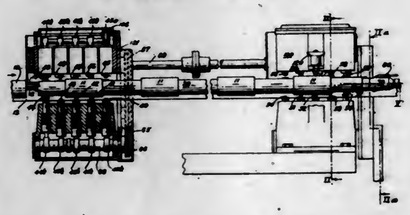
1. In an aircraft landing wheel mounting, a telescopic strut comprising a cylinder member mounted for rotational movement in the aircraft framework, a plunger member mounted to rotate with the cylinder member, resilient means tending to move said plunger member outwardly with respect to said cylinder member, damping liquid in said strut, orifice means for restricting the flow of liquid during compression of the strut, a bearing sleeve surrounding said cylinder member and serving to position said cylinder member in the aircraft, a bearing surface on the lower end of said sleeve, a shoulder on said cylinder opposite to the said bearing surface, a washer of friction material disposed between said bearing surface and said shoulder, and means for preventing substantial downward movement of said cylinder member through said sleeve.

2,348,494
STOKER
Peter Paul Peters, Waynesburg, Ohio
Application September 23, 1940, Serial No. 357,961
1 Claim. (Cl. 110—109)



An overfeed type of stoker comprising a vertically-disposed coal hopper, an inclined chute located below the hopper and adapted to have its lower end extended through the door of a furnace, an outlet for coal communicating between the bottom of the hopper and the chute, a slide reciprocable within the chute below said outlet, means for reciprocating the slide for pushing coal down the chute, a plurality of elongated, forwardly-projecting poker bars mounted upon the front end of said slide and adapted to rest and slide upon the bottom of said chute, said poker bars having pointed ends and being movable outwardly through the lower end of the chute into and out of the fire bed of the furnace upon reciprocation of the slide for a distance equal to the length of reciprocation of the slide, and means for arresting said slide with the poker bars retracted substantially entirely within the chute when the slide-reciprocating means is rendered inoperative.

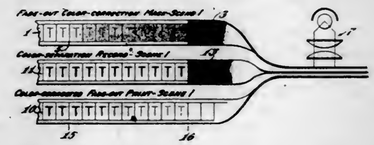
2,348,495
APPARATUS FOR INTERNALLY COATING RINGLIKE OBJECTS
William B. Peterson, Jr., San Francisco, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada
Application June 28, 1943, Serial No. 492,532
12 Claims. (Cl. 113—7)



1. In an inside coating mechanism the combination of a frame, a conveying means, a hollow

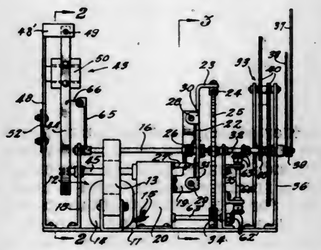
tank of greater length than diameter, and along which ring-like objects may be conveyed at spaced intervals, a source of air under pressure, a chamber in said tank to hold a coating medium, a second chamber in said tank to conduct air under pressure, a spray head carried by said tank and having passageways connecting it to both the aforesaid chambers, a plurality of openings in said tank with yielding valve means for keeping them closed, a plurality of frame mounted supporting means aligned with said openings, some of said supporting means also having jets therein in communication with said source of air under pressure, means for moving said supporting means intermittently into and out of contact with said tank in timed relation to said conveying means to allow ring-like objects to be conveyed onto, along and off said tank, and wherein said supporting means with jets have valves actuated upon contact of each with its respective opening in said tank, whereby air under pressure is conveyed into said tank as needed.

2,348,496
CINEMATOGRAPHIC MASKING
Wadsworth E. Pohl, Los Angeles, Calif., assignor to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine
Application November 26, 1942, Serial No. 467,006
11 Claims. (Cl. 95—2)



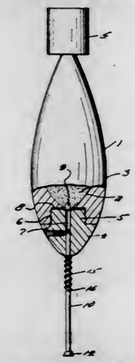
1. The method of producing color motion pictures which comprises forming a sequence of color-separation records, forming a concomitant sequence of color-correction records, gradually blocking out the records of successive frames throughout a short length at one end of the sequence of color-correction records, and with both of said records printing a sequence of corrected pictures, the color-correction records serving the two-fold purpose of correcting color deficiencies of the pictures and also producing a gradual change at one end of the sequence of corrected pictures.

2,348,497
CONTROL SYSTEM
William A. Ray, Los Angeles, Calif.
Application January 12, 1942, Serial No. 426,437
1 Claim. (Cl. 236—46)



In a system for controlling temperature and having an electric circuit: a thermostat having a movable member responding to temperature conditions and controlling said circuit, means for producing a snap-action in the operative movement of said member, a timer cooperating with said thermostat in the control of said circuit, an intermittently-operated electric motor comprising an oscillating armature for operating said timer, said motor being energized at such infrequent intervals and for such brief periods as to have no appreciable heating effect upon the thermostat, and means operated in response to the energization of said motor for reducing the differential of operation of the thermostat, said last-named means comprising means oscillating with said armature for applying to said member a tapping force which is of such magnitude that operative movement of the member is effected by said force only if the temperature of the thermostat is near that at which said movement should occur.

2,348,498
BOMB
Russell T. Robertson, New Windsor, Md.
Application September 16, 1942, Serial No. 458,534
1 Claim. (Cl. 102—2)



A bomb of the class described comprising a hollow body forming a charge containing chamber therein, and a detachable nose section axially bored, a firing cap in said body at the inner end of said bore, an elongated firing rod extending forwardly from said nose section and having an inner end slidably mounted in said bore for movement inwardly of the bore under impact against a target to fire said cap, coacting devices in said nose section and on said rod for yieldingly blocking such inward movement of said rod and limiting outward movement thereof, and spring means urging said rod outwardly of said section, said devices comprising a spring pressed detent plug in said nose section and a notch in said rod with which said plug is interlocked, said notch being constructed and arranged to cam the plug out of the same under inward movement of said rod.

2,348,499
BRAKE SHOE
Charles A. Sawtelle, Plymouth, Mich.
Application December 5, 1942, Serial No. 467,940
10 Claims. (Cl. 188—250)

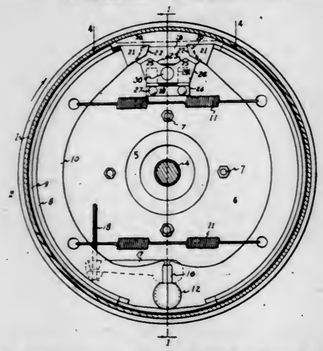
1. A brake shoe comprising a substantially arcuate, radially flexible band member, a web member carrying the band member and having its end portions rigidly connected to those of the band member, and having a radial clearance from the band member throughout the extent of

said members between said end portions, and a friction lining applied to the outer face of the band member and disposed in its entirety be-



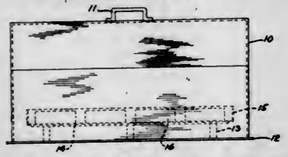
tween said end portions, said web member being substantially arcuate and having a predetermined radial flexibility materially less than that of the band member.

2,348,500
VEHICLE BRAKE
Charles A. Sawtelle, Plymouth, Mich.
Application April 10, 1943, Serial No. 482,647
13 Caims. (Cl. 188—78)



1. A brake comprising a brake drum, two brake shoes, interiorly engageable with the drum rim, means normally yieldably retracting the shoes from said rim, means associated with one of the shoes for applying it to the drum rim, a wedge member interposed between the shoes and presenting convergent faces to the shoes, such wedge member being free to float circumferentially of the brake for transmitting torque from said applied shoe to the adjacent shoe, and means for shifting the wedge member substantially radially responsive to its travel circumferential to the brake to increase its insertion between the shoes.

2,348,501
HEAT-TREATING APPARATUS
Kenneth L. Scott, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 13, 1941, Serial No. 422,783
4 Claims. (Cl. 266—5)



1. In an apparatus for heat treating articles, a lining of anodized aluminum for controlling the cooling rate of the articles therein.

2,348,502
WINDSHIELD WIPER
Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application July 11, 1941, Serial No. 401,951
6 Claims. (Cl. 15—250.4)

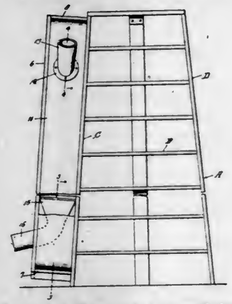


1. A windshield wiper defroster blade comprisprising a flexible wiper element and a supporting frame therefor, said frame comprising a channel-like member having edge portions spaced from said wiper element, a fluid conducting chamber located on each side of said member, a plurality of apertures communicating with said chambers and being located adjacent said spaced edge portions of said member, and means for connecting said chambers to a source of fluid.

2,348,503
VITAMIN PREPARATION AND METHOD OF MAKING SAME
Harden F. Taylor, New York, N. Y., assignor to The Atlantic Coast Fisheries Company, New York. N. Y., a corporation of Maine
No Drawing. Application August 23, 1941, Serial No. 408,092
14 Claims. (Cl. 167—81)

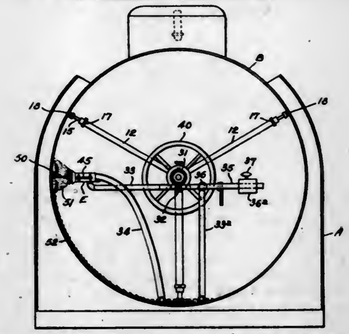
7. A substantially dry vitamin preparation comprising a gelatin matrix having discrete particles of an oil containing an oil-soluble vitamin dispersed therein and completely imprisoned therein, said matrix also having incorporated therein a water-soluble acid vitamin and an alkaline substance, the vitamins being present in therapeutically significant amounts, said vitamin preparation having a pH of from 3.5 to 4.8.

2,348,504
FRUIT COLLECTING CHUTE FOR LADDERS AND THE LIKE
Ralph M. Thomas, Stockton, Calif.
Application April 7, 1943, Serial No. 482,148
4 Claims. (Cl. 228—1)



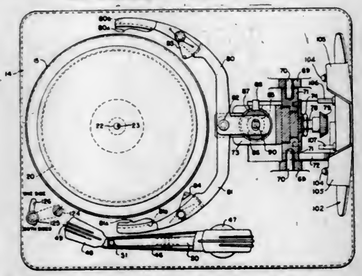
1. A ladder attachment comprising a vertically elongated chute adapted to be fixedly mounted on one of the side members of the ladder, said chute including a frame structure and a shiftable enclosing belt for the frame structure provided with a fruit entrance opening, and a hopper type receiver having a discharge elbow and an intake funnel, said intake funnel being disposed between the flights of the belt, the elbow extending laterally outwardly through the frame structure.

2,348,505
SANDBLASTING
John Nicholas Voerge, Westmount, Quebec, Canada
Application October 5, 1943, Serial No. 505,045
In Canada September 24, 1943
3 Claims. (Cl. 51—8)



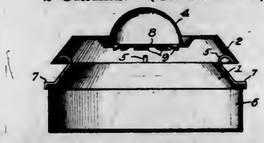
1. An abrasive blasting apparatus, comprising, an elongated support adapted to extend lengthwise of a vessel at a central location, means for supporting the shaft at a plurality of points within the vessel, a carriage mounted on said support for axial and radial movement in relation thereto, abrasive blasting instrumentalities mounted on said carriage, and control means connected to said carriage remotely from said instrumentalities.

2,348,506
AUTOMATIC RECORD CHANGING APPARATUS
Jerald D. Weaver, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application December 6, 1941, Serial No. 421,891
12 Claims. (Cl. 274—10)



5. In an automatic phonograph having a rotatable turntable for supporting a stack of records of different diameters, a pickup arm for reproducing the top record on said turntable, and a record magazine; the combination of means for moving said turntable vertically relative to its axis for maintaining the top record thereon at a predetermined elevation; pickup arm-moving means for moving said pickup arm to an outermost position and returning it to the initial playing groove of the top record on said turntable; record-moving means mounted beyond the periphery of said turntable for moving to a record-discarding position; a pair of arms connected to said record-moving means for moving relative thereto into engagement with the top record on said turntable and for moving therewith to the record-discarding position, said arms normally being in a position beyond the periphery of the top record on said turntable and at the predetermined elevation of the top record; a rotatable member on said record-moving means and operatively associated with said arms for cooperating in moving them into and out of engagement with the top record on said turntable; means for connecting said rotatable member with said pickup arm-moving means, said connecting means including a compressible member for absorbing the force transmitted by said pickup arm-moving means after said arms are in engagement with the top record on said turntable; an actuating member on said record magazine for moving said rotatable member as said record-moving means is moved to the record-discarding position; and driving means operatively associated with said turntable-moving means, said record-moving means and said pickup arm-moving means and being actuated after the playing of the top record on said turntable for respectively moving said arms into engagement with the top record on said turntable, moving the top record into the record-discarding position, depositing the moved record into said magazine, moving said turntable to move the top record thereon to the predetermined elevation, returning said arms to the normal position, and returning said pickup arm to the initial playing groove of the top record on said turntable.

2,348,507
BASTER ROASTER
George Wells, Komas Ranch, Denman Island, British Columbia, Canada
Application April 9, 1943, Serial No. 482,427
In Canada March 22, 1943
2 Claims. (Cl. 99—347)

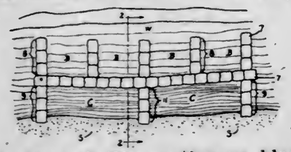


1. A self basting roaster cover consisting of a surround, above and to which is attached by distance pieces a cover, leaving a space between the said surround and the said cover; the said cover is provided with a sunken centre section in the top; the said sunken centre section is provided with a number of holes, each hole commencing from the central or inward position to the outward position and is of a downward oblique pattern; the aforesaid surround has lugs or arms attached to the outside at a point which permits its lower rim to be positioned slightly lower than the rim of the roaster; the afore-mentioned sunken centre section is provided with a detached cowl which in conjunction with the sunken centre section and through the afore-mentioned holes in the sunken centre section provide a course for self basting by placing a portion of fat material beneath the said cowl.

2,348,508
BREAKWATER
Louis A. Wells, Shaker Heights, Ohio, assignor to The L. A. Wells Construction Company, Cleveland, Ohio, a corporation of Delaware
Application June 18, 1941, Serial No. 398,620
3 Claims. (Cl. 61—4)

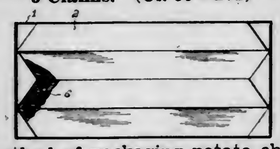
3. A breakwater construction comprising a succession of massive masonry blocks layed contiguously to each other along the shore line so that they rest upon the bottom with not less than one-half of their height submerged beneath the

water; a plurality of similarly constituted elements extending generally transversely to said contiguous blocks between the latter and the



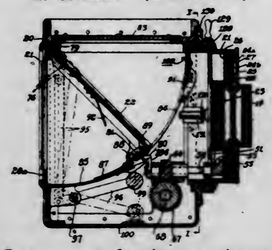
shore and beyond the contiguous blocks into deeper water; and means for supporting all of said blocks upon the bottom to prevent erosion of the subjacent support of said blocks.

2,348,509
MEANS AND METHOD OF PACKAGING POTATO CHIPS
Ralph W. Wheeler, Cleveland, Ohio
Application January 10, 1941, Serial No. 373,987
5 Claims. (Cl. 99—171)



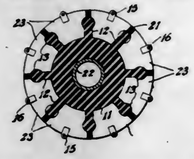
1. A method of packaging potato chips which includes the steps of providing a carton of predetermined size to receive a number of sub-packages in collapsible flexible bags of bellows type structure, the bag size being fixed in transverse dimensions, but variable in length and thickness so as to have a cubic capacity in excess of the cubic capacity of the container, when fully expanded, and provide resilient lateral and endwise cushions when loosely filled and engaged within the restricted size carton.

2,348,510
CAMERA
Thomas McG. Aiken, Pittsburgh, Pa.
Application March 21, 1941, Serial No. 384,435
12 Claims. (Cl. 95—42)



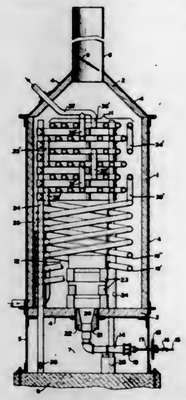
1. A reflex camera having a mirror pivoted at one edge for movement to and from a focusing position between the lens and the holder for a sensitized element, a mirror chamber having a wall of arcuate form between the lens and the mirror and having an opening therethrough in axial alignment with the lens, the wall being curved coaxially of the mirror pivot, a sealing plate connected to the rear side of the mirror and curved coaxially of the mirror pivot, in position to move on said wall and across said opening during movements of the mirror to and from focusing position, and means rendered operative through movement of the mirror, for swinging the sealing plate away from said opening at the completion of movement by the mirror from its focusing position.

2,348,511
COMMUTATOR AND PROCESS OF MANUFACTURE
Jack Armel, Alliance, Ohio, assignor to The Alliance Manufacturing Company, Alliance, Ohio, a corporation of Ohio
Application September 1, 1942, Serial No. 456,861
13 Claims. (Cl. 171—321)



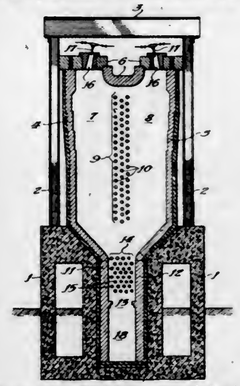
1. A commutator comprising a cylindric body of moldable insulation material having a plurality of radial ribs extending outward therefrom, and a plurality of commutator segments arranged in circumferentially spaced apart relation around said insulation body and between the radial ribs thereon, each segment comprising a plurality of laminations, said insulation body and ribs being molded upon said segments, the outer ends of said ribs extending to the periphery of the commutator.

2,348,512
HEATING OF FLUIDS
Marion W. Barnes, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 26, 1942, Serial No. 428,241
1 Claim. (Cl. 122—250)



A heater comprising, in combination, a vertically disposed, substantially cylindrical, refractory wall defining a radiant heating zone and a fluid heating zone disposed above and in direct communication with said radiant heating zone, a pair of tubular fluid conduits, each comprising a plurality of helical turns, disposed in said radiant heating zone adjacent the surface of said wall, a first set of superimposed and serially connected flat spiral coils disposed in said fluid heating zone and communicating with one of said conduits, a second set of superimposed and serially connected flat spiral coils disposed in horizontal planes alternating with the horizontal planes of the coils of said first set and communicating with the other of said conduits, means for projecting hot combustion products upwardly through said heating zones, and means for supplying a stream of fluid to each of said conduits.

2,348,513
HEATER FOR FLUIDS
Marion W. Barnes, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 16, 1942, Serial No. 465,704
4 Claims. (Cl. 122—356)



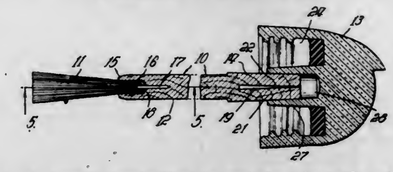
1. A heater for fluids comprising, in combination, refractory side and end walls defining a combustion and heating chamber, a tube bank comprising three vertically parallel rows of horizontal tubes disposed substantially midway between said side walls within said chamber, and means for directing flames and hot gases resulting from the combustion of fuel through said chamber over the inner surfaces of said refractory side walls in a substantially vertical direction and in radiant heat transmitting relation to said tube bank, said bank being constructed and arranged for the passage of a single stream of fluid in series through the outer two rows of the bank, and for the passage of another stream of fluid through the central row of the bank.

2,348,514
LIQUID DISPENSER
Lawrence G. Bates, Shaker Heights, Ohio, assignor to Continental Say-When Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 9, 1940, Serial No. 334,233
2 Claims. (Cl. 215—74)



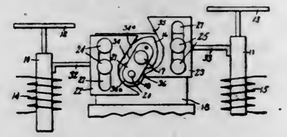
2. A device of the character described adapted to be placed on a container of liquids, which comprises a closure means, a liquid-chamber thereon communicating through the closure means and having an external discharge opening, said discharge opening being at an angle to the axis of the container, a check stopper for said opening, air passage-way means independent of said discharge opening communicating between the atmosphere and the container, and means for centering said stopper in the outflowing stream of liquid including an elongated tapering cone extremity on said stopper outside said discharge opening and an elongated tapering cone portion inside and extending into a long thin stem terminating in a flat rudder.

2,348,515
BRUSH
John G. Baumgartner, Aurora, Ill.
Application February 25, 1942, Serial No. 432,288
4 Claims. (Cl. 15—195)



1. A brush including a wooden handle of relatively small diameter having an axially extending cavity at one end thereof, with the wall of said cavity being straight over its axial length, and said cavity having a diameter equal substantially to twice the thickness of said wall, a bristle portion receivable in said cavity, and a staple inserted entirely within said cavity and anchored in the bottom of said cavity for securing said bristle portion directly to said handle.

2,348,516
CIRCUIT BREAKER
Carl E. Bazley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 11, 1942, Serial No. 457,899
5 Claims. (Cl. 200—5)

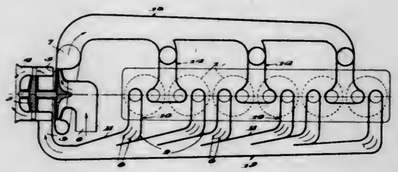


2. The combination with two electric switch members of a support, two operating members slidably mounted on said support for movement in directions parallel with each other, a mechanical connection between each of said switch members and one of said operating members, said operating members having their adjacent sides shaped to form cam surfaces, and a cam member pivotally mounted on said support between said cam surfaces thereby normally to latch both of said operating members against simultaneous movement but movable by either one of said operating members into locking relation with the other of said operating members and returned by said first operating member to an intermediate position between said operating members.

2,348,517
STAINLESS STEEL ANODIC POLISHING
Glenwood J. Beckwith, Brecksville, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
No Drawing. Application July 8, 1942, Serial No. 450,195
1 Claim. (Cl. 204—140)

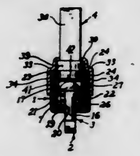
A method of anodically polishing stainless steel, characterized by immersing said steel in an electrolyte by volume consisting of one part of a solution of 7 pounds of glycine to a gallon of water, five parts 85% ortho-phosphoric acid and four parts 96% sulphuric acid, and making said steel the anode in an electrolytic circuit including said electrolyte with the electrolyte current at a sufficient density per unit area of said steel to effect polishing.

2,348,518
POWER PLANT
Louis Birkigt, Rive Bleue, Versoix, near Geneva, Switzerland
Application March 11, 1941, Serial No. 382,765
In France February 23, 1940
3 Claims. (Cl. 60—13)



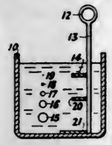
1. A power plant comprising, an internal combustion engine having an intake and an exhaust, at least one compressor associated with said engine, at least one turbine coupled with said compressor for driving said compressor, conduit means connecting said intake and said compressor, conduit means connecting said exhaust and said turbine, whereby said turbine is driven by exhaust gases from said engine, said last named conduit means having bends therein, and vanes disposed in said bends for guiding the streams of the exhaust gases smoothly and without eddies.

2,348,519
ELECTRIC SWITCH
Hersohel C. Bolley, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application January 29, 1942, Serial No. 428,723
13 Claims. (Cl. 200—164)



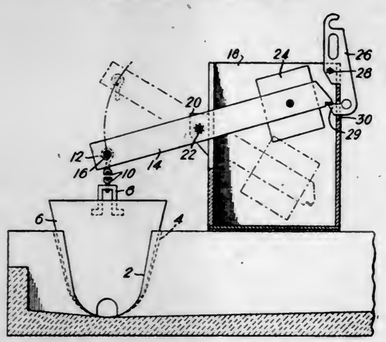
1. A switch including in combination: a housing provided with wells and apertures cooperating with said wells; a pair of contact means, each having a contact portion arranged within a well and projecting through an aperture; a spring encircling each of said contact means; said housing being further formed with a guideway with said contact portions extending therein, bosses adjacent its side walls and projections at its corners; an actuator provided with a handle at one extremity and an enlargement at the other extremity; said enlargement being provided with a longitudinal projection movable within said guideway; bridge means carried by said longitudinal projection adapted to cooperate with said contact portions; a mounting plate for said switch provided with a slot through which said handle extends and formed to provide a pair of channel portions; one of said channels slidably receiving said enlargement; the other channel portion receiving the upper extremity of the housing and provided with bifurcations receiving said bosses, and fingers which are clamped over said corner projections; and means electrically connecting one of said contact means with said mounting plate; said means including a part clamped between said housing and said plate.

2,348,520
SUSPENDOMETER
William T. Cardwell, Jr., Whittier, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application June 5, 1942, Serial No. 445,942
6 Claims. (Cl. 265—44)



1. A suspendometer for comparing the relative capacities of fluids, such as well drilling fluids, to support rock fragments, weight material, sand and the like, comprising a plurality of solid bodies of graduated sizes and uniform density, means for initially supporting said bodies in a quiescent body of said fluid, said support means adapted to be withdrawn laterally to release said bodies so that they are free to sink through said fluid, and means having a plurality of vertically spaced ledges adapted to be introduced laterally into the path of said falling bodies to intercept and segregate bodies that have traveled different distances through said fluid during a given time interval.

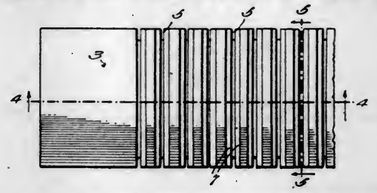
2,348,521
RUNNER GATE OPERATOR
John William Carter and Truman H. Kennedy, McKeesport, Pa., assignors to National Tube Company, a corporation of New Jersey
Application July 13, 1943, Serial No. 494,538
4 Claims. (Cl. 266—38)



1. A runner gate operator comprising a tension member connected to said gate, said member normally being untensioned when said gate is closed, and means connected to said member for snapping said member taut to thereby loosen said gate.

2,348,522
CUT TOOTH POWER TRANSMISSION BELT AND BLANK FOR THE SAME
Richard Y. Case, Philadelphia, Pa., assignor to L. H. Gilmer Co., Tacony, Philadelphia, Pa., a corporation of New Jersey
Original application March 13, 1941, Serial No. 383,236. Divided and this application August 29, 1941, Serial No. 408,880
1 Claim. (Cl. 74—236)

A cut tooth power transmission belt consisting of an elastic neutral zone section comprising one or more rows of inextensible pull cords, a soft rubber body in which said cords are invested, an inherently hard vulcanized material surrounding the top, bottom and sides of said neutral zone section and inflexible against compression or expansion and transversely divided into a continuous series of block-like members constituting a continuous series of projecting teeth on the compression side of the neutral zone section, and companion block members on the tension side of the neutral zone section, said tooth members arranged in transverse alignment with the companion block member and entirely separated from the adjacent teeth by intervening transverse divisions whereby the belt is adapted to flex solely on the neutral zone section on lines between the adjacent pairs of companion teeth in block sections.

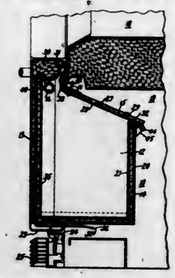


2,348,523
GARMENT HANGER SHIELD
Isidore A. Chaikin, Great Neck, N. Y.
Application March 6, 1942, Serial No. 433,585
5 Claims. (Cl. 223—98)



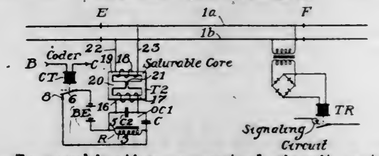
1. In a shield for garment hangers, an upwardly extending center portion surrounding the hook of the hanger and end extensions at either side of said center portion yieldingly engaging the shoulder arms of the hanger, said center portion having an inverted U shaped upper contour and an inverted U shaped cross section the front and back walls of which depend and terminate in said end extension, means detachably securing one half of said U shaped center to the other half at the vertical centerline of said shield.

2,348,524
FOOD STORAGE RECEPTACLE
La Mar S. Cooper, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 8, 1941, Serial No. 418,395
2 Claims. (Cl. 34—90)



1. In a refrigerator cabinet of the type having a refrigerated food storage compartment, a machinery compartment below said storage compartment and disposed toward the rear of said cabinet, and a movable food storage receptacle located in the front portion of said cabinet below said storage compartment, said receptacle having thermally insulated walls, one of said walls having an opening therein, a thermally insulated cover hinged on said cabinet for closing said opening whereby the transmission of heat and moisture into and out of said receptacle is minimized, said cover being arranged to remain in frictional engagement with said receptacle throughout the movement of said receptacle, and means for maintaining a relatively low relative humidity within said receptacle and for dehydrating foods stored therein, said means comprising a source of radiant heat disposed in the upper portion of said receptacle in such a manner that a minimum of storage space is occupied thereby, substantial portions of the inner sides of said walls being provided with surfaces having a relatively high coefficient of reflection of radiant heat.

2,348,525
APPARATUS FOR GENERATING CODED ALTERNATING CURRENT
Austin M. Cravath, San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 23, 1941, Serial No. 403,631
5 Claims. (Cl. 177—380)

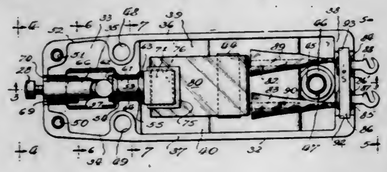


1. In combination, a control circuit, a transformer having a saturable magnetic core, a reactor having a winding mounted on a magnetizable core, a capacitance; an oscillating circuit including in series said reactor winding, said capacitance and a primary winding of said transformer and proportioned for resonance at a preselected frequency; a source of undirectional current, a coder having a cyclic operation consisting of an on and an off period, means controlled by said coder to connect said current source across said reactor winding each said on code period to store magnetic energy in the reactor core and to disconnect the current source from the reactor winding each said off code period to cause a damped wave of oscillations of said preselected frequency to flow in said oscillating circuit each said off code period due to the decay of the stored magnetic energy, and a secondary winding of said transformer connected to said control circuit to supply that circuit with a code impulse of alternating current in response to each such wave of oscillations and which current is of substantially constant amplitude due to the saturable characteristic of said transformer core.

2,348,526
CRYSTAL PICKUP UNIT
Roy Dally, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application April 10, 1941, Serial No. 387,826
7 Claims. (Cl. 179—100.41)

1. In a crystal unit for reproducers, the combination of a pair of half housing members, each

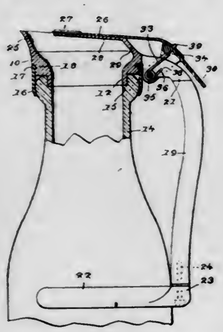
half housing member being formed with a depression forming half of a chuck chamber and a depression forming half of a crystal chamber, each half housing also having a groove joining said chamber recesses, said groove being bordered at each end by a thrust surface, means carried by the housing for clamping resiliently one end of a crystal assembly and a chuck for clamping the other end of said crystal assembly, said chuck having a single trunnion and said trunnion being covered by a rubber sleeve, said trunnion having thrust enlargements at each end, said chuck be-



ing adapted to carry a stylus and said rubber sleeve being placed under predetermined pressure by said clamping housing members whereby the stylus carried by said chuck may have a revolving movement in a vertical plane at its point, said chuck having its stylus supporting portion projecting through an aperture in the lower wall of said housing having a predetermined clearance with the stylus supporting portion of the chuck to prevent contact between these parts during reproduction, the sides of said aperture serving as stops to prevent excessive rotative movement of the chuck which might break a crystal.

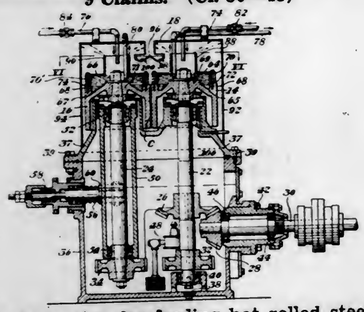
2,348,527
POUR CAP FOR BOTTLES
Georgia Darnell, San Diego, Calif.
Application November 17, 1941, Serial No. 419,487
3 Claims. (Cl. 65—31)

1. In a pouring cap for bottles and the like, an annular body having the bottom end open and a pouring opening in the top, an annular flange depending from the inner portion of the bottom end of the body adapted to fit within the mouth of a bottle, the said body having an annular



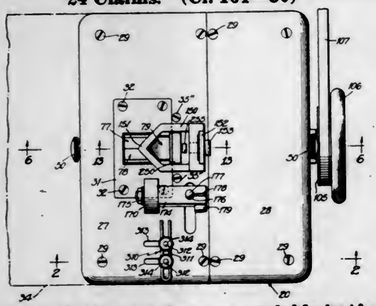
groove above the said flange, a resilient band encircling the lower exterior portion of the body and having a substantial portion depending therebelow to tightly embrace the exterior mouth portion of a bottle, and an annular rib at the top of the band projecting into and gripping the said annular groove to firmly attach the band to the body.

2,348,528
COOLING MEANS FOR ROLLS HANDLING HOT-ROLLED METAL STRIP
Alfred E. E. De Witz, Bedford, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application March 12, 1942, Serial No. 434,402
9 Claims. (Cl. 80—43)



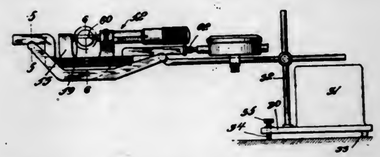
1. Apparatus for feeding hot rolled steel strip onto a run-out table, which comprises the combination with a pair of feed rolls adapted to engage a hot strip and to become heated thereby, of cooling means for the rolls comprising a cap mounted on the end of the roll defining with the roll a chamber adapted to contain water in heat exchange relation with the roll, means for introducing water into the chamber, means for controlling admission of water to the chamber for introducing the water into the chamber at a rate somewhat in excess of the rate of evaporation, outlet means for the water, causing the said water to be constantly withdrawn, whereby a substantially constant amount of water is retained in the cooling chamber, the said chamber having an outer wall adapted to retain a cooling cylinder of the water produced by centrifugal force of rotation of the roll, the said cylinder being located adjacent to the areas of maximum heating of the roll, and in heat exchanging relation thereto, whereby excessive heat is prevented from passing into the body of the roll, and means for preventing heated water being withdrawn from contacting with the hot strip being handled by the rolls, the said outlet means being positioned to continuously withdraw water from zones of maximum heat, thereby enabling continuous replenishment thereof with fresh cold water.

2,348,529
PINKING MACHINE
Karl A. Doehm, West New York, N. J., assignor to Samuel Briskman, New York, N. Y.
Application November 13, 1942, Serial No. 465,477
24 Claims. (Cl. 164—50)



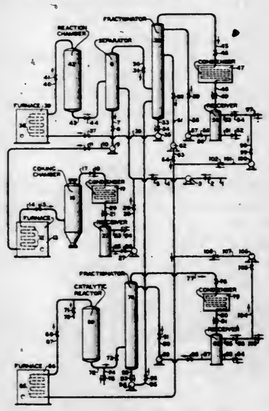
1. In a pinking machine, a revoluble knife carrier, a plurality of complete cutting units carried by and movable radially of the knife carrier, means for imparting an intermittent rotary movement to the knife carrier to move the cutting units successively to and from an operating position, means for operating the cutting units while in the said operating position to effect a cutting operation thereof, and means for feeding a material to be cut in a straight line in the path of the cutting units when the latter are in operating position.

2,348,530
GAUGE
Howard A. Droitcour, Cranston, and John M. Droitcour, Warwick, R. I.
Application February 2, 1942, Serial No. 429,209
6 Claims. (Cl. 33—185)



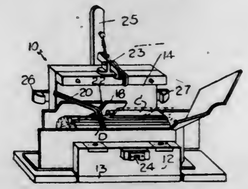
1. In a gauge, a carriage a standard calibrated micrometer, means for separably holding said micrometer in fixed relation to said carriage, a support for the carriage, along which the same may be moved and means fixed with relation to said support and responsive to the movement of the carriage to show the amount of movement of the carriage.

2,348,531
TREATMENT OF HYDROCARBONS
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 16, 1940, Serial No. 370,325
4 Claims. (Cl. 196—49)



1. A process for thermally and catalytically cracking, and coking a hydrocarbon oil to produce a substantial yield of high antiknock gasoline which comprises employing as charging oil a hydrocarbon oil having relatively heavy and high coke forming fractions and relatively lighter fractions comprising those within the gasoline boiling range and mixing said charging oil directly with cracked oil and gas obtained from thermal cracking of a relatively heavy reflux condensate fraction, separating therefrom a mixture of non-vaporous cracked and uncracked oil containing said relatively heavy and high coke forming fractions and a vaporous oil and gas, subjecting said mixture of non-vaporous oil to coking treatment to produce coke and a distillate oil, fractionating the said vaporous oil and gas to separate high antiknock gasoline and gas from a relatively light reflux condensate fraction and from the said relatively heavy reflux condensate fraction, condensing, cooling and separating said high antiknock gasoline and gas, directing the said relatively heavy reflux condensate fraction to said thermal cracking treatment and thermally cracking said fraction to produce said cracked oil and gas, directing said relatively light reflux condensate fraction to catalytic cracking treatment to produce cracked products containing substantial yields of high antiknock gasoline, fractionating said cracked products into vaporous high antiknock gasoline and gas, and a higher boiling hydrocarbon oil, condensing, cooling and separating said high antiknock gasoline and gas, and directing said higher boiling hydrocarbon oil directly into said vaporous oil and gas from thermal cracking and undergoing said fractionation.

2,348,532
METHOD OF PACKAGING STRAWS IN CARTONS
Burdette Richmond Farrand, Toronto, Ontario, Canada
Application June 13, 1942, Serial No. 446,982
In Canada May 6, 1941
4 Claims. (Cl. 226—2)

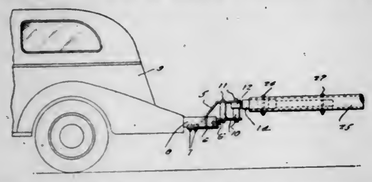


1. The method of packaging straws in cartons to urge said straws towards a discharge opening in the carton by means of a stretchable member passing from the interior of the carton and anchored on the outside of the latter, comprising encircling a bunch of straws with a stretchable member, attaching a pulling device to the stretchable member, placing said bunch in said carton when open, passing said pulling device through the carton to lie along its outside, closing and sealing the carton, and finally pulling said pulling device to draw a portion of the stretchable member to the outside of the carton and anchoring said stretchable member on the outside of the carton.

2,348,533
TRAILER HITCH
James A. Fears, Montgomery, Ala.
Application July 8, 1942, Serial No. 450,172
2 Claims. (Cl. 280—33.9)

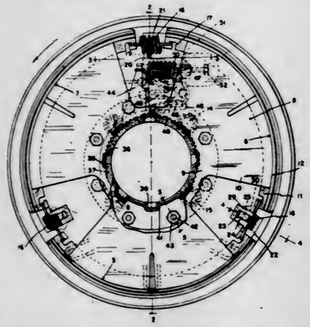
1. A trailer coupling comprising a pair of vertically spaced plates adapted for attaching to the rear bumper of a towing vehicle, one of said plates having a vertically extending portion positioned against the rear face of the bumper; a vertically arranged cylindrical spacing member between the plates, a connector having an eye

pivotally and slidably engaged with said spacing member between the plates, a rod projecting rearwardly from the connector, a pair of coil springs on the rod, a tubular member freely re-



ceiving the rod and springs, a transverse pin in said tubular member positioned between adjacent ends of the springs to provide an abutment therefor, and means for attaching the tubular member to a trailer vehicle.

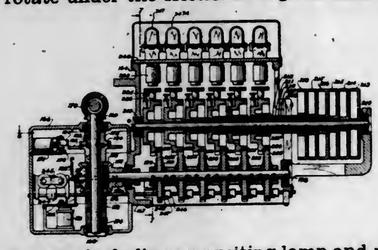
2,348,534
BRAKE
Phelps M. Freer, Detroit, Mich.
Application May 3, 1943, Serial No. 485,503
4 Claims. (Cl. 188—78)



1. In a brake, the combination with a backing plate, a brake drum, internal brake shoes, and a resilient disc for moving said shoes against said drum, said disc having an axially movable central portion and a radially movable outer portion, of mechanism for axially moving said central portion comprising an axially extending tubular member operatively connected to said central portion, an axially extending rotatable ring operatively connected to said tubular member and formed with cam means, stationary cam means on said backing plate cooperating with said first mentioned cam means to axially move said ring upon rotation thereof, a bracket secured to and extending generally radially from said ring, and a fluid pressure actuated device mounted on said backing plate and extending generally chordwise of the brake adjacent to said ring and having a piston operatively connected to said bracket and movable in a direction to rotate said ring.

2,348,535
ACCOUNTING APPARATUS
Charles J. Goodale, Falmouth, Mass., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y.
Application February 9, 1939, Serial No. 255,387
16 Claims. (Cl. 235—61.8)

1. In a record controlled accounting machine, an accumulator wheel, mechanism including a shaft frictionally connected to said wheel and electrically controlled instrumentalities for causing said shaft to move in a series of angular steps having ratios of one, two, two and five, magnetically controlled restraining means holding said accumulator wheel against movement and adapted, when retracted, to permit said accumulator to rotate under the frictional urge of said shaft,



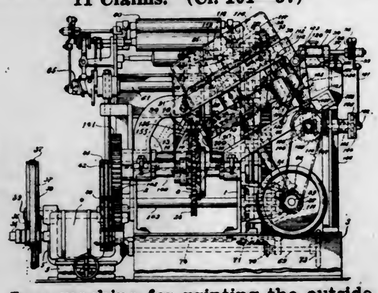
and means including an exciting lamp and photoelectric means for translating indicia on said record into electrical impulses for controlling the said rotation of said shaft and for controlling the retraction of said restraining means in unison with at least one of said steps to effect entries in said accumulator wheel.

2,348,536
ELECTRICAL INSULATION
Wallace E. Gordon, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 3, 1937, Serial No. 146,321
22 Claims. (Cl. 172—36)

1. An electrical conductor provided with an adherent continuous coating of synthetic linear crystalline polyamide.

16. A process for preparing an insulated electrical conductor, comprising coating a wire with a synthetic linear polyamide and then subjecting the coating to cold drawing.

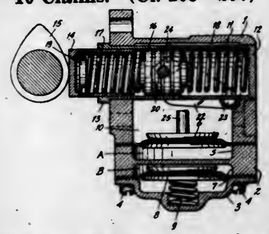
2,348,537
CRATE MARKING MACHINE
Henry B. Greenwood, Baltimore, Md., assignor to F. X. Hooper Company, Inc., Glenarm, Md., a corporation of Maryland
Application September 18, 1943, Serial No. 502,869
11 Claims. (Cl. 101—37)



1. In a machine for printing the outside surfaces of trough-like members, each having a flat

elongated central portion and two similarly elongated flat sides, inclined outwardly from said central portion, the combination of a table having three elongated guides, including a central guide which is horizontal in transverse section, the other two guides being outwardly disposed at each side of said central guide to conform to and support the sides of said troughs, said table extending backwardly through the machine, means for retaining a stack of said troughs on said table at the front of the machine and means for feeding the troughs from the bottom of said stack along said table and rearwardly through the machine with the central elongated portion of each trough in a plane which is horizontal in transverse section, the inclined sides of said troughs being correspondingly disposed on the sides of said table, a printing roller rotating in an upright plane, in printing relation to the horizontal center portion of the troughs on said table, means for inking said roller and rotating the same in printing contact with the central portions of said troughs as they are advanced and a second printing roller mounted to rotate in a plane at right angles to one inclined side of said table and said troughs as they are advanced, means for rotating said second roller in time with the feed and in contact with said inclined side of each trough and means for inking the inclined roller as it is rotated.

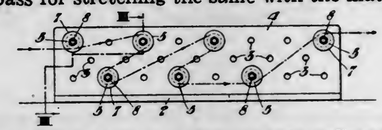
2,348,538
FUEL PUMP
Karl R. Hagen, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application July 1, 1942, Serial No. 449,224
10 Claims. (Cl. 103—207)



1. A pump comprising a casing having an expansible chamber and inlet and outlet passageways communicating with said chamber, a diaphragm forming a movable wall for said chamber, and means for reciprocating said diaphragm to successively increase and decrease the volumetric content of said chamber, said means including a member operatively connected to said diaphragm and reciprocable in said casing in a direction transverse to the direction of reciprocation of said diaphragm, a spring for moving said member in one direction, and a rotary cam for moving said member in the other direction against the pressure of said spring, and manually operable means for moving said member in said other direction against the pressure of said spring in all positions of said rotary cam.

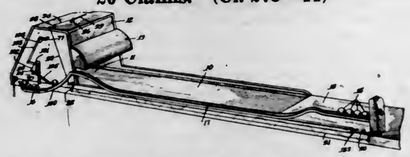
2,348,539
DEVICE FOR STRETCHING METALLIC STRIP MATERIAL
Arthur C. Harper, Jr., Brecksville, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 6, 1941, Serial No. 422,018
4 Claims. (Cl. 153—54)

1. A device for stretching metallic strip material comprising a frame having a plurality of rows of holes arranged therein throughout the length thereof with the holes in one row being staggered relative to those in an adjacent row, and a plurality of flanged rollers rotatably arranged on one side of said frame which may be removably assembled in any one of said holes so as to provide any desired arrangement of said rollers over which the strip material is adapted to pass for stretching the same with the material



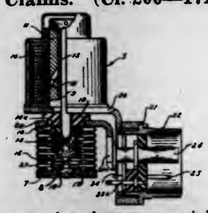
adapted to pass over and around the rollers from one end of said frame member to the opposite end thereof, a portion of each of said rollers being greater in diameter than the remaining portion thereof whereby the greater diameter portions of the rollers stretch and elongate that portion of the strip longitudinally thereof which passes over said greater diameter portions when back tension is applied to the strip as it is pulled over and around the rollers.

2,348,540
AUTOMATIC BOWLING ALLEY
Ernest Hedenskoog, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application June 19, 1942, Serial No. 447,621
20 Claims. (Cl. 273—44)



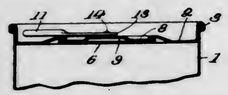
1. In a bowling alley, a bowling pin, a latch device in the alley operative to hold the pin in position for play, a platform above the pin, a shouldered rod connected to the pin and extending through said platform, and a spring on said rod compressed against the shoulder thereof and reacting against the platform when the pin is latched to the alley, said spring expanding to lift the pin when it is released from the latch.

2,348,541
RELAY
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application July 7, 1942, Serial No. 450,039
4 Claims. (Cl. 200—171)



1. A switch mechanism comprising a plunger, a contact member on said plunger, a stationary annular conductor ring surrounding said plunger, and a flexible metallic bellows surrounding said plunger and constituting an electrical connection between said movable contact member and said stationary conductor ring.

2,348,542
KEY OPENING SHEET METAL CONTAINER
William W. Hodgson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 8, 1942, Serial No. 446,219
1 Claim. (Cl. 220—52)

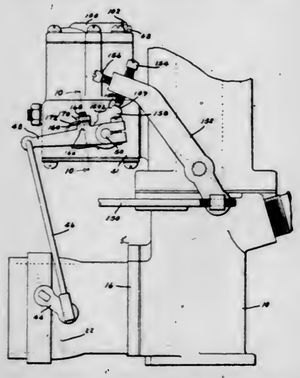


A sheet metal key opening container including a closure end of black plate, said closure end having a circular depression formed therein centrally thereof, a key attaching tin coated disk located in said depression, the wall of said depression being deformed inwardly so as to overlie the disk and permanently connect said disk to the closure end, said disk having a raised portion lying substantially in the plane of the upper surface of the deformed portion of the closure, a key for opening the container overlying said deformed portion of the closure end and said disk and solder bonded to said disk.

2,348,543
TREATMENT OF HYDROCARBONS
Harley R. Johnson, Tulsa, Okla.
No Drawing. Application October 17, 1941, Serial No. 415,382
8 Claims. (Cl. 196—28)

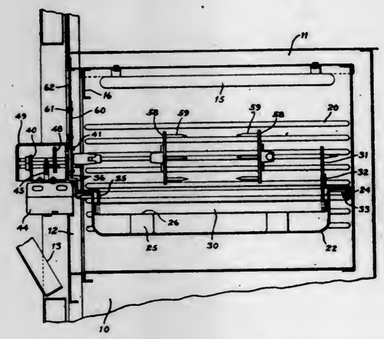
1. A process for refining a hydrocarbon oil to desulfurize it which comprises treating said oil with a contact agent comprising essentially chalk at a temperature in excess of about 500° F. but under conditions such that substantial cracking does not occur.

2,348,544
AUTOMATIC CHOKE MECHANISM
Clarence H. Jorgensen, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Continuation of application Serial No. 56,605, December 30, 1935. This application October 23, 1939, Serial No. 300,838
33 Claims. (Cl. 123—119)



1. An automatic choke mechanism for the charge forming device of an internal combustion engine having an intake manifold provided with a heating chamber for heating the combustible mixture supplied to the engine, and comprising, in combination, a mixture proportioning means, a control unit for operating said mixture proportioning means and including a housing, thermally responsive means in said housing adapted to operate the mixture proportioning means, suction operated element adapted to move the mixture proportioning means, and adjustable means to limit the movement of said suction operated means in one direction of movement, said means comprising an angular member connected to the suction operated element and an adjustable stop member engaging said angular member.

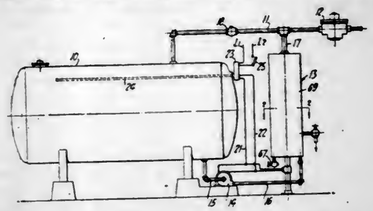
2,348,545
ROASTER FOR STOVES
Bertrand B. Kahn, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio, a corporation of Ohio
Application May 15, 1941, Serial No. 393,607
12 Claims. (Cl. 99—421)



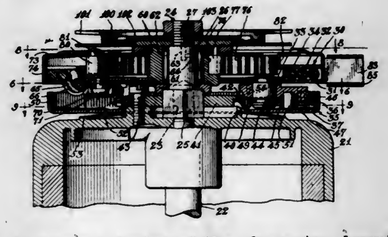
1. A roasting device of the character described for use in an oven comprising a pan having a marginal flange adapted to be received in predetermined position within an oven compartment and supported at its sides by said marginal flange upon the oven walls, and a unitary rotary spit assembly detachable from said pan as a unit including a frame member removably received on and supported by said pan, means for securing said frame member in operative position upon said pan in engagement with said marginal flange on the ends of the pan and adapted for removal by direct upward lift therefrom, a drive mechanism carried by said frame and overhanging the pan to be positioned outwardly of the oven compartment in the operative position thereof, a spit operatively connected with said drive mechanism, and means for supporting said spit upon said frame for rotary movement within said oven compartment.

2,348,546
FUEL GAS DISPENSING APPARATUS AND METHOD
Arthur J. Kercher, Berkeley, Calif.
Application January 13, 1942, Serial No. 426,637
6 Claims. (Cl. 62—1)

1. In apparatus for dispensing volatile liquefied fuel gases like butane from storage tanks, a service pipe connected to the upper portion of the tank for delivering fuel gas from the tank to a point of demand, a liquid pump having its inflow side connected to the lower portion of the tank, a vaporizer connected to the discharge side of the pump, a vapor flow connection between the vaporizer and the service pipe, and means automatically operative responsive to cooling of the storage tank below a predetermined temperature for operating said pump.

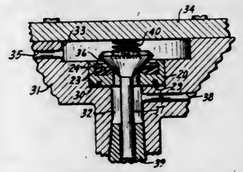


2,348,547
STARTING DEVICE
William L. Kissel, Hartford, Wis., assignor to B. M. Kissel, doing business as Kissel Industries, Hartford, Wis.
Application January 9, 1941, Serial No. 373,708
30 Claims. (Cl. 185—41)



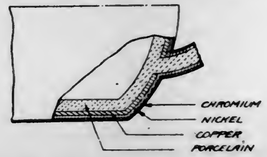
1. A starting device of the character described comprising, in combination, a member rotatable with the motor, a manually actuated rotatable member, frictional means carried by one of said members for connecting the two members when the manually actuated member is rotated, an auxiliary frictional means carried by the same member as carries the first-mentioned frictional means for disconnecting said first-mentioned frictional means upon starting of the motor.

2,348,548
FLUID VALVE
Gustave J. Koehler, Dayton, Ohio
Application August 5, 1942, Serial No. 453,629
3 Claims. (Cl. 251—167)



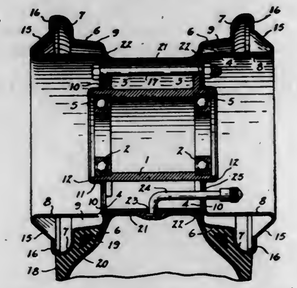
1. A removable valve seat comprising a cylindrical body portion having a central boring and a counter-boring therein; a plastic washer in the counter-boring; and a washer retaining element in the counter-boring, said body portion adjacent the counter-boring being crimped or spun over the retaining element to cause said element to firmly press the washer against the bottom of the counter-boring in such a manner as to form a valve-seating surface out of the periphery of the hole in said plastic washer.

2,348,549
ELECTROPLATED RECEPTACLE
George Konstantin Pontus Kraft, Stockholm, Sweden
Application April 6, 1943, Serial No. 482,067
In Sweden December 12, 1940
1 Claim. (Cl. 220—64)



A receptacle having an integral body and a handle of vitreous material for holding hot liquids, said body only being provided with an electrodeposited protective coating of copper while said body and handle are covered with an electrodeposited coating of at least one metal selected from the group consisting of nickel and chromium, at least the outermost of these layers forming a coherent continuous covering of metal for the outer surface of said body and handle; the absence of copper in the covering on the handle causing said handle to remain cool when a hot liquid is placed in said receptacle.

2,348,550
WHEEL
Herman T. Kraft and Joseph Ian Kozopas, Akron, Ohio, assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application October 11, 1941, Serial No. 414,658
8 Claims. (Cl. 301—6)

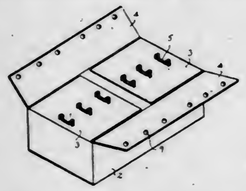


1. A wheel comprising a hub and a tire supporting body provided with a radial load carrying disk on one end of the hub having an integral tire bead flange at its outer periphery, a braking drum having an inturned flange disposed against said disk and an integral outturned flange overlapped with the tire bead flange, and a reinforcing member having connection with the hub and with the disk adjacent the outermost part of the latter.

2,348,551
PACKAGING
Desmond R. La Place, Pittsburgh, Pa., assignor to Bocjl Corporation, Pittsburgh, Pa., a corporation of Delaware
Application April 9, 1941, Serial No. 387,561
7 Claims. (Cl. 229—47)

1. A carton having inwardly folding end flaps and inwardly folding side flaps, the end flaps having double-lobed staples thereon arranged in

a row with the respective lobes thereof at opposite sides of the line along which the side flaps



meet when they are folded in, each of the side flaps having a row of holes therethrough positioned to register with said lobes.

2,348,552

TEXTILE FIBER AND METHOD OF PRODUCING

Julius G. Little, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 27, 1941, Serial No. 385,468

12 Claims. (Cl. 117—168)

1. The method of sizing textile fibers prior to weaving which comprises treating the fiber with a composition comprising mineral oil and a glycol ester of a rosin, said ester having a melting point within the range of about 25° C. to about 70° C., the proportion of mineral oil to the said ester being from about 25 to about 95% mineral oil and about 75 to 5% of the said rosin ester.

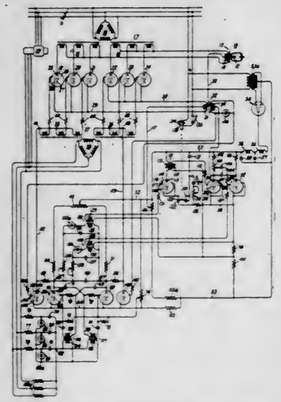
2,348,553

ELECTRIC CONTROL CIRCUIT

Orrin W. Livingston, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application April 23, 1942, Serial No. 440,159

37 Claims. (Cl. 172—281)



37. A system for supplying current to welding material comprising a single phase welding transformer having a secondary winding connected to supply current to the material and a primary winding, a source of polyphase alternating current, an electric valve frequency changer interconnecting said source and the primary winding of said welding transformer and including a plurality of electric valve means, control electrodes for controlling the conductivities of said electric valve means to determine the frequency of the single phase current supplied to said welding transformer from said polyphase alternating current source, means for impressing a periodic voltage on said control electrodes for determining the frequency of the current supplied to said welding transformer, means for supplying a second voltage component to said control electrodes having the frequency of said supply circuit for determining the instant in the voltage wave of said supply circuit that said electric valve means are rendered conductive to control the magnitude of the current supplied to said welding transformer, means for modifying said last mentioned excitation voltage to vary the instant in the voltage wave of said source that said valve means are rendered conductive to vary the magnitude of the current supplied to said welding transformer, and timing means for controlling the energization of said control electrodes to render all of said electric valve means intermittently nonconductive to effect intermittent energization of said welding transformer.

2,348,554

ARTICLE OF FURNITURE

Joseph S. McInnis, Chicago, Ill., assignor to Great American Furniture Corporation, Chicago, Ill., a corporation of Illinois

Application October 18, 1943, Serial No. 506,649

2 Claims. (Cl. 211—148)



1. An article of furniture comprising a plurality of legs, each of said legs formed of a base section having a bore, a dowel permanently secured within said bore, a shelf resting on the top of said base and surrounding said dowel, a sleeve on said dowel, a top member surrounding the upper portion of said dowel and resting on said sleeve, a knob carrying a threaded screw secured to the top of said dowel for maintaining the parts in assembled relation.

2,348,555

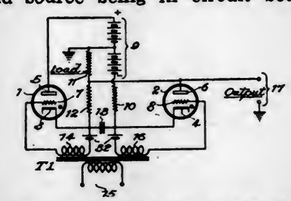
IONIC RELAY CIRCUIT ARRANGEMENT

Richard E. Mathes, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 5, 1942, Serial No. 429,649

8 Claims. (Cl. 250—27)

8. A wave shaping circuit arrangement comprising two gaseous discharge tubes each having a cathode, an anode, and a control grid, means including separate input circuits for said tubes whereby one tube is caused to be ignited upon arrival of a positive signal wave front, and the other tube is caused to be ignited upon arrival of a negative signal wave front, a source of direct current potential having a grounded neutral tap, said source being in circuit between the



cathode of one tube and the anode of the other tube, a load interconnecting the anode of said one tube and said neutral tap, a resistor in series with the space path of each tube, and capacitive means operable in response to variations of potential drop through said resistors for causing each tube when it becomes ignited to extinguish the other.

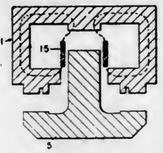
2,348,556

MAGNET STRUCTURE

Lynn H. Matthias, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin

Application November 5, 1941, Serial No. 417,907

3 Claims. (Cl. 200—94)



1. In a magnetically operated electric switch the combination comprising a field piece and support, a coil, an armature movable to and from open and closed positions with respect to said field piece and biased to open position, a pair of contacts one being associated with said armature for movement thereby, the other being associated with said field support, said pair of contacts being adapted for yielding pressure engagement throughout a portion of the travel of the armature adjacent the closed position thereof, and a magnetic by-pass disposed along side of a portion of the path of travel of the inner end of said armature adjacent the open position thereof for diminishing the attractive force exerted upon said armature when in open position, said by-pass terminating short of that part of travel of said armature within which said contacts are in engagement so as to render said by-pass ineffective to diminish the attractive force exerted upon said armature while said contacts are in engagement.

2,348,557

TREATMENT OF HYDROCARBON DISTILLATES

William J. Mattox, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 17, 1940, Serial No. 361,583

8 Claims. (Cl. 196—50)

1. A process for improving the antiknock characteristics of hydrocarbon distillates comprising gasoline fractions containing naphthenes having five carbon atoms in the ring, which comprises subjecting the hydrocarbon distillate to the action of hydrogen at hydrogenating conditions of temperature, pressure and space velocity, and in the presence of a hydrogenating catalyst to convert said naphthenes into open-chain, aliphatic hydrocarbons, and subjecting the resultant conversion products to reforming in the presence of a dehydrogenating catalyst.
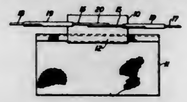
2,348,558

WIRE CONNECTING DEVICE

Orwar S. A. Mesch, St. Albans, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 20, 1942, Serial No. 462,703

6 Claims. (Cl. 174—84)



1. A device to be wrapped around wires to electrically connect and hold the wires in electrical connection, said device being manually operable to form the electrical connection without the aid of a mechanical tool and comprising, in combination, a manually flexible strip of conducting material and a larger strip of manually flexible electrical insulating material having self-adhering qualities and in which only a single edge portion of said larger strip is secured to a single edge portion of said strip of conducting material and the point of securement of said strips is in the central portion of the connected edge portion of said larger strip.

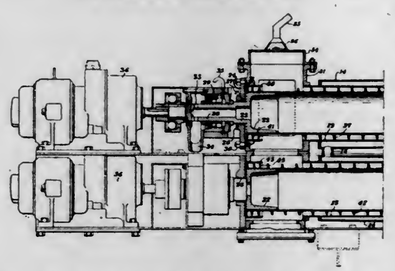
2,348,559

COOLING APPARATUS

Joseph H. Morrow, Hokendauqua, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware

Application July 3, 1941, Serial No. 401,053

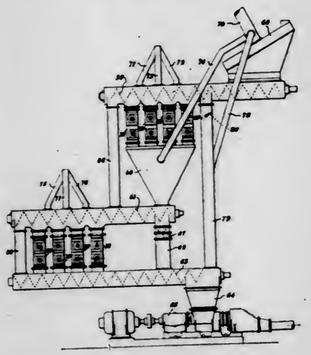
6 Claims. (Cl. 34—92)



1. In an apparatus for treating freshly ground cement as it is delivered from the grinding mills in a hot condition which comprises the combination of front and rear spaced headers having an opening in one side, a casing supported by the headers and communicating therewith through the openings, a jacket surrounding the casing intermediate the headers, a hollow shaft within the casing and headers, means rotatably supporting the shaft, said shaft being of less diameter than the casing to provide an annular space for the material to be treated, means for directing a cooling medium through the jacket and hollow shaft to cool the casing and hollow

shaft, feed means communicating with the upper portion of the front header, a screw mounted on the outer surface of the hollow shaft to advance the material to the rear header as a substantially thin bed through the annular space in contact with the casing and hollow shaft, a discharge port in the lower portion of the rear header, power means to rotate the shaft, means sealing the upper portion of the rear header and means connecting the front and rear headers to a source of vacuum whereby water vapors appearing during treatment are removed from the device.

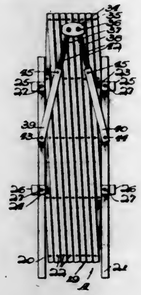
2,348,560
COOLING APPARATUS
Joseph H. Morrow, Hokendauqua, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware
Original application July 3, 1941, Serial No. 401,053. Divided and this application March 2, 1944, Serial No. 524,757
6 Claims. (Cl. 34—180)



1. An apparatus for treating pulverulent, granular and crushed material comprising a first series of material-treating units, means for feeding material to be treated to the units of said first series, a second series of material-treating units, feed means for feeding material to be treated to said second series of units, a receiver for material treated in said first series of units, a receiver for material treated in the second series of units, a passage connecting the material receiver for the first series of units with the material receiver for the second series of units, a passage connecting the material receiver for the first series of units with the feed means for the second series of units, and means for closing one of said passages to cause the material from the receiver for the first series of units to pass through the other of said passages.

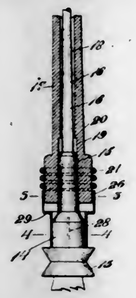
2,348,561
PORTABLE GATE
James B. Mutch, Rochester, N. Y., assignor to Wood Items, Inc., Rochester, N. Y., a corporation of New York
Application November 11, 1943, Serial No. 509,887
10 Claims. (Cl. 160—138)

1. A collapsible and expansible gate comprising rigid upright supporting end members and an intermediate flexible portion pivotally connected to the supporting end members, means pivotally connected to the end members including oppositely disposed spring actuated telescoping elements, and an operating member pivotally con-



nected to the spring actuated telescoping members movable to actuate the latter to contract and expand the gate.

2,348,562
WASTE GUARD
John Nimmo, Norwich, Conn.
Application November 3, 1943, Serial No. 508,825
3 Claims. (Cl. 57—130)



1. In combination a spindle having a bobbin engaging surface, a bobbin having a bore to receive said spindle with a portion thereof to engage and fit said surface to provide a driving connection therewith and a collar to extend about said spindle at a position below said bobbin to prevent yarn as wound on the bobbin from winding and collecting on the spindle, said collar having a resilient portion of a diameter to frictionally engage said spindle and rotate therewith.

2,348,563
WELL TOOL
Herbert C. Otis, Dallas, Tex.
Application August 2, 1940, Serial No. 349,772
17 Claims. (Cl. 294—116)

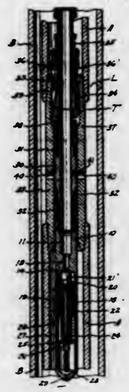
17. In a running tool for well devices, the combination of an elongate support, a supporting element movably mounted on said support in position for engaging over a projection on a well device to be lowered or raised in a well bore, said element being normally resiliently positioned so as to yield outwardly and to automatically move inwardly into engaging position when moved onto such a well tool, means carried by the support adjacent said element and extending below said element for engaging such a well device for supporting the tool in engaging position thereon,

and means on the support mounted to co-act with said resiliently positioned element to posi-



tively move said element to release it from a well tool, upon the application of a downward force on said support.

2,348,564
WELL DEVICE
Herbert C. Otis, Dallas, Tex.
Application August 2, 1940, Serial No. 349,773
18 Claims. (Cl. 103—232)

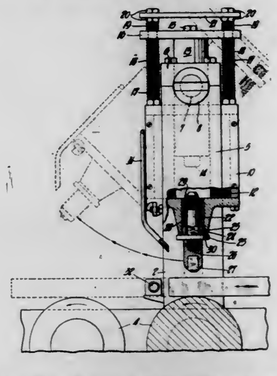


1. A flowing well control device wherein a tubing mounted in a well casing has a fluid inlet at its lower end, including in combination, a valve normally biased to open position mounted in the tubing string and responsive to the pressure differential thereacross for controlling the flow of well fluids upwardly through the tubing, means for establishing a predetermined pressure differential across the valve to maintain the valve in its open position permitting an upward flow through the tubing string, and a fluid inlet to the tubing above the valve restricted to admit a reduced flow of fluid from the casing into the tubing, said fluid inlet constantly admitting fluid, regardless of the position of the valve, the admitted flow acting on the valve to vary the predetermined differential to effect actuation of said valve to closed position.

2,348,565
TERPENE RESIN
Emil Ott, Elsmere, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 14, 1941, Serial No. 398,061
18 Claims. (Cl. 260—80)

1. The process which comprises copolymerizing a mixture consisting of a terpene and an alicyclic hydrocarbon containing a conjugated system of double bonds having between 5 and 8 carbon atoms, both of which reactants are dissolved in an inert solvent, in the presence of a catalyst active at the polymerization temperature, at a temperature between about —60° C. and about 200° C. whereby a resinous product is obtained characterized as being alkali resistant and having a melting point between about 58° C. and about 134° C.

2,348,566
APPARATUS FOR MARKING BILLETS AND THE LIKE
Martin S. Papazian, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application June 9, 1943, Serial No. 490,203
8 Claims. (Cl. 101—3)

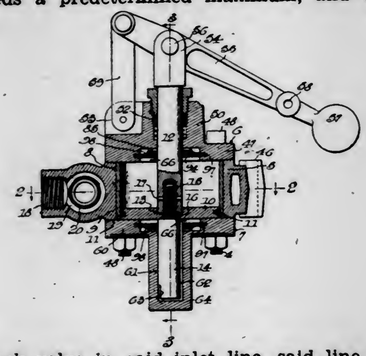


1. Apparatus for marking billets and similar articles as they are conveyed along including, a head suspended for a limited swinging movement above the path of travel of the articles to be marked, a marking punch reciprocably arranged on said head, means carried by said head for forcing said marking punch into engagement with the articles to be marked, and means for returning the punch to its normal position in said head after the stamping or marking operation, said head together with the marking punch carried thereby adapted to be swung outwardly in the direction of travel of the articles to be marked by the movement of the same when said marking punch is forced into engagement with an article and adapted to be returned to its normal position due to the force of gravity.

2,348,567
FUEL PUMPING UNIT
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application January 10, 1941, Serial No. 374,001
12 Claims. (Cl. 103—42)

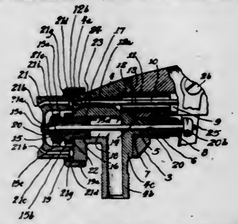
1. In a liquid fuel pumping unit, a reciprocatory pump, an inlet line leading to the pump,

inlet and outlet check valves for controlling the flow of liquid fuel into and from the pump, a duct having a relief valve therein and communicating between the outlet and inlet valves of the pump, said relief valve being responsive to liquid fuel pressure in said duct for by-passing liquid fuel back to the inlet valve whenever discharge pressure of liquid fuel in said duct exceeds a predetermined maximum, and a line



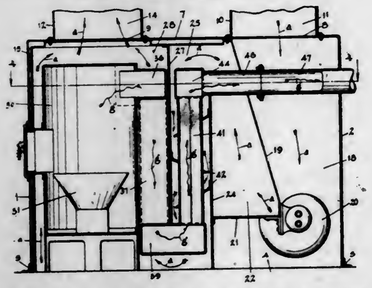
check valve in said inlet line, said line check valve, said relief valve and said inlet check valve being closely related and in mutual communication whereby a priming of liquid fuel will be trapped between said relief valve said inlet check valve and said line check valve following each operation of the pump, thereby to assure delivery of a fuel charge volume of liquid fuel by said pump on each pressure stroke thereof.

2,348,568
SPRAY GUN
Ralph Richard Pellar, Chicago, Ill.
Application December 11, 1941, Serial No. 422,481
6 Claims. (Cl. 299—140.1)



1. A spray-gun, comprising a body having an air chamber extending longitudinally therethrough and a peripheral shoulder at its forward end, said shoulder having a depending portion with a longitudinally extending opening therethrough and a downwardly extending projection below said opening, the axes of said chamber and opening being in the same vertical plane; a spray-head having an air passage in its upper portion extending longitudinally therethrough in axial alignment with said air chamber and a rearwardly extending stem in axial alignment with said opening and adapted to extend therethrough, the rear of said spray-head in other respects conforming to the front of said body; means connecting said body and said spray-head through said air chamber and the corresponding air passage in said spray-head; means adapted to engage the end portion of said stem and the rear surface of said projection to secure said body and said spray-head together in substantially airtight relationship; said stem having a longitudinally extending opening therethrough in which a needle may be movably mounted; said spray-head having a material chamber with an outlet having its axis in alignment with the axis of the opening in said stem and adapted to receive a nozzle; said spray-head also having in its face an annular air channel co-axial with said outlet and communicating with said air passage; a nozzle adapted to be seated in said outlet having a central longitudinally extending opening adapted to receive said needle with a constricted forward portion adapted to seat the forward portion of said needle and a cylindrical outlet; the external surface of said nozzle being cylindrical in its forward portion and polygonal in its middle portion and having an annular channel therebetween; an air-cap having a central material orifice of slightly greater diameter than the cylindrical outlet of said nozzle, and a plurality of supplemental air ports spaced therefrom in opposed relation, each of said supplemental air ports communicating with a circular groove in the rear surface of said air cap defined by two concentric annular, longitudinally extending flanges thereon co-axial with said orifice, said flanges being adapted to seat against the forward portion of said spray-head, and the outer flange extending radially to form a peripheral flange; said air-cap also having an internal annular flange co-axial with said orifice adapted to be mounted upon the cylindrical portion of said nozzle and having circumferentially spaced longitudinal openings therethrough; said air-cap having a central opening in its rear portion whose diameter is coextensive with the outer diameter of said air channel; and means for securing said air cap in substantially airtight relationship to said spray-head; the conformation of the parts being such as to provide simultaneously for the creation of an airstream about the outlet of said nozzle and supplemental airstreams converging upon said first airstream in advance of said outlet without substantial leakage of air through the connections of said parts.

2,348,569
HOT-AIR FURNACE
Otto A. Peters, Toledo, Ohio
Application December 30, 1941, Serial No. 424,913
2 Claims. (Cl. 126—108)



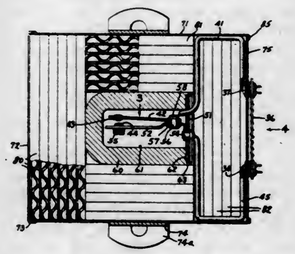
1. In a hot-air furnace having a plurality of air confining, intercommunicating and sequentially adjoining chambers the endmost one of which has an opening to receive air from the exterior of the furnace and the other endmost chamber containing the source of heat and having an opening to discharge air to the exterior of the furnace, said source of heat comprising a combustion drum in which fuel may be ignited and burned, the combination therewith of a heat conductive, integrated shell, the shell having certain walls defining a laterally extending header, the interior of which communicates with the interior of the combustion drum, other walls depending from said laterally extending header and defining a pair of parallel ducts communicating with said header, other walls extending substantially at right angles to the duct walls to form a box communicating with said ducts, other walls extending vertically and parallel to said ducts to form a plurality of vertically extending, parallel passageways communicating with said box and of a number greater than the number of aforesaid ducts, other walls extending at right angles to the passageway walls defining a manifold communicating with the aforesaid passageways, and other walls defining a tail pipe communicating with the aforesaid manifold whereby the products of combustion from the aforesaid drum pass successively through the aforesaid header, ducts. box, passageways, manifold and tail pipe; the ducts being spaced with respect to the passageways to dispose the ducts in one of said chambers proximate to said drum and dispose the passageways in another chamber more remote from said drum, whereby the air moving through said chambers is progressively heated by contact with said passageways and ducts heated by the products of combustion passing therethrough.

2,348,570
CONVERTIBLE LIFE RAFT AND BOAT
Franz Plunder, Annapolis, Md.
Application December 30, 1943, Serial No. 516,300
14 Claims. (Cl. 9—11)



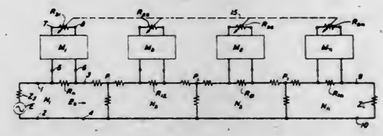
1. A convertible life boat and raft, comprising, a main floatation body having a well therein, a platform in said well, and releasable means for sealing said platform and said body together, whereby to prevent water from entering upwardly between said body and platform.

2,348,571
GENERATOR VOLTAGE REGULATOR
William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 26, 1941, Serial No. 420,571
5 Claims. (Cl. 201—48)



1. A temperature-responsive unit for use with a storage battery and comprising a thermal switch, a heat absorbing body enclosing the switch, said body having an effect upon the thermal switch simulating the thermal effect of the elements of a storage battery upon a thermal switch located within the battery, and a heat-transfer-retarding jacket enclosing the body and having an effect upon the thermal switch simulating the thermal effect of the walls of a storage battery case upon a thermal switch located within the battery, a resistance unit supported outside the jacket and connections for connecting the resistance unit in the circuit of the thermal switch.

2,348,572
VARIABLE ATTENUATION NETWORK
Paul H. Richardson, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 20, 1943, Serial No. 476,512
13 Claims. (Cl. 178—44)



1. In combination, a plurality of tandem connected variable attenuation equalizer sections each comprising terminal impedances and an interposed variable impedance, each of said interposed impedances comprising a fixed resistor in combination with a subsidiary four-terminal network terminated by a variable resistor of value R, said subsidiary network having an image impedance R_o which is a constant resistance and an image transfer constant Ψ the attenuation constant of which is independent of frequency and the phase constant of which is proportional to frequency, in each of said equalizer sections the component impedances being so proportioned with respect to each other that the insertion factor e^{θ} for transmission between said terminal impedances may be expressed by the equation

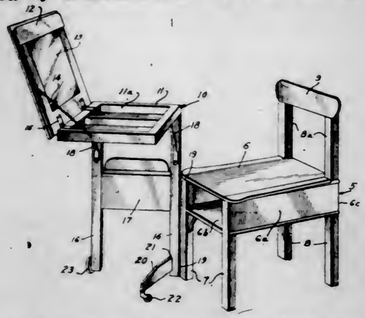
$$e^{\theta} = e^{\theta_0} \frac{1 + x \dfrac{e^{\theta_0} + \tanh \Psi}{1 + e^{\theta_0} \tanh \Psi}}{x + \dfrac{e^{\theta_0} + \tanh \Psi}{1 + e^{\theta_0} \tanh \Psi}}$$

wherein x is the ratio of R to R_o and e^{θ_0} is the insertion factor for said equalizer when x is unity and said phase constants of said subsidiary networks being integrally related to each other.

2,348,573
COMBINATION TABLE
Yubie William Rogers, St. Louis, Mo.
Application November 14, 1941, Serial No. 419,067
2 Claims. (Cl. 155—128)

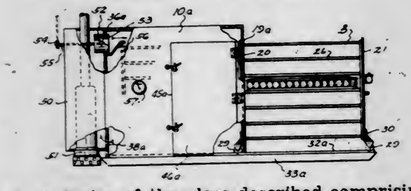
1. In a device of the kind described, a chair element including a seat, four legs and a back, and a table element including a horizontal top piece of substantially the same shape and area as the chair seat, and a pair of table legs at one end of the top piece, these legs being spaced apart to correspond with the lateral spacing of the chair legs, and hinge connections between a frontal chair leg and a table leg, whereby the elements may be either closed together to serve as and for a center table alone, or may be opened apart to serve as a table and attached chair, the chair seat being of box type and open at its

frontal side, and the pair of table legs being connected by a medial panel aligned horizontally



with and adapted to close over the open front of the box chair seat, when the elements are closed together.

2,348,574
STERILIZING VAULT
Thomas D. Ross, Dallas, Tex.
Application May 11, 1942, Serial No. 442,461
6 Claims. (Cl. 21—96)

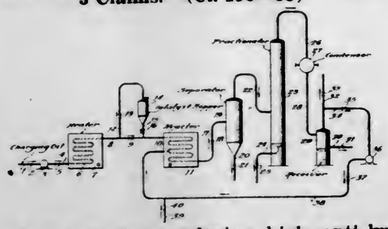


1. A device of the class described comprising a vault, rails supporting the vault, the front wall of the vault having an opening therein, a rack including end plates, said plates being of greater area than said opening, bars rigidly connecting said plates, said plates being adapted to alternately engage the opposite sides of the front wall upon moving the rack in said opening, a heat confining chamber, one wall of the vault forming the front wall of the chamber and having upper and lower openings therein affording communication between the vault and chamber, a tubular duct in the upper opening, a fan in the duct, a baffle plate adjacent the duct to force heated air from the duct upwardly in the vault upon operation of the fan, said fan serving to draw air from the vault into the chamber and force the same from the duct, means for heating air in the chamber during circulation thereof, and rollers carried by the rack for engaging the rails.

2,348,575
TERPENE DERIVATIVES
Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1941, Serial No. 396,215
16 Claims. (Cl. 260—16)

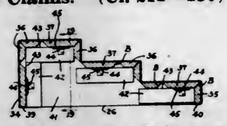
1. A reaction product of a polyhydric alcohol and a condensation product of maleic anhydride with a material selected from the group consisting of the monomers and polymers of acyclic terpenes having three double bonds per molecule, said esterification reaction being carried out in the presence of heat at a temperature from about 150° C. to about 325° C.

2,348,576
CONVERSION OF HYDROCARBONS
Jean Delattre Seguy, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 13, 1940, Serial No. 334,976
3 Claims. (Cl. 196—53)



1. A process for producing high anti-knock gasoline of relatively low olefin content which comprises introducing hydrocarbon oil heavier than gasoline and a powdered cracking and hydrogenating catalyst to a reaction zone, maintaining said zone under catalytic cracking and hydrogenating conditions of temperature and pressure and passing the hydrocarbons and powdered catalyst therethrough from one end thereof to the other, cracking a substantial portion of the oil into olefinic gasoline in the substantial absence of added hydrogen in the portion of said zone adjacent the inlet end thereof, introducing hydrogen at an intermediate point in the reaction zone to commingle with the olefinic reaction products of said cracking, and effecting substantial olefin saturation during the passage of the hydrocarbons and hydrogen through the remaining portion of the reaction zone.

2,348,577
COUNTER FIXTURE
Jacob Perry Smith, Canton, Ohio, assignor to Old King Cole Incorporated, Canton, Ohio, a corporation of Ohio
Application January 18, 1944, Serial No. 518,735
8 Claims. (Cl. 211—130)

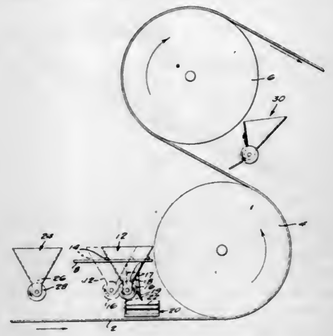


5. An adjustable counter fixture comprising an apron formed of a plurality of juxtaposed slats, means flexibly connecting the slats together at their adjoining edges so that the apron may be folded to form a corner at any joint throughout its width so as to produce any one of a number of contours, end pieces shaped to conform to the contour to which the apron is folded, shoulders upon the inner surfaces of the end pieces spaced from the edges thereof a distance equal to the thickness of the slats and cooperating means upon the shoulders and upon certain of the slats for detachably connecting the end pieces to the apron.

2,348,578
METHOD AND APPARATUS FOR SURFACING SHEET MATERIAL
John A. Soissa, Savannah, Ga., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
Application March 20, 1940, Serial No. 324,970
7 Claims. (Cl. 117—19)

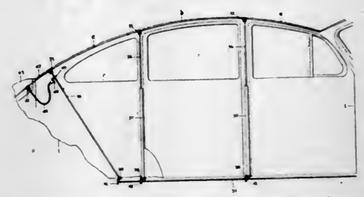
2. The method of surfacing a web which comprises moving in the direction of its length a web

capable of bonding granular material to a face thereof, feeding granular material from a supply to said face of the web in excess of the quantity required to cover and adhere to said face of the web, returning to said supply in a given path of flow the excess of said granular material from said face of the web, moving said supply out of



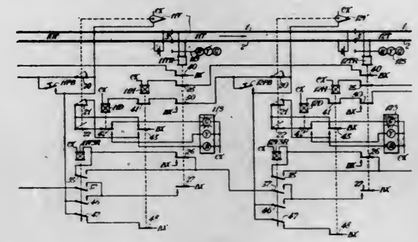
said path of flow of said excess granular material, and initiating feed of granular material of different color toward said face of said web from an auxiliary supply at a time before said first supply becomes exhausted which prevents substantial overlap of or space between the differently colored granular surfacings on said web.

2,348,579
DETACHABLE COVER FOR VEHICLES AND THE LIKE
Faustino José Fernández Solis, Habana, Cuba
Application September 26, 1942, Serial No. 459,812
In Cuba September 29, 1941
4 Claims. (Cl. 296—137)



1. A detachable cover for vehicles, comprising a plurality of sections made of two sheets of transparent material joined at their edges to provide an inner space between them, the sections being provided at the side joints of their sheets with thickened edges and at the end joints with opposed connection surfaces beyond said end joints, rack bars fixed along the side joints of the two sheets of the sections, longitudinal channels fixed to the sides of the vehicle frame to serve as a support and a guide for the thickened side edges of the cover sections, means for automatically injecting into the inner space of the cover sections a colored fluid apt to render the cover opaque, said means being mounted at one side of the vehicle body to be automatically operated as each section moves forwardly, and driving means mounted at the sides of the vehicle body to mesh with the rack bars of the sections and to cause the latter to move in one direction or the other to be inserted into the vehicle rear portion or to be extended upon the vehicle body in joined position with one another.

2,348,580
RAILWAY TRAFFIC CONTROLLING APPARATUS
Harry C. Vantassel, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 16, 1942, Serial No. 431,020
12 Claims. (Cl. 246—47)

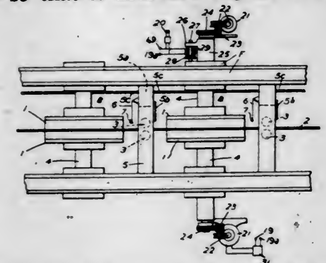


1. In combination, a stretch of railway track having a normal direction of traffic and formed with consecutive track sections each of which is provided with a track circuit including a track relay, trackway train control means for each said section for use with cooperating train-carried train control apparatus and capable of assuming an inoperative or an operative condition according as any one of a plurality of alternative associated control circuits is closed or all of said alternative control circuits are opened, means controlled by each track relay to close or open a first one of said alternative control circuits for the train control means of the same track section as the track relay according as that section is unoccupied or occupied by a train moving in the normal direction, a directional relay for each said section, means governed by each said directional relay when energized to close a second one of said alternative control circuits of the trackway train control means for the same section as the directional relay, and circuit means governed by said track relays when a train traverses said stretch in the direction reverse to said normal direction to successively control said directional relays in the order corresponding to said reverse direction to energize each directional relay while such train moving in the reverse direction occupies the corresponding section and the section next in advance of such corresponding section.

2,348,581
APPARATUS FOR PRODUCING A GROUND OR GROUND AND POLISHED CONTINUOUS STRIP OF GLASS
Frederic Barnes Waldron, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool, England, a British company
Application October 8, 1943, Serial No. 505,476
In Great Britain October 31, 1942
5 Claims. (Cl. 51—112)

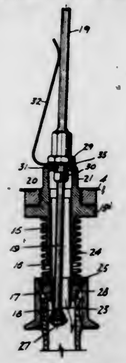
1. A method of controlling machinery used in surfacing simultaneously the two surfaces of glass in continuous strip form, consisting in utilising the sound waves emitted by the cracking of the glass to operate a low inertia microphone device which, when set into vibration emits an electrical impulse to a relay, the relay being employed to operate an automatic device for giving an indication of the existence of a crack in the glass, restricting the response of the microphone device to frequencies of and above the order of those emitted by the cracking

of the glass, and adjusting the sensitivity of the device so that it does not respond to the low



intensity sounds accompanying the said process which are of frequencies of the order of those emitted by a crack.

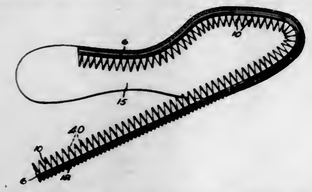
2,348,582
FILLING MACHINE FOR CONTAINERS
Jesse E. Weaver, Carnegie, Pa., assignor to Horix Manufacturing Company, Corliss Station, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 18, 1941, Serial No. 407,306
2 Claims. (Cl. 226—124)



1. In combination with the reservoir and delivery conduit of a filling machine and a telescoping extension of said conduit having a terminal valve seat, and resilient means for extending same subject to reversing pressure of a receptive container; an upwardly extending supporting yoke having a central opening, an air vent tube having a neck loosely engaging said opening, a lower extension thereof having a shoulder below the neck and a valve-seat-engaging terminal valve, an upper extension thereof communicating with air circulating means and having a variable pressure clamping nut above the neck, and a leaf spring having a base flange surrounding the neck between the yoke and said clamping nut for loose mounting of the spring and provided with an upwardly extending portion engaging the upper extension of the air vent tube whereby when the conduit and its terminal valve seat are elevated by a container the air vent tube and its valve are tilted.

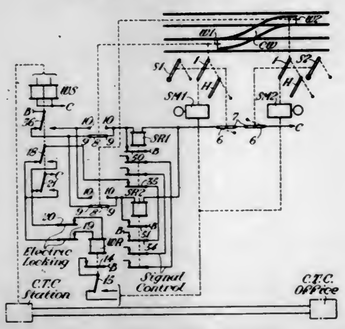
2,348,583
METHOD OF MAKING WELT INSOLES
Wallace C. Wright, Sanbornville, N. H.
Application June 21, 1941, Serial No. 399,049
2 Claims. (Cl. 12—146)

1. The improved method of making a welt insole, having an unchanneled insole blank and an adhesively secured sewing rib of synthetic plastic material mounted upon a textile base, which consists in first applying a coating of said synthetic plastic material to a sheet of textile material, drying said coating, cutting the coated material into strips, and thereupon applying to the coated surface a mass of said synthetic plastic material, a horizontal portion extending widthwise of said



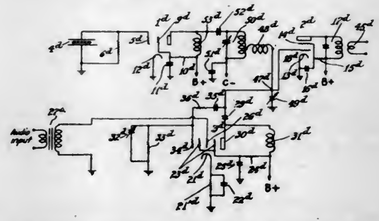
coated strip and having two upstanding ribs adjacent the marginal edges of said strip, thereupon severing the said strip by a zig-zag cutting action between the upstanding rib portions to form said strip into two individual sewing rib members with a pinked flange on each, and thereupon adhesively securing the textile surface to the marginal edge of the insole, blank, by progressively apply said strip thereto.

2,348,584
CONTROL APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application November 26, 1941, Serial No. 420,487. Divided and this application December 2, 1942, Serial No. 467,619
3 Claims. (Cl. 246—3)



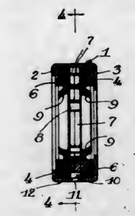
1. In a train dispatching system for railroads, the combination with a track switch, a switch machine provided with a dual selector for selectively conditioning said switch for operation manually or by said machine, a stick relay normally energized over stick circuit means including a front contact of said stick relay and a contact operated by said dual selector and closed only when said dual selector conditions said switch for operation by said machine, a polarized control relay, means controllable from a point remote from said switch for positioning the polar armature of said control relay, a pick-up circuit for said stick relay including a winding of said stick relay and said selector lever contact and contacts operated respectively by said switch and said polarized relay, said pick-up circuit being completed only when said selector lever contact is closed and said switch and the polar armature of said polarized control relay are in positions of agreement, and means for causing said switch machine to operate said switch to a position in agreement with the polar armature of said polarized control relay only when said stick relay is picked up.

2,348,585
MODULATION SYSTEM
John J. Antalek, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Original application May 8, 1942, Serial No. 442,185. Divided and this application November 21, 1942, Serial No. 466,404
5 Claims. (Cl. 179—171.5)



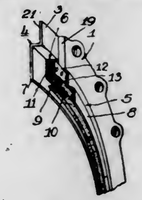
1. A modulation system including a source of carrier frequency energy, a modulated amplifier excited by said energy and variable impedance coupling means feeding said energy from said source to said modulated amplifier, said coupling means including a series resonant circuit having a mid-connection between the capacitative and inductive elements thereof, tuned to a frequency of the order of one percent different from said carrier frequency and impedance varying means coupled to the mid-connection of said series resonant circuit, said impedance varying means including audio-frequency modulated capacity varying means having an effective reactance varying in accordance with said audio-frequency.

2,348,586
OIL SEAL
Joseph A. Antonelli, Elgin, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois
Application October 10, 1942, Serial No. 461,575
3 Claims. (Cl. 286—5)



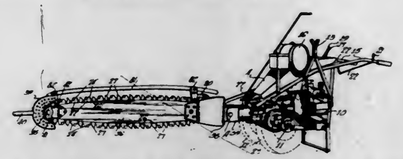
1. A unitary seal for sealing a pair of members such as a rotatable shaft and its surrounding housing against the escape or passage of lubricant or other fluids, comprising an annular retaining shell, a pair of sealing elements mounted within the shell in abutting relation and each provided with a sealing lip in spaced and opposed wiping contact with one of the members, and passages provided in the abutting surfaces of the elements and shell for draining away from the elements any lubricant leaking or seeping past a sealing lip.

2,348,587
SEAL CONSTRUCTION
Joseph A. Antonelli, Elgin, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois
Application October 15, 1942, Serial No. 462,101
4 Claims. (Cl. 288—3)



1. A seal construction comprising a retaining shell comprising a pair of channel members so formed as to clamp a sealing element therebetween, an annular plate adapted to encompass the retaining shell and anchor the shell in a surrounding housing, a resilient sealing element having a part clamped between the channel members and dual lips having a continuous sealing contact with a spherical member and sealing the space between the member and surrounding housing, the channel members, annular plate and sealing element being split to facilitate their assembly and mounting about the spherical member, with the split in each being staggered with respect to the split in the others to prevent leakage thereat.

2,348,588
POWER SAW
George Arsneau, Dallas, Tex.
Application March 29, 1943, Serial No. 480,936
12 Claims. (Cl. 143—32)

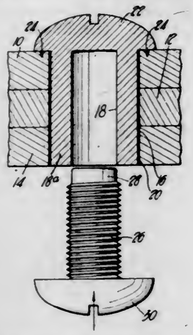


2. A sawing apparatus including a wheeled frame, a motor for transporting said frame, a universal joint operatively connected to the drive shaft of said motor forwardly of said frame, a housing for said universal joint comprised of relatively pivoted, complementary members, a gear housing rotatably mounted on the foremost of said members forwardly of said universal joint, a pair of relatively right angular shafts having gear connection in said housing, one of which is driven by said motor through said universal joint to transmit rotation to its companion shaft, a chain saw, an elongated, rigid frame therefor, means for mounting said frame at one end to said gear housing for swinging movement thereon and means effective for transmitting rotation of said companion shaft to said saw.

2,348,589
FASTENING MEANS
Claude I. Auten, Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company, a corporation of Tennessee
Application May 24, 1943, Serial No. 488,251
2 Claims. (Cl. 85—2.4)

1. Fastening means for securing workpieces together, comprising a relatively soft metal sleeve

having a continuous cylindrical unbroken wall integral with an enlarged head closing one end thereof, and a self-tapping screw of relatively hard metal whose threads when screwed into the



sleeve are effective to embed themselves in said unbroken wall and expand and distort it outwardly to a condition of tight compressive engagement with a bore formed in said workpieces.

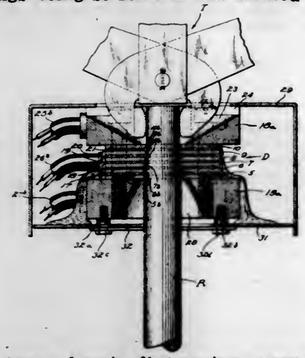
2,348,590
SAFETY RAZOR
Joseph Rene Ayotte, Chicago, Ill.
Application November 20, 1943, Serial No. 511,151
10 Claims. (Cl. 30—69)



1. In a razor, a guard plate, bearing means on the normally inner face of said plate intermediately of its opposite sides, a clamping plate adjacent said inner face rockably engaged by said bearing means, and means on one of said plates engaging a portion of the opposite plate for imparting rocking movement to the other plate.

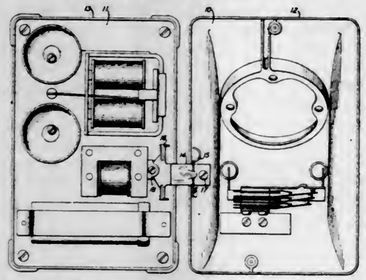
2,348,591
APPARATUS FOR SKINNING THERMOPLASTIC SHAPES
James Bailey, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application May 4, 1943, Serial No. 485,647
6 Claims. (Cl. 18—1)

1. A thermoplastic skinning die comprising a plurality of die plates having openings therein providing a succession of cutting edges, said openings being so formed and located as to pro-



vide a tapered main die opening, means for holding said die plates in spaced relation, and means for heating said die plates.

2,348,592
TELEPHONE HOUSING DETAIL
Harry I. Beardsley, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 26, 1942, Serial No. 459,763
2 Claims. (Cl. 179—179)

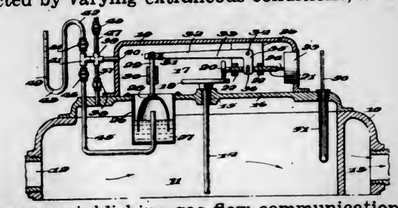


2. A container comprising a housing and a cover, said cover having an upstanding peripheral flange and said housing having a rim portion of relatively thin section for fitting over said flange when the housing is closed by the cover, a flexible strap hinge interconnecting the housing and cover and secured to each, adjacent said rim and flange, respectively, the hinge being of such length, that when the housing is closed its intermediate portion forms a loop by bending back upon itself, and means for preventing said loop from becoming wedged between said rim and flange upon closure of the housing, said means comprising an upstanding rib secured to said rim and located adjacent a portion of said hinge in a position to urge said portion away from said rim, said rib including a projecting portion for engaging the inner surface of said flange to hold said rim and flange together.

2,348,593
APPARATUS FOR COMPENSATING GAS METER READINGS
Samuel R. Beitler, Columbus, Ohio, assignor of one-half to John E. Overbeck, Columbus, Ohio
Application June 25, 1942, Serial No. 448,451
2 Claims. (Cl. 73—233)

1. Gas flow measuring apparatus comprising a meter casing having a main chamber through

which gas undergoing measurement is adapted to be passed, an anuxiliary casing mounted on said meter having a chamber spaced by an intervening wall from said main chamber, a container provided in said wall, said container having heat-conducting walls positioned in said main chamber so as to be maintained at the temperature of the gas passing through the latter, said container having received therein a body of liquid, a bell-type float buoyantly supported on said body of liquid to provide an internal chamber, means communicating with the chamber of said auxiliary casing for introducing a gas sample under predetermined conditions of temperature and pressure into the internal chamber of said float and to maintain the sample under such conditions when unaffected by varying extraneous conditions, a valved



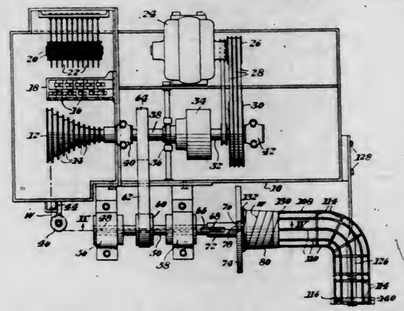
passage establishing gas flow communication between the main chamber of said meter and the interior of said auxiliary casing so that the gaseous atmosphere surrounding the exterior of said float substantially corresponds in temperature and pressure to the gases passing through said meter, an element positively rotated by the passage of gas through said main chamber, a counter index, variable speed motion-transmitting means driven by said element for operating said index, and means actuated by the movement of said float in response to internal and external gas pressure and temperature variations for regulating the driving ratios of said motion-transmitting means, whereby to cause said counter index to register for direct reading of gas flow through said meter in terms of basic conditions.

2,348,594
PRINTING INK
Dominic J. Bernardi, Bronx, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application November 14, 1942, Serial No. 465,633
4 Claims. (Cl. 106—29)

4. A typographic printing ink characterized by the production of films on paper which are inert and water-resistant under paraffin, and which do not substantially affect the sealing properties of the paraffin, comprising pigment dispersed in a vehicle, the non-volatile constituents of which consist essentially of from 25 to 60% of sulfonated fatty material, and from 75 to 40% of a mixture of a hydrogenated rosin and talloil in such proportion that the resin predominates in the mixture.

2,348,595
WIRE WINDING MECHANISM
Bruce N. Bletso, East Cleveland, and Clifford F. Hood, Shaker Heights, Ohio, and William S. Morgan, Plainfield, Ill., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application January 4, 1943, Serial No. 471,306
13 Claims. (Cl. 205—16)

1. In a wire-drawing machine having a die through which wire stock is drawn, a substantially horizontal stationary block for receiving the drawn wire, a substantially horizontal revolving spindle having a passageway for wire coincident with the axis of rotation thereof, a fixedly mounted member for guiding the wire into said axial passageway, antifriction bearings supporting said block on the end of said spindle remote from said



guide member, respective inner and outer wire guides rotating with said spindle effective to guide and coil the drawn wire around said stationary block, and a substantially horizontal wire receiver a portion of which is aligned endwise with said stationary block to accumulate the coiled supply of wire discharged therefrom as a result of the continuous coiling of the drawn wire about the block.

2,348,596
REFRIGERATION
Gustav Mårten Blomqvist and Sture Folke Torstensson, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 2, 1937, Serial No. 172,340
In Germany November 10, 1936
19 Claims. (Cl. 62—108.5)

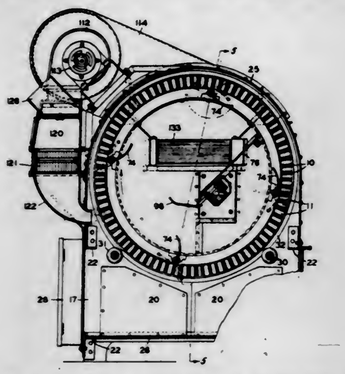


1. A grid for refrigerators having partitions to form ice cells and comprising a double walled partition including two members in side by side relation and closely adjacent to each other, and means pivotally connecting said members intermediate the ends thereof so that said members are angularly movable with respect to each other into overlapping relation in a scissors-like manner about an axis coinciding with the pivotal connection.

2,348,597
METHOD OF CLEANING AND RENOVATING WASTE
Thomas R. Booth, Indianapolis, Ind., assignor to Railway Service and Supply Corporation, Indianapolis, Ind., a corporation of Indiana
Original application September 30, 1939, Serial No. 297,197, now Patent No. 2,267,894, dated December 30, 1941. Divided and this application May 1, 1941, Serial No. 391,262
6 Claims. (Cl. 19—66)

1. The method of cleaning and renovating waste during its travel through a passageway having a waste inlet and a waste outlet, which

comprises elevating the waste in said passageway and simultaneously advancing it toward said outlet, dropping the waste from its advanced and elevated position, shaking the dropped waste by



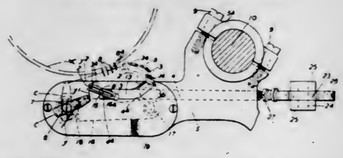
alternately moving it toward and from said outlet, and repeating such operations until the waste is advanced by successive advancements a predetermined distance in said passageway with respect to the outlet thereof.

2,348,598

MECHANISM FOR SUPPLYING YARN AND THREAD TO THE NEEDLES OF KNITTING MACHINES

Thomas Charles Bromley and Arthur Shortland, Leicester, England, assignors to Mellor Bromley & Co. Limited, Leicester, England, a company of Great Britain

Application September 28, 1942, Serial No. 459,996
In Great Britain September 29, 1941
21 Claims. (Cl. 66—140)



1. For operation at a feeder of a knitting machine equipped with independent needles, mechanism for supplying yarn to said needles, said mechanism comprising, in combination, a movable gripping device adapted normally to hold yarn in a non-feeding position, means for moving said device transversely with respect to the needles suchwise as to take the held yarn to and lay it across the stem of appropriate needles and means for subsequently returning the device to its original position with movement across the needle stems to re-engage the yarn when the supply of that yarn to the needles is to be interrupted.

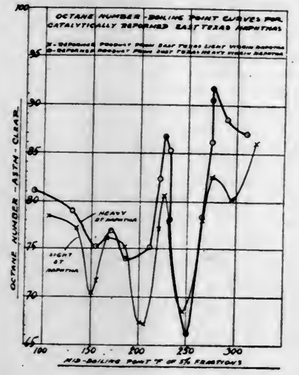
2,348,599

PROCESS FOR MAKING AVIATION FUEL

Cecil L. Brown, Baton Rouge, La., assignor, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware

Application July 16, 1940, Serial No. 345,767
6 Claims. (Cl. 196—50)

1. An improved process for preparing an aviation fuel of high octane number which comprises separately and simultaneously subjecting a hydrocarbon oil having a boiling range between about 100 and 300° F. and a hydrocarbon oil having a boiling range between about 200 and 450° F. to catalytic reforming in the presence of hy-



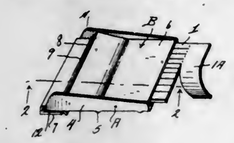
drogen, removing the lower boiling normally liquid fractions from the product of treating the lighter oil and replacing said lower boiling fractions with the lower boiling fractions from the product of treating the heavier oil.

2,348,600

MATCH PACK HOLDER

Edward R. Buchignani, Memphis, Tenn.

Application September 22, 1942, Serial No. 459,312
4 Claims. (Cl. 206—34)



1. A holder for matches comprising two completely separable members to be superimposed one upon the other, side flanges carried by one of the members between which is received the second member, one of said members being provided with a returned flange for receiving an end portion of the other member, said members being adapted to have matches interposed therebetween with the heads of the matches adjacent the flange joined ends of the members, and one of said members being provided with a transverse channel forming a pocket to receive the heads of the matches between the members.

2,348,601

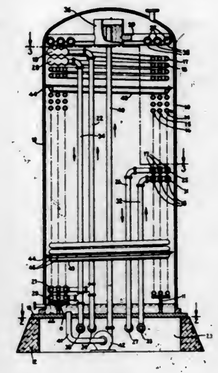
HEAT EXCHANGER

Herman F. Buschow, New York, N. Y., and Edward G. Engel, Roselle, N. J., assignors to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware

Application December 17, 1941, Serial No. 423,254
9 Claims. (Cl. 257—1)

9. A heat exchanger comprising a vessel, a source of heat transfer liquid, means forming a stream of said heat transfer liquid within said vessel, a pair of coils within said vessel for conducting two heat exchange fluids, said coils being placed within said stream in such manner that said heat transfer liquid passes from end to end over each coil alternatingly contacting

first a turn of one of said coils and then a turn of the other, the flow of heat exchange fluid



in one coil being from the center outwardly to the ends and in the other coil from the ends inwardly to the center.

2,348,602

PROCESS OF TREATING FILAMENTOUS MATERIALS

Jose B. Calva, St. Paul, Minn., assignor of one-third to George W. Benz, St. Paul, Minn.

No Drawing. Application October 19, 1936, Serial No. 106,427
4 Claims. (Cl. 8—94.14)

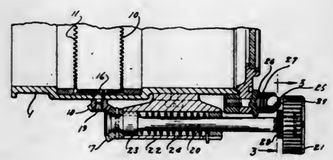
4. The process of unkinking natural wool which comprises subjecting the same to the action of formaldehyde in an acid medium.

2,348,603

HOUSING AND CAGING UNIT ASSEMBLY FOR GYROS

Bert G. Carlson, Erieside, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application January 6, 1943, Serial No. 471,404
6 Claims. (Cl. 74—5)



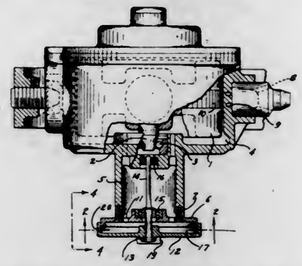
1. In a caging means for a gyro having a housing, a two degree freedom gimbal support and a stationary box for supporting said gimbal, means for clamping said gyro housing in caged position and gear operated means for operating said clamping means, manual means for operating said gear operated means and resilient means for opposing said manual means, said resilient means being adapted to automatically return said clamping means out of clamping position and return said gyro to uncaged position upon manual release of said manual means.

2,348,604

HORIZON GYRO

Bert G. Carlson, Erieside, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application January 16, 1943, Serial No. 472,609
2 Claims. (Cl. 74—5)



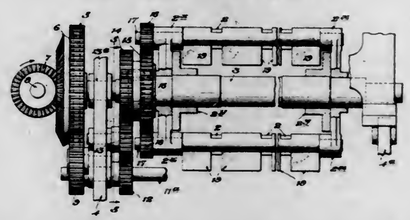
1. In combination in a vertical axis gyro assembly including an air spun gyro and a casing therefor, a spindle rotatably mounted in bearings in said casing below said rotor coaxially with the spin axis of said rotor, a cap secured to said spindle and forming a compartment in communication with said casing and provided with an air discharge outlet port in the periphery of said cap and at right angles to the axis of rotation of said rotor, said cap being adapted to be rotated by the discharge of air as said casing is being evacuated, a weight secured to said cap eccentrically of the axis of said spindle and adapted, upon tilt of said gyro, to overcome the rotative force created in the chamber enclosed by said rotative cap and pendulously apply an erective effect upon said gyro assembly until said gyro is erected and automatically resume normal rotation when said erection is completed.

2,348,605

TUCKER BLADE MOTION FOR ROTARY FOLDING MECHANISMS

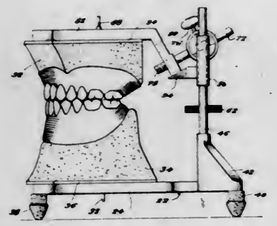
Albert James Carpenter, Jr., Battle Creek, Mich., assignor to The Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan

Application August 20, 1942, Serial No. 455,494
19 Claims. (Cl. 270—77)



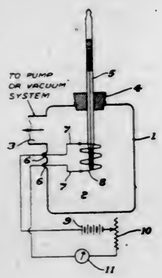
1. In a rotary folding mechanism having a driven shaft fixedly carrying a folding cylinder having tucker blade shafts journaled therein carrying tucker blades; a gear fixedly mounted on the driven shaft: an external gear freely journaled on the driven shaft; means for driving the external gear by the first gear and in the same direction of rotation as the folding cylinder but at a higher speed; and pinions on the tucker blade shafts meshing with the external gear, whereby the tucker blade shafts will be rotated in a direction opposite from the orbital movement of the said tucker blade shafts.

2,348,606
METHOD AND APPARATUS FOR MAKING ARTIFICIAL DENTURES
Edmund J. Cayo, Albany, N. Y.
Application September 20, 1940, Serial No. 357,647
1 Claim. (Cl. 32—32)



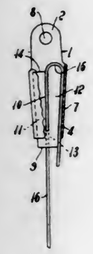
An articulator, comprising a base, a pair of vertical standards secured to one end of the base, anchoring means carried by the base for receiving a mandibular denture model, a pair of slide guides mounted on the vertical standards, a cross-head connecting the slide guides, screw adjusting means for the cross-head, spherical socket members arranged on the slide guides in opposed relation, spherical condyle fulcrums mounted in the sockets, an adjustable rod extending through the axis of each spherical fulcrum and a maxillary denture model carried on the free ends of the adjustable rods.

2,348,607
VACUUM GAUGE
Joe S. Clark, Cambridge, Mass., assignor to National Research Corporation, Boston, Mass., a corporation of Massachusetts
Application June 23, 1942, Serial No. 448,181
5 Claims. (Cl. 73—31)



4. Apparatus for measuring the pressure of the gaseous medium in a partial vacuum, said apparatus having a heater and a temperature measuring device mounted in spaced relation to each other within the medium with said medium the sole heat conductor in mutual contact with said heater and said device so that the heat generated by the heater passes through the medium to the measuring device, and means for measuring the energy input to the heater so that the amount of heat transference through the medium and thereby the pressure of the medium may be determined.

2,348,608
TERMINAL CONNECTING GRIP FOR BALLOON FLYING AND OTHER CABLES
Edwin George Cleverly, Cardington, Bedford, England
Application November 7, 1942, Serial No. 464,911
In Great Britain October 8, 1941
5 Claims. (Cl. 24—126)



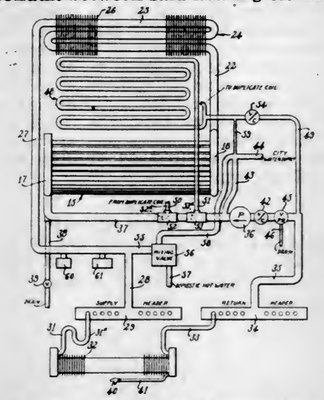
1. A terminal connecting grip used in connection with a cable, comprising a tapered sheath, and a wedge member movably engaging in said sheath, said member being split for a substantial portion of the length thereof to thereby provide an opposed pair of cable gripping jaws, said wedge member having an opening extending from the base of the split to the outer edge of the wedge whereby the cable may be threaded therethrough and in between the said jaws for gripping engagement by the latter.

2,348,609
PROCESS FOR PRODUCING WHITE OILS
Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 26, 1940, Serial No. 371,778
6 Claims. (Cl. 196—40)

1. The process of removing pepper sludge from a petroleum hydrocarbon having a viscosity in the range of 30 to 1000 seconds Saybolt at 100° F. treated with 40% by volume of 20% fuming sulfuric acid, while still in an acid reacting condition, which comprises agitating the hydrocarbon with a finely divided substance selected from the group consisting of filter aids of diatomaceous origin, and finely ground silica, at a temperature between room temperature and 100° C. and removing the finely divided substance-pepper sludge complex.

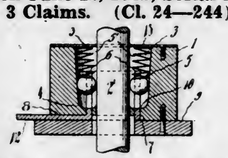
2,348,610
HEATING SYSTEM OR THE LIKE
Clyde W. Colby, Branford, Conn.
Application December 24, 1940, Serial No. 371,511
4 Claims. (Cl. 237—19)

1. A heating system comprising heating means and a fluid circuit, said circuit comprising heating elements exposed to the heat of said heating means and radiation elements to transfer the heat to a surrounding medium, and delivery and return conduits connecting said heating and radiation elements, a pump to induce a flow of fluid in said circuit, and a source of fluid supply in constant communication with said circuit between said pump and said heating elements, said circuit having a hot water take-off from the delivery conduit between said heating elements and



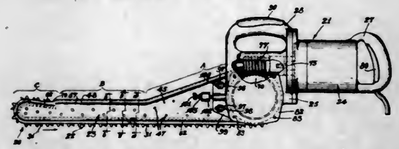
said radiation elements, and means to mix cold water from said water supply with the hot water so drawn from the circuit.

2,348,611
CLAMP FOR HOLDING DRILL RODS OR CASINGS
Cecil Stanley Davidson, Falconbridge, Ontario, Canada
Application June 12, 1942, Serial No. 446,744
3 Claims. (Cl. 24—244)



1. In a clamp for holding drill rods or the like, in which a block provided with a central orifice has a plurality of inwardly inclined guideways extending longitudinally thereof, the lower portions of said guideways entering said central orifice, said block having a circular slot concentric with the central orifice extending upwardly from the bottom and intersecting the lower ends of said guideways, balls arranged in said guideways, a cam ring rotatably housed in said slot and having upwardly extending portions adapted to engage and lift said balls clear of gripping contact with the rod, and means for securing said cam ring in said slot.

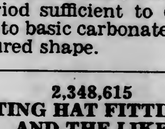
2,348,612
POWER SAW
William H. Deacon, Melrose Park, Ill.
Application February 20, 1941, Serial No. 379,749
17 Claims. (Cl. 143—135)



1. In a chain type power saw construction, a cutting tooth section comprising a generally flattened body, a cutting tooth projecting integrally from one edge of the body, and a fulcrum rib along one face of the body extending transversely of the cutting tooth and adapted to engage the similar fulcrum rib of an opposed tooth section to enable rocking of the sections and relative opening and closing movement of their cutting teeth.

2,348,613
QUATERNARY AMMONIUM COMPOUND AND METHOD OF MAKING SAME
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Original application October 20, 1941, Serial No. 415,766. Divided and this application June 3, 1943. Serial No. 489,573
6 Claims. (Cl. 260—287)

1. A new chemical compound of the following formula:



wherein T is a hydrocarbon radical having at least 8 and not more than 32 carbon atoms, and T' is a member of the class consisting of hydrogen atoms and hydrocarbon radicals having not more than 32 carbon atoms; and D:N represents a heterocyclic compound of the pyridine series consisting of pyridine, quinoline, isoquinoline, and C-linked methyl homologues thereof.

2,348,614
MANUFACTURE OF STRUCTURAL SHAPES AND RESULTANT PRODUCT
August M. Dinkfeld, Berkeley, Calif., and Thomas C. Pond, Parsons, Kans., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 21, 1942, Serial No. 462,842
13 Claims. (Cl. 18—47.5)

1. A fireproof structural shape comprising a major proportion of basic magnesium carbonate incorporating reinforcing material, said basic magnesium carbonate being strongly bonded by formation in situ by conversion from self-setting normal magnesium carbonate, and said shape having a density greater than 40 lbs. per cubic foot and a modulus of rupture greater than 800 lbs. per square inch.

12. In manufacturing fireproof and weatherproof shingles and the like, the steps comprising, forming a substantially dry mixture of finely-divided normal magnesium carbonate, 8–12% asbestos fibres and not to exceed 5% by weight of magnesium oxide, moulding said mixture while heating it to about 170° F. under a pressure of at least 3000 lbs. per square inch, curing the moulded shape at an elevated temperature not substantially exceeding 190° F. and under a pressure of at least 3000 lbs. per square inch for a period sufficient to convert the normal carbonate to basic carbonate, and finally drying the thus-cured shape.

2,348,615
SELF-ADJUSTING HAT FITTING APPLIANCE AND THE LIKE
Charles Doering, Chicago, Ill.
Application February 7, 1942, Serial No. 429,863
4 Claims. (Cl. 2—183)

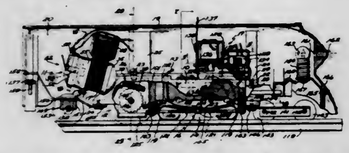
1. A self-adjusting device for headgear and the like comprising an arcuate resilient elon-

gated band bowed to normally possess shorter radii than the human head for adapting a larger size headgear thereto, and friction means for removeably attaching said band to the headgear



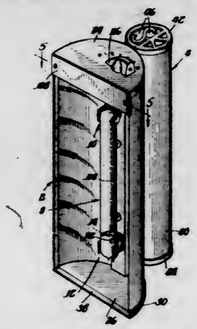
in a position to confront the head of the wearer, said elongated normally bowed band being substantially shorter than the circumference of the headgear and detachably associated therewith.

2,348,616
WORM DRIVE TOY LOCOMOTIVE
Marshall H. Frisbie, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application November 8, 1940, Serial No. 364,818
18 Claims. (Cl. 105—49)



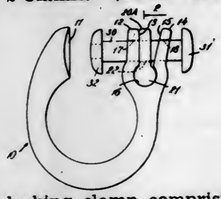
1. In a toy locomotive, the combination of, an inverted hollow shell modeled externally in imitation of a real locomotive including an engineer's cab at the rear, an inverted box-like chassis frame composed of closure forming walls including laterally spaced side walls joined by transverse end walls and nested at least partially within said shell, driving wheels having axle shafts journaled in said side walls of the frame, and an electric motor carried on the exterior of one of said end walls nearest said cab within the hollow interior of said shell having a shaft extending through said one of said end walls to the frame interior in a direction crosswise said axle shafts connected to impel said wheels.

2,348,617
ULTRAVIOLET RAY GENERATOR
Frank Furedy, Chicago, Ill., assignor to Sun-Kraft, Inc., Chicago, Ill., a corporation of Illinois
Application February 19, 1941, Serial No. 379,585
7 Claims. (Cl. 315—246)



1. An ultra-violet lamp comprising a gaseous discharge tube adapted upon excitation to emit ultra-violet rays, a trough-shaped reflector shell having an open side wall and closed ends, combined voltage supplying and mounting terminals mounted in the bottom of the trough of said reflector shell and receiving said tube, a tubular handle fastened to the rear of the trough forming wall of the reflector shell, a thermionic tube high frequency current generator mounted in and on said tubular handle and connections from said generator passing from the tubular handle through the trough forming wall of the reflector shell and connected to said voltage supplying and mounting terminals.

2,348,618
SELF-LOCKING CLAMP
Sydney I. Gordon, Manhasset, N. Y.
Application July 8, 1942, Serial No. 450,133
2 Claims. (Cl. 24—249)



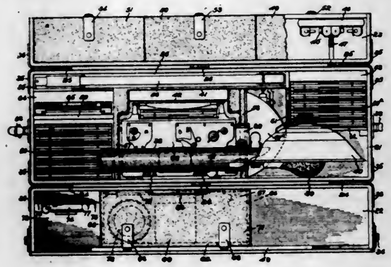
1. A self locking clamp comprising a pair of fixed spaced members having converging surfaces, an enlarged cylindrical transverse pocket passing through the body on an axis substantially on the line of convergence of said surfaces, axially alined holes in said members, a locking flap between the members having an enlarged cylindrical end rotatably fitting said transverse pocket in the body, said flap being arranged to abut one of the converging surfaces of the body to limit its movement in one direction, a hole formed in the flap on an axis parallel with the axis of the holes in said members when the flap is in its limited position, a rod passing through the holes in the members and the flap, said flap being arranged to be rotated into its limited position by the movement of the rod in one direction and to be rotated in the opposite direction by the movement of the rod in the other direction to arrest the latter movement of the rod.

2,348,619
WOOD FILLER
Henry Green, New York, N. Y., and Ernest F. Fullam, Princeton, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application March 11, 1942, Serial No. 434,264
6 Claims. (Cl. 106—228)

1. A non-graying wood filler composition comprising a vehicle of the group consisting of fatty oil, oleoresinous and resinous varnishes, having distributed therethrough discrete particles of a finely divided inert white filling agent, and particles of a finely divided coloring agent insoluble in the vehicle, the filler being characterized by the fact that all of the discrete particles distributed through the filler are of the same order of average particle size.

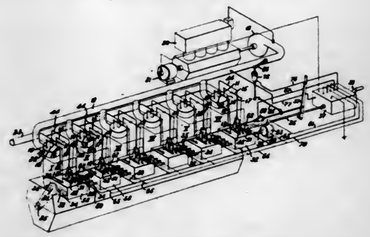
2,348,620
EVER-READY CARRIER-CONTAINED PHOTOGRAPHIC-EQUIPMENT PACKAGE
Frederic S. Grover, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application August 19, 1942, Serial No. 455,290
1 Claim. (Cl. 206—1)

An ever-ready equipment carrier comprising a relatively deep body compartment member of the carrier, rectangular in cross section; two, upper, shallower, compartment members of the carrier, each also rectangular in cross section, respectively hinged in parallelism at the upper edges of the two opposite lengthwise-extending walls of said body member, so as to be swung open oppositely to each other and thereby directly expose for removal the photographic units packed in said body compartment member; the said compartment member having two transversely extending, parallel partitions to receive between them the said camera body, the said partitions for that purpose being spaced from each other at opposite



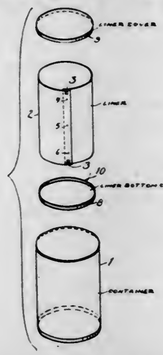
sides of a median transverse line of said body compartment member so as to provide three compartments nearly equal in size, the central one of said compartments snugly receiving the camera body, a flashlamp and a battery case positioned above the camera, and mainly above the body compartments and laterally exposed when said carrier is in open condition, and the said nearly equal compartments of the body at the right and left of the central compartment receiving film holders freely exposed at their upper edges, one of the said upper compartment members thereby receiving the battery case when the carrier is closed.

2,348,621
METHOD OF OPERATING ENGINES
Robert H. Hanlon, Wadsworth, Ohio, assignor to The Ohio Injector Company, Wadsworth, Ohio, a corporation of Ohio
Application March 27, 1943, Serial No. 480,818
22 Claims. (Cl. 123—180)



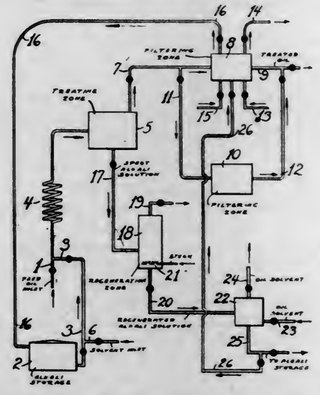
14. Means for operating internal combustion engines in starting, particularly in starting under load, including means for supplying combustible charges of fuel and air, means for igniting such charges, and means driven independently of the normal engine timing for effecting intake and exhaust in the engine cylinder and for timing the ignition means, whereby successive combustible charges may be introduced into the engine cylinder, ignited, and the combustion gases exhausted, during a single working stroke of the engine piston.

2,348,622
REMOVABLE LINER FOR VISCOUS MATERIAL CONTAINERS
Ernest D. Heilman, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 29, 1941, Serial No. 416,943
2 Claims. (Cl. 220—63)



1. In combination a container with a closed end, a loose-fitting overlapping liner of sheet metal, two foldable narrow tabs at each end of the said liner on the overlap and cut parallel to the long edge of the overlap, two loose-fitting covers with collars for each end of the liner, the said collars when placed in position covering and holding the folded narrow tabs in position and means for holding the liner in its folded position at points in fixed relation to the ends of the liner.

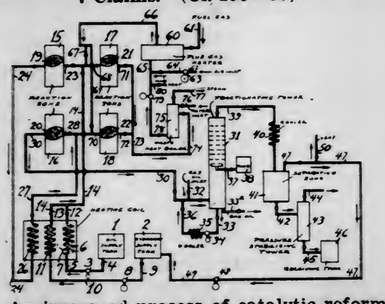
2,348,623
REFINING MINERAL OILS
Amiot P. Hewlett, Cranford, and Henry C. Paulsen, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 24, 1941, Serial No. 394,960
5 Claims. (Cl. 196—30)



1. Process for the removal of mercaptan compounds from petroleum oils, which comprises contacting the same in an initial stage with an alkali metal plumbite solution containing dissolved therein a solvent enhancing agent comprising a salt of a fatty acid, under conditions to form lead mercaptides, separating a spent alkali metal so-

lution phase containing dissolved therein a substantial proportion of the lead mercaptides, and an oil phase, separating the oil phase, and removing the remainder of the lead mercaptides therefrom by contacting the oil with a solid adsorbent.

2,348,624
PROCESS OF CATALYTIC REFORMING
Charles A. Hillman, Maplewood, N. J., assignor, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware
Application December 30, 1939, Serial No. 311,829
7 Claims. (Cl. 196—50)

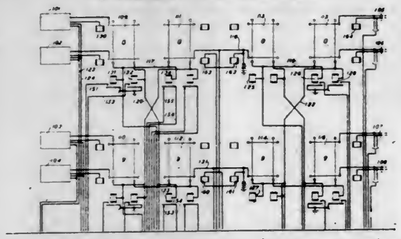


1. An improved process of catalytic reforming in the presence of hydrogen carried out under conditions such that there is a net production of free hydrogen therein which comprises heating the oil and a gas rich in free hydrogen in separate heating means to a temperature somewhat above reaction temperature while under a pressure somewhat above reaction pressure, mixing the heated oil and gas rich in free hydrogen, passing the mixture through a reaction zone containing a catalyst which promotes reforming and maintained at a temperature between 900 and 1000° F. and under a pressure between 50 and 750 pounds per square inch, removing the products from the reaction zone, cooling said products to a substantially lower temperature by admixture with a hydrocarbon oil higher boiling than the feed oil and the products introducing said mixture directly into a fractionating means, fractionating said products under substantially the same pressure as that maintained in the reaction zone, removing vapors from the fractionating means, cooling said vapors to condense a portion thereof, separating the condensate from the remaining gases, recycling the gases to the gas heating means and recovering a fraction boiling in the motor fuel range from the condensate.

2,348,625
METHOD FOR THE RECOVERY OF SPRAYED PAINT MATERIAL
Harry E. Hoffman, Mansfield, Ohio
No Drawing. Application July 6, 1939, Serial No. 283,079
6 Claims. (Cl. 106—287)

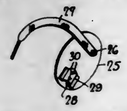
1. A method for the recovery of excess sprayed enamel paint material which comprises subjecting the excess sprayed enamel paint material to treatment with water to form a sludge containing pigment and the associated vehicle, heating the said sludge until it is softened sufficiently to readily flow, mixing the heated sludge with "Varnolene," stirring the said mixture sufficiently to form a relatively homogeneous mass containing only a small proportion of undesired, undistributed solid masses and separating the said undesired masses from the admixture.

2,348,626
CHANNEL SELECTING CIRCUIT
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1942, Serial No. 465,573
5 Claims. (Cl. 179—22)



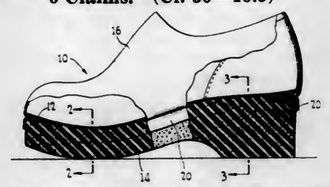
1. In a telephone system, incoming circuits, outgoing circuits, a plurality of channels each comprising an incoming link, an outgoing link and an intermediate link for connecting one of said incoming circuits to one of said outgoing circuits, means to identify a particular incoming circuit, means to mark a plurality of idle incoming links having access to said identified incoming circuit, means for identifying a wanted outgoing circuit, means for marking a plurality of idle outgoing links having access to said wanted outgoing circuit, a gas-filled tube individual to each intermediate link, a control anode in each tube individual to each incoming link having access to said intermediate link, a control cathode in each tube individual to each outgoing link having access to said intermediate link, a main cathode and a main anode in each tube, means to cause a discharge between a control anode and a control cathode connected to idle incoming and outgoing links having access to the same intermediate link, means to cause a discharge between the main cathode and main anode of one of said tubes in which a control gap discharge occurs and means under the control of said main cathode-anode discharge to establish a circuit between said identified incoming circuit and said wanted outgoing circuit including the intermediate link to which the tube in which said discharge occurs is individual.

2,348,627
BADGE
Samuel Otho Holland, Clarence Vernon Roberts, and Samuel Holmes Plexico, Salisbury, N. C.
Application February 11, 1941, Serial No. 378,380
1 Claim. (Cl. 292—275)



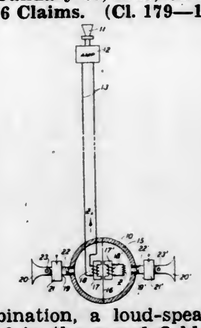
A seal comprising a tearable sheet of material having one end of a cord attached thereto, a metallic sheet having a groove therein, barbs punched from the metallic sheet and projecting into the groove, the face of the metallic sheet having the groove therein being adhesively secured to one face of the tearable sheet, whereby when the free end of the cord is passed through the groove whose open side is closed by the tearable sheet, the cord cannot be removed from the groove except by peeling the tearable sheet from the metallic sheet or by tearing the portion of the tearable sheet which covers the said groove.

2,348,628
SHOE
Bennett Jayne, Richmond Hill, N. Y., assignor of one-half to Dominick Calderazzo, Dolgeville, N. Y.
Original application July 15, 1939, Serial No. 284,571. Divided and this application March 6, 1942, Serial No. 433,554
6 Claims. (Cl. 36—19.5)



1. In a shoe construction, the combination of a thick resilient outer sole, an upper, means for attaching said upper to said sole and a flexible skirt portion depending from over said sole and freely overhanging a substantial portion of the rim of said sole, said skirt portion terminating short of the bottom edge of the rim of said sole whereby to leave the lower portion of said rim exposed.

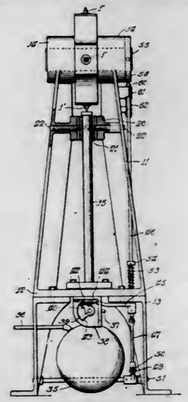
2,348,629
PUBLIC ADDRESS SYSTEM
Kenneth S. Johnson, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 27, 1943, Serial No. 473,692
6 Claims. (Cl. 179—1)



1. In combination, a loud-speaker, a microphone located in the sound field of said loud-speaker, and means interconnecting said loud-speaker and said microphone so that sound waves translated by said microphone are reproduced in amplified form by said loud-speaker, said microphone comprising a single diaphragm centrally located in a symmetrical enclosure and oppositely disposed sound wave conduits coupling opposite sides of the diaphragm with said sound field, each of said conduits including an adjustable mouthpiece at its outer end and a variable acoustic impedance intermediate the diaphragm and mouthpiece for equalizing the effects upon opposite sides of said diaphragm of sound waves received from said loud-speaker.

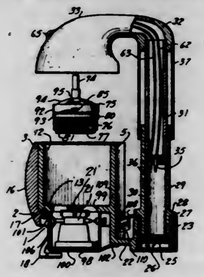
2,348,630
APPARATUS FOR MAKING STAMPS
Helge S. Jonsson, Villa Park, Ill.
Application June 7, 1941, Serial No. 397,143
2 Claims. (Cl. 101—4)

1. In an apparatus for forming steel stamps or the like, a frame, a tubular barrel arranged thereon, said barrel open at one end and closed at the other, said barrel provided with a fluid inlet adjacent the closed end, means for supplying a fluid under high pressure through the said port, a valve for controlling the admission of fluid to the port, actuating means for controlling the valve, a projectile arranged in the barrel between



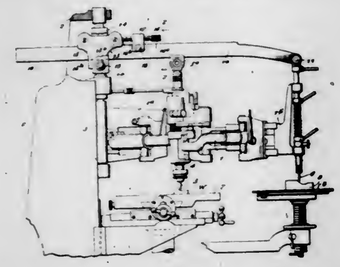
said port and the open end thereof, said projectile provided with a design at the outer end thereof, a stamp blank holder mounted on said frame adjacent the outer end of the barrel for rigidly holding a face of the stamp blank in proximity to the open end of the barrel in the path of the projectile, and means cooperating with said valve actuating means for locking the said holder in operative position.

2,348,631
DRYING DEVICE
Roy B. Keehnel, Independence, Mo.
Application April 8, 1940, Serial No. 328,493
5 Claims. (Cl. 34—58)



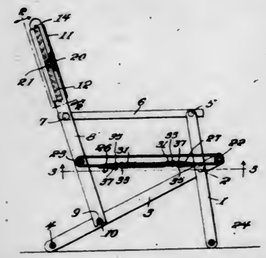
1. In a device of the character described, a base, a post on said base, a plurality of open top treating compartments in the base radially of the post, an arm telescopically and rotatably mounted on the post, means for locking the arm in alignment with selected compartments, a basket for containing watch parts to be treated rotatably mounted on the arm, a motor in the arm for rotating the basket, a rack on said arm, a pinion rotatably mounted on the post and having engagement with the rack, means for rotating the pinion for actuating the rack to raise and lower the arm to position the basket relative to the compartments, means engaging the pinion for locking the arm in selected position, and means on said pinion rotating means for releasing the pinion engaging means.

2,348,632
THREE-DIMENSIONAL PANTOGRAPH MACHINE TOOL
Harlow Klema, Racine, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application March 22, 1943, Serial No. 480,092
2 Claims. (Cl. 90—13.1)



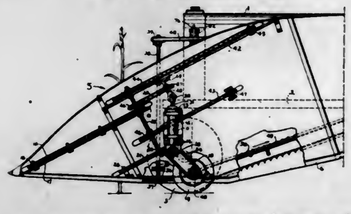
1. In a three-dimensional pantograph machine tool that includes a depth controlling overarm or lever swingable laterally with the pantograph on the same vertical axial line and relatively swingable vertically on a transverse axial line, and wherein the vertically movable cutter spindle and tracer carried by the pantograph are operatively connected to said lever to control the vertical movements of the cutter spindle by the vertical movements of the tracer; means swingable vertically and laterally with said lever for predetermining the radius of the arcuate travel of the cutter spindle when said pantograph and lever are swung laterally on said vertical axial line under the lateral pressure of the hand of an operator in a direction radially toward said vertical axial line, said means providing a steady rest for the radially pressing hand swinging said pantograph and lever, said means comprising a member carried by said lever, and a complementary member, one of said members being adjustable radially toward and from said vertical axial line and settable to predetermine the radius of said arcuate travel of the cutter, and the other member providing a complementary abutment.

2,348,633
CHAIR
Charles J. Komaska, St. Louis, Mo.
Application September 15, 1941, Serial No. 410,929
5 Claims. (Cl. 155—187)



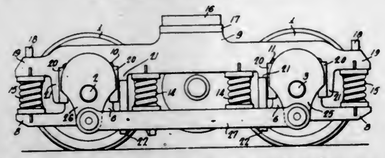
5. A chair, comprising front legs, inclined rear legs pivoted to and extending beyond the front legs intermediate their ends, back members pivoted to the inclined rear legs, arms pivotally connected to the back members and the upper ends of the front legs, a transverse bar connecting the back members, a transverse bar connecting the inclined rear legs forwardly beyond the front legs, and a fabric seat extending around the transverse bars and having its ends connected by a yielding member.

2,348,634
ENSILAGE HARVESTER
Irvin D. McEachern, Crosbyton, Tex.
Application May 18, 1940, Serial No. 336,052
5 Claims. (Cl. 56—16)



1. A harvester comprising a frame structure, means carried by the frame structure for severing stalks from the field, endless conveying means on the frame structure for moving the stalks relatively lengthwise of the frame structure, a drive shaft for said conveying means, a ground engaging wheel, a bracket connected with the frame structure, a yoke connected with the wheel and having a spindle journaled in the bracket, a shaft telescoped with the spindle and having geared connection with the wheel for operation thereby, and a jack shaft connected with the last-mentioned shaft and having geared connection with the drive shaft for operating the same from the wheel.

2,348,635
LOCOMOTIVE TRUCK
Paul E. McKamy, Chicago, Ill., assignor to The Whitcomb Locomotive Company, a corporation of Delaware
Application November 18, 1941, Serial No. 419,616
1 Claim. (Cl. 105—82)



A truck comprising, in combination, a pair of wheeled axles, a journal-equalizer unit having upwardly extending journal boxes in which said axles are journalled and being adapted to maintain the axles a constant distance apart at all times, a truck frame having side pieces superimposed directly over said journal equalizer unit to provide opposed spring seating surfaces on said unit and side pieces, said truck frame also having downwardly extending pedestal openings with lower open ends to receive said upwardly extending journal boxes side rods and cranks connecting said axles together so that one may be driven by the other, whereby one axle may pivot about the other axle while maintaining at all times a substantially constant relationship between the axle centers and side rods, the guiding surfaces of said pedestal openings and the sides of said journal boxes being so relatively shaped that the distance between the sides of the pedestal and the box is greater at the upper and lower ends of the box than at the intermediate portion thereof thereby to allow the upper corner on one side of the journal box and the other opposite corner of that journal box to have free movement within the pedestal opening during pivotal action of the journal-equalizer unit while still maintaining a guiding relationship with the sides of the pedestal openings, and springs interposed between and seated against said opposed surfaces of said side pieces and journal equalizing unit.

2,348,636
GEM
Gilbert E. McMahon, Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application March 7, 1941, Serial No. 382,261
2 Claims. (Cl. 63—32)



1. A gem or stone having a base comprising a plurality of adjoining facets, a coating of material contrasting with the stone applied to the facets, and the area of said facets immediately adjacent the edges thereof being uncoated to create a design visible through the crown of the gem or stone.

2,348,637
ALKYLATION WITH OLEFIN MIXTURES
Richard N. Meinert, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 16, 1940, Serial No. 345,862
8 Claims. (Cl. 260—683.4)

1. A process for producing improved yields of motor fuels boiling within the gasoline range and having improved octane number which comprises alkylating at least one isoparaffin with a normally gaseous olefinic mixture of ethylene and at least one other monoolefin wherein the molar ratio of ethylene to other monoolefins is between about 3:1 and about 1:2, in the presence of a substantially saturated aqueous solution of boron trifluoride, under alkylation reaction conditions.

2,348,638
FUEL COMPOSITION
Louis A. Mikeska, Westfield, and John C. Zimmer and Jones I. Wasson, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 26, 1940, Serial No. 367,230
25 Claims. (Cl. 44—62)

1. A fuel composition of matter comprising a hydrocarbon fuel distillate and a small quantity of a resinous condensation product having the general compositional formula:

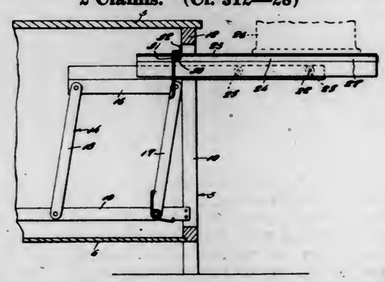
$$[R \cdot Ar(OH) \cdot CH_2 \cdot]_n X_m$$

wherein R represents at least one alkyl group substituent in the aromatic nucleus Ar, the subscripts n and m are integers, and X represents a base radical selected from the group consisting of nitrogen base radicals and phosphorus base radicals.

2,348,639
IDENTIFYING SUBSTANCE
Jolly W. O'Brien, Houston, Tex.
No Drawing. Application September 30, 1941, Serial No. 412,962
2 Claims. (Cl. 252—8.5)

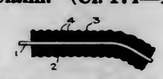
1. A method of detecting the circulation of drilling fluid in a well bore which comprises introducing an identifiable substance into the entering stream of fluid which substance is composed of benzidine, water, and montmorillonite clay and has the characteristics of a viscous slurry capable of remaining closely compacted and is substantially nondiffusible in the drilling fluid and detecting a clear blue color of the material when wet, and ascertaining a brilliant yellow color of the material after drying.

2,348,640
TYPEWRITER SUPPORT
Frank E. Oneal, Joliet, Ill.
Application November 17, 1941, Serial No. 419,514
2 Claims. (Cl. 312—28)



1. In combination, a compartment having an open front frame, and a typewriter support including a platform in said compartment, a table surmounting said platform, means whereby said table is mounted on said platform for sliding movement thereon inwardly and outwardly of said front frame, means whereby said platform is mounted in said compartment for swinging movement upwardly and horizontally toward said front frame to thereby elevate said table into a higher horizontal plane after the same has been moved outwardly of the front frame, and devices on said front frame and said table, respectively, cooperatively related by elevation of the table to block movement of the table inwardly of said front frame when said table is elevated.

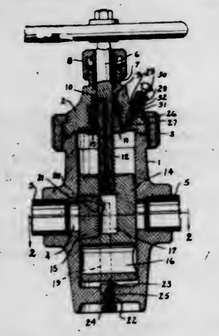
2,348,641
ELECTRIC CABLE
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1941, Serial No. 386,222
1 Claim. (Cl. 174—102)



An electric cable comprising a metal flexible core, a sheathing of readily deformable flexible insulating material surrounding the core and a flexible metal tube surrounding the sheathing, said tube being shaped so as to provide closely spaced annular ribs and grooves each lying perpendicular to the axis of the cable and merging one into the other so as to present, in cross section extending longitudinally of the sheathing, a sinuous line, said sheathing being dimensioned

so that the inwardly curved parts are fully embedded in the insulating material whereby the insulating material makes intimate contact with the sheathing from one end thereof to the other.

2,348,642
LUBRICATING SYSTEM FOR VALVE ASSEMBLIES
Arthur J. Penick and Kirby T. Penick, Houston, Tex.
Application July 11, 1941, Serial No. 401,980
2 Claims. (Cl. 251—51)



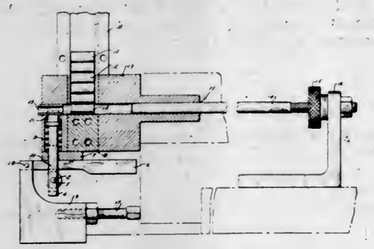
1. A valve assembly comprising a casing having a flowway therethrough, a controlling assembly in the casing movable to control the flowway, a stem connected with the controlling assembly and accessible to an operator and having a bearing in the casing, means on one side of the controlling assembly for the admission of a washing fluid into the interior of the casing, said valve assembly having channels, one by-passing the controlling assembly and the other leading through the stem and arranged to conduct the washing fluid through said bearing whereby a cleansing fluid may be circulated throughout the interior of the casing to cleanse the same of waste and foreign matter.

2,348,643
MEASURING INSTRUMENT
Foster M. Poole, Dallas, Tex.
Application October 7, 1942, Serial No. 461,101
12 Claims. (Cl. 33—178)



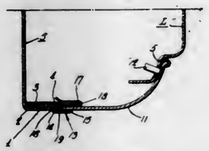
1. Measuring apparatus comprising a guide body, openings peripherally spaced about the body, trains of feeler balls associated with said openings and extending exteriorly from the body to the exterior, the feeler balls in at least one opening being radially movable, an axially located cone between the peripheral balls, a pressure platen having a plane perpendicular to the axis of said cone, a bearing associated with the cone and cooperating with the flat surface of said platen to allow for lateral movement, a retriever spring reacting from the body against the cone to bias it toward the platen, an air cylinder carried by said body, and a sliding plunger having a sealing engagement with said cylinder and carrying said platen.

2,348,644
MAGAZINE WORK-HOLDING FIXTURE
Peter M. Preziosi, Cleveland Heights, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application April 26, 1943, Serial No. 484,581
2 Claims. (Cl. 29—60)



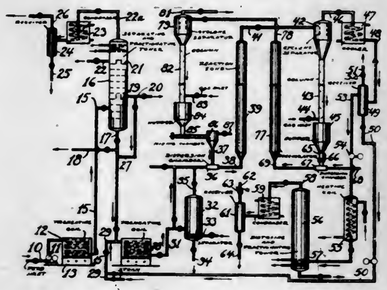
1. A magazine feed work holding device comprising a supporting housing, a work holding casing, a barrel carried in a recess in said casing, a magazine feed mounted on the casing to feed work into said barrel, a fixedly supported adjustable rod extending through the casing and the barrel, said casing and barrel being linearly movable with respect to the rod to cause said rod to force work from the receiving position of the barrel into a machining position at the end of the casing and to eject a previously machined piece of work in the process as the work holding casing is moved away from the machining position, a spring actuated clamp located adjacent to the machining position within said casing and having a concave work engaging head with a slotted shaft tailpiece portion extending below the casing, to firmly hold the work in the machining position, a roller mounted in the slotted portion of the clamp tailpiece below the casing, and a cam member, frictionally pivoted at one end to a portion of the supporting housing and having its free end extending through the slotted tailpiece portion of the clamp between the casing and the roller, to cause the disengagement of the spring actuated clamp from the work when the roller rides on the cam surface as the casing is moved from the machining position and to allow the re-engagement of said clamp with the work as the casing is returned to the machining position and the roller no longer contacts the cam surface.

2,348,645
REFRIGERATOR CONSTRUCTION
Charles R. Quinn, Roslyn Park, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1941, Serial No. 397,803
2 Claims. (Cl. 220—9)



2. A refrigerator cabinet construction comprising inner and outer shells provided with a door opening, said outer shell having an edge portion bent toward the inner shell peripherally of the door opening and the edge portion of the outer shell forming with said outer shell a recessed seat, a breakerstrip closing the space between the shells with the outer edge of said breakerstrip extending into the recessed seat of the outer shell, means detachably securing the inner edge of the breakerstrip to the edge portion of the inner shell, means for fastening the outer edge of the breakerstrip to the outer shell comprising a strip disposed in the recessed seat thereof and including a head portion overlying at least the adjacent edge front surface portions of said breakerstrip and another portion extending rearwardly between the breakerstrip and outer shell and inwardly along the edge portion of the latter, and clips engaging over said other portion of the strip and the edge portion of the outer shell to retain said strip in position, said clips having a portion thereof arranged for engagement with said outer edge of the breakerstrips thereby to retain the clips against displacement.

2,348,646
CONVERSION OF HYDROCARBON OILS
Edward D. Reeves, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 5, 1941, Serial No. 401,281
3 Claims. (Cl. 196—52)

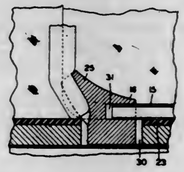


3. A method of cracking hydrocarbon oils which comprises vaporizing the oil to be cracked in the presence of a substantial amount of steam, forming a mixture of oil vapors, steam, and powdered cracking catalyst, transferring said mixture through a cracking zone maintained at cracking temperature and at substantially atmospheric pressure except for the necessary pressure to overcome the pressure drop through the cracking and separating equipment, maintaining the oil vapors in admixture with the catalyst for a period sufficient to obtain a substantial cracking thereof, thereafter separating the bulk of the cracking catalyst from the vaporous conversion products and steam, thereafter cooling said vaporous conversion products and steam to a temperature sufficient to condense all normally liquid hydrocarbon constituents and steam, separating the oil condensate substantially free of entrained catalyst from the steam condensate containing a substantial portion of entrained catalyst, distilling and fractionating the oil condensate to separate a desired motor fuel fraction therefrom, and returning the water condensate containing said catalyst to the cracking process.

2,348,647
CATALYTIC PROCESS
Edward D. Reeves, Cranford, and Kenneth K. Kearby, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application December 30, 1939, Serial No. 311,936. Divided and this application July 16, 1942, Serial No. 451,220
8 Claims. (Cl. 196—52)

1. A method of cracking hydrocarbon oils which comprises passing the oil to be cracked through a cracking zone maintained at active cracking temperature, contacting said oil within said cracking zone with an active cracking catalyst free of alkali and comprising alumina, silica and an alkaline earth metal oxide formed by combining the alumina and said alkaline earth metal oxide with silica formed from an alkyl silicate, and maintaining said oil within said cracking zone for a period sufficient to obtain a substantial cracking thereof.

2,348,648
SCUFF PLATE
James S. Reid, Shaker Heights, Ohio, assignor to The Standard Products Company, Detroit, Mich., a corporation of Ohio
Application December 7, 1940, Serial No. 368,999
5 Claims. (Cl. 20—64)

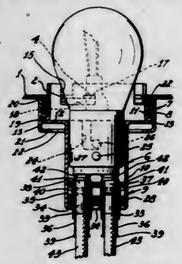


1. A scuff plate structure for door frame openings of various widths, comprising an elongated scuff member extending over the greater portion of the width of said door opening, and an end piece slidably mounted on an end of said scuff member, said end piece comprising a block like base portion having an upper surface, an arched portion integral with said base portion along one side and one end thereof and separated from said base portion along the respectively opposed side and end of said base portion, said arched portion and said base portion defining therebetween a recess, said scuff member being longitudinally adjustably disposed in telescoping relationship within said recess and having one edge portion only thereof supported along said upper surface of said base portion.

2,348,649
LAMP SOCKET UNIT
Wayne V. Richards, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application May 5, 1941, Serial No. 391,928
5 Claims. (Cl. 173—339)

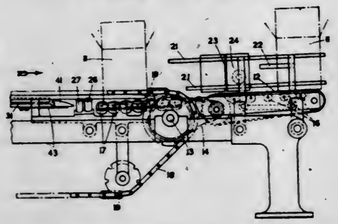
1. A socket unit including, a socket provided with a large extremity and a small extremity joined together by a shoulder portion, said small extremity providing a receptacle for an electric plug and supporting contact means adapted to engage the plug, an annular abutment projecting laterally from said shoulder portion, a helical spring encircling said large extremity with one end engaging said abutment, a ring slidable on the socket covering said spring having an abut-

ment engaging the abutment associated with said shoulder portion, and another abutment on said ring engaging the other end of said spring for placing said spring under compression, said ring being so constructed and arranged that the abutments thereon straddle the said annular abut-



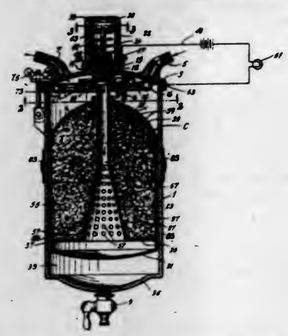
ment projecting from said shoulder portion and means provided adjacent the forward end of said large extremity cooperating with said ring whereby the unit may be projected into one side of and held in relation to a mounting so that the plug may be inserted into the receptacle from the opposite side of said mounting.

2,348,650
PACKING MACHINERY
Alfred German Rose, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company
Application May 28, 1941, Serial No. 395,619
In Great Britain June 14, 1940
7 Claims. (Cl. 93—6)



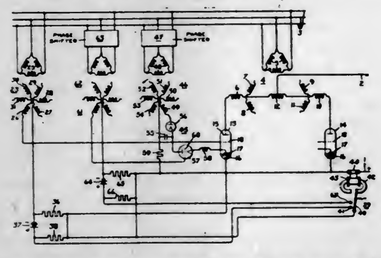
1. In an apparatus of the type described, a container support, a base-supporting member arranged to receive containers successively from said support, means for causing the containers to move successively along said support towards said base-supporting member, said support consisting of two platforms disposed one on each side of the path of travel of said containers and arranged to guide said containers towards said base-supporting member, said platforms having their container-contacting surfaces arranged to converge towards a point below the level of the container base so as to support each successive container by its edges and thus allow the outside flaps of said container to incline downwardly to form a gap between themselves and the base of said container, and a nose portion movably mounted on said base-supporting member and provided with an inclined upper surface extending from a point below the path followed by the lower forward edge of each container during its guidance by said platforms towards said base-supporting-member, so as to allow said nose portion to pass into the gap aforesaid. to a point sufficiently above the base-supporting plane of the base-supporting member to cause the lower forward edge of the container, during its passage from the container support aforesaid to said base-supporting member, to engage said inclined upper surface and by such engagement cause said nose portion to move downwardly into such a position that it forms a guide for folding the rear inside flap of the container into closed position so as to be properly received by said base-supporting member.

2,348,651
FILTER
Cyril G. Schelly, Webster Groves, Mo., assignor to Business Collaborators, Inc., St. Louis, Mo., a corporation of Missouri
Application June 28, 1941, Serial No. 400,201
19 Claims. (Cl. 210—140)



9. A filter unit for filtering fluid comprising a container having an inlet and an outlet, a movable filter cartridge in the container and having an inlet and an outlet, resilient means supporting the weight of the cartridge and deflecting in proportion to the weight of the cartridge, a signal circuit, a switch means in the circuit having a pair of contacts one of which is fixed in respect to the container and the other of which is connected to the cartridge for movement therewith, predetermined movement of the cartridge moving said movable contact into closed circuit position with respect to the fixed contact.

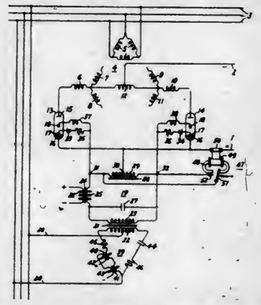
2,348,652
ELECTRIC VALVE CONTROL CIRCUIT
August Schmidt, Jr., Niskayuna, and Carl C. Herskind, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application November 5, 1941, Serial No. 417,922
2 Claims. (Cl. 175—363)



2. In combination, an alternating current circuit, a direct current circuit, electric translating apparatus interconnecting said circuits and com-

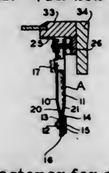
prising electric valve means including an anode, a cathode, an immersion-ignitor control member in contact with said cathode, and a control electrode, excitation means for transmitting impulses of current to said immersion-ignitor control member to render said electric valve means conducting periodically and comprising an electric discharge device having a grid, control means connected to said grid for rendering said electric discharge device conducting periodically, an impedance element connected in circuit with said control grid and a second impedance element connected in circuit with said control electrode, a source of unidirectional voltage and an impedance element connected in shunt with each of said first two mentioned impedance elements, each said unidirectional voltage source being so poled as to impress a negative voltage component on said grid and said control electrode, and means common to the cathodes of said plurality of electric valve means and responsive to an arc-back condition of said electric valve means for establishing a low resistance circuit in shunt with each of said last two mentioned impedance elements to increase the voltage impressed on the impedance elements in circuit with said control electrode and said grid to maintain said valve means nonconducting.

2,348,653
ELECTRIC VALVE PROTECTIVE CIRCUIT
Albert H. Mittag, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 5, 1941, Serial No. 417,932
2 Claims. (Cl. 175—363)



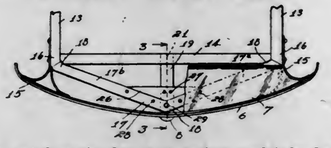
2. In combination, an alternating current supply circuit, a load circuit, electric translating apparatus connected between said circuits and comprising a pair of electric valve means each of the type employing an ionizable medium and each including an anode, a cathode and an immersion-ignitor control member, an excitation circuit connected to the control members of said pair of electric valve means to render said electric valve means conducting during intervals displaced 180 electrical degrees relative to the voltage of said supply circuit and comprising a source of alternating current, a saturable inductive device and means connected in circuit with said inductive device to produce across its terminals an alternating voltage of peaked wave form having substantially symmetrical positive and negative peaks in accordance with the current transmitted by said saturable inductive device, means for connecting the terminals of said last mentioned means to said control members, means connecting a terminal of said last-mentioned means intermediate said first-mentioned terminals with the cathodes of said electric valve means, and means responsive to an electrical condition of one of the first mentioned circuits occasioned by an arc-back of said electric valve means for effectively shunting the means which is connected in circuit with said saturable inductive device to maintain said control members deenergized and thereby prevent excitation of said cathode.

2,348,654
WINDOW BRACKET
William H. Schmitt, St. Paul, Minn.
Application September 6, 1941, Serial No. 409,910
9 Claims. (Cl. 292—263)



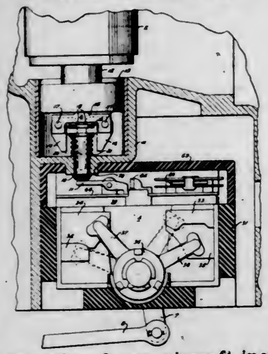
1. A storm sash fastener for connecting a storm sash and a frame, said connector including a pair of pivotally connected arms, a stile bracket connected to the window frame, a second stile bracket secured to said storm sash, an offset means in said arms to space the free ends of said arms apart under spring tension, pivotal connecting means connecting the free ends of said arms to said stile brackets, said pivotal connecting means being movable into alignment in closed position of said storm sash, and cooperable means on the free ends of said arms and on said stile brackets operable in one angular position of said aligned window brackets when said arms are flexed together at the free ends thereof for detachably connecting said arms to said brackets.

2,348,655
VEHICLE CHASSIS
Charles E. Schuling, Des Moines, Iowa
Application October 28, 1943, Serial No. 508,017
2 Claims. (Cl. 280—33.44)



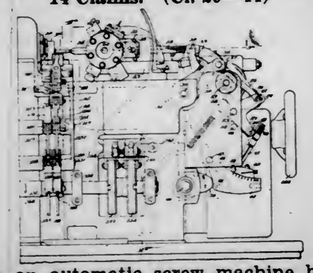
1. In a chassis for a tractor vehicle having a pair of spaced longitudinal side frame members, with said vehicle having a rear bumper supported on said frame members and a body terminating inwardly of said rear bumper, means for supporting a hitch portion, adapted to be connected with a trailer vehicle, adjacent to and above the level of said rear bumper comprising an angular member joined at each base end thereof with a longitudinal member and extended rearwardly from said longitudinal members within the confines of said rear bumper, with the apex portion of said angular member being at the longitudinal central axis of said chassis and adjacent the inner side of said rear bumper, a lateral member connected between the base ends of said angular member and constituting a base therefor, and a longitudinally extending supporting member secured to said lateral member and to said angular member at the apex portion thereof, with a vertically extended opening being formed through said supporting member and said apex portion adapted to receive said hitch portion therethrough.

2,348,656
CONTROL MECHANISM
Philip F. Scofield and David J. Conant, Cleveland Heights, Ohio, assignors to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application February 18, 1943, Serial No. 476,341
7 Claims. (Cl. 172—36)



1. In an energizer for an aircraft inertia starter, a motor, a switch mechanism for controlling said motor, a movable hand grip for manually operating said switch, a governor driven by said motor for operating said switch, and means operable upon release of said hand grip for setting said mechanism for another cycle of operation.

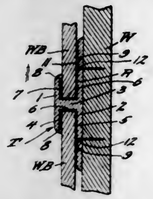
2,348,657
AUTOMATIC SCREW MACHINE
Frederick G. Silva and Wray S. Seymour, Rochester, N. Y., assignors to Davenport Machine Tool Co., Inc., Rochester, N. Y., a corporation of New York
Application October 11, 1941, Serial No. 414,626
14 Claims. (Cl. 29—44)



1. In an automatic screw machine having a work spindle and a tool turret and slide movable toward and from said spindle, the combination with said slide of means for moving the same comprising a plurality of cams, a plurality of separate actuators operated by said cams, respectively, lever means mounted for pivotal movement about an axis, means for effecting pivotal movement of said lever by each of said actuators in succession, and a connection between said lever means and said slide for moving said slide.

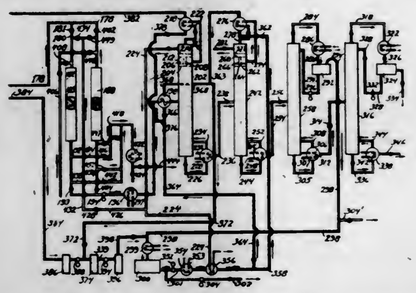
2,348,658
PLASTIC TRIM
Charles E. Slaughter, New Canaan, Conn., assignor to Extruded Plastics, Inc., Norwalk, Conn., a corporation of Connecticut
Application February 6, 1941, Serial No. 377,728
7 Claims. (Cl. 20—74)

1. A trim and support strip for holding wallboard in position on a wall, said strip comprising an extruded, continuous, elongated, firm, synthetic resinous, thermoplastic strip having in cross-section substantially parallel wide thin side portions joined by a narrow web to form a channel to receive wallboard, and a rigid reenforcement of material different from said plastic strip which reenforcement substantially conforms with



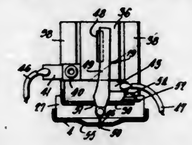
and is contiguous to the inner walls of the channel of said plastic strip the thermoplastic strip without the reenforcement being subject to cold flow and distortion in use, the reenforcement although not itself a functional structural shape capable of use alone, preventing such cold flow and distortion in use.

2,348,659
TREATING FLUID MIXTURES
Brook I. Smith, and Edward G. Morin, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application January 2, 1941, Serial No. 372,854
16 Claims. (Cl. 62—175.5)



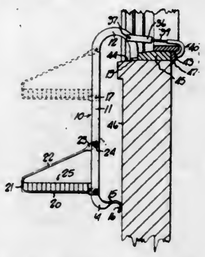
1. A method of separating lower molecular weight normally gaseous hydrocarbons from mixtures containing them which comprises compressing and cooling a gaseous hydrocarbon mixture to liquefy higher molecular weight hydrocarbons and introducing the mixture into a first separating zone, separately withdrawing liquids and gases from the said first separating zone, compressing and cooling the withdrawn gases and introducing them into a second separating zone, passing the withdrawn liquids directly to said second separating zone, withdrawing liquids and gases separately from said second separating zone, passing the liquids withdrawn from said second separating zone to a fractionating zone, fractionating said liquids to obtain a normally liquid hydrocarbon fraction containing gasoline constituents and a vapor fraction containing C_4 and lighter hydrocarbons, mixing the gases and vapors from said fractionating zone with the gases from said second separating zone, cooling the thus mixed gases and passing them to a third separating zone to separate normally liquid hydrocarbons from gases, returning the normally liquid hydrocarbons from said third separating zone to said second separating zone, removing moisture from the gases from said third separating zone, and compressing, cooling and fractionating the resulting dried gases to separate C_2, C_3 and C_4 fractions and a normally liquid fraction containing gasoline constituents.

2,348,660
PHONOGRAPH
Ingo L. Stephan, Delanco, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 19, 1940, Serial No. 370,865
8 Claims. (Cl. 179—100.41)



1. In a phonograph pickup device, a tone arm, a light source mounted thereon, a light-sensitive cell unit, a light-controlling member including a vibratory stylus, mounting means for said cell unit and said member comprising a single semi-resilient cantilever mounting permitting transverse vibratory movement of said member with respect to said cell unit in response to lateral undulations of a record groove, and guide means for the free portion of said cantilever mounting adapted to prevent lateral deflection thereof while permitting vertical deflection, whereby said pickup is responsive to a lateral recording and said stylus is enabled to recede whenever subjected to any abusive forces.

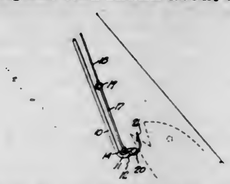
2,348,661
WINDOW JACK
John Arthur Stevens, South Bend, Ind.
Application January 14, 1942, Serial No. 426,751
2 Claims. (Cl. 304—27)



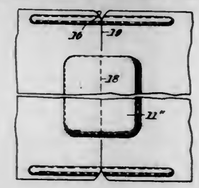
1. A window jack comprising a pair of rigid upright frame members each having a return bent upper end portion and a laterally off-set lower end portion, an extensible plank, plank supporting brackets carried by said frame members intermediate the height thereof, and a rigid hook pivoted to the upper end of the return bent portion of each frame member.

2,348,662
FISHHOOK EXTRACTOR
John Arthur Stevens, South Bend, Ind.
Application March 14, 1942, Serial No. 434,647
2 Claims. (Cl. 43—30)

1. A fishhook extractor comprising an elongated rigid shank, and a helical portion comprising slightly more than one helix, and extending back alongside said shank about an axis substantially parallel to said shank and spaced from said shank a distance greater than the radius of the outer surface of said helical portion.

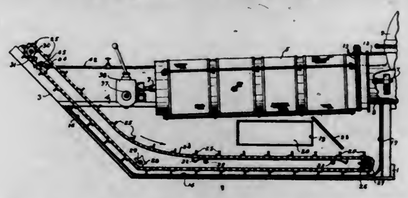


2,348,663
METHOD OF FORMING SHEET METAL ARTICLES
David W. Thomas, Youngstown, Ohio, assignor to The Youngstown Metal Products Company, Youngstown, Ohio, a corporation of Ohio
Application September 19, 1940, Serial No. 357,375
3 Claims. (Cl. 113—116)



1. In a method of making sheet-metal articles, the steps including subjecting a metal sheet to a deep-drawing operation to form an elongated well therein spaced from the edges of the sheet, cutting V-shaped notches in the edges of the sheet at points adjacent the longitudinal central plane through the well to remove excess metal and prevent wrinkling or buckling on further drawing, subjecting the well to a further deep-drawing operation and confining the portions of the sheet adjacent the notches substantially in their original plane so that the edges of each notch come together progressively as the metal adjacent the notches is drawn inwardly, without wrinkling or buckling.

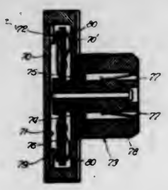
2,348,664
CONVEYER
Lee La Vere Thompson, Iowa Park, Tex.
Application March 17, 1941, Serial No. 383,815
10 Claims. (Cl. 210—199)



1. In a separator of the character described, the combination of a receptacle, a hollow rotary cylindrical screen mounted over said receptacle in position to receive fluid in one end thereof for the passage of filtrate through the screen into the receptacle and to direct screenings from the opposite end thereof outside the receptacle, an impeller wheel in the path of the fluid flow to the receptacle and operatively connected with

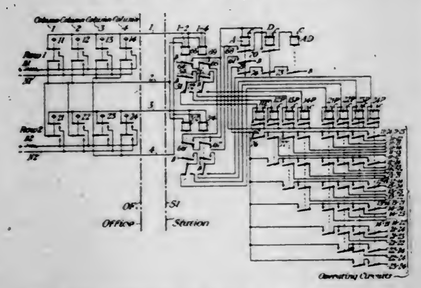
the rotary screen for turning said screen, an endless conveyer operatively mounted in the bottom of the receptacle and extending to a discharge point externally thereof, said conveyer being arranged to remove sediment from the bottom of the receptacle, power driving means for said conveyer connected with the discharge end portion of said conveyer, and means for connecting said power driving means with the impeller for operation of the conveyer therefrom.

2,348,665
ELECTRICAL OUTLET
George H. Von Gehr, Chicago, Ill.
Original application October 16, 1940, Serial No. 361,338, now Patent No. 2,332,766, dated October 26, 1943. Divided and this application April 19, 1943, Serial No. 483,684
8 Claims. (Cl. 191—23)



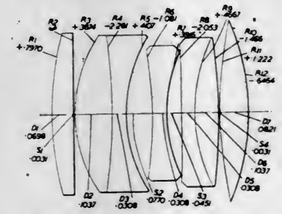
1. An electrical outlet comprising an elongated slotted strip of insulating material supporting within its slotted portion a number of elongated electrical conductors, the forward face of said strip being provided with depressions spaced longitudinally of the strip, and a plug having elements for engagement with said electrical conductors, a portion of said plug being adapted to cooperate with said depressions so that when positioned in one of said depressions, said elements engage said electrical conductors, and when positioned other than in said depressions said elements are positioned out of electrical contact with said electrical conductors means being provided for maintaining said cooperating portion of said plug in said depression when said portion of said plug is positioned in one of said depressions.

2,348,666
APPARATUS FOR TRANSMITTING ELECTRICAL SIGNALS
Herbert A. Wallace, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 26, 1942, Serial No. 432,441
3 Claims. (Cl. 177—353)



1. In combination, a plurality of normally deenergized polarized control relays, remote control means including control circuits one connected to each of said control relays and each of which control circuits is operative to apply at times current of either normal or reverse polarity to the respective control relay, a group of repeater relays comprising two repeater relays controlled by each control relay one over a normal polar contact of the respective control relay and the other over a reverse polar contact of the respective control relay, a slow acting relay controlled by a circuit completed over a front neutral contact of any one of said control relays, a stick circuit for each of said repeater relays and including a contact of said slow acting relay, another relay controlled through a circuit including in series a back neutral contact of each of said control relays, and a plurality of different operating circuits each of which operating circuits includes in series a front contact of each of two preselected repeater relays and a front contact of said other relay.

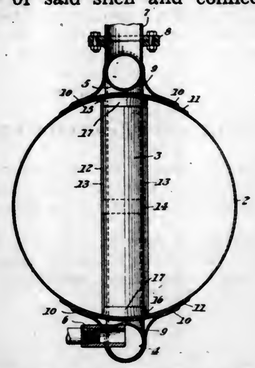
2,348,667
OPTICAL OBJECTIVE
Arthur Warmisham, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application March 23, 1943, Serial No. 480,203
In Great Britain March 30, 1942
20 Claims. (Cl. 88—57)



1. An optical objective for photographic or other purposes, corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and comprising five components in axial alignment, of which the first and fifth are simple convergent components, the second and fourth are compound components each consisting of a convergent element cemented to a divergent element, and the third is a simple divergent component, the difference (measured algebraically) between the curvatures of the rear surface of the third component and of the front surface of the fourth component being greater than twice and less than four times the reciprocal of the equivalent focal length of the whole objective.

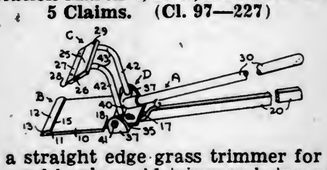
2,348,668
TUBE TYPE FLASH BOILER WATER HEATING DEVICE
John R. Wilson, Penn Township, Allegheny County, Pa., assignor, by mesne assignments, to Asbury G. Wilson, John Richard Wilson, and Theodore F. Wilson, Wilkinsburg, Pa., copartners trading as Hanlon & Wilson Company
Application October 4, 1941, Serial No. 413,593
6 Claims. (Cl. 122—7)

3. A tube type flash boiler water heating device, comprising a metallic shell forming an enclosure for the passage of heated gases, a plurality of tubes extending through said shell with their ends extending outside of the shell, an inlet header positioned exteriorly of said shell and connected to and communicating with one end of each of said tubes, an outlet header positioned exteriorly of said shell and connected to and



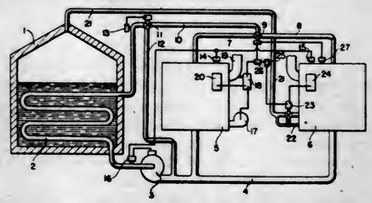
communicating with the other end of each of said tubes, and a resilient strap-like member operatively connected to said shell for supporting each header.

2,348,669
STRAIGHT-EDGE LAWN TRIMMER
Charley J. Winter, Altadena, Calif.
Application March 4, 1943, Serial No. 478,047
5 Claims. (Cl. 97—227)



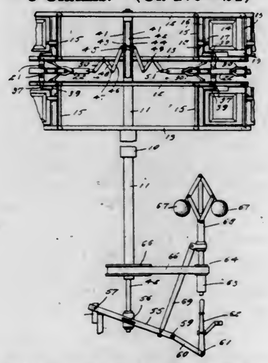
1. In a straight edge grass trimmer for lawns, terraces and banks, said trimmer being adapted to be operated in a substantially horizontal position, a flat elongated spade-like blade having a forward cutting edge and a rearward edge, a handle extending rearwardly from said rearward edge, a second blade disposed wholly above said first blade and having a forward cutting edge; pivot means connecting said second blade to said first blade so that said second blade may be swung to bring said cutting edges together, including a pivot; arms extending from said pivot to said second blade and bearings for said pivot all wholly above said first blade and adjacent said rearward edge thereof; and a handle secured to said pivot means and extending rearwardly therefrom and above said first handle.

2,348,670
CONTROL SYSTEM
Wallace W. Woodward, Chicago, Ill., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 6, 1940, Serial No. 355,649
17 Claims. (Cl. 210—2)



1. In a sewage treating system in which the sludge is heated by hot water passed through a coil of pipe that is in contact with the sludge, the combination of a plurality of separate heating means for the water used in the coil, one of said heating means normally heating the water, and means operative in response to a physical condition of a gas generated by the heated sludge to shut off said one heating means and start the other.

2,348,671
AUTOMATIC WIND MOTOR
Stefan Zgliczynski, Baltimore, Md.
Application June 1, 1942, Serial No. 445,347
5 Claims. (Cl. 170—24)

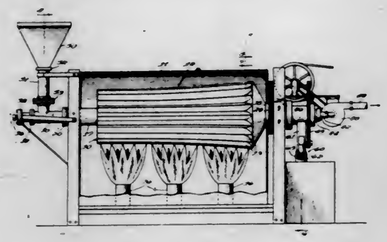


4. In control means for the feathering blades of a wind motor, a plurality of radial members comprising side bars, a series of blades pivotally mounted in the side bars of each member, an arm projecting from the pivoted side of each blade, a slide rod associated with each series of blades, each slide rod having a slot therein for each blade of the series with the slots of gradually increasing lengths, a pair of angular links pivotally connected with the pivot freely extending through an adjacent slot in the slide rod, a unitary multi-armed lever pivoted to a side bar, an angle arm of said lever pivoted to an adjacent angular link, a lug carried by another arm of the multi-armed lever engageable with the arm projecting from said blade, cross rods extending between the side bars, guide wheels carried by the cross rods between which the slide rod is movable, the pivotal connection between the multi-armed lever and angular link including a roller and a side opening U-shaped channel member secured to a side of the slide rod with the top and bottom flanges thereof movable into engagement with said rollers for operation of said multi-armed lever for the release of the blades and means for operating said slide rod.

2,348,672
OPAQUE SHEET MATERIAL
William R. Collings and Toivo A. Kauppi, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application June 12, 1940, Serial No. 340,148
7 Claims. (Cl. 106—193)

1. Opaque sheet material, printable with both drying oil inks and solvent-type inks, containing as the predominant ingredients ethyl cellulose of from 44.5 to 46.5 per cent ethoxy content, and, for each 65 to 85 parts by weight thereof, from 10 to 30 parts by weight of an opacity producing pigment and from 1 to 10 parts of an ethyl cellulose plasticizer of hardness index greater than 100.

2,348,673
ROTARY KILN FOR EXTRACTION OF MERCURY FROM ITS ORES
Charles F. Degner, Chicago, Ill.
Application September 8, 1941, Serial No. 410,106
2 Claims. (Cl. 266—18)

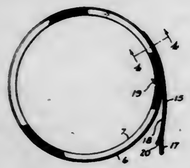


1. A rotary kiln comprising a sealed horizontal drum, a hollow bearing near each end of the drum, a hopper communicating through one of said hollow bearings with one end of the drum, air lock means in the hopper, means within the drum at the exit end thereof for elevating ashes into the hollow bearing, liquid sealed means for removing ashes through the bearing, means for removing vapor without admitting air, and means for heating the drum.

2,348,674
SHOE BOTTOM FILLER
Howard M. Dodge and Russell J. Bush, Wabash, Ind., assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application October 5, 1939, Serial No. 298,084
4 Claims. (Cl. 260—744)

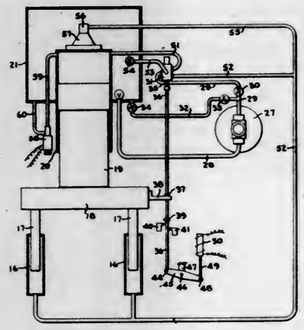
2. A normally plastic shoe bottom filler which is easily spread at normal temperatures and which retains a spreadable consistency in closed containers for an indefinite period, comprising comminuted cork, fibers, rosin, and a rubber cement having a continuous phase of rubber swollen by solvent and a disperse phase of a liquid which is not a rubber solvent, said cement also containing a dissolved wax which facilitates spreading of the normally plastic composition.

2,348,675
PROTECTIVE BAND FOR PROJECTILES
Howard M. Dodge, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 16, 1941, Serial No. 407,161
3 Claims. (Cl. 102—1)



1. A removable band for protecting shells or the like comprising a substantially cylindrical transversely split reinforcing ring of sheet metal which extends nearly the full width of the band, an elastic rubber body covering said reinforcing ring interiorly and exteriorly, said rubber body being formed to provide inwardly projecting shell engaging cushioning ribs composed entirely of elastic rubber interiorly of the side edge portions of the sheet metal ring, the shell engaging edges of said cushioning ribs being corrugated.

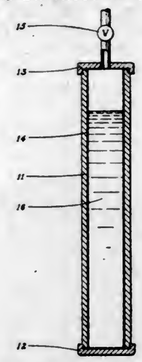
2,348,676
ELECTRICALLY CONTROLLED HYDRAULIC PRESS
Paul E. Flowers, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Original application August 31, 1939, Serial No. 292,934, now Patent No. 2,283,358, dated May 19, 1942. Divided and this application May 31, 1941, Serial No. 396,005
7 Claims. (Cl. 60—52)



1. In a hydraulic press control system, the combination with reversible hydraulic motor means having a reciprocable ram and a source of pressure fluid therefor with a flow-control member for reversibly controlling the distribution of pressure fluid to said hydraulic motor means, of electrical means for actuating said flow-control member, a press control element interconnecting said electrical means and said flow-control member and operable to reciprocate the latter, said press control element being engageable by said ram, a main circuit controlling said electrical means, a first limit switch and a second limit switch actuated in succession by said press control element when the latter moves in one direction at the end of the working stroke, a monitor circuit energized upon actuation of said second limit switch for partially closing said main circuit, said press control element being moved in the opposite direction by said ram near the end of its retraction stroke to again actuate said first limit switch to complete the closure of said main circuit for automatically starting a new working stroke of said ram.

2,348,677
POLYMERIZATION IN METAL MOLDS
Richard D. Freeman, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application October 30, 1942, Serial No. 463,952
4 Claims. (Cl. 18—47)

1. A mold for the preparation of resinous objects by the polymerization of a resin-forming liquid comprising a metal body having a mold cavity therein, the surfaces of the cavity being

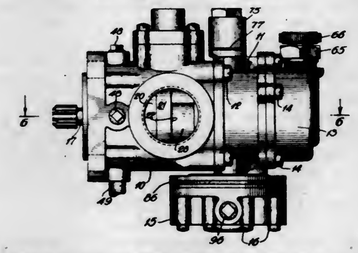


coated with a film of a substance selected from the class consisting of cellulose glycolic acid and salts thereof.

2,348,678
PREVENTING CORROSION OF LIGHT-METAL SURFACES
Percy Frederick George, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 23, 1940, Serial No. 371,392
3 Claims. (Cl. 44—56)

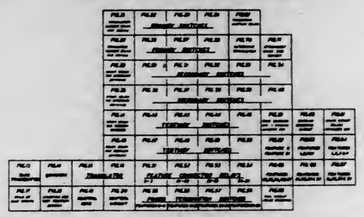
1. A method of protecting a fuel tank formed of a magnesium-base alloy against corrosive attack by a liquid system stored therein consisting of hydrocarbon fuel containing tetra-ethyl lead anti-knock fluid in contact with the aqueous condensate normally present in the tank which comprises introducing sodium silicate as the sole inhibiting agent into the tank in contact with the aqueous phase.

2,348,679
PUMP
Warren Wilfred Groves, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application March 14, 1941, Serial 383,258
23 Claims. (103—38)



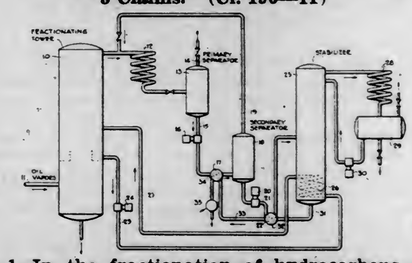
1. In a pump of the class described, a positioning member for a pump mechanism adapted to determine the volume pumped by said mechanism, a spring for pressing said positioning member into a predetermined volume position, an expansible and contractible diaphragm, said pump having passages connecting the discharge pressure of said pump to said diaphragm whereby said pressure acts against the diaphragm to expand it, means whereby the diaphragm effects the movement of said positioning member against the pressure of said spring toward non-pumping position, and means mounting said diaphragm so that the effective area thereof against which said discharge pressure is applied increases through the deforming of said diaphragm as said positioning member is moved by said diaphragm against the pressure of said spring whereby to compensate for the increasing pressure of said spring.

2,348,680
SWITCHING SYSTEM
Fredrick E. Hanson, Westfield, Robert K. Smith, Newark, and John H. Sulzer, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1942, Serial No. 441,056
7 Claims. (Cl. 177—353)



1. Means for establishing a complex electrical path through a series of switching points, comprising a self-locking magnetic means for controlling said points, a field of terminals for said magnetic means, permutation code responsive means for selectively applying impulses to said terminals for operating and for releasing said magnetic means, and means having a terminal in said field for simultaneously releasing all operated magnetic means, said code responsive means being responsive to one code for applying an operating impulse of one charatcer to any one of said terminals, responsive to a different code for applying a releasing impulse of another character to the same said terminal and responsive to a still different code for operating said simultaneous releasing means.

2,348,681
STABILIZING HYDROCARBONS
Glen S. Houghland, New York, N. Y., assignor to Gasoline Products Company, Inc., Jersey City, N. J., a corporation of Delaware
Application June 14, 1941, Serial No. 398,097
3 Claims. (Cl. 196—11)



1. In the fractionation of hydrocarbons, the process that comprises subjecting hydrocarbon vapors comprising normally liquid and normally gaseous hydrocarbons to fractionation under superatmospheric pressure to separate higher boil-

ing oils from uncondensed vapors and gases, cooling the separated vapors and gases in a cooling zone under superatmospheric pressure to condense substantially all the normally liquid hydrocarbons and C_3 and C_4 hydrocarbons, passing the resultant cooled products to a separating zone wherein separation into normally gaseous constituents and liquid distillate takes place without rectification, maintaining sufficient superatmospheric pressure in said separating zone as to effect retention of substantially all the normally liquid hydrocarbons in the liquid distillate and so that the separated gaseous constituents consist essentially of the lighter normally gaseous constituents, directing the separated liquid distillate to a heating zone wherein it is subjected to moderate heating, passing the resultant heated products to a second separating zone wherein a further separation of normally gaseous constituents from liquid takes place without rectification maintaining a higher pressure in the latter separating zone adequate to effect retention of substantially all the normally liquid hydrocarbons in the liquid and so that the separated gaseous constituents consist essentially of lighter normally gaseous hydrocarbons, recycling the latter normally gaseous constituents to said cooling zone and passing said liquid to a stabilizing zone wherein it is subjected to rectification under superatmospheric pressure to produce a liquid product of desired vapor pressure.

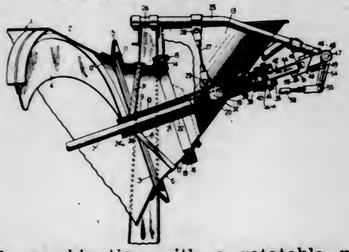
2,348,682

DOOR STRUCTURE FOR MIXERS

Gebhard Jaeger and Clarence I. Bohmer, Columbus, Ohio, assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application April 10, 1942, Serial No. 438,432

18 Claims. (Cl. 259—161)



1. In combination with a rotatable mixing drum having an opening at the end thereof, a supporting member disposed centrally of said opening and projecting rearwardly from said drum, said supporting member being supported by the drum for rotation therewith, an annular door mounted for axial movement on said supporting member from a position where its forward edge is associated with said opening to a position where said edge is spaced from the opening to permit discharge from the drum, said door being carried by a sleeve mounted for axial movement on said supporting member, a material-receiving hopper disposed behind said door and adapted to feed material into and through the door, an independent non-rotatable supporting member for supporting said hopper for floating movement relative to the door, said hopper being provided with a sleeve through which said first-named supporting member and said first-named sleeve extend, cooperating sealing surfaces between the forward edge of said door and said drum disposed around said opening, cooperating sealing surfaces between the rear edge of said door and said hopper, means for normally maintaining said sealing surfaces in contact, said means including resilient means supported by said first-named sleeve and forcing the hopper forwardly into contact with the door, and a toggle lock connected to said first-named sleeve for forcing the door forwardly and holding it in contact with the drum, said toggle lock being operable to move said door away from the drum to permit discharge of material.

2,348,683

SEPARATION OF DI-ISOPROPYL AMINE FROM ISOPROPYL ALCOHOL

James F. McKenna, Wyandotte, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware

No Drawing. Application April 3, 1942, Serial No. 437,552

4 Claims. (Cl. 202—42)

1. In the separation of di-isopropyl amine from mixtures containing di-isopropyl amine and isopropyl alcohol, the process comprising removing the di-isopropyl amine by providing a mixture containing sufficient water to form a binary constant boiling mixture with all of the di-isopropyl amine present, thereafter distilling said di-isopropyl amine overhead as a constant boiling mixture with said water, and thereafter separating the di-isopropyl amine removed overhead from the water contained in the overhead distillate.

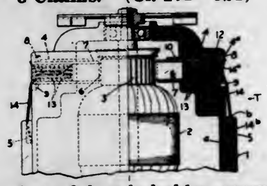
2,348,684

BRUSH HOLDER FOR DYNAMOELECTRIC MACHINES

Kenneth Perkins, Scotch Plains, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 11, 1942, Serial No. 434,243

8 Claims. (Cl. 171—324)



1. A brush and brush holder assembly for a dynamoelectric machine having a casing provided with a radial bore and a longitudinal pocket, comprising a metallic tube in said bore, said tube having a tang engaging said casing to position the tube therein, a sheet metal contact plate having one portion in said bore in contact with said tube and another portion carrying an electric terminal, said plate having a tang engaging said casing to position said plate relative thereto, a brush slidingly mounted in the inner end of said tube, a coil spring behind and in contact with said brush, and a sheet metal retaining element having one end inserted in said pocket and its other end engaging the outer end of said tube and said coil spring.

2,348,685

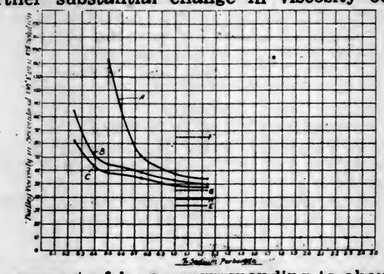
TUB SIZE FOR PAPER

Rolland D. Smith, Niles, Mich., and Herbert F. Gardner, Chicago, Ill., assignors to Stein, Hall Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application May 29, 1940, Serial No. 337,759

7 Claims. (Cl. 127—33)

1. The method of producing a tub size from a corn starch containing substantial amounts of alpha amylose which comprises heating said starch in an aqueous medium with sodium perborate and borax to a temperature of about 200° F. and maintaining said temperature until no further substantial change in viscosity occurs,



the amount of borax corresponding to about 1% to about 3% based on the weight of the starch and the amount of sodium perborate corresponding to about 0.25% to about 2% based upon the weight of the starch.

2,348,686

PAPER

Clarence F. Van Epps, Lockport, N. Y., assignor to The Lauxite Corporation, Lockport, N. Y., a corporation of New York

No Drawing. Application March 27, 1940, Serial No. 326,286

2 Claims. (Cl. 95—8)

1. Paper having a sizing of urea formaldehyde resin including up to about 1% aluminum sulphate based on the dry weight of the urea, and a light sensitive coating applied over said sizing, said sizing rendering the paper non-absorbent to water and non-curling in the presence of water and being chemically inactive to deteriorate the light sensitive chemicals of said coating.

2,348,687

COMPOSITION FOR COATING AND LAMINATING SHEET MATERIALS

Allen Abrams and George W. Forcey, Wausau, Winfred H. Graebner, Neenah, Alfred M. Heald, Wausau, and George G. Rumberger, Neenah, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin

No Drawing. Application November 30, 1942, Serial No. 467,466

16 Claims. (Cl. 106—219)

1. A composition for coating sheet materials comprising a major proportion by weight of microcrystalline wax and an aluminum soap of a higher fatty acid, said composition having been transformed from a thixotropic gel of maximum viscosity to a less thixotropic condition approaching the Newtonian condition as determined by a Brookfield Synchro-lectric viscosimeter at 250° F., and being in a homogeneous, spreadable, rheological state for forming smooth, non-penetrating, adherent, flexible coatings.

2,348,688

HEAT-SEALABLE LABEL

Allen Abrams and George W. Forcey, Wausau, Winfred H. Graebner, Neenah, Alfred M. Heald, Wausau, and George G. Rumberger, Neenah, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin

No Drawing. Application November 30, 1942, Serial No. 467,468

7 Claims. (Cl. 117—122)

1. A heat-sealable label having a base of porous sheet material coated with a composition comprising a major proportion by weight of microcrystalline wax, about 4 to about 10% by weight of an aluminum soap of a higher fatty acid and about 3 to about 10% by weight of ester gum, said composition having been transformed from a thixotropic gel of maximum viscosity to a less thixotropic condition approaching the Newtonian condition as determined by a Brookfield Synchro-lectric viscosimeter at 250° F., and being in a homogeneous, spreadable, rheological state for forming uniformly smooth, non-penetrating, adherent, flexible coatings.

2,348,689

CONTAINER

Allen Abrams, Donald W. Davis and George W. Forcey, Wausau, George G. Rumberger, Neenah, and Charley L. Wagner, Menasha, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin

No Drawing. Application November 30, 1942, Serial No. 467,470

8 Claims. (Cl. 99—178)

1. A container for packaging hot flowable materials congealable upon cooling to a solid condition, formed from a sheet material provided with an adherent, continuous, flexible, thermoplastic coating, arranged so as to present said coating throughout the interior surface of the container, said coating being formed from a composition comprising mircrocrystalline wax, said coating composition having a penetration value (A. S. T. M. method D5–25) not less than 10 at 45° F., and not greater than 60 at 77° F., said coating having the characteristics of remaining intact and unimpaired when the hot molten material is placed in contact therewith and then congealed, said coated sheet material inhibiting moisture loss from the material packaged in the container and being peelable from the congealed material with the coating adhering to said sheet material.

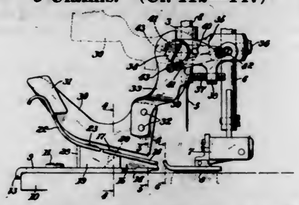
2,348,690

WORK-FOLDING ATTACHMENT FOR SEWING MACHINES

James E. Ackerman, Devon, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

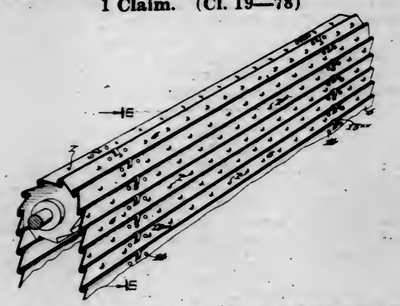
Application December 13, 1941, Serial No. 422,835

5 Claims. (Cl. 112—147)



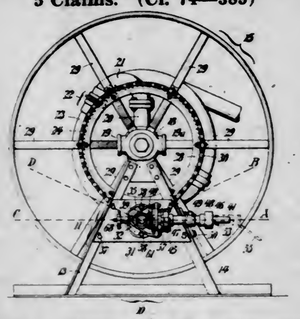
1. A sewing machine attachment adapted for opening out and folding back the adjacent margins of two supperposed pieces of fabric, comprising, a base-plate, a seam-opening fin provided on said base-plate, a pair of plates disposed one on each side of said seam-opening fin and providing a concave work-supporting surface inclined downwardly toward the delivery end of said attachment, the axis of concavity of said work-supporting surface being disposed transverse to the plane containing said seam-opening fin, said plates having juxtapositioned edges disposed on opposite sides of said seam-opening fin and defining between them a fabric-directing passageway in alinement with said seam-opening fin, and means for supporting said plates on said base-plate.

2,348,691
WOOL FEEDING APPARATUS
John Belli, Clifton, N. J., assignor to Botany Worsted Mills, Passaic, N. J., a corporation of New Jersey
Application May 12, 1943, Serial No. 486,637
1 Claim. (Cl. 19—78)



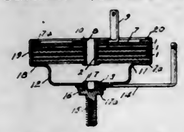
In wool feeding apparatus, a feeding apron comprising a plurality of bars carrying spurs, each bar having at its longitudinal margins curved areas interfitting with like curved areas on adjacent coacting feed bars of similar formation, each curved area being formed with an aperture intermediate its length, a contact member carried by one of each of said two bars and having two laterally projecting members, one being a finger projected into the curved area of said bar and the curved area of an interfitting bar via their apertures and engaging each of the said two bars at edges of their said apertures, and the second projecting member being a finger extending angularly of the first finger, and feeding rollers having channelways for receiving the last named fingers and for feeding the apron.

2,348,692
HOSE REEL
James A. Jensen, Philadelphia, Pa., assignor to Charles E. Frick, J. Rodman McCoy, John H. Jenson, James A. Jenson, Emerson F. Davis, executor and ancillary executor under the will of George M. Heller, deceased; Guy B. Frick, Charles E. Frick, Jr., G. Donald Whyte, and Fred J. Stackpole, copartners trading under the name of Philadelphia Valve Company, Philadelphia, Pa.
Application April 25, 1942, Serial No. 440,493
5 Claims. (Cl. 74—385)



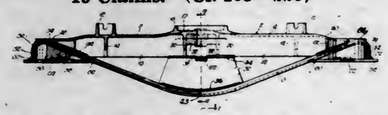
1. Driving mechanism for a hose reel of the character described having a standard to support journals for a horizontal shaft whereon the reel is mounted, said mechanism including a transmission shaft disposed in parallel relation to the reel shaft at a level below the reel shaft and geared thereto; an actuating shaft at right angles to the transmission shaft; a pair of intermeshing bevel gears connecting the transmission and actuating shafts; a bearing member for the transmission and actuating shafts capable of being adjusted about the transmission shaft as an axis; and means for securing the bearing in adjusted positions to the standard.

2,348,693
ELECTRIC CAPACITOR
Byron B. Minnium, Erie, Pa., assignor to Erie Resistor Corp., Erie, Pa., a corporation of Pennsylvania
Application February 5, 1942, Serial No. 429,645
2 Claims. (Cl. 175—41)



1. In an electric capacitor, the combination of a pile of dielectric plates, each plate having an opening therethrough, conductors bonded on opposite faces of said plates, the edges of the opposite conductors being spaced from the opposite edges of the plates, one conductor having its other edge extending over the edge of the opening, the other conductor having its other edge extending over the outer edge of the plate, the turned over edges of the conductor having return portions along the opposite faces of the plates spaced from the opposing conductors, a pressure ring on the outside edge of each of the outer plates, a plurality of means for securing said plates together, one at the center and the other at the periphery, said latter means contacting the pressure ring, said means being so disposed as to apply pressure as far as possible from the active area of the plates, whereby the capacity is substantially independent of the pressure exerted by the securing means.

2,348,694
BOLSTER
Alfred H. Oelkers, New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 14, 1941, Serial No. 398,031
15 Claims. (Cl. 105—226)

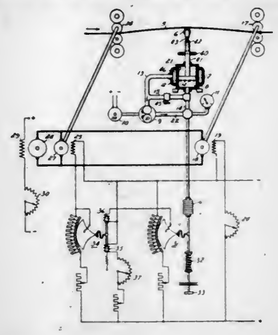


8. In a fabricated bolster, tension and compression members welded to each other at opposite ends thereof, a spring plate at each end of the bolster welded to said tension member, and column guides welded to said members and said plates.

2,348,695
TENSION INDICATOR AND CONTROL
Harold E. Reichert, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 10, 1942, Serial No. 434,083
15 Claims. (Cl. 80—35)

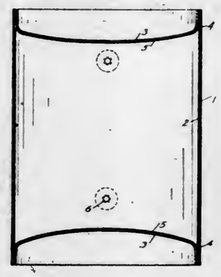
1. In a system for tensioning a strip of material, an idler roll, a piston supporting said idler roll in contact with said strip, means comprising

a cylinder for supplying fluid under pressure to said piston, and valve means providing for and



controlling leakage of said fluid from said cylinder when said piston is at a predetermined point intermediate the ends of said cylinder.

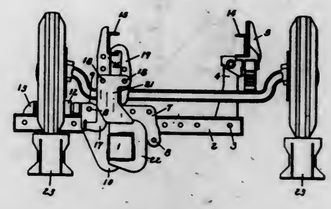
2,348,696
METHOD OF FORMING TANKS
Henry Eric Schabacker, Erie, Pa., assignor to The Erie Enameling Company, Erie, Pa., a corporation of Pennsylvania
Application September 19, 1941, Serial No. 411,548
1 Claim. (Cl. 29—84)



The method of assembling vitreous enamel coated tanks having a wall member and a head member, said members having, when assembled, contiguous opposing peripheral vitreous enamel coated surfaces, which consists in heating the surface of the outer member only and sufficiently in relation to the cool head member to create an expansion of the outer member of such an order that the parts are readily assembled and that subsequent shrinking, upon cooling, will contract and densify the coating, assembling the members with the member so heated and the enamel in a condition of flux with the other member relatively cool and permitting the hot outer member to shrink into pressure relation with the vitreous enamel as the enamel sets by cooling while the members are in assembled position.

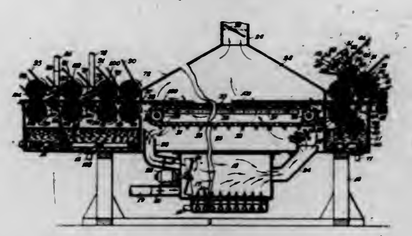
2,348,697
BENDING APPARATUS
Roy D. Smith, Mertzon, Tex., assignor to Bee-Line Company, Scott County, Iowa, a copartnership
Application June 1, 1943, Serial No. 489,295
5 Claims. (Cl. 153—32)

1. In apparatus of the nature indicated, a tool-supporting beam, means for supporting said beam from the frame of a motor vehicle, a cross-beam supported by said tool-supporting beam, resting thereon, and adapted to support work members, and work members supported on said



beams, one of said work members being extensible and, when extended, being adapted to cause movement of the cross-beam with relation to the first mentioned beam, transversely thereof.

2,348,698
METHOD OF ROLLER COATING
John S. Thompson, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
Application August 3, 1940, Serial No. 351,900
7 Claims. (Cl. 148—6)

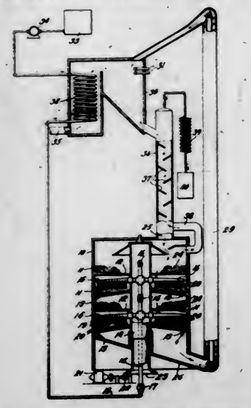


1. In the chemical treatment of a metallic surface to form a corrosion-resistant paint-holding base thereon, the steps of moving a metallic surface in non-immersed condition past a roll having a yielding surface thereon, pressing the roll against the metallic surface during said moving, feeding an aqueous solution containing paint-base-forming chemicals between said roll surface and said metallic surface, adjusting the pressure of the roller against the metallic surface so that said solution is pressed into chemically reactive contact with said metallic surface and the desired amount of solution remains on said metallic surface and forming a paint-holding coating on the metallic surface from the chemicals so applied and their reaction products.

2,348,699
METHOD OF CRACKING HYDROCARBON VAPORS
Malcolm H. Tuttle, New Rochelle, N. Y., assignor to Max B. Miller & Co., Inc., New York, N. Y., a corporation of Delaware
Application May 22, 1941, Serial No. 394,657
4 Claims. (Cl. 196—52)

3. Method of treating tar which comprises depositing the tar on hot granular catalytic material whereby part of the tar is converted to vapors and part to coke, rabbling the bed to keep it in loose condition, withdrawing catalytic material coated with coke, burning the coke off said

material, using the hot gases produced in the burning operation to preheat the tar, and passing the hot catalytic material countercurrent to the vapors from the coking operation prior to depositing tar on said catalytic material.

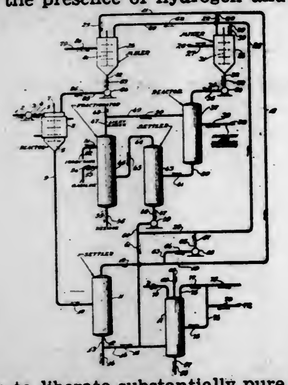


2,348,700
TREATMENT OF BUTANE
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 28, 1940, Serial No. 372,174
11 Claims. (Cl. 260—683.5)

1. A process for the isomerization of normal butane to produce substantial yields of isobutane therefrom which comprises subjecting said normal butane to contact with a catalyst comprising essentially aluminum chloride and aluminum bromide.

2,348,701
TREATMENT OF HYDROCARBONS
Louis Schmerling, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 29, 1940, Serial No. 343,189
7 Claims. (Cl. 196—54)

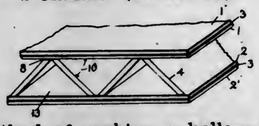
6. A process for the conversion of hydrocarbon oil, which comprises refining said oil in the presence of a mixture comprising aluminum chloride and a relatively light aluminum chloride sludge, under conditions of temperature and pressure selective in effecting removal of olefins and aromatics to form a substantially saturated oil and a relatively heavy aluminum chloride sludge, separating the substantially saturated oil from the relatively heavy aluminum chloride sludge, subjecting the substantially saturated oil to destructive hydrogenation in the presence of hydrogen, hydrogen chloride and a catalyst comprising aluminum chloride, separating resultant conversion products from aluminum chloride sludge formed in the reaction, recovering the former, supplying at least a portion of said aluminum chloride sludge to the refining step as said relatively light aluminum chloride sludge, combining the remaining portion of said aluminum chloride sludge with said relatively heavy aluminum chloride sludge, subjecting the mixture to heat and pressure in the presence of hydrogen and hydrogen chloride to liberate substantially pure aluminum chloride and hydrocarbons contained therein, and returning at least a portion of said substantially pure aluminum chloride to the pretreating and conversion step.



2,348,702
HYDROGENATION OF HYDROCARBON MATERIALS
Louis Schmerling and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 26, 1941, Serial No. 412,464
6 Claims. (Cl. 196—53)

1. A process for converting normally liquid hydrocarbon mixtures into lower boiling products which comprises subjecting the hydrocarbons to destructive hydrogenation under substantial hydrogen pressure and in the presence of a solid catalyst comprising magnesium oxide and substantially anhydrous magnesium chloride.

2,348,703
PLYWOOD STRUCTURE
Francis M. Weir and Paul M. Dolan, Essex, Conn.
Application April 9, 1942, Serial No. 438,226
2 Claims. (Cl. 20—91)



1. A method of making a hollow corrugated structure consisting in providing opposite sides of a sheet material with alternate parallel grooves, folding the sheet along the lines opposite the grooves so as to open the grooves into substantially flat portions, and attaching outer sheets to the flat portions so as to obtain triangular prismatic clearances between the folded portions of the inner member and the outer sheets.

DESIGNS

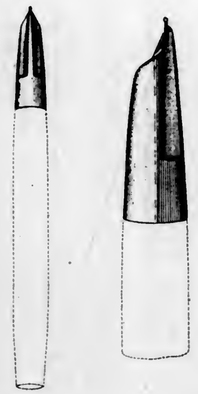
MAY 9, 1944

137,859
DESIGN FOR A BOW-BUCKLE OR SIMILAR ARTICLE
Emil J. Castle, Lenox, Mich.
Application March 30, 1944, Serial No. 113,089
Term of patent 7 years
(Cl. D17—1)



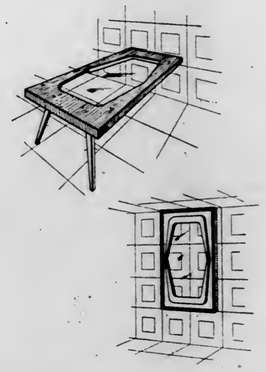
The ornamental design for a bow-buckle or similar article, as shown.

137,860
DESIGN FOR A FOUNTAIN PEN
George Douglas Cloutier, Chicago, Ill., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application February 18, 1944, Serial No. 112,621
Term of patent 14 years
(Cl. D74—17)



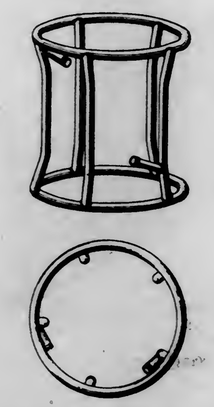
The ornamental design for a fountain pen, substantially as shown and described.

137,861
DESIGN FOR A COMBINATION TABLE AND WALL PLAQUE
Halbert Creston Doner, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application September 27, 1943, Serial No. 111,217
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a combination table and wall plaque, substantially as shown and described.

137,862
DESIGN FOR AN AIRCRAFT ENGINE STARTER SUPPORTING FRAME
David J. Conant, Shaker Heights, Ohio, assignor to Jack & Heintz Research Corporation, Bedford, Ohio, a corporation of Ohio
Application January 24, 1944, Serial No. 112,306
Term of patent 14 years
(Cl. D71—1)



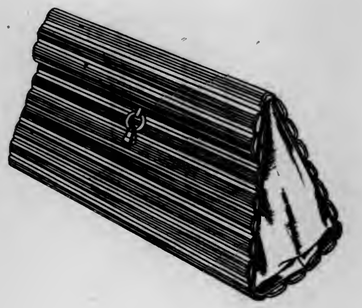
The ornamental design for an aircraft engine starter supporting frame, substantially as shown.

137,863
DESIGN FOR A GOLF CLUB HEAD
John Jay Jakosky, Lawrence, Kans.
Application June 14, 1943, Serial No. 110,445
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a golf club head, as shown.

137,864
DESIGN FOR A HANDBAG
Ida Jolles, New York, N. Y.
Application March 22, 1944, Serial No. 112,998
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown, and described.

137,865
DESIGN FOR A ROSARY OF THE STATIONS OF THE CROSS
John C. Kelley, New Haven, Conn.
Application February 1, 1944, Serial No. 112,404
Term of patent 3½ years
(Cl. D45—16)



The ornamental design for a rosary of the stations of the cross, as shown.

137,866
DESIGN FOR A CASING FOR WRITING IMPLEMENT OR THE LIKE
Raymond Loewy, New York, N. Y., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application November 6, 1943, Serial No. 111,611
Term of patent 14 years
(Cl. D74—17)



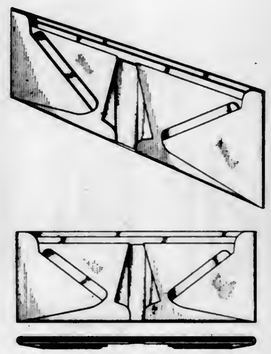
The ornamental design for a casing for writing implement or the like, substantially as shown and described.

137,867
DESIGN FOR A CASING FOR WRITING IMPLEMENT OR THE LIKE
Raymond Loewy, New York, N. Y., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application November 6, 1943, Serial No. 111,612
Term of patent 14 years
(Cl. D74—17)



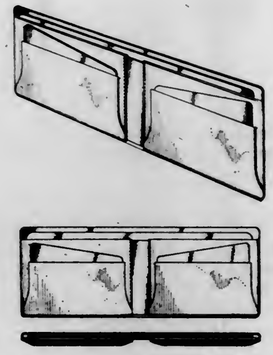
The ornamental design for a casing for writing implement or the like, substantially as shown and described.

137,868
DESIGN FOR A WALLET
Charles Meyers, New York, N. Y.
Application December 3, 1943, Serial No. 111,886
Term of patent 14 years
(Cl. D87—3)



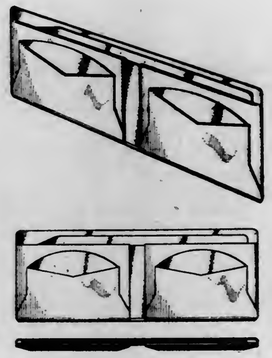
The ornamental design for a wallet, as shown and described.

137,869
DESIGN FOR A WALLET
Charles Meyers, New York, N. Y.
Application December 3, 1943, Serial No. 111,887
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a wallet, as shown and described.

137,870
DESIGN FOR A WALLET
Charles Meyers, New York, N. Y.
Application December 3, 1943, Serial No. 111,889
Term of patent 14 years
(Cl. D87—3)



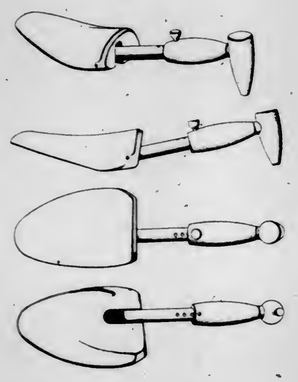
The ornamental design for a wallet, as shown and described.

137,871
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Harry Morris, Chicago, Ill.
Application March 20, 1944, Serial No. 112,961
Term of patent 7 years
(Cl. D45—9)



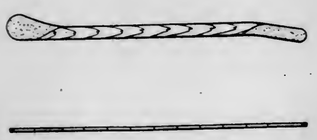
The ornamental design for an earring or similar article, substantially as shown.

137,872
DESIGN FOR A SHOE TREE
James B. Mutch, Rochester, N. Y., assignor to Schelter Last Co., Inc., Rochester, N. Y., a corporation of New York
Application March 11, 1943, Serial No. 109,725
Term of patent 7 years
(Cl. D7—3)



The ornamental design for a shoe tree, as shown and described.

137,873
DESIGN FOR A STICK FOR SPINNING BALL
John Palmieri, New York, N. Y.
Application February 5, 1944, Serial No. 112,462
Term of patent 3½ years
(Cl. D34—5)



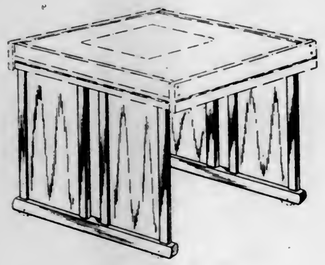
The ornamental design for a stick for spinning ball, as shown.

137,874
DESIGN FOR A SIGN OR THE LIKE
Charles P. Partridge, Richmond, Calif.
Application May 4, 1943, Serial No. 110,111
Term of patent 14 years
(Cl. D1—12)



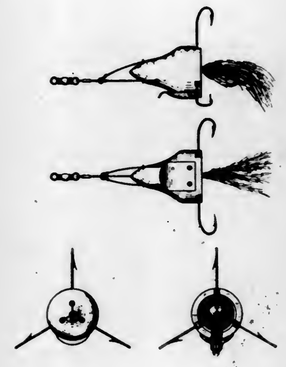
The ornamental design for a sign or the like, as shown and described.

137,875
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application January 31, 1944, Serial No. 112,380
Term of patent 14 years
(Cl. D33—14)



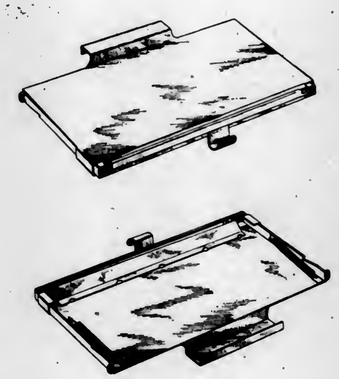
The ornamental design for a child's feeding and play table, as shown and described.

137,876
DESIGN FOR A FISH LURE
Riffie Simpson, Indianapolis, Ind.
Application September 13, 1943, Serial No. 111,116
Term of patent 7 years
(Cl. D31—4)



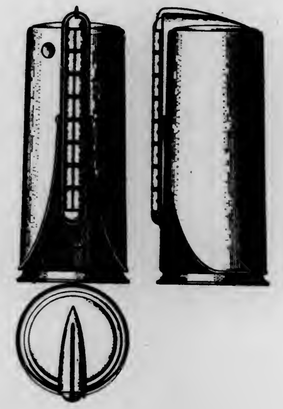
The ornamental design for a fish lure, as shown.

137,877
DESIGN FOR A COMBINED BED TABLE AND REFUSE RECEPTACLE SUPPORT
Travis O. Smith, Kansas City, Mo., assignor, by mesne assignments, to David M. Lorenz, Johnson County, Kans.
Application February 7, 1944, Serial No. 112,499
Term of patent 7 years
(Cl. D33—14)



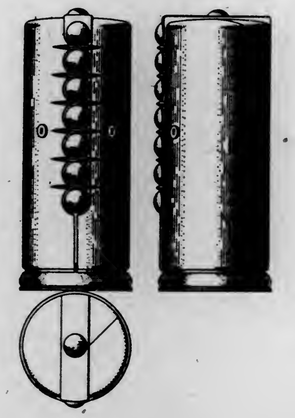
The ornamental design for a combined bed table and refuse receptacle support, as shown.

137,878
DESIGN FOR A VENDING MACHINE CABINET
John Tavis, Bayside, N. Y., assignor to The Rotomat Corporation, a corporation of Rhode Island
Application August 18, 1943, Serial No. 110,934
Term of patent 7 years
(Cl. D52—3)



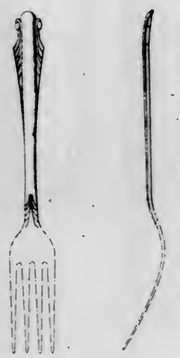
The ornamental design for a vending machine cabinet, as shown.

137,879
DESIGN FOR A VENDING MACHINE CABINET
John Tavis, Bayside, N. Y., assignor to The Rotomat Corporation, a corporation of Rhode Island
Application August 18, 1943, Serial No. 110,935
Term of patent 7 years
(Cl. D52—3)



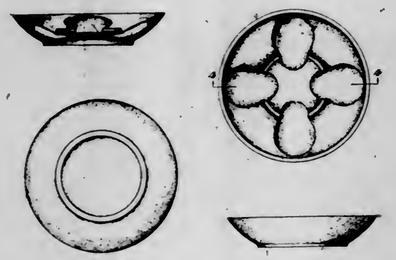
The ornamental design for a vending machine cabinet, as shown.

137,880
DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE
Philip Vitolo, Long Island City, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York
Application March 6, 1944, Serial No. 112,787
Term of patent 14 years
(Cl. D54—12)



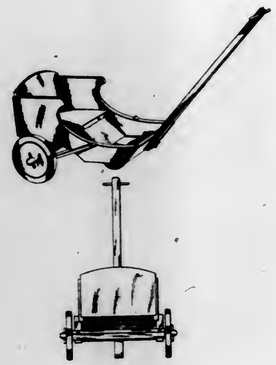
The ornamental design for a fork or other article of flatware, as shown.

137,881
DESIGN FOR A SAUCER
Thomas W. Wall, New Rochelle, N. Y.
Application October 2, 1943, Serial No. 111,258
Term of patent 14 years
(Cl. D44—9)



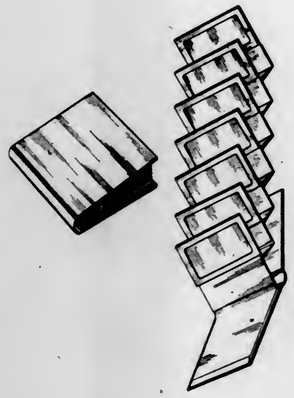
The ornamental design for a saucer, as shown.

137,882
DESIGN FOR A STROLLER
Claude Wells, Milwaukee, Wis.
Application September 1, 1943, Serial No. 111,038
Term of patent 7 years
(Cl. D14—14)



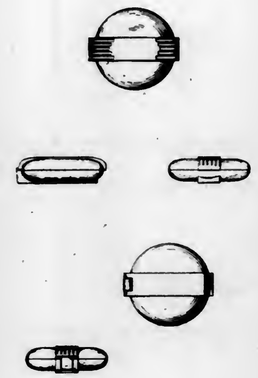
The ornamental design for a stroller, as shown.

137,883
DESIGN FOR A DISPLAY ALBUM
William Widder, New York, N. Y., assignor to J. Widder & Co., New York, N. Y., a copartnership comprised of Samuel Widder and William Widder
Application March 1, 1944, Serial No. 112,763
Term of patent 3½ years
(Cl. D61—1)



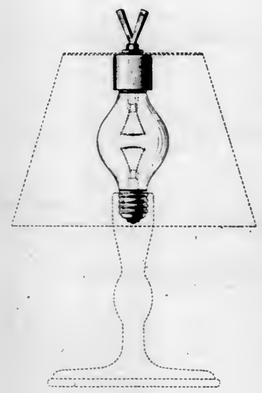
The ornamental design for a display album, as shown.

137,884
DESIGN FOR A COSMETIC CONTAINER
Morris Yellin, Chicago, Ill.
Application April 6, 1944, Serial No. 113,165
Term of patent 3½ years
(Cl. D86—10)



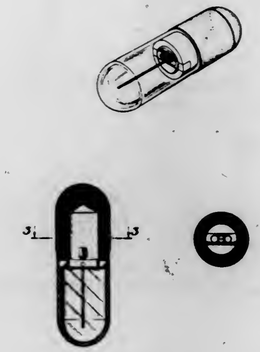
The ornamental design for a cosmetic container, substantially as shown.

137,885
DESIGN FOR A LAMP
Henry Birsh, New York, N. Y.
Application February 1, 1944, Serial No. 112,470
Term of patent 14 years
(Cl. D48—20)



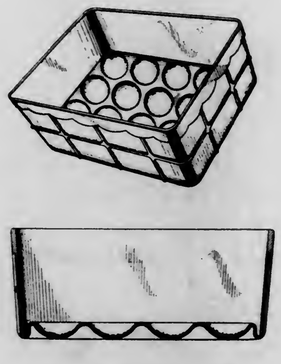
The ornamental design for a lamp, as shown and described.

137,886
DESIGN FOR A MAGNETIC LOCATING TOOL OR SIMILAR ARTICLE
Ifor R. Nicholas, Los Angeles, Calif.
Application January 1, 1944, Serial No. 112,149
Term of patent 7 years
(Cl. D26—1)



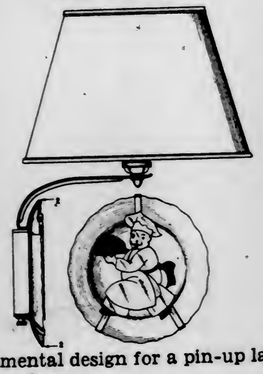
The ornamental design for a magnetic locating tool or similar article, substantially as shown.

137,887
DESIGN FOR AN EGG DISH
Matthew H. Shulman, New York, N. Y.
Application January 26, 1944, Serial No. 112,342
Term of patent 7 years
(Cl. D44—15)



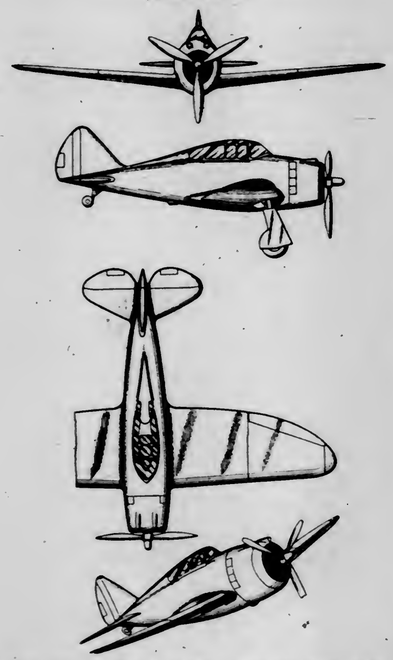
The ornamental design for an egg dish, substantially as shown.

137,888
DESIGN FOR A PIN-UP LAMP
Joseph W. Solomon, Bronx, N. Y., assignor to The Verplex Company, Essex, Conn., a corporation of Connecticut
Application December 22, 1943, Serial No. 112,070
Term of patent 7 years
(Cl. D48—23)



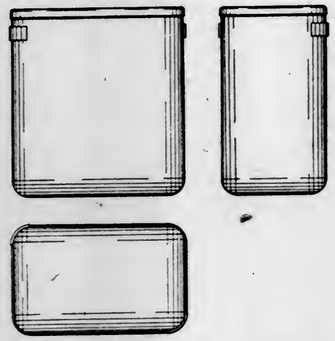
The ornamental design for a pin-up lamp, substantially as shown.

137,889
DESIGN FOR AN AIRPLANE
Alexander Kartveli, Hempstead, and Harry H. Haase, Hollis, N. Y., assignors to Republic Aviation Corporation, a corporation of Delaware
Application September 20, 1941, Serial No. 103,438
Term of patent 14 years
(Cl. D71—1)



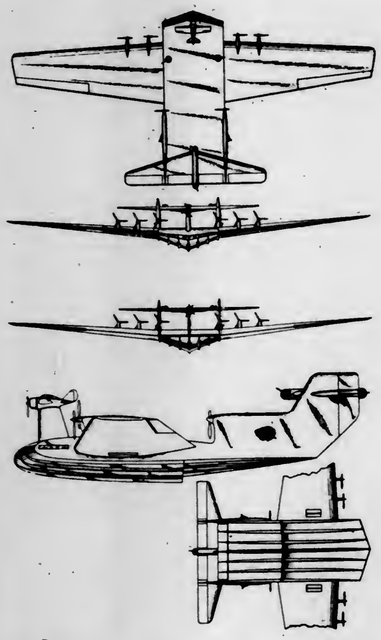
The ornamental design for an airplane, substantially as shown.

137,890
DESIGN FOR A RECTANGULAR CONTAINER FOR FROZEN PRODUCTS
Louis A. M. Phelan, Beloit, Wis.
Application May 11, 1942, Serial No. 106,859
Term of patent 14 years
(Cl. D58—17)



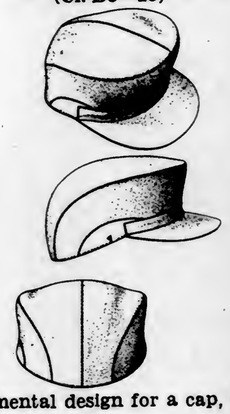
The ornamental design for a rectangular container for frozen products, as shown, and described.

137,891
DESIGN FOR AN AIRPLANE
Allan O. Kelly, Carlsbad, Calif.
Application August 12, 1942, Serial No. 107,885
Term of patent 7 years
(Cl. D71—1)



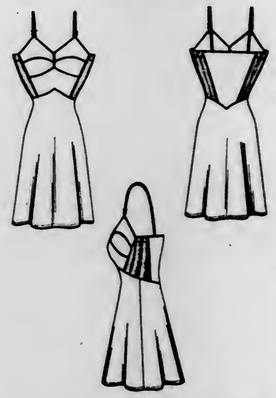
The ornamental design for an airplane, substantially as shown.

137,892
DESIGN FOR A CAP
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application January 15, 1944, Serial No. 112,246
Term of patent 7 years
(Cl. D3—13)



The ornamental design for a cap, as shown.

137,893
DESIGN FOR A SLIP OR SIMILAR ARTICLE
Semon Wolf, New York, N. Y.
Application March 8, 1944, Serial No. 112,825
Term of patent 14 years
(Cl. D3—26)



The ornamental design for a slip or similar article, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Agicide Laboratories, Inc., Milwaukee, Wis. Flour of nut shells and fruit pits. Serial No. 458,321; May 9. Class 1.

Air-Kushin Shoes, Inc., Cincinnati, Ohio. Women's shoes. Serial No. 460,465; May 9. Class 39.

American Oil Company, The, Baltimore, Md. Anti-freezing liquids. Serial No. 467,423; May 9. Class 6.

Ansbacher-Siegle Corporation, Brooklyn, N. Y. Resinous materials. Serial No. 466,250; May 9. Class 16.

Antonacci, Antonio, doing business as Antonacci Wine Company, Hoboken, N. J. Wines. Serial No. 466,819; May 9. Class 47.

Antonacci Wine Company. (See Antonacci, Antonio.)

Associated Lace Corporation, New York, N. Y. Shiffli embroidered laces in the piece, and shiffli embroidered medallions. Serial No. 466,665; May 9. Class 42.

Atlantic Elevator Company, Philadelphia, Pa. Electrical apparatus. Serial No. 464,960; May 9. Class 26.

Audubon Wire Cloth Corporation, Philadelphia, Pa. Wire fabric for making belts and conveyors and for other purposes. Serial No. 459,065; May 9. Class 13.

Best Foods, Inc., The, New York, N. Y. Leather dressings and polishes. Serial Nos. 468,133–4; May 9. Class 4.

Bienard-Greene, Inc., New York, N. Y. Ladies' and misses' slacks, dresses, blouses, etc. Serial No. 467,912; May 9. Class 39.

Bloom, George H., doing business as The Eldonar Company, New York, N. Y. Calendars. Serial No. 468,107; May 9. Class 38.

Bovinine Company, The, Chicago, Ill. Hematogens. Serial No. 467,712; May 9. Class 6.

Boyd, M. B., Co. (See Boyd, Maud B.)

Boyd, Maud Bowman, doing business under the name of M. B. Boyd Co., Oklahoma City, Okla. Ointment in the nature of a counter-irritant. Serial No. 460,789; May 9. Class 6.

Brendlin, Gene, San Luis Obispo, Calif. Fresh vegetables. Serial No. 464,643; May 9. Class 46.

California Nursery Company, Niles, Calif. Plant nursery products. Serial No. 465,223; May 9. Class 1.

California Nursery Company, Niles, Calif. Plant nursery products. Serial No. 465,356; May 9. Class 1.

Calling All Girls, Inc., New York, N. Y. Section in a monthly magazine. Serial No. 468,136; May 9. Class 38.

Clute, Edgar W., doing business as E & E Hobby Supply Shop, Chicago, Ill. Dope in the nature of paint, thinner for paints, lacquers, and solvents. Serial No. 467,334; May 9. Class 16.

Consolidated Diamond Saw Blade Corp., Yonkers, N. Y. Diamond grinding wheels, diamond cut-off blades, and diamond slicing blades. Serial No. 464,589; May 9. Class 4.

Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, brandy, alcoholic cordials. Serial No. 428,152; May 9. Class 49.

Cooperative Grange League Federation Exchange, Inc., Ithaca, N. Y. Canned pork and beans. Serial No. 466,983; May 9. Class 46.

Cooperative Grange League Federation Exchange, Inc., Ithaca, N. Y. Dog food. Serial No. 467,934; May 9. Class 46.

Cooperative Grange League Federation Exchange, Inc., Ithaca, N. Y. Canned vegetables, ketchup, and tomato juice. Serial No. 467,935; May 9. Class 46.

Crest Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 467,594; May 9. Class 42.

Crest Fabrics Corp., New York, N. Y. Textile fabrics. Serial Nos. 468,000–1; May 9. Class 42.

Crosley Corporation, The, Cincinnati, Ohio. Radio scripts. Serial No. 467,715; May 9. Class 38.

Crowe Name Plate & Manufacturing Co., Chicago, Ill. Electrical instrument panels, dial scales for radio tuning, etc. Serial No. 465,976; May 9. Class 21.

Crowell-Collier Publishing Company, The, New York, N. Y. Periodical publication. Serial No. 467,965; May 9. Class 38.

Davidson Manufacturing Corporation, Chicago, Ill. Powder used in the printing industry. Serial No. 467,804; May 9. Class 6.

Davidson Manufacturing Corporation, Chicago, Ill. Powder that is applied to a lithographic plate. Serial No. 467,806; May 9. Class 6.

Deer Park Baking Co., Inc., Chicago, Ill. Cookies of various types and shapes. Serial No. 462,306; May 9. Class 46.

Delgado, Manuel Ontanon, Anahuac Colony, Mexico City, Mexico. Lubricating oils and greases. Serial No. 462,872; May 9. Class 15.

Delgado, Manuel Ontanon, Anahuac Colony, Mexico City, Mexico. Laundry washing machines. Serial No. 462,875; May 9. Class 24.

Eldonar Company, The. (See Bloom, George H.)

Emsley, J., & Company Limited, Bradford, England. Piece goods. Serial No. 463,067; May 9. Class 42.

Fierro, Robert, Martinsburg, W. Va. Fresh deciduous fruits. Serial No. 466,611; May 9. Class 46.

Food Fair Stores, Inc., Philadelphia, Pa. Carbonated, non-alcoholic, non-cereal, maltless beverages. Serial No. 467,883; May 9. Class 45.

Forrest Incorporated, New York, N. Y. Preparation for use in the therapy of nutritional and secondary anemia. Serial No. 467,844; May 9. Class 6.

Gem Products, Inc., Milwaukee, Wis. Oil type furniture polish, white emulsion furniture polish, yellow emulsion furniture polish, etc. Serial No. 467,031; May 9. Class 16.

Gilbert System Hotels, Inc., Jacksonville, Fla. Letter heads, printed envelopes, blotters, and printed blank forms for hotel use, etc. Serial No. 448,728; May 9. Class 37.

Gorton, Slade, Company. (See Gorton, Thomas Slade, Jr.)

Gorton, Thomas Slade, Jr., doing business as Slade Gorton Company, Chicago, Ill. Specially prepared fresh frozen fish for edible purposes. Serial No. 466,612; May 9. Class 46.

Guth, Edwin F., Company, The, St. Louis, Mo. Electric lighting fixtures for fluorescent lamps. Serial No. 466,041; May 9. Class 21.

Hamilton Watch Company, Lancaster, Pa. Watches, watch cases, watch dials, etc. Serial No. 433,859; May 9. Class 27.

Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Coffee. Serial No. 467,192; May 9. Class 46.

Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Candy. Serial No. 466,442; May 9. Class 46.

Heileman, G., Brewing Co., La Crosse, Wis. Beer. Serial No. 467,336; May 9. Class 48.

Hit Parade, Inc., New York, N. Y. Advertising posters. Serial No. 458,864; May 9. Class 38.

Hobby, E & E, Supply Shop. (See Clute, Edgar W.)

Holland, W. F., Agency. (See Holland, William F.)

Holland, William F., doing business as W. F. Holland Agency, Cincinnati, Ohio. Published comic pictures. Serial No. 467,567; May 9. Class 38.

Hosdreg Chemicals, Inc., Huntington, Ind. Caulking and patching compounds. Serial No. 462,949; May 9. Class 12.

Indian Arts and Crafts Board, Washington, D. C. Garment belts, collar and cuff sets, costumes, etc. Serial No. 467,084; May 9. Class 39.

Katz, Joseph M., Pittsburgh, Pa. Stationery. Serial No. 467,524; May 9. Class 37.

Kitchen Maid Corporation, The, Andrews, Ind. Kitchen sink tops. Serial No. 466,993; May 9. Class 13.

La Fayette Packing Company, The, Rockland, Maine, and New York, N. Y. Canned sardines. Serial No. 467,457; May 9. Class 46.

Lamm Brothers, Inc., Baltimore, Md. Overcoats, raincoats, topcoats, etc. Serial No. 466,843; May 9. Class 39.

La Victoria, S. A., San Luis Potosi, Mexico. Chewing gum. Serial No. 467,494; May 9. Class 46.

Levine, David, doing business as Plating Equipment & Supply Company, New York, N. Y. Plating and polishing machines and parts thereof. Serial No. 466,997; May 9. Class 23.

Marvlo Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 466,505; May 9. Class 42.

Max Ams, Inc., New York, N. Y. Fruit jam. Serial No. 465,592; May 9. Class 46.

Max Ams, Inc., New York, N. Y. Prune juice, prune concentrate, and prune butter. Serial No. 465,595; May 9. Class 46.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazines. Serial No. 464,113; May 9. Class 38.

Merrell, Wm. S., Company, The, Cincinnati and Lockland Station, Ohio. Bacteriostatic and detergent local application. Serial No. 466,012; May 9. Class 6.

Metzger, Melvin R., Richmond, Ind. Nonalcoholic, maltless beverages. Serial No. 467,613; May 9. Class 45.

Meyers Manufacturing Co., Minneapolis, Minn. Nursery chair swings. Serial No. 468,120; May 9. Class 32.

Mutual Publishers. (See Stanley, Stanford.)

National Plastic Products Company, Odenton, Md. Thread and yarn composed of plastic filaments and plastic wire-like filaments. Serial No. 466,358; May 9. Class 43.

Old Dutch Industrial Products Co., Inc., Kearney, N. J. Shoe dressings. Serial No. 467,376; May 9. Class 4.

O'Steen, James Tom, doing business as OTS Relief Co., Wichita Falls, Tex. Preparation for treatment of piles and hemorrhoids. Serial No. 467,464; May 9. Class 6.

OTS Relief Co. (See O'Steen, James Tom.)

Paragon Gear Works, Inc., Taunton, Mass. Transmission gears, reverse gears, reduction gears, and clutches. Serial No. 467,616; May 9. Class 23.
Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Solvent emulsion cleaners. Serial Nos. 466,707–8; May 9. Class 4.
Plating Equipment & Supply Company. (See Levine, David.)
Porocel Corporation, Wilmington, Del., and Philadelphia, Pa. Bauxite. Serial No. 466,929; May 9. Class 6.
Princeton Silk Co., New York, N. Y. Rayon piece goods. Serial No. 465,928. May 9. Class 42.
Quaker Chemical Products Corporation, Conshohocken, Pa. Textile finishes. Serial No. 467,860; May 9. Class 6.
Reaco Products. (See Reamer, I. Thomas.)
Reamer, I. Thomas, doing business as Reaco Products, Durham, N. C. Medicinal preparation for asthma. Serial No. 467,700; May 9. Class 6.
Remington Rand Inc., Buffalo, N. Y. Stencils and duplicating paper. Serial No. 462,672; May 9. Class 37.
Rubel, John, doing business as John Rubel Co., New York, N. Y. Brooches, bracelets, necklaces, etc. Serial No. 464,762; May 9. Class 28.
Rubel, John, Co. (See Rubel, John.)
Russell, Ann, doing business as The Russell Chemical Co., Cleveland, Ohio. Dry cleaning powder. Serial No. 452,085; May 9. Class 4.
Russell Chemical Company, The. (See Russell, Ann.)
Savogran Company, The, Boston, Mass. Cleaning compound for painted surfaces, etc. Serial No. 466,106; May 9. Class 4.
Shearer, Thomas R., Verona, N. J. Chemical composition. Serial No. 466,554; May 9. Class 6.
Shell Union Oil Corporation, San Francisco, Calif. Soil fumigant. Serial No. 467,794; May 9. Class 6.
Southport Paint Company, Inc., Savannah, Ga. Automobile top dressings. Serial No. 462,859; May 9. Class 4.
Sperti, Inc., Cincinnati, Ohio. Sterile dressing. Serial No. 457,192; May 9. Class 6.
Stanley, Stanford, doing business as Mutual Publishers, New York, N. Y. Blank payroll books used as guides to social security and withholding tax records. Serial No. 467,409; May 9. Class 37.
Stauffer Chemical Company, San Francisco, Calif., and New York, N. Y. Sulphur. Serial No. 467,501; May 9. Class 6.
Stonebracker, Hal, doing business as Technicut Wood Products Co., Overland Park, Kans. Portable sectional dwellings, garages, barns, hangers, etc. Serial No. 464,834; May 9. Class 12.
Street & Smith Publications, New York, N. Y. Magazine. Serial No. 468,169; May 9. Class 38.
Sullivan Company, The, Memphis, Tenn. Liquid anti-strip compound for bituminous mixes, soil stabilization and floor and road repairs. Serial No. 465,994; May 9. Class 12.
Swift and Company, Chicago, Ill. Dehydrated soup bone stock and meat extract. Serial No. 467,115; May 9. Class 46.
Technicut Wood Products Co. (See Stonebraker, Hal.)
Tribune Company, Chicago, Ill. Series of cartoons. Serial No. 467,932; May 9. Class 38.
Valentine Laboratories, Inc., Chicago, Ill. Vitamin preparation. Serial No. 467,478; May 9. Class 6.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Petroleum composition. Serial No. 467,503; May 9. Class 6.
Walker Vitamin Products, Inc., Mt. Vernon, N. Y. Vitamins and vitamin combinations. Serial No. 467,830; May 9. Class 6.
Warner, William R., & Co. Inc., Wilmington, Del., and New York, N. Y. Medicinal preparations. Serial No. 467,775; May 9. Class 6.
Wesley Simpson, Inc., New York, N. Y. Woolen piece goods. Serial No. 468,045; May 9. Class 42.
Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Magnetic metal alloys. Serial No. 467,009; May 9. Class 14.
Wilson, R. B., doing business as R. B. Wilson Co., Brawley, Calif., and Phoenix, Ariz. Fresh vegetables. Serial No. 467,991; May 9. Class 46.
Wilson, R. B., doing business as R. B. Wilson Co., Brawley, Calif., and Phoenix, Ariz. Fresh vegetables. Serial No. 467,992; May 9. Class 46.
Wilson, R. B., Co. (See Wilson, R. B.)

LIST OF REGISTRANTS OF TRADE-MARKS

Aaron, E. A., & Bros., Inc., Chicago, Ill. Condiment and salad dressing. 406,978; May 9; Serial No. 466,065; published Feb. 29, 1944. Class 46.
Acme Chemical Company, Milwaukee, Wis. Penetrating floor varnish containing gums, resins and oils. 406,918; May 9; Serial No. 463,858; published Feb. 22, 1944. Class 16.
Aeronautical Digest Publishing Corporation, The, New York, N. Y. Magazine. 182,786; renewed Apr. 15, 1944.
Allen-Bradley Company, Milwaukee, Wis. Complete and incomplete battery-charging apparatus, electrical control apparatus, etc. 185,662; renewed June 24, 1944.
American Chemical Paint Company, Ambler, Pa. Chemical composition for use in the treatment of non-ferrous metal surfaces. 406,921; May 9; Serial No. 464,331; published Feb. 15, 1944. Class 6.
American Chewing Products Corp., Newark, N. J. Chewing gum. 406,967; May 6; Serial No. 465,858; published Feb. 29, 1944. Class 46.
Anaconda Copper Mining Company, New York, N. Y., to Anaconda Copper Mining Company, Butte, Mont. Brass tubes, copper tubes, low-brass seamless tubes, etc. 187,311; renewed July 29, 1944.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Nail polish, lipstick, and rouges. 406,968; May 9; Serial No. 465,861; published Feb. 22, 1944. Class 6.
Arizona Brewing Company, Phoenix, Ariz. Beer. 406,990; May 9. Class 48.
Arnold, Hoffman & Co. Incorporated, Providence, R. I. Chemical products for use in processing textiles. 406,957–8; May 9; Serial Nos. 465,609–10; published Feb. 15, 1944. Class 6.
Associated Products Company, The. (See Gibbs, Malcolm G.)
Atkins & Durbrow, Inc., New York, N. Y. Manure. 406,944; May 9; Serial No. 465,347; published Feb. 29, 1944. Class 10.
Atkins, E. C., & Company, Indianapolis, Ind. Saws, saw swages, saw-fitting tools, etc. 184,460; renewed May 27, 1944.
Atlantic Coast Fisheries Company, The. (See Chesebro Brothers & Robbins, Inc., assignor.)
Atlas Asbestos Company, North Wales, Pa. Asbestos kindlers. 406,994; May 9. Class 34.
Atlas Baking Company, Chicago, Ill. Bread. 185,398; renewed June 17, 1944.
Atlas Color & Chemical Co. (See Collins, P. Joseph.)
Auto-Ordnance Corporation, Bridgeport and Greenwich, Conn. Wave meters of the cavity type. 406,981; May 9; Serial No. 466,210; published Feb. 29, 1944. Class 26.
Bay State Abrasive Products Company, Westboro, Mass. Abrasive and grinding wheels. 406,900; May 9; Serial No. 457,623; published Feb. 29, 1944. Class 4.
"Bergere." (See Bergere Perfume Company.)
Bergere Perfume Company, doing business under the name "Bergere," New York, N. Y. Perfume, toilet water, and eau de cologne. 406,917; May 9; Serial No. 463,770; published Dec. 21, 1943. Class 6.
Bell Chemical Co., Chicago, Ill. Cleaning fluid, white-canvas cleaner, and white-kid cleaner. 184,991; renewed June 3, 1944.
Bernard, James L., Jr., doing business as Communication Products Company, Newark, N. Y. Substances having di-electric insulating characteristics. 406,920; May 9; Serial No. 464,301; published Feb. 29, 1944. Class 21.
Bickum, Dorothy, New York, N. Y. Corsets, brassières, slips, etc. 406,948; May 9; Serial No. 465,445; published Feb. 15, 1944. Class 39.
Biological Products Co., Jersey City, N. J. Oral respiratory vaccine. 406,953; May 9; Serial No. 465,521; published Feb. 22, 1944. Class 6.
Bishop-Conklin Company, The, Los Angeles, Calif. Dry paints, ready mixed paints, varnishes, etc. 406,930; May 9; Serial No. 464,742; published Feb. 22, 1944. Class 16.
Blake, Irene, Cosmetics, Inc., also doing business as "Irene Blake," New York, N. Y. Hand cleanser. 406,898; May 9; Serial No. 455,588; published Jan. 26, 1943. Class 4.
Bob Products Company, The, Baltimore, Md. Toy blackboards and toy magic slates. 406,962; May 9; Serial No. 465,676; published Feb. 29, 1944. Class 22.
Bourjois, A., & Co. Inc., assignor to Bourjois, Inc., New York, N. Y. Toilet preparations. 188,414; renewed Aug. 26, 1944.
Bourjois, A., & Co. Inc., assignor to Bourjois, Inc., New York, N. Y. Toilet preparations. 187,527; renewed Aug. 5, 1944.
Bourjois, Inc. (See Bourjois, A., & Co. Inc., assignor.)
Bovinine Company, The, Chicago, Ill. Liver, iron and vitamin preparations. 406,956; May 9; Serial No. 465,596; published Feb. 15, 1944. Class 6.
Bowles Bros. (See Bowles, Frank A.)
Bowles, Frank A., also doing business as Bowles Bros., Los Angeles, Calif., assignor to Hygrade Food Products Corporation, New York, N. Y. Cooking oil. 188,583; renewed Sept. 2, 1944.
Brauer Bros. Shoe Company, assignor to Brauer Bros. Shoe Company, St. Louis, Mo. Women's shoes. 185,778; renewed June 24, 1944.
Brice, T. L., Company. (See Brice, T. L.)

Brice, T. L., doing business as T. L. Brice Company, Sherman, Tex. Sour pickles, relish, pickle sauces, etc. 406,895; May 9; Serial No. 443,711; published Feb. 29, 1944. Class 46.
Bristol-Myers Company, New York, N. Y. Yeast vitamin tablets. 406,954; May 9; Serial No. 465,524; published Feb. 15, 1944. Class 6.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alley bed brushes. 406,966; May 9; Serial No. 465,795; published Feb. 29, 1944. Class 29.
California Packing Corporation. (See Pacific By-Products Co., assignor.)
Camp, Arthur A., doing business as Emmy Almond Co., Brookline, Mass. Sugar coated peanuts. 406,969; May 9; Serial No. 465,891; published Feb. 29, 1944. Class 46.
Capital City Products Company. (See Vail, Ed. S., Butterine Co., assignor.)
Carnegie-Illinois Steel Corporation, Pittsburgh, Pa. Tin coated sheet metal. 406,911; May 9; Serial No. 463,312; published Feb. 22, 1944. Class 14.
Carrel, Ltd. (See Schramm-Johnson, Drugs, assignor.)
Carver File Co., also doing business as Delta File Works, by change of name to Delta File Works, Inc., Philadelphia, Pa. Metal surfacer. 188,204; renewed Aug. 19, 1944.
Chance Brothers and Co. Limited, by change of name, to Chance Brothers Limited, West Smethwick, England. Glass. 175,467; renewed Nov. 6, 1944.
Chappell, William R., doing business as Universal Cover Fastener Company, assignor to Universal Cover Fastener Company, Inc., New York, N. Y. Cover fasteners. 186,870; renewed July 22, 1944.
Chappell, William R., doing business as Universal Cover Fastener Company, assignor to Universal Cover Fastener Company, Inc., New York, N. Y. Cover nets. 187,741; renewed Aug. 12, 1944.
Chesebro Brothers & Robbins, Inc., assignor, by mesne assignments, to The Atlantic Coast Fisheries Company, New York, N. Y. Fresh fish. 183,341; renewed Apr. 29, 1944.
Ciba Pharmaceutical Products, Inc. (See Society of Chemical Industry in Basle, assignor.)
Collins, P. Joseph, doing business as Atlas Color & Chemical Co., Boston, Mass. Penetrating and assisting agents used in dyeing. 406,959; May 9; Serial No. 465,647; published Feb. 15, 1944. Class 6.
Collins, P. Joseph, doing business as Atlas Color & Chemical Co., Boston, Mass. Detergent and scouring preparation. 406,960; May 9; Serial No. 465,648; published Feb. 22, 1944. Class 4.
Collins, P., Joseph, doing business as Atlas Color & Chemical Co., Boston, Mass. Wetting and penetrating agents. 406,961; May 9; Serial No. 465,650; published Feb. 15, 1944. Class 6.
Communication Products Company. (See Bernard, James L., Jr.)
Corrao, Antonio, New York, N. Y., to Antonio Corrao, doing business as Universal Salad Oil Company, Brooklyn, N. Y. Olive oil. 181,916; renewed Apr. 1, 1944.
Cotton Shop, Inc., The, New York, N. Y. Women's, ladies' and misses' dresses, coats, suits, etc. 407,001; May 9. Class 39.
Dare, Virginia, Extract Company, Inc., Brooklyn, N. Y. Tonic laxative. 188,666; renewed Sept. 2, 1944.
Deecy Products Company, Cambridge, Mass. Soaps. 188,744; renewed Sept. 2, 1944.
Dehn & Co. (See Dehn, Karl.)
Dehn, Karl, doing business as Dehn & Co., Seattle, Wash. Canned salmon. 406,925–6; May 9; Serial Nos. 466,433–4; published Feb. 29, 1944. Class 46.
Delta File Works, Inc. (See Carver File Co.)
De Sanno, A. P., & Sons, Inc., Phoenixville, Pa. Abrasive and grinding wheels. 406,946; May 9; Serial No. 465,386; published Feb. 20, 1944. Class 4.
Dewey, H. T., & Sons Company, New York, N. Y. Emulsion of cod-liver oil and port wine with glycerophosphate of lime. 181,314; renewed Mar. 18, 1944.
Dicks-Pontius Company, The, Dayton, Ohio. Putty and glazing compounds. 406,929; May 9; Serial No. 464,692; published Feb. 22, 1944. Class 16.
Ditto, Incorporated, Chicago, Ill. Protective cream. 406,999; May 9. Class 6.
Dooganiotis, Theodoros S., Newburgh, N. Y. Liquid herb and vegetable compound medical preparation. 406,904; May 9; Serial No. 459,148; published Dec. 7, 1943. Class 6.
Dritz-Traum Company, Inc., New York, N. Y. Button and buttonhole tape. 406,985; May 9. Class 40.
Du Bois Company, The, Cincinnati, Ohio. Removable coating material in the nature of paints, etc. 406,951; May 9; Serial No. 465,502; published Feb. 22, 1944. Class 16.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 406,971–3; May 9; Serial Nos. 465,942–4; published Feb. 22, 1944. Class 6.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 406,974; May 9; Serial No. 465,946; published Feb. 22, 1944. Class 6.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 406,975; May 9; Serial No. 465,948; published Feb. 22, 1944. Class 6.
Electro-Matic Products Company. (See Littwin, Leo F.)
Elzac California Jewelry Creations, Los Angeles, Calif. Jewelry clips, brooches, bracelets, etc. 406,927; May 9; Serial No. 464,604; published Feb. 29, 1944. Class 28.
Emmy Almond Co. (See Camp, Arthur A.)
Esdale, Harry J., doing business as Fuhl-Proof Co., Newark, N. J. Acrylic resin. 406,989; May 9. Class 44.
Esmiz, Alfred R., doing business as The Vandol Products Company, Highland Park, Ill. Medicinal compounds for relieving itching of the scalp, etc. 406,933; May 9; Serial No. 464,941; published Feb. 15, 1944; Class 6.
Fay, Gloria. (See Respondek, John E.)
Flako Products Corporation, New Brunswick, to Flako Products Corporation, Milltown, N. J. Prepared flour. 187,255; renewed July 29, 1944.
Franklin, Madam N. A., School of Beauty Culture, Houston, Tex. Hair tonic, hot oil, and temple oil. 406,942; May 9; Serial No. 465,318; published Feb. 15, 1944. Class 6.
Fuhl-Proof Co. (See Esdale, Harry J.)
Gattuccio, Salvadore, doing business as Sulfa-Mix Company, San Jose, Calif. Fungicide and antiseptic preparation. 406,996; May 9. Class 6.
Gibbs, Malcolm G., doing business as Key Chemical Company, to The Associated Products Company, Washington, D. C., successor. Preparation for treatment of headache, neuralgia, etc. 181,279; renewed Mar. 18, 1944.
Gilmer, L. H., Co., Tacony, Pa. Power transmission belts. 406,909; May 9; Serial No. 463,093; published Feb. 29, 1944. Class 35.
Gladding Dry Goods Co., by change of name to Gladding's Incorporated, Providence, R. I. Boots, shoes, slippers, etc. 182,436; renewed Apr. 8, 1944.
Gladding's Incorporated. (See Gladding Dry Goods Co.)
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Resinous materials. 406,931; May 9; Serial No. 464,815; published Feb. 22, 1944. Class 6.
Gray-Mills Co., Chicago, Ill. Fluids used in cooling metal. 406,899; May 9; Serial No. 456,143; published Feb. 29, 1944. Class 15.
Grennan Bakeries, Inc. (See Grennan Cake Corporation.)
Grennan Cake Corporation, Detroit, Mich., by change of name to Grennan Bakeries, Inc., Chicago, Ill. Bread, rolls, cakes, etc. 183,782; renewed May 6, 1944.
Grennan Cake Corporation, Detroit, Mich., by change of name to Grennan Bakeries, Inc., Chicago, Ill. Cakes, cookies, coffee cake and bread. 183,783; renewed May 6, 1944.
Grennan Cake Corporation, Detroit, Mich., by change of name to Grennan Bakeries, Inc., Chicago, Ill. Bread, cakes, fried cakes, and coffee cakes. 183,785; renewed May 6, 1944.
Grennan Cake Corporation, Detroit, Mich., by change of name to Grennan Bakeries, Inc., Chicago, Ill. Fruit cake. 184,165; renewed May 20, 1944.
Gristede Bros., Inc., New York, N. Y. Canned vegetables. 184,634; renewed May 27, 1944.
Gristede Bros., Inc., New York, N. Y. Canned vegetables. 185,096; renewed June 10, 1944.
Haas Brothers, San Francisco, Calif. Canned fruits, canned vegetables and canned fish. 188,164; renewed Aug. 19, 1944.
Hance Bros. & White Co. (See Hance Brothers & White, Incorporated, assignor.)
Hance Brothers & White, Incorporated, assignor, by mesne assignments, to Hance Bros. & White Co., Philadelphia, Pa. Remedy for acid stomach, heartburn, indigestion, etc. 188,694; renewed Sept. 2, 1944.
Hess, Frank, doing business as Hess Hair Milk Laboratories, St. Paul, Minn. Hair tonic and dandruff remedy. 188,445; renewed Aug. 26, 1944.
Hess Hair Milk Laboratories. (See Hess, Frank.)
Hi-Lo Products. (See Ownen, Edward M. B.)
Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel in the form of bars, billets, sheets and strips. 406,903; May 9; Serial No. 458,306; published Feb. 29, 1944. Class 14.
Hydraulic Brake Company, Los Angeles, Calif., and Detroit, Mich., to Hydraulic Brake Company, Detroit, Mich. Vehicle brakes. 180,945; renewed Mar. 11, 1944.
Hygrade Food Products Corporation. (See Bowles, Frank A., assignor.)
Intaglio Service Corporation, New York, N. Y. Finished printing plates. 406,907; May 9; Serial No. 461,782; published Jan. 18, 1944. Class 50.
"Irene Blake." (See Blake, Irene, Cosmetics, Inc.)
Iroquois Famous Indian Remedies, Inc., assignor, by mesne assignments, to Kraupner and Kraupner, Inc., New York, N. Y. Indian herb tea. 188,851; renewed Sept. 2, 1944.
Irvington Varnish & Insulator Co., Irvington, N. J., Electrical insulation materials. 187,446; renewed Aug. 5, 1944.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Traveling conveyers. 406,982; May 9. Class 23.
Johansen, Edward H., doing business as Snappy Service Stations, Washington, D. C. Gasoline and lubricating oil and grease. 185,709; renewed June 24, 1944.
Johnson & Johnson, New Brunswick, N. J. Surgical dressings. 406,916; May 9; Serial No. 463,735; published Nov. 30, 1943. Class 44.
Kalep, Elvy, New York, N. Y. Toy consisting of a miniature paratrooper with a parachute attached. 406,923–4; May 9; Serial Nos. 466,327–8; published Feb. 29, 1944. Class 22.
Key Chemical Company. (See Gibbs, Malcolm G.)
Kinnear Manufacturing Co., The, Columbus, Ohio. Metallic fire-resisting shutters, curtains, and doors. 181,024; renewed Mar. 11, 1944.
Klein, Louis J., New York, N. Y. Combination floor brush and mop. 406,983; May 9. Class 29.
Kraupner and Kraupner, Inc. (See Iroquois Famous Indian Remedies, Inc., assignor.)
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Canned fruits, canned vegetables and canned fish. 180,956; renewed Mar. 11, 1944.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Wall-paper cleaner. 181,407; renewed Mar. 18, 1944.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Ammonia and bluing. 181,755; renewed Mar. 25, 1944.
Lamme, D. T., Austin, Tex. Candy. 406,995; May 9. Class 46.
Larus & Brother Company, Richmond, Va. Smoking tobacco. 180,799; renewed Mar. 4, 1944.
Lehn & Fink Products Corporation, Bloomfield, N. J. Eau de cologne, dusting powder, and bubble bath preparation. 406,977; May 9; Serial No. 466,047; published Feb. 15, 1944. Class 6.
Lehn & Fink Products Corporation. (See Lehn & Fink, Inc., assignor.)
Lehn & Fink Products Corporation. (See Lehn and Fink, Inc., assignor.)
Lehn and Fink, Inc., New York, N. Y., assignor to Lehn & Fink Products Corporation, Bloomfield, N. J. Talcum powder. 188,450; renewed Aug. 26, 1944.
Lehn & Fink, Inc., New York, N. Y., assignor to Lehn & Fink Products Corporation, Bloomfield, N. J. Rubbing alcohol. 188,836; renewed Sept. 2, 1944.
Leiner, Geo. S., & Co., to George S. Leiner & Co., New York, N. Y., successor. Brushes. 181,720; renewed Mar. 25, 1944.
Liberty Yeast Corporation, Baltimore, Md., assignor, by mesne assignments, to Standard Brands Incorporated, New York, N. Y. Yeast. 188,389; renewed Aug. 26, 1944.
Life Savers Corporation. (See Mint Products Co. Inc., assignor.)
Life Savers, Inc. (See Mint Products Co. Inc.)
Littwin, Leo F., doing business as Electro-Matic Products Company, Chicago, Ill. Demagnetizing apparatus. 406,937; May 9; Serial No. 465,204; published Feb. 29, 1944. Class 21.
Llobera y Compañía S. En C., Habana, Cuba. Fruits and vegetables, fresh, canned, dried, or preserved, canned fish, etc. 406,906; May 9, 1944. Serial No. 461,143; published Sept. 7, 1943. Class 46.
Los Angeles Soap Company, Los Angeles, Calif. Soap. 188,825; renewed Sept. 2, 1944.
Louisiana State Rice Milling Company, Inc., Abbeville, La. Rice and stock and poultry feed, etc. 406,947; May 9; Serial No. 465,398; published Feb. 29, 1944. Class 46.
Lunex Company, Davenport, Iowa. Self-luminous, noncolored, fluid pigment coating composition. 406,935; May 9; Serial No. 465,001; published Feb. 15, 1944. Class 16.
Madeleine, Red Bank, N. J. Candy. 186,740; renewed July 22, 1944.
Mallinson Fabrics Corporation. (See Mallinson, H. R., & Co. Inc., assignor.)
Mallinson, H. R., & Co. Inc., assignor, by mesne assignments, to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 180,598; renewed Mar. 4, 1944.
Masury-Young Company, Charlestown, Mass. Liquid floor sealing compound. 406,901; May 9; Serial No. 457,880; published Feb. 29, 1944. Class 16.
McGraw Colorgraph Company. (See McGraw, Max.)
McGraw, Max, doing business as McGraw Colorgraph Company, Chicago, Ill. Pigment paper in the nature of insensitive printing paper. 406,910; May 9; Serial No. 463,263; published Feb. 29, 1944. Class 37.
Merkin, M. J., Paint Co., Inc., New York, N. Y. Ready mixed paint. 187,547; renewed Aug. 5, 1944.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to relieve transient nasal congestion 406,970; May 9; Serial No. 465,926; published Feb. 22, 1944. Class 6.
Metz, H. A., Laboratories, Inc., to Winthrop Chemical Company, Inc., New York, N. Y., by consolidation. Preparations for the treatment of spirochetal and other infectious diseases and as a diuretic. 188,515; renewed Aug. 26, 1944.
Mint Products Co. Inc., now by change of name, Life Savers, Inc., assignor, by mesne assignments, to Life Savers Corporation, Port Chester, N. Y. Candies and chewing gums. 187,298; renewed July 29, 1944.
Mizzy, Inc., New York, N. Y. Dental supplies. 188,391; renewed Aug. 26, 1944.
Mutual Sample Card Corporation, New York, N. Y. Imprinted cards, envelopes, blotters, etc. 406,938; May 9; Serial No. 465,205; published Feb. 29 1944. Class 37.
National Oil Products Company, Harrison, N. J. Composition for fat-liquoring leather. 406,928; May 9; Serial No. 464,668; published Feb. 22, 1944. Class 4.
National Shirt Shops, Inc., assignor to National Shirt Shops of Delaware, Inc., New York, N. Y. Men's dress shirts, negligee shirts, and work shirts. 183,377; renewed Apr. 28, 1944.
National Shirt Shops of Delaware, Inc. (See National Shirt Shops, Inc., assignor.)
Norwich Pharmacal Company, The, Norwich, N. Y. Vaginal preparation. 406,945; May 9; Serial No. 465,367; published Feb. 22, 1944. Class 6.
Noymer, Eugene E., doing business as The Noymer Manufacturing Company, Boston, Mass. Billfolds, key cases, etc. 407,000; May 9, 1944.
Noymer Manufacturing Company, The. (See Noymer, Eugene E.)
Old Town Ribbon & Carbon Co. Inc., Brooklyn, N. Y. Duplicating paper. 406,908; May 9; Serial No. 461,825; published Oct. 19, 1943. Class 37.
Orange-Crush Company, Chicago, Ill. Nonalcoholic, maltless beverages and concentrates and compounds for making the same. 187,791; renewed Aug. 12, 1944
Oregon Humane Society, Portland, Oreg. Magazine. 184,901; renewed June 3, 1944.
Ovson Egg Company. (See Ovson, Morris, Company.)
Ovson, Morris, Company, to Ovson Egg Company, Chicago, Ill., successor. Frozen egg product. 181,254; Mar 18, 1944. Class 46.
Ownen, Edward M. B., doing business as Hi-Lo Products, St. Louis, Mo. Vitamin complex and iron product. 406,949; May 9; Serial No. 465,464; published Feb. 15, 1944. Class 6.
Pacific By-Products Co., San Jose, Calif., assignor to California Packing Corporation, San Francisco, Calif. Carbonizing compound. 184,132; renewed May 20, 1944.
Palmer, Richard, assignor to Tyrrell's Hygienic Institute Inc., New York, N. Y. Hot water bottles. 178,994; renewed Feb. 5, 1944.
Parfums Schiaparelli, Inc., New York, N. Y. Cosmetic oils. 406,693–4; May 9; Serial Nos. 465,688–9; published Feb. 15, 1944. Class 6.
Phoenix Oil Company, The, Cleveland, Ohio. Machine grinding oil. 407,003; May 9, 1944. Class 16.
Phoenix State Bank and Trust Company, Trustee. (See Smith, Winchell, assignor.)
Pike, Eugene W., doing business as E. W. Pike & Company, Elizabeth, N. J. Magnifying lens mountings. 406,905; May 9; Serial No. 461,024; published Feb. 29, 1944. Class 26.
Pike, E. W., & Company. (See Pike, Eugene W.)
Pinaud Incorporated, New York, N. Y. Face lotions and hair lotion. 406,986; May 9, 1944. Class 6.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin capsules. 406,896; May 9; Serial No. 451,655; published May 11, 1943. Class 6.
Reed & Prince Manufacturing Company, Worcester, Mass. Wood screws, machine screws, stove bolts, etc. 187,966; renewed Aug. 12, 1944.
Reliance Varnish Company, Inc., Louisville, Ky. Lacquers, paints, in paste and ready-mixed forms, stains, etc. 406,915; May 9; Serial No. 463,708; published Feb. 22, 1944. Class 16.
Remington Rand Inc., Buffalo, N. Y. Blank and partially printed index cards. 406,992; May 9. Class 37.
Respondek, John E., doing business as Gloria Fay, Hamtramck, Mich. Hand lotions or creams. 406,998; May 9. Class 6.
Rice's, Bernard, Sons, Inc., New York, N. Y. Silver hollow ware. 188,604; renewed Sept. 2, 1944.
Rose, E. W., Company, The, Cleveland, Ohio. Soap. 188,812; renewed Sept, 2, 1944. Class 4.
Salter, Geo., & Co. Limited, West Bromwich, England. Spring balances and weighing machines, steam gauges, etc. 406,993; May 9. Class 26.
Samson Plaster Board Company, Buffalo, N. Y., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster board and plaster wall board. 185,103; renewed June 10, 1944.
Samson Plaster Board Company, Buffalo, N. Y., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Calcined-gypsum wall plasters. 186,147; renewed July 1, 1944.
Sanford Ink Company, Chicago, Ill. Writing inks. 406,914; May 9; Serial No. 463,633; published Jan. 25, 1944. Class 11.
Schering Corporation, Bloomfield, N. J. Medicinal hormone preparations. 406,955; May 9; Serial No. 465,579; published Feb. 15, 1944. Class 6.
Schramm-Johnson, Drugs, Salt Lake City, Utah, assignor to Carrel, Ltd., Chicago, Ill. Hairdressing, bath salts, almond-meal cream, etc. 180,743 reenwed Mar. 4, 1944.
Sears, Roebuck and Co., Chicago, Ill. Lace medallions. 406,988; May 9. Class 40.
Seccombe, L. H., & Sons. (See Seccombe, Lionel H.)

Seccombe, Lionel H., doing business as L. H. Seccombe & Sons, Ansonia, Conn. Liquid spot remover. 406,912; May 9; Serial No. 463,333; published Feb. 29, 1944. Class 4.
Shaw, H. E., Company, Worcester, Mass. Cigarettes, smoking tobacco, and cigars. 407,002; May 9. Class 17.
Sheffield Manufacturing Corp., Newark, N. J. Razor blades. 406,991; May 9. Class 23.
Silver, Matilda, doing business as Sufix Manufacturing Co., Brookline, Mass. Finger pad daubers. 406,940; May 9; Serial No. 465,300; published Feb. 29, 1944. Class 29.
Silver Spring Trading Co. (See Silverman, M., & Son, assignor.)
Silverman, M., & Son, assignor to Silver Spring Trading Co., Philadelphia, Pa. Dress goods in the piece. 188,663; renewed Sept. 2, 1944.
Sisson Brothers Welden Company, Binghamton, N. Y. Women's dresses, coats, evening dresses, etc. 406,984; May 9. Class 39.
Skat Company, The, Hartford, Conn. A nongreasy protective skin cream. 406,936; May 9; Serial No. 465,050; published Feb. 15, 1944. Class 6.
Smith, Winchell, Farmington, Conn., assignor to Phoenix State Bank and Trust Company, Trustee, Hartford, Conn. Whole-wheat flour, corn meal, scratch feed, etc. 183,405; renewed Apr. 29, 1944.
Snappy Service Stations. (See Johansen, Edward J.)
Snyder, Augustus K., Annapolis, Md. Preparation used for athlete's foot. 406,941; May 9; Serial No. 465,301; published Feb. 15, 1944. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Chemical and pharmaceutical preparation. 180,693; renewed Mar. 4, 1944.
Socony-Vacuum Oil Company, Incorporated. (See Vacuum Oil Company, assignor.)
Sparkler Manufacturing Company, Mundelein, Ill. Industrial filters. 406,976; May 9; Serial No. 466,027; published Feb. 29, 1944. Class 31.
Sponsel, Charles, Albuquerque, N. Mex. Live cattle, horses, and sheep for use as food. 406,897; May 9; Serial No. 455,520; published Feb. 29, 1944. Class 46.
Standard Brands Incorporated. (See Liberty Yeast Corporation, assignor.)
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils. 406,932; May 9; Serial No. 464,832; published Feb. 29, 1944. Class 15.
Stearns, Frederick & Company, Detroit, Mich. Nutritive substance composed largely of amino acids. 406,943; May 9; Serial No. 465,326; published Feb. 22, 1944. Class 6.
Stevens, John B., Riverside, Ill. Ornamental dolls. 406,934; May 9; Serial No. 464,983; published Feb. 29, 1944. Class 50.
Stewart-Warner Corporation, Chicago, Ill. Household refrigerators. 406,922; May 9; Serial No. 466,268; published Feb. 29, 1944. Class 31.
Sufix Manufacturing Co. (See Silver, Matilda.)
Sulpha-Mix Company. (See Gattuccio, Salvadore.)
Swift and Company, Chicago, Ill. Glue and a hide glue with added chemicals. 406,913; May 9; Serial No. 463,592; published Feb. 29, 1944. Class 5.
Sykes, William, Limited, Horbury and London, England, to William Sykes, Limited, Horbury, England. Footballs, basket balls, soccer balls, etc. 180,948; renewed Mar. 11, 1944.
Sykes, William, Limited, Horbury and London, England, to William Sykes, Limited, Horbury, England. Footballs, basket balls, soccer balls, etc. 181,432; renewed Mar. 18, 1944.
Taystee Baking Company. (See Texas Bread Company.)
Tel-a-Tale Motion Sign Corporation, New York, N. Y. Electrically illuminated signs with movable perforated tapes. 406,950; May 9; Serial No. 465,489; published Feb. 29, 1944. Class 21.
Texas Bread Company to Taystee Baking Company, Houston, Tex., successor. Bread, rolls, buns, and other pastry. 183,830; renewed May 6, 1944.
Tex Toy Manufacturing Co., Houston, Tex. Wheeled toys. 406,980; May 9; Serial No. 466,235; published Feb. 29, 1944. Class 22.
Tobacco Rehandling Co., Ltd., The, Liverpool, England, and Louisville, Ky., assignor to The Tobacco Rehandling Co. Limited, Inc., Louisville, Ky. Tobacco in leaf form. 187,839; renewed Aug. 12, 1944.
Torsion Balance Company, The, New York, N. Y. Balances and scales for weighing purposes. 406,952; May 9; Serial No. 465,517; published Feb. 29, 1944. Class 26.
Tyrrells' Hygienic Institute Inc. (See Palmer, Richard, assignor.)
Unit Vitamin Corporation, Newark, N. J. Vitamin B complex tablets. 406,965; May 9; Serial No. 465,700; published Feb. 22, 1944. Class 6.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, stucco, cement, plaster, etc. 185,223; renewed June 10, 1944.
United States Gypsum Company, Chicago, Ill. Plastic wall covering. 187,560; renewed Aug. 5, 1944.
United States Gypsum Company. (See Samson Plaster Board Company, assignor.)
Universal Cover Fastener Company, Inc. (See Chappell, William R., assignor.)
Universal Salad Oil Company. (See Corrao, Antonio.)
Vacuum Oil Company, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Naphtha and refined oil. 185,691; renewed June 24, 1944.
Vail, Ed. S., Butterine Co., Chicago, Ill., assignor, by mesne assignments, to The Capital City Products Company, Columbus, Ohio. Oleomargarine. 182,106; renewed Apr. 1, 1944.
Vandol Products Company, The. (See Esmiz, Alfred R.)
Varniton Company, The, Los Angeles, Calif. Soft dusting brushes. 406,939; May 9; Serial No. 465,216; published Feb. 29, 1944. Class 29.
Varniton Company, The, Los Angeles, Calif. Adhesive cement in stick form. 406,979; May 9; Serial No. 466,183; published Feb. 29, 1944. Class 5.
Vitro Manufacturing Company, The, Pittsburgh, Pa. Oxides of cobalt, chromium, selenium, etc. 184,300; renewed May 20, 1944. Class 6.
Volpe, Anthony J., doing business as The Wakefield Co., New York, N. Y. Cleaner and polish. 406,997; May 9. Class 16.
Wakefield Co., The. (See Volpe, Anthony J.)
Weldon Tool Company, The, Cleveland, Ohio. Rotary fluid pumps. 406,987; May 9. Class 23.
Wilcolator Company, The. (See Wilson, H. A., Company, The, assignor.)
Wilson, H. A., Company, The, Newark, assignor to The Wilcolator Company, Elizabeth, N. J. Thermostatic controls. 188,225; renewed Aug. 19, 1944.
Winslow, James L., San Antonio, Tex. Citrus fruit juices. 406,902; May 9; Serial No. 458,214; published Feb. 29, 1944. Class 46.
Winthrop Chemical Company, Inc. (See Metz, H. A., Laboratories, Inc.)
Wolf, Jacques, & Co., Passaic, N. J. Starches. 181,286–7; renewed Mar. 18, 1944.
World Bottling Company, Limited, New Orleans, La. Nonalcoholic, noncereal, maltless beverage. 188,034; renewed Aug. 19, 1944.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning and cleansing materials. 406,919; May 9; Serial No. 464,153; published Feb. 29, 1944. Class 4.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 3

Billfolds, key cases, etc. E. E. Noymer. 407,000; May 9.

CLASS 4

Cleaner, Wall-paper. Kroger Grocery & Baking Co. 181,407; renewed Mar. 18, 1944.
Cleaning and cleansing materials. Wyandotte Chemicals Corporation. 406,919; May 9; Serial No. 464,153; published Feb. 29, 1944.
Cleaning fluid, white-canvas cleaner, and white-kid cleaner. Bell Chemical Co. 184,991; renewed June 3, 1944.
Cleanser, Hand. Irene Blake Cosmetics, Inc. 406,898; May 9; Serial No. 455,588; published Jan. 26, 1943.
Composition for fat-liquoring leather. National Oil Products Company. 406,928; May 9; Serial No. 464,668; published Feb. 22, 1944.
Detergent and scouring preparation. P. J. Collins. 406,960; May 9; Serial No. 465,648; published Feb. 22, 1944.
Soaps. Deecy Products Company. 188,744; renewed Sept. 2, 1944.
Soap. E. W. Rose Company. 188,812; renewed Sept. 2, 1944.
Soap. Los Angeles Soap Company. 188,825; renewed Sept. 2, 1944.
Spot remover, Liquid. L. H. Seccombe. 406,912; May 9; Serial No. 463,333; published Feb. 29, 1944.
Wheels, Abrasive and grinding. Bay State Abrasive Products Company. 406,900; May 9; Serial No. 457,623; published Feb. 29, 1944.
Wheels, Abrasive and grinding. A. P. De Sanno & Son, Inc. 406,946; May 9; Serial No. 465,386; published Feb. 29, 1944.

CLASS 5

Cement in stick form, Adhesive. Varniton Company. 406,979; May 9; Serial No. 466,183; published Feb. 29, 1944.
Glue and a hide glue with added chemicals. Swift and Company. 406,913; May 9; Serial No. 463,592; published Feb. 29, 1944.

KODAK

CLASS 6

Agents used in dyeing, Penetrating and assisting. P. Joseph Collins. 406,959; May 9; Serial No. 465,647; published Feb. 15, 1944.
Agents, Wetting and penetrating. P. Joseph Collins. 406,961; May 9; Serial No. 465,650; published Feb. 15, 1944.
Alcohol, Rubbing. Lehn & Fink, Inc. 188,836; renewed Sept. 2, 1944.
Ammonia and bluing. Kroger Grocery & Baking Co. 181,755; renewed Mar. 25, 1944.
Chemical and pharmaceutical preparation. Society of Chemical Industry in Basle. 180,693; renewed Mar. 4, 1944.
Chemical composition for use in the treatment of nonferrous metal surfaces. American Chemical Paint Company. 406,921; May 9; Serial No. 464,331; published Feb. 15, 1944.
Chemical products for use in processing textiles. Arnold, Hoffman & Co. Incorporated. 406,957–8; May 9; Serial No. 465,609–10; published Feb. 15, 1944.
Cosmetic oils. Parfums Schiaparelli, Inc. 406,963–4; May 9; Serial Nos. 465,688–9; published Feb. 15, 1944.
Cream, Protective. Ditto, Incorporated. 406,999; May 9.
Capsules for a preparation for the treatment of anemia. Premo Pharmaceutical Laboratories, Inc. 406,896; May 9; Serial No. 451,655; published May 11, 1943.
Carbonizing compound. Pacific By-Products Co. 184,132; renewed May 20, 1944.
Eau de cologne, dusting powder, and bubble bath preparation. Lehn & Fink Products Corporation. 406,977; May 9; Serial No. 466,047; published Feb. 15, 1944.
Emulsion of cod-liver oil and port wine with glycerophosphate of lime. H. T. Dewey & Sons Company. 181,314; renewed Mar. 18, 1944.
Fungicide and antiseptic preparation. S. Gattuccio. 406,996; May 9.
Hairdressing, bath salts, almond-meal cream, etc. Schramm-Johnson, Drugs. 180,743; renewed Mar. 4, 1944.
Herb and vegetable compound medical preparation, Liquid. T. S. Dooganitois. 406,904; May 9; Serial No. 459,148; published Dec. 7, 1943.
Laxative, Tonic. Virginia Dare Extract Company. 188,666; renewed Sept. 2, 1944.
Liver, iron and vitamin preparations. Bovinine Company. 406,956; May 9; Serial No. 465,596; published Feb. 15, 1944.
Lotions and hair lotions, Face. Pinaud Incorporated. 406,986; May 9.
Lotions or creams, Hand. J. E. Respondek. 406,998; May 9.
Medicinal compounds for relieving itching of the scalp, etc. A. R. Esmiz. 406,933; May 9; Serial No 464,941; published Feb. 15, 1944.
Medicinal hormone preparations. Schering Corporation 406,955; May 9; Serial No. 465,579; published Feb. 15, 1944.
Nail polish, lipstick, and rouges. Elizabeth Arden Sales Corporation. 406,968; May 9; Serial No. 465,861; published Feb. 22, 1944.
Nutritive substance composed largely of amino acids, A. Frederick Stearns & Company. 406,943; May 9; Serial No. 465,326; published Feb. 22, 1944.
Oxides of cobalt, chromium, selenium, etc. Vitro Manufacturing Company. 184,300; renewed May 20, 1944.
Perfume, toilet water, and eau de cologne. Bergere Perfume Company. 406,917; May 9; Serial No. 463,770; published Dec. 21, 1943.
Photographic chemicals. Eastman Kodak Company. 406,971–3; May 9; Serial Nos. 465,942–4; published Feb. 22, 1944.
Photographic chemicals. Eastman Kodak Company. 406,974; May 9; Serial No. 465,946; published Feb. 22, 1944.
Photographic chemicals. Eastman Kodak Company. 406,975; May 9; Serial No. 465,948; published Feb. 22, 1944.
Powder, Talcum. Lehn and Fink, Inc. 188,450; renewed Aug. 26, 1944.
Preparation for treatment of headache, neuralgia, etc. M. G. Gibbs. 181,279; renewed Mar. 18, 1944.
Preparation used for athlete's foot. A. K. Snyder. 406,941; May 9; Serial No. 465,301; published Feb. 15. 1944.
Preparations for the treatment of spirochetal and other infectious diseases and as a diuretic. H. A. Metz Laboratories, Inc. 188,515; renewed Aug. 26, 1944.
Product used to relieve transient nasal congestion. Wm. S. Merrill Company. 406,970; May 9; Serial No. 465,926; published Feb. 22, 1944.
Remedy for acid stomach, heartburn, indigestion, etc. Hance Brothers & White, Incorporated. 188,694; renewed Sept. 2, 1944.
Resinous materials. B. F. Goodrich Company. 406,931; May 9; Serial No. 464,815; published Feb. 22, 1944.
Skin cream, A nongreasy protective. Skat Company. 406,936; May 9; Serial No. 465,050; published Feb. 15, 1944.
Starches. Jacques Wolf & Co. 181,286–7; renewed Mar. 18, 1944.
Tea, Indian herb. Iroquois Famous Indian Remedies, Inc. 188,851; renewed Sept. 2, 1944.
Toilet preparations. A. Bourjois & Co. Inc. 187,527; renewed Aug. 5, 1944.
Toilet preparations. A. Bourjois & Co. Inc. 188,414; renewed Aug. 26, 1944.
Tonic and dandruff remedy, Hair. F. Hess. 188,445; renewed Aug. 26, 1944.
Tonic, hot oil, and temple oil, Hair. Madam N. A. Franklin School of Beauty Culture. 406,942; May 9; Serial No. 465,318; published Feb. 15, 1944.
Vaccine, An oral respiratory. Biological Products Co., 406,952; May 9; Serial No. 465,521; published Feb. 22, 1944.
Vaginal preparation. Norwich Pharmacal Company. 406,945; May 9; Serial No. 465,367; published Feb. 22, 1944.
Vitamin B complex tablets. Unit Vitamin Corporation. 406,965; May 9; Serial No. 465,700; published Feb. 22, 1944.
Vitamin complex and iron product. E. M. B. Owmen. 406,949; May 9; Serial No. 465,464; published Feb. 15, 1944.
Yeast vitamine tablets. Bristol-Myers Company. 406,954; May 9; Serial No. 465,524; published Feb. 15, 1944.

CLASS 10

Manure. Atkins & Durbrow, Inc. 406,944; May 9; Serial No. 465,347; published Feb. 29, 1944.

CLASS 11

Inks, Writing. Sanford Ink Company. 406,914; May 9; Serial No. 463,633; published Jan. 25, 1944.

CLASS 12

Calcined gypsum, stucco, cement plaster, etc. United States Gypsum Company. 185,223; renewed June 10, 1944.
Plaster board and plaster wall board. Samson Plaster Board Company. 185,103; renewed June 10, 1944.
Shutters, curtains, and doors, Metallic fire-resisting. Kinnear Manufacturing Co. 181,024; renewed Mar. 11, 1944.
Wall covering, Plastic. United States Gypsum Company. 187,560; renewed Aug. 5, 1944.
Wall plasters, Calcined-gypsum. Samson Plaster Board Company. 186,147; renewed July 1, 1944.

CLASS 13

Tubes, copper tubes, low-brassed seamless tubes, etc., Brass. Anaconda Copper Mining Company. 187,311; renewed July 29, 1944.
Wood screws, machine screws, stove bolts, etc. Reed & Prince Manufacturing Company. 187,966; renewed Aug. 12, 1944.

CLASS 14

Sheet metal, tin coated. Carnegie-Illinois Steel Corporation. 406,911; May 9; Serial No. 463,312; published Feb. 22, 1944.
Tool steel in the form of bars, billets, sheets and strips. Hoyland Steel Company. 406,903; May 9; Serial No. 458,306; published Feb. 29, 1944.

CLASS 15

Fluids used in cooling metal. Gray-Mills Co. 406,899; May 9; Serial No. 456,143; published Feb. 29, 1944.
Gasoline and lubricating oil and grease. E. J. Johansen. 185,709; renewed June 24, 1944.
Naphtha and refined oil. Vacuum Oil Company. 185,691; renewed June 24, 1944.
Oil, Machine grinding. Phoenix Oil Company. 407,003; May 9.
Oils, Lubricating. Standard Oil Company. 406,932; May 9; Serial No. 464,832; published Feb. 29, 1944.

CLASS 16

Cleaner and polish. A. J. Volpe. 406,997; May 9.
Coating composition, Self-luminous, non-colored, fluid pigment. Lunex Company. 406,935; May 9; Serial No. 465,001; published Feb. 15, 1944.
Lacquers, paints, in paste and ready-mixed forms, stains, etc. Reliance Varnish Company. 406,915; May 9; Serial No. 463,708; published Feb. 22, 1944.
Paint, Ready-mixed. M. J. Merkin Paint Co. 187,547; renewed Aug. 5, 1944.
Paints, etc., Removable coating material in the nature of. Du Bois Company. 406,951; May 9; Serial No. 465,502; published Feb. 22, 1944.
Paints, ready mixed paints, varnishes, etc., Dry. The Bishop-Conklin Company. 406,930; May 9; Serial No. 464,742; published Feb. 22, 1944.
Putty and glazing compounds. The Dicks-Pontius Company. 406,929; May 9; Serial No. 464,692; published Feb. 22, 1944.
Sealing compound, Liquid floor. Masury-Young Company. 406,901; May 9; Serial No. 457,880; published Feb. 29, 1944.
Varnish containing gums, resins and oils, Penetrating floor. Acme Chemical Company. 406,918; May 9; Serial No. 463,858; published Feb. 22, 1944.

CLASS 17

Cigarettes, smoking tobacco, and cigars. H. E. Shaw Company. 407,002; May 9.
Tobacco in leaf form. Tobacco Rehandling Co., Ltd. 187,839; renewed Aug. 12, 1944.
Tobacco, Smoking. Larus & Brother Company. 180,799; renewed Mar. 4, 1944.

CLASS 19

Brakes, Vehicle. Hydraulic Brake Company. 180,945; renewed Mar. 11, 1944.

CLASS 21

Battery-charging apparatus, electrical control apparatus, etc., Complete and incomplete. Allen-Bradley Company. 185,662; renewed June 24, 1944.
Demagnetizing apparatus. L. F. Littwin. 406,937; May 9; Serial No. 465,204; published Feb. 29, 1944.
Electrical insulation materials. Irvington Varnish & Insulator Co. 187,446; renewed Aug. 5, 1944.
Signs with movable perforated tapes, Electrically illuminated. Tel-a-Tale Motion Sign Corporation. 406,950; May 9; Serial No. 465,489; published Feb. 29, 1944.
Substances having di-electric insulating characteristics. J. L. Bernard, Jr. 406,920; May 9; Serial No. 464,301; published Feb. 29, 1944.

CLASS 22

Blackboards and toy magic slates, Toy. Bob Products Company. 406,962; May 9; Serial No. 465,676; published Feb. 29, 1944.
Footballs, basket balls, soccer balls, etc. William Sykes, Limited. 180,948; renewed Mar. 11, 1944.
Footballs, basket balls, soccer balls, etc. William Sykes, Limited. 181,432; renewed Mar. 18, 1944.
Toy consisting of a miniature paratrooper with a parachute attached. E. Kalep. 406,923–4; May 9; Serial No. 466,327–8; published Feb. 29, 1944.
Toys, Wheeled. Tex Toy Manufacturing Co. 406,980; May 9; Serial No. 466,235; published Feb. 29, 1944.

CLASS 23

Blades, Razor. Sheffield Manufacturing Corp. 406,991; May 9.
Conveyers, Traveling. Jeffrey Manufacturing Company. 406,982; May 9.
Metal surfacer. Carver File Co. 188,204; renewed Aug. 19, 1944.
Pumps, Rotary fluid. Weldon Tool Company. 406,987; May 9.
Saws, saw swages, saw-fitting tools, etc. E. C. Atkins & Company. 184,460; renewed May 27, 1944.

CLASS 26

Balances and scales for weighing purposes. Torsion Balance Company. 406,952; May 9; Serial No. 465,517; published Feb. 29, 1944.
Balances and weighing machines, steam gauges, etc., Spring. Geo. Salter & Co. Limited. 406,993; May 9.
Lens mountings, Magnifying. E. W. Pike. 406,905; May 9; Serial No. 461,024; published Feb. 29, 1944.
Meters of the cavity type, Wave. Auto-Ordnance Corporation. 406,981; May 9; Serial No. 466,210; published Feb. 29, 1944.
Thermostatic controls. H. A. Wilson Company. 188,225; renewed Aug. 19, 1944.

CLASS 28

Clips, brooches, bracelets, etc., Jewelry. Elzac California Jewelry Creations. 406,927; May 9; Serial No. 464,604; published Feb. 29, 1944.
Silver hollow ware. Bernard Rice's Sons, Inc. 188,604; renewed Sept. 2, 1944.

CLASS 29

Brush and mop, Combination floor. L. J. Klein. 406,983; May 9.
Brushes. Geo. S. Leiner & Co. 181,720; renewed Mar. 25, 1944.
Brushes, Bowling alley bed. Brunswick-Balke-Collender Company. 406,966; May 9; Serial No. 465,795; published Feb. 29, 1944.
Brushes, Soft dusting. Varniton Company. 406,939; May 9; Serial No. 465,216; published Feb. 29, 1944.
Finger pad daubers. Matilda Silver. 406,940; May 9; Serial No. 465,300; published Feb. 29, 1944.

CLASS 31

Refrigerators, Household. Stewart-Warner Corporation. 406,922; May 9; Serial No. 466,268; published Feb. 29, 1944.
Filters, Industrial. Sparkler Manufacturing Company. 406,976; May 9; Serial No. 466,027; published Feb. 29, 1944.

CLASS 33

Glass. Chance Brothers and Co. Limited. 175,467; renewed Nov. 6, 1943.

CLASS 34

Kindlers, Asbestos. Atlas Asbestos Company. 406,994; May 9.

CLASS 35

Belts, Power transmission. L. H. Gilmer Co. 406,909; May 9; Serial No. 463,093; published Feb. 29, 1944.

CLASS 37

Blank and partially printed index cards. Remington Rand Inc. 406,992; May 9.
Cards, envelopes, blotters, etc., Imprinted. Mutual Sample Card Corporation. 406,938; May 9; Serial No. 465,205; published Feb. 29, 1944.
Paper, Duplicating. Old Town Ribbon & Carbon Co. Inc. 406,908; May 9; Serial No. 461,825; published Oct. 19, 1943.
Printing paper, Pigment paper in the nature of insensitive. M. McGraw. 406,910; May 9; Serial No. 463,263; published Feb. 29, 1944.

CLASS 38

Magazine. Aeronautical Digest Publishing Corporation. 182,786; renewed Apr. 15, 1944.
Magazine. Oregon Humane Society. 184,901; renewed June 3, 1944.

CLASS 39

Boots, shoes, slippers, etc. Gladding Dry Goods Co. 182,436; renewed Apr. 8, 1944.
Corsets, brassières, slips, etc. Dorothy Bickum. 406,948; May 9. Serial No. 465,445; published Feb. 15, 1944.
Dresses, coats, evening dresses, etc., Women's. Sisson Brothers Welden Company. 406,984; May 9.
Dresses, coats, suits, etc., Women's, ladies', and misses'. Cotton Shop, Inc. 407,001; May 9.
Shirts, negligee shirts, and work shirts, Men's dress. National Shirt Shops, Inc. 183,377; renewed Apr. 29, 1944.
Shoes, Women's. Brauer Bros. Shoe Company. 185,778; renewed June 24, 1944.

CLASS 40

Button and buttonhole tape. Dritz-Traum Company. 406,986; May 9.
Fasteners, Cover. W. R. Chappell. 186,870; renewed July 22, 1944.
Medallions, Lace. Sears, Roebuck and Co. 406,988; May 9.

CLASS 42

Dress goods in the piece. M. Silverman & Son. 188,663; renewed Sept. 2, 1944.
Nets, Cover. W. R. Chappell. 187,741; renewed Aug. 12, 1944.
Piece goods, Silk. H. R. Mallinson & Co. Inc. 180,598; renewed Mar. 4, 1944.

CLASS 44

Bottles, Hot water. R. Palmer. 178,994; renewed Feb. 5, 1944.
Dental supplies. Mizzy, Inc. 188,391; renewed Aug. 26, 1944.
Resin, Acrylic. H. J. Esdale. 406,989; May 9.
Surgical dressings. Johnson & Johnson. 406,916; May 9; Serial No. 463,735; published Nov. 30, 1943.

CLASS 45

Beverage, Nonalcoholic, noncereal, maltless. World Bottling Company, Limited. 188,034; renewed Aug. 19, 1944.
Beverages and concentrates and compounds for making the same, Nonalcoholic, maltless. Orange-Crush Company. 187,791; renewed Aug. 12, 1944.

CLASS 46

Bread. Atlas Baking Company. 185,398; renewed June 17, 1944.
Bread, cakes, fried cakes, and coffee cakes. Grennan Cake Corporation. 183,785; renewed May 6, 1944.
Bread, rolls, buns, and other pastry. Texas Bread Company. 183,830; renewed May 6, 1944.
Bread, rolls, cakes, etc. Grennan Cake Corporation. 183,782; renewed May 6, 1944.
Cake, Fruit. Grennan Cake Corporation. 184,165; renewed May 20, 1944.
Cakes, cookies, coffee cakes, and bread. Grennan Cake Corporation. 183,783; renewed May 6, 1944.
Candies and chewing gums. Mint Products Co. Inc. 187,298; renewed July 29, 1944.
Candy. D. T. Lamme. 406,995; May 9, 1944.
Candy. Madeleine. 186,740; renewed July 22, 1944.
Canned fruits, canned vegetables, and canned fish. Haas Brothers. 188,164; renewed Aug. 19, 1944.
Canned fruits, canned vegetables, and canned fish. Kroger Grocery & Baking Co. 180,956; renewed Mar. 11, 1944.
Canned vegetables. Gristede Bros., Inc. 184,634; renewed May 27, 1944.
Canned vegetables. Gristede Bros., Inc. 185,096; renewed June 10, 1944.

Condiment and salad dressing. E. A. Aaron & Bros., Inc. 406,978; May 9; Serial No. 466,065; published Feb. 29, 1944.
Egg product, Frozen. Morris Ovson Company. 181,254; renewed Mar. 18, 1944.
Feed, etc., Rice and stock and poultry. Louisiana State Rice Milling Company. 406,947; May 9; Serial No. 465,398; published Feb. 29, 1944.
Fish, Fresh. Chesebro Brothers & Robbins, Inc. 183,341; renewed Apr. 29, 1944.
Flour, corn meal, scratch feed, etc., Whole-wheat. W. Smith. 183,405; renewed Apr. 29, 1944.
Flour, Prepared. Flako Products Corporation. 187,255; renewed July 29, 1944.
Food, Live cattle, horses, and sheep for use as. C. Sponsel. 406,897; May 9; Serial No. 455,520; published Feb. 29, 1944.
Fruit juices, Citrus. J. L. Winslow. 406,902; May 9; Serial No. 458,214; published Feb. 29, 1944.
Fruits and vegetables, fresh, canned, dried, or preserved, canned fish, etc. Llobera y Compañía S. En C. 406,906; May 9; Serial No. 461,143; published Sept. 7, 1943.
Gum, Chewing. American Chewing Products Corp. 406,967; May 9; Serial No. 465,858; published Feb. 29, 1944.
Oil, Cooking. F. A. Bowles. 188,583; renewed Sept. 2, 1944.
Oleomargarine. Ed. S. Vail Butterine Co. 182,106; renewed Apr. 1, 1944.
Olive oil. A. Corrao. 181,916; renewed Apr. 1, 1944.
Peanuts, Sugar coated. A. A. Camp. 406,949; May 9; Serial No. 465,891; published Feb. 29, 1944.
Pickles, relish, pickle sauces, etc., Sour. T. L. Brice. 406,895; May 9; Serial No. 443,711; published Feb. 29, 1944.
Salmon, Canned. K. Dehn. 406,925–6; May 9; Serial Nos. 466,433–4; published Feb. 29, 1944.
Starches, Jacques Wolf & Co. 181,286–7; renewed Mar. 18, 1944.
Yeast. Liberty Yeast Corporation. 188,389; renewed Aug. 26, 1944.

CLASS 48

Beer. Arizona Brewing Company. 406,990; May 9.

CLASS 50

Dolls, Ornamental. J. B. Stevens. 406,934; May 9; Serial No. 464,983; published Feb. 29, 1944.
Plates, Finished printing. Intaglio Service Corporation. 406,907; May 9; Serial No. 461,782; published Jan. 18, 1944.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Beaven, Leslie W., Chicago, Ill. Internal combustion rotary engine. Re. 22,473; May 9.
Bell Telephone Laboratories, Incorporated. (See McDavitt, Marcellus B., assignor.)
Bell Telephone Laboratories, Incorporated. (See McKim, James B., assignor.)
Fryer, Louis S., Cleveland, and L. E. Lovett, Madison, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Process and apparatus for controlling tension. Re. 22,474; May 9.
Hathaway, Madeleine P., et al., executors. (See Perkins, Hiram A.)
Industrial Rayon Corporation. (See Fryer, L. S., and Lovett, assignors.)
Lovett, Louis E. (See Fryer, L. S., and Lovett.)
McDavitt, Marcellus B., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. Re. 22,475; May 9.
McKim, James B., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. Re. 22,476; May 9.
Millar, Harvey C., Western Springs, assignor to The Quaker Oats Company, Chicago, Ill. Ammoniated agricultural material as livestock feed and process of producing same. Re. 22,477; May 9.
Perkins, Hiram A., deceased, Rochester, N. Y., by S. L. Perkins, Rochester, N. Y., and M. P. Hathaway, Montclair, N. J., executors; said H. A. Perkins assignor to Setter Bros. Inc., Cattaraugus, N. Y. Method of, and apparatus for, manufacturing roglike articles. Re. 22,478; May 9.
Perkins, Stuart L., et al., executors. (See Perkins, Hiram A.)
Quaker Oats Company, The. (See Millar, Harvey C., assignor.)
Setter Bros. Inc. (See Perkins, Hiram A., assignor.)

LIST OF PLANT PATENTEES

Fairman, Claude, near Charlevoix, Mich., assignor to Stark Bros. Nurseries and Orchards Company, Louisiana, Mo. Cherry tree. 627; May 9.

LIST OF DESIGN PATENTEES

Birsh, Henry, New York, N. Y. Lamp. 137,885; May 9.
Castle, Emil J., Lenox, Mich. Bow-buckle or similar article. 137,859; May 9.
Cloutier, George D., assignor to Eversharp, Inc., Chicago, Ill. Fountain pen. 137,860; May 9.
Conant, David J., Shaker Heights, assignor to Jack & Heintz Research Corporation, Bedford, Ohio. Aircraft engine starter supporting frame. 137,862; May 9.
Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Combination table and wall plaque. 137,861; May 9.
Eversharp, Inc. (See Cloutier, George D., assignor.)
Eversharp, Inc. (See Loewy, Raymond, assignor.)
Haase, Harry H. (See Kartveli, A., and Haase.)
Hat Corporation of America. (See Maxwell, P. M., and Russy, assignors.)
Jack & Heintz Research Corporation. (See Conant, David J., assignor.)
Jakosky, John J., Lawrence, Kans. Golf club head. 137,863; May 9.
Jolles, Ida, New York, N. Y. Handbag. 137,864; May 9.
Kartveli, Alexander, Hempstead, and H. H. Haase, Hollis, N. Y., assignors to Republic Aviation Corporation. Airplane. 137,889; May 9.
Kelly, Allan O., Carlsbad, Calif. Airplane. 137,891; May 9.
Kelley, John C., New Haven, Conn. Rosary of the stations of the cross. 137,865; May 9.
Libbey-Owens-Ford Glass Company. (See Doner, Halbert C., assignor.)
Loewy, Raymond, New York, N. Y., assignor to Eversharp, Inc., Chicago, Ill. Casing for writing implement or the like. 137,866; May 9.
Loewy, Raymond, New York, N. Y., assignor to Eversharp, Inc., Chicago, Ill. Casing for writing implement or the like. 137,867; May 9.
Lorenz, David M. (See Smith, Travis O., assignor.)
Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., asignors to Hat Corporation of America, Norwalk, Conn. Cap. 137,892; May 9.
Metropolis Bending Company. (See Puls, A. E., and Swenson, assignors.)
Meyers, Charles, New York, N. Y. Wallet. 137,868; May 9.
Meyers, Charles, New York, N. Y. Wallet. 137,869; May 9.
Meyers, Charles, New York, N. Y. Wallet. 137,870; May 9.
Morris, Harry, Chicago, Ill. Earring or similar article. 137,871; May 9.
Mutch, James B., assignor to Schelter Last Co., Inc., Rochester, N. Y. Shoe tree. 137,872; May 9.
National Silver Company. (See Vitolo, Philip, assignor.)
Nicholas, Ifor R., Los Angeles, Calif. Magnetic locating tool or similar article. 137,886; May 9.
Palmieri, John, New York, N. Y. Stick for spinning ball. 137,873; May 9.
Partridge, Charles P., Richmond, Calif. Sign or the like. 137,874; May 9.
Phelan, Louis A. M., Beloit, Wis. Rectangular container for frozen products. 137,890; May 9.
Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Child's feeding and play table. 137,875; May 9.
Republic Aviation Corporation. (See Kartveli, A., and Haase, assignors.)
Rotomat Corporation, The. (See Tavis, John, assignor.)
Russy, Wilhelmina J. (See Maxwell, P. M., and Russy, assignors.)
Schelter Last Co. (See Mutch, James B., assignor.)
Shulman, Matthew H., New York, N. Y. Egg dish. 137,887; May 9.
Simpson, Riffle, Indianapolis, Ind. Fish lure. 137,876; May 9.
Smith, Travis O., Kansas City, Mo., assignor, by mesne assignments, to D. M. Lorenz, Johnson County, Kans. Combined bed table and refuse receptacle support. 137,877; May 9.
Solomon, Joseph W., Bronx, N. Y., assignor to The Verplex Company, Essex, Conn. Pin-up lamp. 137,888; May 9.
Swenson, Edward R. (See Puls, A. E., and Swenson.)
Tavis, John, Bayside, N. Y., assignor to The Rotomat Corporation. Vending machine cabinet. 137,878; May 9.
Tavis, John, Bayside, N. Y., assignor to The Rotomat Corporation. Vending machine cabinet. 137,879; May 9.
Verplex Company, The. (See Solomon, Joseph W., assignor.)
Vitolo, Philip, Long Island City, assignor to National Silver Company, New York, N. Y. Fork or other article of flatware. 137,880; May 9.
Wall, Thomas W., New Rochelle, N. Y. Saucer. 137,881; May 9.
Wells, Claude, Milwaukee, Wis. Stroller. 137,882; May 9.
Widder, J., & Co. (See Widder, William, assignor.)
Widder, William, assignor to J. Widder & Co., New York, N. Y. Display album. 137,883; May 9.
Wolf, Semon, New York, N. Y. Slip or similar article. 137,893; May 9.
Yellin, Morris, Chicago, Ill. Cosmetic container. 137,884; May 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrams, Allen, and G. W. Forcey, Wausau, W. H. Graebner, Neenah, A. M. Heald, Wausau, and G. G. Rumberger, Neenah, assignors to Marathon Paper Mills Company, Rothschild, Wis. Composition for coating and laminating sheet materials. 2,348,687; May 9.

Abrams, Allen, and G. W. Forcey, Wausau, W. H. Graebner, Neenah, A. M. Heald, Wausau, and G. G. Rumberger, Neenah, assignors to Marathon Paper Mills Company, Rothschild, Wis. Heat-sealable label. 2,348,688; May 9.

Abrams, Allen, D. W. Davis, and G. W. Forcey, Wausau, G. G. Rumberger, Neenah, and C. L. Wagner, Menasha, assignors to Marathon Paper Mills Company, Rothschild, Wis. Container. 2,348,689; May 9.

Ackerman, James E., Devon, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Workfolding attachment for sewing machines. 2,348,690; May 9.

Adler, Paul W. (See Buchanan, J D., and Adler.)

Aiken, Thomas McG., Pittsburgh, Pa. Camera. 2,348,510; May 9.

Aker, Evender S., Belleville, N. J. Shaft journaling means. 2,348,274; May 9.

Aker, Evender S., Belleville, N. J. Shaft journal. 2,348,275; May 9.

Aktiebolaget Separator-Nobel. (See Engel, Bruno, assignor.)

Aktiengesellschaft Brown, Boveri & Cie. (See Beldi, Fritz, assignor.)

Alford, Andrew J., McComb, Mass. Mechanical sign apparatus. 2,348,276; May 9.

Allen Property Custodian. (See Bock, Eugen.)

Allen Property Custodian. (See Dijksterhuis, Pieter H.)

Allen Property Custodian. (See Guerci, Giovanni.)

Allen-Bradley Company. (See Matthias, Lynn H., assignor.)

Alliance Manufacturing Company, The. (See Armel, Jack, assignor.)

Allied Chemical & Dye Corporation. (See Cole, P. J., and Brutt, assignors.)

Allis-Chalmers Manufacturing Company. (See Becker, George D., assignor.)

Allis-Chalmers Manufacturing Company. (See Reichert, Harold E., assignor.)

Alox Corporation. (See Camelford, James A., assignor.)

American Can Company. (See Pelosi, Nicholas, assignor.)

American Car and Foundry Company. (See Golden, J. P., and Meyer, assignors.)

American Car and Foundry Company. (See Hummer, Charles I., assignor.)

American Car and Foundry Company. (See Knox, David M., assignor.)

American Enka Corporation. (See Polak, James J., assignor.)

American Laundry Machinery Company, The. (See Couch, Forrest J., assignor.)

American Pipe and Construction Co. (See Jenkins, Fred F., assignor.)

American Smelting and Refining Company. (See Phillips, A. J., and Smith, assignors.)

American Smelting and Refining Company. (See Crane, R. G., and Perkins, assignors.)

American Smelting and Refining Company. (See Harris, Charles H., assignor.)

American Steel and Wire Company of New Jersey, The. (See Beckwith, Glenwood J., assignor.)

American Steel and Wire Company of New Jersey, The. (See Bletso, B. N., Hood, and Morgan, assignors.)

American Steel and Wire Company of New Jersey, The. (See De Witz, Alfred E. E., assignor.)

American Steel and Wire Company of New Jersey, The. (See Harper, Arthur C., Jr., assignor.)

American Steel and Wire Company of New Jersey, The. (See Papazian, Martin S., assignor.)

American Steel Foundries. (See Baselt, Walter H., assignor.)

American Steel Foundries. (See Oelkers, Alfred H., assignors.)

Anchor Cap & Closure Corporation. (See Geertsema, Kenneth B., assignor.)

Anderson, Clarence T. (See Dean, R. S., and Anderson.)

Andresen, Christian A, executor. (See Selby, Dwight E.)

Animal Trap Company of America. (See Graybill, Hershey R., assignor.)

Antalek, John J., assignor to The Rauland Corporation, Chicago, Ill. Modulation system. 2,348,585; May 9.

Antonelli, Joseph A., Elgin, assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Oil seal. 2,348,586; May 9.

Antonelli, Joseph A., Elgin, assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Seal construction. 2,348,587; May 9.

Applied Mechanics Co. (See Rudolf, Henry J. G., assignor.)

Armel, Jack, assignor to The Alliance Manufacturing Company, Alliance, Ohio. Commutator and manufacture. 2,348,511; May 9.

Arsneau, George, Dallas, Tex. Power saw. 2,348,588; May 9.

Arthur, James L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition timer. 2,348,236; May 9.

Ashby, Harold W. (See Newman, T. P. and Ashby.)

Atlantic Coast Fisheries Company, The. (See Taylor, Harden F., assignor.)

Atlantic Refining Company, The. (See Becker, Joseph C., assignor.)

Atlee, Zed J., Elmhurst, Ill., and R. F. Wilson, Washington, D. C., assignors to General Electric X-Ray Corporation, Chicago, Ill. Electron flow device. 2,348,184; May 9.

Austin, Merritt B., Jr., Winnetka, Ill. Adjustable plaster ear. 2,348,318; May 9.

Auten, Claude I., Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company. Fastening means. 2,348,589; May 9.

Automatic Electrical Laboratories, Inc. (See Evers, H. G., and Elliott, assignors.)

Automatic Electric Laboratories, Inc. (See Lomax, Clarence E., assignor.)

Automatic Electric Laboratories, Inc. (See Mackenzie, John F., assignor.)

Automatic Electric Laboratiries, Inc. (See Obergfell, Herbert F., assignor.)

Automatic Shifters, Inc. (See Hey, H. W., and Ingres, assignors.)

Automotive Products Company Limited. (See Parker, Sydney M., assignor.)

Ayotte, Joseph Rene, Chicago, Ill. Safety razor. 2,348,590; May 9.

Bailey, David C., Amesbury, Mass. Combined windlace and panel trim retainer. 2,348,319; May 9.

Bailey, James, West Hartford, assignor to Plax Corporation, Hartford, Conn. Apparatus for skinning thermoplastic shapes. 2,348,591; May 9.

Baldwin Rubber Company. (See Fiekers, Edmund J., assignor.)

Banck, William H., Washington, D. C. Cigarette and match dispenser. 2,348,442; May 9.

Barnes, Marion W., assignor to Universal Oil Products Company, Chicago, Ill. Heating of fluids. 2,348,512; May 9.

Barnes, Marion W., assignor to Universal Oil Products Company, Chicago, Ill. Heater for fluids. 2,348,513; May 9.

Barnett, Harold M., Long Beach, Calif. Concentrating carotene. 2,348,443; May 9.

Barnett, Louis, Brooklyn, assignor, by mesne assignments, to National Urn Bag Co., Inc., Long Island City, N. Y. Manufacture of infusion packages with handles. 2,348,201; May 9.

Barr, James M., and R. C. Mercer, Los Angeles, Calif.; said Barr assignor to said Mercer. Film patching jig. 2,348,237; May 9.

Bartee, Ussury A., San Pablo, Calif. Flange bending apparatus. 2,348,185; May 9.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,348,444; May 9.

Bashore, Quinter E., Covina, Calif. Tapering ends of tubular objects. 2,348,186; May 9.

Bassett, Wm., et al., trustees. (See Ross, Talbert C., assignor.)

Bates, Lawrence G., Shaker Heights, assignor to Continental Say-When Corporation, Cleveland, Ohio. Liquid dispenser. 2,348,514; May 9.

Battelle Memorial Institute. (See Pray, Henry A. H., assignor.)

Baumgartner, John G., Aurora, Ill. Brush. 2,348,515; May 9.

Bayer, August H., North College Hill, assignor to Littleford Brothers, Incorporated, Cincinnati, Ohio. Road roller. 2,348,445; May 9.

Bazley, Carl E., Schenectady, N. Y., assignor to General Electric Company. Circuit breaker. 2,348,516; May 9.

Beardsley, Harry I., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone housing detail. 2,348,592; May 9.

Becker, George D., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary cooler. 2,348,446; May 9.

Becker, Joseph C., Longview, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Salt water pit lining. 2,348,320; May 9.

Beckwith, Glenwood J., Brecksville, Ohio, assignor to The American Steel and Wire Company of New Jersey. Stainless steel anodic polishing. 2,348,517; May 9.

Beeke, Henry F., and S. A. Young, assignors to Globe Valve Corporation, Delphi, Ind. Bath, sink, and lavatory fixture. 2,348,238; May 9.

Bee-Line Company. (See Smith, Roy D., assignor.)

Beitler, Samuel R., assignor of one-half to J. E. Overbeck, Columbus, Ohio. Apparatus for compensating gas meter readings. 2,348,593; May 9.

Beldi, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. High voltage transformer. 2,348,239; May 9.

Bell Telephone Laboratories, Incorporated. (See Beardsley, Harry I., assignor.)

Bell Telephone Laboratories, Incorporated. (See Holden, William H. T.)

Bell Telephone Laboratories, Incorporated. (See Johnson, Kenneth S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mallina, Rudolph F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mesch, Orwar S. A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Richardson, Paul H., assignor.)

Belli, John, Clifton, assignor to Botany Worsted Mills, Passaic, N. J. Wool feeding apparatus. 2,348,691; May 9.

Bellows, Foy E., Van Alstyne, Tex. Centrifugal electric casting and molding machine. 2,348,322; May 9.

Beloit Iron Works. (See Goodwillie, J. E., and Berry, assignors.)

Beloit Iron Works. (See Hornbostel, Lloyd, assignor.)

Bendix Aviation Corporation. (See Bremser, Albert T., assignor.)

Bendix Aviation Corporation. (See Tognola, Tullio, assignor.)

Benning, Anthony F., Woodstown, and J. D. Park, assignors to Kinetic Chemicals, Inc., Wilmington, Del. Fluorine compounds. 2,348,321; May 9.

Beny, George W. (See Calva, Jose B., assignor.)

Bernardi, Dominic J., Bronx, assignor to Interchemical Corporation, New York, N. Y. Printing ink. 2,348,594; May 9.

Berry, Earl E. (See Goodwillie, J. E., and Berry.)

Beskin, Gerald S., Minneapolis, assignor of one-half to F. O. Kuehn, Sr., St. Paul Minn. Bottle carrier. 2,348,187; May 9.

Weswick, William, Birmingham, Ala. Drawing rolls for spinning machines. 2,348,202; May 9.

Bethlehem Steel Company. (See Dolan, Francis D., assignor.)

Binder, Charles F., Cranford, assignor to Lidgerwood Manufacturing Company, Linden, N. J. Telemotor system. 2,348,323; May 9.

Birkigt, Louis, Rive Bleue, Versoix, near Geneva, Switzerland. Power plant. 2,348,518; May 9.

Birtley Company Limited, The. (See Holmes, Colin W. H., assignor.)

Blackhawk Mfg. Co. (See Pfauser, Edward M., assignor.)

Bletso, Bruce N., East Cleveland, C. F. Hood, Shaker Heights, Ohio, and W. S. Morgan, Plainfield, Ill., assignors to The American Steel and Wire Company of New Jersey. Wire winding mechanism. 2,348,595; May 9.

Blev, Rudolph S., Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Viscose spinning solution. 2,348,203; May 9.

Blomqvist, Gustav M., and S. F. Torstensson, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,348,596; May 9.

Bocjl Corporation. (See La Place, Desmond R., assignor.)

Bock, Eugen, Krefeld-Uerdingen, Germany; vested in the Alien Property Custodian. Adhesive and coating material. 2,348,447; May 9.

Boeing Aircraft Company. (See Pierce, Lyle L., assignor.)

Bohmer, Clarence I. (See Jaeger, G., and Bohmer.)

Bolley, Herschel C., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch. 2,348,519; May 9.

Bond, Allen M., Jr., assignor to Brown & Williamson Corporation, Louisville, Ky. Wetproof cigarette paper. 2,348,324; May 9.

Booher, Ortis C. (See Kahl, F., and Booher.)

Booth, Thomas R., assignor to Railway Service and Supply Corporation, Indianapolis, Ind. Cleaning and renovating waste. 2,348,597; May 9.

Boothby, Walter M., and A. H. Bulbulian, Rochester, Minn. Oxygen mask. 2,348,277; May 9.

Bordon Mfg. Co. (See Van Dyke, Frank G., assignor.)

Borg, George W., Corporation. (See Warmey, B. A., and Moreland, assignors.)

Botany Worsted Mills. (See Belli, John, assignor.)

Boyer, William F., Delair, N. J. Ship decking. 2,348,188; May 9.

Boyles, Edgar R., and C. M. Pattison, assignors to The Johnston Glass Co., Inc., Hartford City, Ind. Apparatus for forming combination curved and straight glass. 2,358,278; May 9.

Boyles, Edgar R., and C. M. Pattison, assignors to The Johnston Glass Co., Inc., Hartford City, Ind. Apparatus for forming and annealing combination curved and straight glass. 2,348,279; May 9.

Brackett, Tracy F., assignor to General Motors Corporation, Detroit, Mich. Duplicating mechanism. 2,348,280; May 9.

Brady, Samuel G., Royal Oak, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Machine for grinding racks. 2,348,281; May. 9.

Braun, Alexander N., New York, N. Y. Cluster bomb. 2,348,240; May 9.

Bremser, Albert T., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Fuel injection apparatus. 2,348,282; May 9.

Brewer, John H., Towson, Md., assignor to Kimble Glass Company, Vineland, N. J. Apparatus for the cultivation of anaerobic and micro-aerophilic organisms. 2,348,448; May 9.

Bridwell, Chalon E., Detroit, Mich. Oil well pumping means. 2,348,241; May 9.

Briskman, Samuel. (See Doehm, Karl A., assignor.)

Bromley, Thomas C., and A. Shortland, assignors to Mellor Bromley & Co. Limited, Leicester, England. Mechanism for supplying yarn and thread to the needles of knitting machines. 2,348,598; May 9.

Brown & Williamson Tobacco Corporation. (See Bond, Allen M., Jr., assignor.)

Brown, Cecil L., Baton Rouge, La., assignor, by mesne assignments, to Standard Catalytic Company. Making aviation fuel. 2,348,599; May 9.

Brown, Chester W. (See Kyle, W. D., and Brown.)

Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Electrical transformer. 2,348,325; May 9.

Brown Instrument Company, The. (See Woodward, Wallace W., assignor.)

Brubaker, George P., Los Angeles, assignor to Memovox, Incorporated, Beverly Hills, Calif. Sound reproducing system. 2,348,204; May 9.

Brueckmann, Frank G. (See Roesch, W. G., and Brueckmann.)

Brunswick-Balke-Collender Company, The. (See Hedenskoog, Ernest, assignor.)

Buchanan, J D., and P. W. Adler, Burbank, Calif. Vibration testing device. 2,348,189; May 9.

Buchignani, Edward R., Memphis, Tenn. Match pack holder. 2,348,600; May 9.

Buckley Music System, Inc. (See Henry, Earle G., assignor.)

Bulbulian, Arthur H. (See Boothby, W. M., and Bulbulian.)

Bullinger, Conrad, Riverside, assignor to A. Stein & Company, Chicago, Ill. Undergarment. 2,348,242; May 9.

Bullock, Giles E., Rochester, N. Y. Liquid pump. 2,348,190; May 9.

Burrows, Lawton A., and J. B. Loe, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal clamp. 2,348,326; May 9.

Burtt, Granville W. (See Cole, P. J., and Burtt.)

Buschow, Herman F., New York, N. Y., and E. G. Engel, Roselle, N. J., assignors to The M. W. Kellogg Company, New York, N. Y. Heat exchanger. 2,348,601; May 9.

Bush, Russell J. (See Dodge, H. M., and Bush.)

Business Collaborators, Inc. (See Schelly, Cyril G., assignor.)

California Fruit Growers Exchange. (See Higby, Ralph H., assignor.)

Calleo, Joseph, Endicott, N. Y., assignor to Puritan Manufacturing Company, Boston, Mass. Ribbed insole and making the same. 2,348,327; May 9.

Calva, Jose B., assignor of one-third to G. W. Beny, St. Paul, Minn. Treating filamentous materials. 2,348,602; May 9.

Camelford, James A., Chagrin Falls, Ohio, assignor to Alox Corporation, New York, N. Y. Separatory process. 2,348,191; May 9.

Carborundum Company, The. (See Houchins, Henry R., assignor.)

Cardwell, William T., Jr., Whittier, Calif., assignor to Standard Oil Company of California, San Francisco, Calif. Suspendometer. 2,348,520; May 9.

Carlson, Bert G., Erieside, assignor to Jack & Heintz, Inc., Bedford, Ohio. Housing and caging unit assembly for gyros. 2,348,603; May 9.

Carlson, Bert G., Erieside, assignor to Jack & Heintz, Inc., Bedford, Ohio. Horizon gyro. 2,348,604; May 9.

Carpenter, Albert J., Jr., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Tucker blade motion for rotary folding mechanisms. 2,348,605; May 9.

Carter, John W., and T. H. Kennedy, McKeesport, Pa., assignors to National Tube Company. Runner gate operator. 2,348,521; May 9.

Case, Richard Y., Philadelphia, assignor to L. H. Gilmer Co., Tacony, Philadelphia, Pa. Cut tooth power transmission belt and blank for the same. 2,348,522; May 9.

Cayo, Edmund J., Albany, N. Y. Method and apparatus for making artificial dentures. 2,348,606; May 9.

Celanese Corporation of America. (See Olpin, H. C., Gibson, and Jones, assignors.)

Certain-teed Products Corporation. (See Soissa, John A., assignor.)

Chaikin, Isidore A., Great Neck, N. Y. Garment hanger shield. 2,348,523; May 9.

Chain Belt Company. (See Smith, H. L. Jr., and Conley, assignors.)

Chambers, Lawrence S., Alhambra, Calif. Evaluating flow characteristics of wells. 2,348,192; May 9.

Chandler, Alfred J. G., London, England. Container delivering articles singly. 2,348,449; May 9.

Chaney, Franklin V., New York, N. Y., assignor to R. A. Chaney, Savannah, Ga. Washing machine apparatus. 2,348,450; May 9.

Chaney, R. Ann. (See Chaney, Franklin V., assignor.)

Chapman, Fred F., Wilmington, R. F. Peterson, Bellefonte, Del., and C. A. Woodbury, Media, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process of and apparatus for treating sulphuric acid containing dissolved nitro bodies. 2,348,328; May 9.

Chater, John A., Medina, assignor to Niagara Sprayer and Chemical Co., Inc., Middleport, N. Y. Dusting apparatus. 2,348,205; May 9.

Chenu, George, et al., trustees. (See Ross, Talbert C., assignor.)

Cherry, Inez, et a.l (See Selby, Dwight E., assignor.)

Chicago Development Company. (See Dean, R. S., and Anderson, assignors.)

Chicago Electric Manufacturing Company. (See Gough, James J., assignor.)

Chicago Forging & Manufacturing Co. (See Krause, Walter H., assignor.)

Christensen, Leo M., Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y. Producing alcohol. 2,348,451; May 9.

Christopher, George P., assignor to L. S. Christopher, Seattle, Wash. Utensil lid. 2,348,452; May 9.

Christopher, Lillian S. (See Christopher, George P., assignor.)

Clark, Joe S., Cambridge, assignor to National Research Corporation, Boston, Mass. Vacuum gauge. 2,348,607; May 9.

Clarke, Louis A. (See Goldsby, A. R., Pevere, Clarke, and Hatch.)

Cleverly, Edwin G., Cardington, Bedford, England. Terminal connecting grip for balloon flying and other cables. 2,348,608; May 9.

Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Producing white oils. 2,348,609; May 9.

Colby, Clyde W., Brandford, Conn. Heating system or the like. 2,348,610; May 9.

Cole, Cawthern C., Whittier, Calif. Fluid motor. 2,348,243; May 9.

Cole, Percy J., and G. W. Burtt, Philadelphia, Pa., assignors, by mesne assignments, to Allied Chemical & Dye Corporation. Separating xylenes. 2,348,329; May 9.

Collings, William R., and T. A. Kauppi, assignors to The Dow Chemical Company, Midland, Mich. Opaque sheet material. 2,348,672; May 9.

Collins Radio Company. (See Olson, Roy H., assignor.)

Colt's Patent Fire Arms Manufacturing Company. (See McMahon, Gilbert E., assignor.)

Combs, Frederick M., El Segundo, and S. A. Squiers, Hawthorne, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Apparatus for forming material. 2,348,193; May 9.

Combs, Lee, et al. (See Kellerman, John F., assignor.)

Conant, David J. (See Scofield, P. F., and Conant.)

Conference of California I. B. of B Unions. (See Ross, Talbert C.)

Conley, Weld E., Jr. (See Smith, H. L. Jr., and Conley.)

Consolidated Vultee Aircraft Corporation. (See Growald, Henry K., assignor.)

Continental Can Company. (See Hodgson, William W., assignor.)

Continental Say-When Corporation. (See Bates, Lawrence G., assignor.)

Cooper, Nathan E. (See Fontaine, Raymond A., assignor.)

Cooper, La Mar S., Erie, Pa., assignor to General Electric Company. Food storage receptacle. 2,348,524; May 9.

Couch, Forrest J., assignor to The American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Measuring device for fabric finishing machines. 2,348,330; May 9.

Couch, Glenn F., Rochester, N. Y., assignor to The Symington-Gould Corporation, Rochester, N. Y. Railway truck. 2,348,453; May 9.

Couch, Lloyd A., Eugene, Oreg. Railroad spike. 2,348,331; May 9.

Craig, Ernest, Falconbridge Township, Sudbury District, and Robert Craig, North Bay, Ontario, Canada. Vibratory machine. 2,348,332; May 9.

Craig, Robert. (See Craig, E. and R.)

Crane Co. (See Fennema, R., De Craene, Dopp, and Venton, assignors.)

Crane Co. (See Newman, T. P., and Ashby, assignors.)

Crane, Roland G., Woodbridge, and M. F. Perkins, Barber, N. J., assignors to American Smelting and Rening Company, New York, N. Y. Metal vapor condensation. 2,348,194; May 9.

Cravath, Austin M., San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa. Apparatus for generating coded alternating current. 2,348,525; May 9.

Crawford Door Company. (See Hufferd, G. H., and Graham, assignors.)

Crow, Luther H. (See Ekbom, H. N., and Crow.)

Cunningham, Lewis L., Glendale, Calif., and H. E. Malone, assignors to Perfex Corporation, Milwaukee, Wis. Control system. 2,348,206; May 9.

Cunningham, Lewis L., Los Angeles, assignor to General Controls Co., Glendale, Calif. Control device. 2,348,454; May 9.

Cutler-Hammer, Inc. (See Krieger, Alvin W., assignor.)

Dally, Roy, assignor to Webster Electric Company, Racine, Wis. Crystal pickup unit. 2,348,526; May 9.

Dannenbaum, Hans. (See Logemann, W., and Dannenbaum.)

Darnell, Georgia, San Diego, Calif. Pour cap for bottles. 2,348,527; May 9.

Daudelin, Arthur T., Yakima, Wash. Portable collapsible fume extractor. 2,348,455; May 9.

Davenport Machine Tool Co. (See Silva, F. G., and Seymour, assignors.)

Davidson, Cecil S., Falconbridge, Ontario, Canada. Clamp for holding drill rods or casings. 2,348,611; May 9.

Davis, Donald W. (See Abrams, A., Davis, Forcey, Rumberger, and Wagner.)

Davis, Emerson F., executor. (See Jensen, James A.)

Deacon, William H., Melrose Park, Ill. Power saw. 2,348,612; May 9.

Dean, Reginald S., and C. T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill. Alloys. 2,348,207; May 9.

Dearing, William C., Toledo, Ohio, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company. Delayed-acting hardener for formaldehyde-urea adhesives. 2,348,244; May 9.

De Craene, Edmond P. (See Fennema, R., De Craene, Dopp, and Venton.)

Degner, Charles F., Chicago, Ill. Rotary kiln for extraction of mercury from its ores. 2,348,673; May 9.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Quarternary ammonium compound and making same. 2,348,613; May 9.

D'Eustachio, Gabriel J., Perth Amboy, N. J., assignor to General Cable Corporation, New York, N. Y. Lead alloy. 2,348,333; May 9.

Dewhirst, Paul A., et al. (See Hamer, Leland S., assignor.)

DeWitz, Alfred E. E., Bedford, Ohio, assignor to The American Steel and Wire Company of New Jersey. Cooling rolls handling hotrolled metal strip. 2,348,528; May 9.

Dickerman, Hubert E., Springfield, Mass. Feeding mechanism. 2,348,456; May 9.

Dickie, James A. (See McKay, W. A., and Dickie.)

Dijksterhuis, Pieter H., Eindhoven, Netherlands, vested in the Alien Property Custodian. Device for converting variations of a mechanical quantity into varations of an electric voltage. 2,348,245; May 9.

Dinkfeld, August M., Berkeley, Calif., and T. C. Pond, Parsons, Kans., assignors to Johns-Manville Corporation, New York, N. Y. Manufacture of structural shapes and resultant product. 2,348,614; May 9.

Dixon, Ralph H., Belleville, N. J. Centrifugal pump. 2,348,246; May 9.

Dodge, Howard M., and R. J. Bush, Wabash, Ind., assignors to The General Tire & Rubber Company, Akron, Ohio. Shoe bottom filler. 2,348,674; May 9.

Dodge, Howard M., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Protective band for projectiles. 2,348,675; May 9.

Doehm, Karl A., West New York, N. J., assignor to Samuel Briskman, New York, N. Y. Pinking machine. 2,348,529; May 9.

Doering, Charles, Chicago, Ill. Self-adjusting hat fitting appliance and the like. 2,348,615; May 9.

Dolan, Francis D., Dundalk, Md., assignor to Bethelehem Steel Company. Burr masher. 2,348,283; May 9.

Dolan, Paul M. (See Weir, F. M., and Dolan.)

Dominick Calderazzo. (See Jayne, Bennett, assignor.)

Donnelly, James B. (See Oak, L. C., and Donnelly.)

Dopp, Carl A. (See Fennema, R., de Craene, Dopp, and Venton.)

Douglas Aircraft Company. (See Combs, F. M., and Squiers, assignors.)

Douglas, H. A., Mfg. Co. (See Bolley, Herschel C., assignor.)

Douglas, H. A., Mfg. Co. (See Richards, Wayne V., assignor.)

Dow Chemical Company, The. (See Collings, W. R., and Kauppi, assignors.)

Dow Chemical Company, The. (See Freeman, Richard D., assignor.)

Dow Chemical Company, The. (See George, Percy F., assignor.)

Drake, Earl D., Grand Rapids, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,348,195; May 9.

Drehs, William F., Reading, Pa. Photographic printing apparatus. 2,348,457; May 9.

Droitcour, Howard A., Cranston, and J. M. Droitcour, Warwick, R. I. Gauge. 2,348,530; May 9.

Droitcour, John M. (See Droitcour, H. A., and J. M.)

Duhaime, Sidney J., Los Angeles, Calif. Bag manufacturing machine. 2,348,196; May 9.

Dunleavey, Frank S., assignor, by mesne assignments, to The Magnavox Company, Fort Wayne, Ind. Electrolytic capacitor. 2,348,284; May 9.

Duplex Printing Press Company, The. (See Carpenter, Albert James, Jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Burrows, L. A., and Loe, assignors.)

Du Pont, E. I., de Nemours & Company. (See Chapman, F. F. Peterson and Woodbury, assignors.)

Du Pont, E. I., de Nemours & Company. (See Gordon, Wallace E., assignor.)

Dushane, Charles B., Jr., Chicago, Ill. Heater or cooler for oil filters. 2,348,247; May 9.

Eastman Kodak Company, et al. (See Strain, W. H., Plati, and Warren, assignors.)

Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,348,531; May 9.

Ekbom, Hilmer N., and L. H. Crow, Cedar Rapids, Iowa, assignors to Link-Belt Speeder Corporation, Chicago, Ill. Retractable mast. 2,348,285; May 9.

Ellinger, Flora H., Chicago, Ill. Spraying device. 2,348,334; May 9.

Elliott, George. (See Evers, H. G., and Elliott.)

Elliott, Olin S., Greenville, S. C. Automatic valve for pressure type atomizers. 2,348,248; May 9.

Endersby, Victor A., Lafayette, assignor to Shell Development Company, San Francisco, Calif. Preventing landslides. 2,348,458; May 9.

Engel, Bruno, Appelviken, assignor to Aktiebolaget Separator-Nobel, Stockholm, Sweden. Producing oils with low pour points. 2,348,459; May 9.

Engel, Edward G. (See Buschow, H. F., and Engel.)

Erie Enameling Company, The. (See Schabacker, Henry E., assignor.)

Erie Resistor Corp. (See Minnium, Byron B., assignor.)

Ernst, Walter, Mount Gilead, Ohio, and L. S. Hubbert, Cranford, N. J., assignors to The Tydraulic Development Corporation, Inc., Wilmington, Del. Briquetting press molding process. 2,348,197; May 9.

Escher, Joseph M., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa. Jointed rubber-covered mask. 2,348,335; May 9.

Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)

Esval, Orland E. (See Frische, C. A., and Esval.)

Evers, Harry G., and G. Elliott, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc. Impulse repeater. 2,348,198; May 9.

Everston, Joseph H., Milwaukee, Wis. Floating insole shoe and insole assembly therefor. 2,348,336; May 9.

Extruded Plastics, Inc. (See Slaughter, Charles E., assignor.)

Fairlie, Andrew M., Atlanta, Ga. Filling material for reaction spaces. 2,348,208; May 9.

Falanga, Andrew, et al. (See Falanga, Frank A., assignor.)

Falanga, Connetta, et al. (See Falanga, Frank A., assignor.)

Falanga, Frank A., assignor of thirty-three per cent to C. Falanga and thirty-four per cent to A. Falanga, Brooklyn, N. Y. Life belt. 2,348,286; May 9.

Farnsworth Television and Radio Corporation. (See Kahl, F., and Booher, assignors.)

Farnsworth Television and Radio Corporation. (See Weaver, Jerald D., assignor.)

Farrand, Burdette R., Toronto, Ontario, Canada. Packaging straws in cartons. 2,348,532; May 9.

Fay, Fred B. (See O'Malley, J. M., and Fay.)

Fears, James A., Montgomery, Ala. Trailer hitch. 2,348,533; May 9.

Federal Carton Corporation. (See Rous, Ben, assignor.)

Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)

Fellows, Grace E., et al., administrators. (See Hillman, Edward H.)

Fennema, Richard, E. P. De Craene, and C. A. Dopp, Chicago, and F. R. Venton, Elmhurst, assignors to Crane Co., Chicago, Ill. Combined hand and hydraulic valve operator. 2,348,460; May 9.

Ferro, Casimiro, West New Brighton, Staten Island, N. Y. Helicopter. 2,348,249; May 9.

Ferst, M. A., Ltd. (See Vaughan, William H., assignor.)

Fibreboard Products Inc. (See Goodyear, Charles H., assignor.)

Fiekers, Edmund J., assignor to Baldwin Rubber Company, Pontiac, Mich. Forming composite articles. 2,348,287; May 9.

Field, Wilson J. (See McLellan, W. G. and R. I., Field, and Poesch.)

Fink, Rudolph, Dayton, Ohio. Gun turret. 2,348,209; May 9.

Finley, Willard L., Edgewood Arsenal, Md., and J. H. Kirk, Hammond, Ind., assignors to Sinclair Refining Company, New York, N. Y. Lubrication. 2,348,461; May 9.

Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Electrically controlled hydraulic press. 2,348,676; May 9.

Folmer Graflex Corporation, The. (See Grover, Frederic S., assignor.)

Fontaine, Raymond A., Hamden, assignor of one-half to N. E. Cooper, New Haven, Conn. Fixture for installing and removing the abrading elements of rotary abraders. 2,348,288; May 9.

Food Machinery Corporation. (See Kerr, Charles E., assignor.)

Foote-Burt Company, The. (See Ruppel, Harry W., assignor.)

Forcey, George W. (See Abrams, A., Davis, Forcey, Rumberger, and Wagner.)

Forcey, George W. (See Abrams, A., Forcey, Graebner, Heald, and Rumberger.)

Framburg, Charles A., Jr., Forest Park, and E. W. Larson, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical resistance device. 2,348,462; May 9.

Francis, Earl H., Kansas City, Mo. Hypodermic projectile. 2,348,337; May 9.

Freeman, Henry G., Granite City, Ill. Ladle for molten metal and sealing closures therein. 2,348,199; May 9.

Freeman, Richard D., assignor to The Dow Chemical Company, Midland, Mich. Polymerization in metal molds. 2,348,677; May 9.

Freer, Phelps M., Detroit, Mich. Brake. 2,348,534; May 9.

Frick, Charles E., et al. (See Jensen, James A., assignor.)

Friedlaender, Ernest, assignor to H. A. Todd and R. A. Sloman, Detroit, Mich. Army stretcher. 2,348,210; May 9.

Frisble, Marshall H., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Worm drive toy locomotive. 2,348,616; May 9.

Frische, Carl A., Leonia, and O. E. Esval, Allendale, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Servo mechanism. 2,348,211; May 9.

Fröhlich, Alfred, and W. Schneider, Dessau, and W. Zeh, Wolfen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Production of color photographic images. 2,348,463; May 9.

Fronmuller, Douglas, and B. B. Thomas, Appleton, Wis., assignors to The Institute of Paper Chemistry. Sulphonating rosin. 2,348,200; May 9.

Frost, Raymond B., Rutherford, N. J., assignor to United States Rubber Company, New York, N. Y. Application of liquid treating material to strip material. 2,348,289; May 9.

Fullam, Ernest F. (See Green, H., and Fullam.)

Fuller Company. (See Morrow, Joseph H., assignor.)

Furedy, Frank, assignor to Sun-Kraft, Inc., Chicago, Ill. Ultraviolet ray generator. 2,348,617; May 9.

Gardner Displays Company. (See Gardner, W. M. and M. C., assignors.)

Gardner, Herbert F. (See Smith, R. D., and Gardner.)

Gardner, Mary C. (See Gardner, W. M. and M. C.)

Gardner, William M. and M. C., Pittsburgh, Pa., assignors to Gardner Displays Company. Display. 2,348,250; May 9.

Garrett Corporation, Airesearch Manufacturing Company division, The. (See Gill, George H., assignor.)

Gasoline Products Company, Inc. (See Houghland, Glen S., assignor.)

Gear Grinding Machine Company, The. (See Brady, Samuel G., assignor.)

Geertsema, Kenneth B., Springfield Gardens, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Method and machine for making closures. 2,348,464; May 9.

Geiringer, Paul L., New York, N. Y. Treating articles for removing grease and oils. 2,348,465; May 9.

General Aniline & Film Corporation. (See Fröhlich, A., Schneider, and Zeh, assignors.)

General Cable Corporation. (See D'Eustachio, Gabriel J., assignor.)

General Controls Co. (See Cunningham, Lewis L., assignor.)

General Electric Company. (See Bazley, Carl E., assignor.)

General Electric Company. (See Cooper, La Mar S., assignor.)

General Electric Company. (See Goodale, Charles J., assignor.)

General Electric Company. (See Livingston, Orrin W., assignor.)

General Electric Company. (See Mittag, Albert H., assignor.)

General Electric Company. (See Schmidt, A., Jr., and Herskind, assignors.)

General Electric X-Ray Corporation. (See Atlee, Z. J., and Wilson, assignors.)

General Motors Corporation. (See Arthur, James L., assignor.)

General Motors Corporation. (See Brackett, Tracy F., assignor.)
General Motors Corporation. (See Hartzell, Herman L., assignor.)
General Motors Corporation. (See Huddle, Carl F., assignor.)
General Motors Corporation. (See Jorgensen, Clarence H., assignor.)
General Motors Corporation. (See Rady, William J., assignor.)
General Motors Corporation. (See Richardson, Ralph A., assignor.)
General Motors Corporation. (See Rippingille, Edward V., assignor.)
General Tire & Rubber Company, The. (See Dodge, Howard M., assignor.)
General Tire & Rubber Company, The. (See Dodge, H. M., and Bush, assignors.)
General Tire & Rubber Company, The. (See Kraft, H. T., and Kozopas, assignors.)
George, Percy F., assignor to The Dow Chemical Company, Midland, Mich. Preventing corrosion of light-metal surfaces. 2,348,678; May 9.
Gibson, Sydney A. (See Olpin, H. C., Gibson, and Jones.)
Gilbert, A. C., Company, The. (See Frisbie, Marshall H., assignor.)
Gilbert, Alfred G. (See Reece, R. H., and Gilbert.)
Gilbert, Everett E., Elizabeth, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Stabilized motor fuel. 2,348,290; May 9.
Gill, George H., Manhattan Beach, assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif. Electrical flap control. 2,348,212; May 9.
Gillespie, Henderson C., Moorestown, N. J., assignor to Radio Corporation of America. Electrical heating apparatus. 2,348,338; May 9.
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Gilmer, L. H., Co., (See Case, Richard Y., assignor.)
Glandon, Kenneth. (See Hartshorn, Bruce, assignor.)
Globe Valve Corporation. (See Beeke, H. F., and Young, assignors.)
Golden, James P., and G. A. Meyer, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y. Coupler centering and pipe control device. 2,348,466; May 9.
Golden, Samuel, Bronx, N. Y. Comb. 2,348,339; May 9.
Goldman, Paul R., Andover, assignor to Plymold Corporation, Lawrence, Mass. Manufacture of plywood tubing and the like. 2,348,291; May 9.
Goldsby, Arthur R., and E. F. Pevere, Beacon, L. A. Clarke, Fishkill, and G. B. Hatch, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Alkylation of hydrocarbons. 2,348,467; May 9.
Goodale, Charles J., Falmouth, Mass., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Accounting apparatus. 2,348,535; May 9.
Goodrich, B. F., Company, The. (See McKelvey, Frederick R., assignor.)
Goodwillie, John E., and E. E. Berry, assignors to Beloit Iron Works, Beloit, Wis. Suction roll. 2,348,340; May 9.
Goodwin, Ernest G., assignor to Unitcast Corporation, Toledo, Ohio. Railway car. 2,348,376; May 9.
Goodyear, Charles H. See Lindley, C., Jr., Goodyear, and Thomas.)
Goodyear, Charles H., Stockton, assignor to Fibreboard Products Inc., San Francisco, Calif. Carton. 2,348,377; May 9.
Goodyear, Charles H., Stockton, assignor to Fibreboard Products Inc., San Francisco, Calif. Carton. 2,348,378; May 9.
Gordon, Sydney I., Manhasset, N. Y. Self-locking clamp. 2,348,618; May 9.
Gordon, Wallace E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrical insulation. 2,348,536; May 9.
Gorton, George, Machine Co. (See Kelma, Harlow, assignor.)
Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Motor. 2,348,341; May 9.
Goulooze, Martin J., Grand Rapids, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,348,379; May 9.
Grace, Hyman B., London, Ontario, Canada. Dispenser. 2,348,468; May 9.
Graebner, Winfred H. (See Abrams, A., Forcey, Graebner, Heald, and Rumberger.)
Graham, Frank B., Lansing, Mich. Punch. 2,348,380; May 9.
Graham, Matthew P. (See Hufferd, G. H., and Graham.)
Graybill, Hershey R., Manheim, assignor to Animal Trap Company of America, Lititz, Pa. Animal trap. 2,348,251; May 9.
Great American Furniture Corporation. (See McInnis, Joseph S., assignor.)
Greaves, Richard, et al., trustees. (See Ross, Talbert C., assignor.)
Green, Henry, New York, N. Y., and E. F. Fullam, Princeton, N. J., assignors to Interchemical Corporation, New York, N. Y., Wood filler. 2,348,619; May 9.
Greenberg, Joseph, assignor of fifty per cent to S. Rotman, Philadelphia, Pa. Manufacture of lamp shades. 2,348,469; May 9.
Green's Fuel, Incorporated. (See Jones, Nelson M., assignor.)
Greenwood, Henry B., assignor to F. X. Hooper Company, Inc., Baltimore, Md. Crate marking machine. 2,348,537; May 9.
Griswold, Roger W., II, Old Lyme, Conn. Airfoil. 2,348,252; May 9.
Griswold, Roger W., II, Old Lyme, Conn. Airfoil. 2,348,253; May 9.
Gross, Henry R., Chicago, Ill. Automatic latching and locking device. 2,348,292; May 9.
Grover, Frederic S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Every-ready carrier-contained photographic-equipment package. 2,348,620; May 9.
Groves, Warren W., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pump. 2,348,679; May 9.
Growald, Henry K., San Diego, Calif., assignor, by mesne assignments, to Consolidated Vultee Aircraft Corporation. Detachable gun mount. 2,348,470; May 9.
Gubisch, Erwin A., assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,348,214; May 9.
Guerci, Giovanni, Turin, Italy; vested in the Alien Property Custodian. Corrugated fibrocement slab. 2,348,433; May 9.
Haas, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Thread cutter for sewing machines. 2,348,381; May 9.
Hagen, Karl R., assignor to The Timken Roller Bearing Company, Canton, Ohio. Fuel pump. 2,348,538; May 9.
Halby, Edwin G., assignor to The Marion Steam Shovel Company, Marion, Ohio. Safety device for hoisting mechanism. 2,348,382; May 9.
Haller, Charles, Denver, Colo. Denture clamp. 2,348,471; May 9.
Halling, August W., et al., trustees. (See Ross, Talbert C., assignor.)
Hamer, Leland S., Long Beach, assignor of one-third to P. A. Dewhirst, Los Angeles, and one-sixth to V. Zillgitt, Long Beach, Calif. Tapered bushing and removing the same. 2,348,293; May 9.
Hanlon, Robert H., assignor to The Ohio Injector Company, Wadsworth, Ohio. Operating engines. 2,348,621; May 9.
Hanlon & Wilson Company. (See Wilson, John R.)
Hannifin Manufacturing Co. (See Peterson, V. W. and Maha, assignor.)
Hanson, Frederick E., Westfield, R. K. Smith, Newark, and J. H. Sulzer, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Switching system. 2,348,680; May 9.
Harbough, Clifford M., et al. (See Selby, Dwight E., assignor.)
Harper, Arthur C., Jr., Brecksville, Ohio, assignor to The American Steel and Wire Company of New Jersey. Device for stretching metallic strip material. 2,348,539; May 9.
Harris, Charles H., San Luis Potosi, Mexico, assignor to American Smelting and Refining Company, New York, N. Y. Wind box for sintering machines. 2,348,294; May 9.
Hart, Nimrod F., Portsmouth, Va. Combination furniture. 2,348,472; May 9.
Hartshorn, Bruce, Baldwin Park, assignor of one-half to K. Glandon, El Monte, Calif. Support for fabric marking. 2,348,295; May 9.
Hartzell, Herman L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Terminal seal for ignition coils. 2,348,254; May 9.
Hatch, George B. (See Goldsby, A. R., Pevere, Clarke, and Hatch.)
Haynes, Robert L., Indianapolis, Ind., assignor to Radio Corporation of America. Alternating current exciter lamp for sound reproducers. 2,348,296; May 9.
Heald, Alfred M. (See Abrams, A., Forcey, Graebner, Heald, and Rumberger.)
Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Automatic bowling alley. 2,348,540; May 9.
Hedgecock, Stanley, assignor to Laystall Engineering Company Limited, London, England. Controlling movements of valves or other elements. 2,348,383; May 9.
Heilman, Ernest D., Westfield, N. J., assignor to Standard Oil Development Company. Removable liner for viscous material containers. 2,348,622; May 9.
Heller, George M. (See Jensen, James J.)
Heintz, Ralph M., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Relay. 2,348,541; May 9.
Hemphill Company. (See Smith, William L., Jr., assignor.)
Henry, Earle G., Wilmette, Ill., assignor to Buckley Music System, Inc. Coin-controlled selector. 2,348,434; May 9.
Hercules Powder Company. (See Little, Julius G., assignor.)
Hercules Powder Company. (See Ott, Emil, assignor.)

Hercules Powder Company. (See Rummelsburg, Alfred L., assignor.)
Herskind, Carl C. (See Schmidt, A., Jr., and Herskind.)
Hewlett, Amiot P., Cranford, and H. C. Paulsen, Elizabeth, N. J., assignors to Standard Oil Development Company. Refining mineral oils. 2,348,623; May 9.
Hey, Henry W., Richmond, Va., and J. G. Ingres, Detroit, Mich., assignors to Automatic Shifters, Inc., Richmond, Va. Combined clutch control and gear shifting mechanism. 2,348,435; May 9.
Higby, Ralph H., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Manufacture of hesperidin. 2,348,215; May 9.
Hill, E. Govan, et al. (See Hill, Edward G., assignor.)
Hill, Edward G., assignor to G. T. Smith and E. G. Hill, Richmond, Va. Airplane pickup mechanism. 2,348,342; May 9.
Hillman, Charles A., Maplewood, N. J., assignor, by mesne assignments, to Standard Catalytic Company. Catalytic reforming. 2,348,624; May 9.
Hillman, Edward H., deceased, Steubenville, Ohio, by G. E. Fellows, Youngstown, and W. F. MacQueen, Niles, Ohio, administrators, assignors to National Steel Corporation, Pittsburgh, Pa. Coating apparatus. 2,348,384; May 9.
Hodgson, William W., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Key opening sheet metal container. 2,348,542; May 9.
Hoffman, Harry E., Mansfield, Ohio. Recovery of sprayed paint material. 2,348,625; May 9.
Hogan, Wm. S., et al., trustees. (See Ross, Talbert C., assignor.)
Holbrook, John O., Columbus, Ohio. Manufacturing fertilizers and resulting fertilizer. 2,348,343; May 9.
Holby, Frank A., Riverside, Conn., assignor to The William F. Kenney Company, New York, N. Y. Tank discharge control means. 2,348,255; May 9.
Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Channel selecting circuit. 2,348,626; May 9.
Holland, Samuel O., C. V. Roberts, and S. H. Plexico, Salisbury, N. C. Badge. 2,348,627; May 9.
Hollis, Henry L., Chicago, Ill. Removable tire cover. 2,348,256; May 9.
Hollstein, Paul, Carlstadt, N. J., deceased, Rutherford Trust Company, administrator, assignor to J. M. Lehmann Co., Inc., New York, N. Y. Treating chocolate and similar materials. 2,348,473; May 9.
Holmes, Colin W. H., Durham City, assignor to The Birtley Company Limited, Birtley, England. Separating intermixed divided materials. 2,348,344; May 9.
Holshouser, Don F., East Orange, N. J., assignor to Radio Corporation of America. Electron discharge device mount spacer. 2,348,216; May 9.
Hood, Clifford F. (See Bletso, B. N., Hood, and Morgan.)
Hooper, F. X., Company. (See Greenwood, Henry B., assignor.)
Horix Manufacturing Company. (See Weaver, Jesse E., assignor.)
Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Press roll drive. 2,348,345; May 9.
Horton, Erwin C., Hamburg, and A. Rappl, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner system. 2,348,346; May 9.
Houchins, Henry R., assignor to The Carborundum Company, Niagara Falls, N. Y. Porous abrasive article. 2,348,474; May 9.
Houghland, Glen S., New York, N. Y., assignor to Gasoline Products Company, Inc., Jersey City, N. J. Stabilizing hydrocarbons. 2,348,681; May 9.
Houghton, Wilbur S., Glendale, assignor to Victor Equipment Company, San Francisco, Calif. Welding torch cooler. 2,348,385; May 9.
Howard, Richard E., St. Paul, Minn. Ice skate. 2,348,475; May 9.
Hubbert, Leslie S. (See Ernst, W., and Hubbert.)
Huddle, Carl F., Ferndale, assignor to General Motors Corporation, Detroit, Mich. Double windowpane. 2,348,297; May 9.
Hufferd, George H., Grosse Pointe, and M. P. Graham, assignors to Crawford Door Company, Detroit, Mich. Upward acting door construction. 2,348,386; May 9.
Hulbert, Ivan J., Willesden Junction, assignor to Rotax Limited, London, England. Auxiliary spark ignition apparatus for internal combustion engines. 2,348,298; May 9.
Hume, John D., Minneapolis, Minn. Aerial bomb protective apparatus. 2,348,387; May 9.
Hummer, Charles I., Detroit, Mich., assignor to American Car and Foundry Company, New York, N. Y. Lubricated valve. 2,348,476; May 9.
Hydraulic Development Corp. Inc., The. (See Tucker, Warren R., assignor.)
Hydraulic Development Corporation, Inc., The. (See Ernst, W., and Hubbert, assignors.)
Hydraulic Development Corporation, Inc., The. (See Flowers, Paul E., assignor.)
Hydraulic Development Corporation, Inc., The. (See Muller, Johan A., assignor.)
Hydronapthane Corporation. (See Schirm, Erik, assignor.)
I. T. E. Circuit Breaker Company. (See Scott, William M., Jr., assignor.)
Induction Heating Corp. (See Rudd, W. C., and Levin, assignors.)
Ingersoll-Rand Company. (See Miller, Frank, assignor.)
Ingres, Jeannot G. (See Hey, H. W., and Ingres.)
Interchemical Corporation. (See Bernardi, Dominic J., assignor.)
Interchemical Corporation. (See Green, H., and Fullam, assignors.)
Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of butane. 2,348,700; May 9.
Ipatieff, Vladimir N. (See Schmerling, L., and Ipatieff.)
Jack & Heintz, Inc. (See Carlson, Bert G., assignor.)
Jack & Heintz, Inc. (See Heintz, Ralph M., assignor.)
Jack & Heintz, Inc. (See Preziosi, Peter M., assignor.)
Jack & Heintz, Inc. (See Scofield, P. F., and Conant, assignors.)
Jaeger, Gebhard, and C. I. Bohmer, assignors to The Jaeger Machine Company, Columbus, Ohio. Door structure for mixers. 2,348,682; May 9.
Jaeger Machine Company, The. (See Jaeger, G., and Bohmer, assignors.)
Jayne, Bennett, Richmond Hill, assignor of one-half to D. Calderazzo, Dolgeville, N. Y. Shoe. 2,348,628; May 9.
Jenkins, Alexander F., Baltimore, Md. Fluid pressure regulator. 2,348,388; May 9.
Jenkins, Fred F., Lynwood, Calif., assignor to American Pipe and Construction Co. Pipe and making same. 2,348,477; May 9.
Jensen, James A., Philadelphia, Pa., assignor to C. E. Frick, J. R. McCoy, J. H. Jenson, J. A. Jenson, E. F. Davis, executor and ancillary executor under the will of G. M. Heller, deceased, G. B. and C. E. Frick, Jr., G. D. Whyte, and F. J. Stackpole, co-partners trading under the name of Philadelphia Valve Company, Philadelphia, Pa. Hose reel. 2,348,692; May 9.
Jenson, John H., et al. (See Jensen, James A., assignor.)
Johns-Manville Corporation. (See Dinkfeld, A. M., and Pond, assignors.)
Johnson, Harley R., Tulsa, Okla. Treatment of hydrocarbons. 2,348,543; May 9.
Johnson, Kenneth S., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Public address system. 2,348,629; May 9.
Johnson, Walter W., Berkeley, Calif. Dredge. 2,348,389; May 9.
Johnston Glass Co., The. (See Boyles, E. R., and Pattison, assignors.)
Jones, Byron Q., United States Army. Hammock. 2,348,217; May 9.
Jones, John E. (See Olpin, H. C., Gibson, and Jones.)
Jones, Nelson M., assignor to Green's Fuel, Incorporated, Sarasota, Fla. Delivery system for volatile liquids. 2,348,478; May 9.
Jonsson, Helge S., Villa Park, Ill. Apparatus for making stamps. 2,348,630; May 9.
Jorgensen, Clarence H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Automatic choke mechanism. 2,348,544; May 9.
Josepho, Aron M., New York, N. Y. Pocket calculating device. 2,348,299; May 9.
Kahl, Fritz, Fort Wayne, and O. C. Booher, Huntington, Ind., assignors to Farnsworth Television and Radio Corporation. Automatic record-changing apparatus. 2,348,257; May 9.
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Roaster for stoves. 2,348,545; May 9.
Karle, John D., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Surgical stitching instrument. 2,348,218; May 9.
Kass, Samuel M., Philadelphia, Pa. Washer retainer. 2,348,390; May 9.
Kauppi, Toivo A. (See Collings, W. R., and Kauppi.)
Kearby, Kenneth K. (See Reeves, E. D., and Kearby.)
Keehnel, Roy B., Independence, Mo. Drying device. 2,348,631; May 9.
Keiser, Bernhard. (See De Groote, M., and Keiser.)
Kellerman, John F., assignor of one-fourth to L. Combs and one-fourth to B. Roberts, Fort Lupton, Colo. Ore separating apparatus. 2,348,479; May 9.
Kellogg, M. W., Company, The. (See Buschow, H. F., and Engel, assignors.)
Kennecott Corporation. (See Larson, Leonard, assignor.)
Kennedy, Truman H. (See Carter, J. W., and Kennedy.)
Kenney, William F., Company, The. (See Holby, Frank A., assignor.)
Kennison, Frank, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Support for fastening material. 2,348,219; May 9.
Kercher, Arthur J., Berkeley, Calif. Fuel gas dispensing apparatus and method. 2,348,546; May 9.
Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Filling valve. 2,348,480; May 9.
Kester, Arthur S., assignor to The Rauland Corporation, Chicago, Ill. Variable condenser. 2,348,391; May 9.
Kester, Arthur S., assignor to The Rauland Corporation, Chicago, Ill. Variable condenser. 2,348,392; May 9.
Kidd, Dater & Price Grocery Co. (See Moyer, Ralph E., assignor.)
Kimble Glass Company. (See Brewer, John H., assignor.)
Kinetic Chemicals, Inc. (See Benning, A. F., and Park, assignors.)

Kirk, James H. (See Finley, W. L., and Kirk.)
Kissel, B. M. (See Kissel, William L., assignor.)
Kissel Industries. (See Kissel, William L., assignor.)
Kissel, William L., assignor to B. M. Kissel, doing business as Kissel Industries, Hartford, Wis. Starting device. 2,348,547; May 9.
Klaus, Calvin C., Highland, Ill. Shoe. 2,348,300; May 9.
Klein, Clarence J., Marland Heights, W. Va., assignor to National Steel Corporation. Billy roll. 2,348,258; May 9.
Klema, Harlow, assignor to George Gorton Machine Co., Racine, Wis. Three-dimensional pantograph machine tool. 2,348,632; May 9.
Kline, Bernard L., Manhasset, assignor to The Western Union Telegraph Company, New York, N. Y. Adhesive paper. 2,348,220; May 9.
Knox, David M., assignor to American Car and Foundry Company, New York, N. Y. Lubricated valve. 2,348,481; May 9.
Koehler, Gustave J., Dayton, Ohio. Fluid valve. 2,348,548; May 9.
Komaska, Charles J., St. Louis, Mo. Chair. 2,348,633; May 9.
Koob, Bernard H., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Paste mold machine for forming hollow glass blanks into finally blown articles. 2,348,347; May 9.
Kozopas, Joseph I. (See Kraft, H. T., and Kozopas.)
Kraft, George K. P., Stockholm, Sweden. Electroplated receptacle. 2,348,549; May 9.
Kraft, Herman T., and J. I. Kozopas, assignors to The General Tire & Rubber Company, Akron, Ohio. Wheel. 2,348,550; May 9.
Kramer, Albert B., Newark, N. J. Hydraulic clutch. 2,348,482; May 9.
Kratz, John A., Yonkers, N. Y., assignor to The Linde Air Products Company. Electric control circuits. 2,348,259; May 9.
Krause, Walter H., assignor to Chicago Forging & Manufacturing Co., Chicago, Ill. Hood closure supporting means. 2,348,348; May 9.
Krieger, Alvin W., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Guard for electric switch levers. 2,348,393; May 9.
Kuehn, Frank O., Sr. (See Beskin, Gerald S., assignor.)
Kyle, William D., and C. W. Brown, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Circuit interrupter. 2,348,394; May 9.
Lacy, Howard J., II, and E. C. Slaughter, assignors to U. S. Corrugated Fibre Box Company, Indianapolis, Ind. Packaging heavy, legged articles. 2,348,483; May 9.
La Place, Desmond R., assignor to Bocjl Corporation, Pittsburgh, Pa. Packaging. 2,348,551; May 9.
Larson, Elbert W. (See Framburg, C. A., Jr., and Larson.)
Larson, Leonard, McGill, Nev., assignor to Kennecott Corporation, New York, N. Y. Lining and insulating the interior surfaces of continuously operated furnaces. 2,348,395; May 9.
Lauxite Corporation, The. (See Van Epps, Clarence F., assignor.)
Lawrence, John G., Tampa, Fla. Ash tray. 2,348,396; May 9.
Lawson, F. H., Company, The. (See Lumley, Maurice, assignor.)
Lawton, Howard C., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Sealing off porous formations. 2,348,484; May 9.
Laystall Engineering Company Limited. (See Hedgecock, Stanley, assignor.)
Lehmann, J. M., Co. (See Hollstein, Paul, assignor.)
Lett, Julian T., et al. (See Wiley, Lee M., assignor.)
Levin, Nathan. (See Rudd, W. C., and Levin.)
Libbey-Owens-Ford Glass Company. (See Dearing, William C., assignor.)
Lidgerwood Manufacturing Company. (See Binder, Charles F., assignor.)
Linde Air Products Company, The. (See Kratz, John A., assignor.)
Lindley, Curtis, Jr., Empire, C. H. Goodyear, Stockton, and W. H. Thomas, San Francisco, Calif; said Goodyear and Thomas assignors to said Lindley. Packing structure and packing. 2,348,397; May 9.
Line Material Company. (See Kyle, W. D., and Brown, assignors.)
Link-Belt Speeder Corporation. (See Ekbom, H. N., and Crow, assignors.)
Little, Julius G., assignor to Hercules Powder Company, Wilmington, Del. Textile fiber and producing. 2,348,552; May 9.
Littleford Brothers, Incorporated. (See Bayer, August H., assignor.)
Lively, George, assignor of one-half to H. D. Tanner, Farmington, N. Mex. Vehicle spring suspension. 2,348,485; May 9.
Livingston, Orrin W., Scotia, N. Y., assignor to General Electric Company. Electric control circuit. 2,348,553; May 9.
Loe, Justin B. (See Burrows, L. A., and Loe.)
Longemann, Willy, Berlin-Friedenau, and H. Dannenbaum, Falkenhain-Finkenkrug, near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J. Hydroxyl derivatives of the cyclopentano polyhydrophenanthrene series and manufacture of the same. 2,348,221; May 9.
Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,348,301; May 9.
Lorey, Frank L. (See Lorey, R. P. and F. L.)
Lorey, Raymond P. and F. L., Jasper, Ind. Rack. 2,348,398; May 9.
Lumley, Maurice, assignor to The F. H. Lawson Company, Cincinnati, Ohio. Trash pail cover. 2,348,349; May 9.
Mackenzie, John F., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Electrical signalling system. 2,348,399; May 9.
MacQueen, Walter F., et al., administrators. (See Hillman, Edward H.)
Magnavox Company, The. (See Dunleavey, Frank S., assignor.)
Maha, Otto J. (See Peterson, V. W., and Maha.)
Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,348,352; May 9.
Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,348,353; May 9.
Mallory, Marion, Detroit, Mich. Governor. 2,348,302; May 9.
Malone, Homer E. (See Cunningham, L. L., and Malone.)
Manspeaker, Robert O., Chicago, Ill. Dispensing mechanism. 2,348,400; May 9.
Manzanera, Lorenzo, assignor to O. S. Petty, San Antonio, Tex. Apparatus for recording wave form signals. 2,348,401; May 9.
Marathon Paper Mills Company. (See Abrams, A., Davis, Forcey, Rumberber, and Wagner, assignors.)
Marathon Paper Mills Company. (See Abrams, A., Forcey, Graebner, Heald, and Rumberger, assignors.)
Marhoefer, Laurence J. (See Vidal, E. L., and Marhoefer.)
Marion Steam Shovel Company, The. (See Halby, Edwin G., assignor.)
Mathes, Richard E., Westfield, N. J., assignor to Radio Corporation of America. Ionic relay circuit arrangement. 2,348,555; May 9.
Matson, George C., Brookfield, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Safety device. 2,348,489; May 9.
Matthews, Jas. H., & Company. (See Escher, Joseph M., assignor.)
Matthias, Lynn H., assignor to Allen-Bradley Company, Milwaukee, Wis. Magnet structure. 2,348,556; May 9.
Mattox, William J., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon distillates. 2,348,557; May 9.
McCoy, J. Rodman, et al. (See Jensen, James A., assignor.)
McCrosson, John T., New York, N. Y. Sterilizing apparatus. 2,348,486; May 9.
McEachern, Irvin D., Crosbyton, Tex. Ensilage harvester. 2,348,634; May 9.
McInnis, Joseph S., assignor to Great American Furniture Corporation, Chicago, Ill. Article of furniture. 2,348,554; May 9.
McKay, William A., and J. A. Dickie, Vancouver, British Columbia, Canada. Line tightener. 2,348,487; May 9.
McKamy, Paul E., Chicago, Ill., assignor to The Whitcomb Locomotive Company. Locomotive truck. 2,348,635; May 9.
McKelvey, Frederick R., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 2,348,350; May 9.
McKenna, James F., Wyandotte, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa. Separation of di-isopropyl amine from isopropyl alcohol. 2,348,683; May 9.
McLellan, E. W., Co. (See McLellan, W. G. and R. I., Field, and Poesch, assignors.)
McLellan, Roderick I. (See McLellan, W. G. and R. I., Field, and Poesch.)
McLellan, Wakeman G. and R. I., San Francisco, W. J. Field, Orinda, Calif., and G. H. Poesch, Columbus, Ohio, assignors to E. W. McLellan Co., San Francisco, Calif. Container. 2,348,488; May 9.
McMahon, Gilbert E., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Gem. 2,348,636; May 9.
McMahon, John A., and E. Sydrow, St. Louis, Mo., assignors to John E. Mitchell Company, Dallas, Tex. Clamping device for heel-building machines. 2,348,351; May 9.
Medoff, Meyer, Lambertville, N. J. Suitcase. 2,348,436; May 9.
Meilach, Ralph C. (See Nudelman, C. S., and Meilach.)
Meinert, Richard N., Westfield, N. J., assignor to Standard Oil Development Company. Alkylation with olefin mixtures. 2,348,637; May 9.
Mellor Bromley & Co. Limited. (See Bromley, T. C., and Shortland, assignors.)

Memovox, Incorporated. (See Brubaker, George P., assignor.)
Mercer, Raymond C. (See Barr, J. M., and Mercer.)
Mesch, Orwar S. A., St. Albans, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wire connecting device. 2,348,558; May 9.
Meyer, Glennon A. (See Golden, J. P., and Meyer.)
Mikeska, Louis A., Westfield, J. C. Zimmer, and J. I. Wasson, Union, N. J., assignors to Standard Oil Development Company. Fuel composition. 2,348,638; May 9.
Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Grinding wheel dresser. 2,348,354; May 9.
Miller, Frank, West Orange, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Dispensing device. 2,348,402; May 9.
Miller, Max B., & Co. (See Tuttle, Malcolm H., assignor.)
Miller, Paul L., Clearwater, S. C., assignor to United Merchants & Manufacturers, Inc., Wilmington, Del. Apparatus for moving and storing sheet material. 2,348,355; May 9.
Minneapolis-Honeywell Regulator Company. (See Sparrow, Hubert T., assignor.)
Minnium, Byron B., assignor to Erie Resistor Corp., Erie, Pa. Electric capacitor. 2,348,693; May 9.
Mitchell, John E., Company. (See McMahon, J. A., and Sydow, assignors.)
Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Electric valve protective circuit. 2,348,653; May 9.
Moore, Vincent T., Glen Rock, N. J., assignor to Wright Aeronautical Corporation. Cleaning means for hydraulic cells. 2,348,260; May 9.
Moreland, William J., Jr. (See Warmey, B. A., and Moreland.)
Morgan Construction Company. (See O'Malley, J. M., and Fay, assignors.)
Morgan, William S. (See Bletso, B. N., Hood, and Morgan.)
Morin, Edward G. (See Smith, B. I., and Morin.)
Morrow, Joseph H., Hokendauqua, assignor to Fuller Company, Catasauqua, Pa. Cooling apparatus. 2,348,559; May 9.
Morrow, Joseph H., Hokendauqua, assignor to Fuller Company, Catasauqua, Pa. Cooling apparatus. 2,348,560; May 9.
Moyer, Ralph E., New Buffalo, assignor to Kidd, Dater & Price Grocery Co., Benton Harbor, Mich. Container. 2,348,437; May 9.
Moyer, Ralph E., New Buffalo, assignor to Kidd, Dater & Price Grocery Co., Benton Harbor, Mich. Container. 2,348,438; May 9.
Muller, Johan A., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Making press structures. 2,348,403; May 9.
Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Magazine for safety razor blades. 2,348,303; May 9.
Mutch, James B., assignor to Wood Items, Inc., Rochester, N. Y. Portable gate. 2,348,561; May 9.
Nash-Kelvinator Corporation. (See Drake, Earl D., assignor.)
Nash-Kelvinator Corporation. (See Goulooze, Martin J., assignor.)
National Agrol Company. (See Christensen, Leo M., assignor.)
National Research Corporation. (See Clark, Joe S., assignor.)
National Steel Corporation. (See Hillman, Edward H., assignor.)
National Steel Corporation. (See Klein, Clarence J., assignor.)
National Tube Company. (See Carter, J. W., and Kennedy, assignors.)
National Urn Bag Co. (See Barnett, Louis, assignor.)
Newman, Thomas P., Geneva, and H. W. Ashby, assignors to Crane Co., Chicago, IH. Flow control means. 2,348,490; May 9.
Niagara Sprayer and Chemical Co. (See Chater, John A., assignor.)
Nicks, Samuel R., Houston, Tex. Line justifying typing machine. 2,348,261; May 9.
Nimmo, John, Norwich, Conn. Waste guard. 2,348,562; May 9.
Noble, Gerard D. (See Turnock, J. E., and Noble.)
Noned Corporation, et al. (See Strain, W. H., Plati, and Warren, assignors.)
North American Rayon Corporation. (See Bley, Rudolph S., assignor.)
Nudelman, Charles S., and R. C. Meilach, Chicago, Ill. Combination server and squeezer for citrus fruits. 2,348,304; May 9.
Oak, Lawrence C., Huntington Woods, and J. B. Donnelly, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Cutting tool. 2,348,262; May 9.
Obergfell, Herbert F., River Forest, Ill., assignor to Automatic Electric Laboratories, Inc. Induction coil mounting. 2,348,404; May 9.
O'Brien, Jolly W., Houston, Tex. Identifying substance. 2,348,639; May 9.
Odelius, Oscar G., Chicago, Ill. Seal construction. 2,348,405; May 9.
Oelkers, Alfred H., New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill. Bolster. 2,348,694; May 9.
Ogren, Russell B., South Bend, Ind. Portable recess cutter. 2,348,406; May 9.
Ohio Injector Company, The. (See Hanlon, Robert H., assignor.)
Old King Cole Incorporated. (See Smith, Jacob Perry, assignor.)
Olpin, Henry C., S. A. Gibson, and J. E. Jones, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of cellulose derivatives having affinity for acid dyestuffs. 2,348,305; May 9.
Olson, Harry F., Haddon Heights, N. J., assignor to Radio Corporation of America. Microphone. 2,348,356; May 9.
Olson, Roy H., Marion, Iowa, assignor to Collins Radio Company. Tap switch. 2,348,222; May 9.
O'Malley, Joseph M., and F. B. Fay, assignors to Morgan Construction Company, Worcester, Mass. Shear. 2,348,491; May 9.
O'Neill, Ralph H. Dartmouth, Nova Scotia, Canada. Convertible sleeping unit. 2,348,407; May 9.
Oneal, Frank E., Joliet, Ill. Typewriter support. 2,348,640; May 9.
O'Shei, William E., London, England. Snap-action valve mechanism. 2,348,492; May 9.
Otis, Herbert C., Dallas, Tex. Well tool. 2,348,563; May 9.
Otis, Herbert C., Dallas, Tex. Well device. 2,348,564; May 9.
Ott, Emil, Elsmere, assignor to Hercules Powder Company, Wilmington, Del. Terpene resin. 2,348,565; May 9.
Overbeck, John E. (See Beitler, Samuel R., assignor.)
Pacific Can Company. (See Peterson, William B., Jr., assignor.)
Page, James M., Jr., assignor to Standard Oil Company, Chicago, Ill. Catalyst recovery. 2,348,408; May 9.
Papazian, Martin S., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Apparatus for marking billets and the like. 2,348,566; May 9.
Paper Chemistry, Institute of, The. (See Fronmuller, D., and Thomas, assignors.)
Papesh, Michael W., Joliet, Ill., assignor to The Ruberoid Co., New York, N. Y. Ornamental granular-faced composition shingle. 2,348,223; May 9.
Park, Joseph D. (See Benning, A. F., and Park.)
Parker Appliance Company, The. (See Parker, Arthur L., assignor.)
Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Fuel pumping unit. 2,348,567; May 9.
Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Electric cable. 2,348,641; May 9.
Parker Rust Proof Company. (See Thompson, John S., assignor.)
Parker, Sydney M., assignor to Automotive Products Company Limited, Leamington Spa, England. Landing gear for aircraft. 2,348,493; May 9.
Parks, Asbury S., Houston, Tex. Gas and oil separator. 2,348,357; May 9.
Parr, Josephus O., Jr., assignor to Olive S. Petty, San Antonio, Tex. Seismic surveying. 2,348,409; May 9.
Parsons, John B., Toledo, Ohio. Vehicle door closing mechanism. 2,348,306; May 9.
Pastor, Guillermo, La Paz, Bolivia. Apparatus for taking stereoscopic or three-dimensional moving pictures. 2,348,410; May 9.
Pattison, Clarence M. (See Boyles, E. R., and Pattison.)
Paulsen, Henry C. (See Hewlett, A. P., and Paulsen.)
Pellar, Ralph R., Chicago, Ill. Spray gun. 2,348,568; May 9.
Pelosi, Nicholas, Newark, N. J., assignor to American Can Company, New York, N. Y. Coating machine. 2,348,224; May 9.
Penick, Arthur J. and K. T., Houston, Tex. Lubricating system for valve assemblies. 2,348,642; May 9.
Penick, Kirby T. (See Penick, A. J. and K. T.)
Perfex Corporation. (See Cunningham, L. L., and Malone, assignors.)
Perkins, Kenneth, Scotch Plains, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Brush holder for dynamoelectric machines. 2,348,684; May 9.
Perkins, Melville F. (See Crane, R. G., and Perkins.)
Peters, Albert P., et al. (See Selby, Dwight E., assignor.)
Peters, Otto A., Toledo, Ohio. Hot-air furnace. 2,348,569; May 9.
Peters, Peter P., Waynesburg, Ohio. Stoker. 2,348,494; May 9.
Peterson, Ralph F. (See Chapman, F. F., Peterson, and Woodbury.)
Peterson, Victor W., and O. J. Maha, assignor to Hannifin Manufacturing Co., Chicago, Ill. Press and the like. 2,348,439; May 9.
Peterson, William B. Jr., assignor to Pacific Can Company, San Francisco, Calif. Apparatus for internally coating ringlike objects. 2,348,495; May 9.

Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)
Petty, Olive S. (See Manzanera, Lorenzo, assignor.)
Petty, Olive S. (See Parr, Josephus O., Jr., assignor.)
Petty, Olive S., San Antonio, Tex. Magnetic seismometer. 2,348,225; May 9.
Petty, Olive S., San Antonio, Tex. Correlating seismographic curves. 2,348,411; May 9.
Pevere, Ernest F. (See Goldsby, A. R., Pevere, Clarke, and Hatch.)
Pfauser, Erward M., Elm Grove, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Pump assemblage. 2,348,412; May 9.
Philadelphia Valve Company. (See Jensen, James A.)
Philco Corporation. (See Quinn, Charles R., assignor.)
Philco Radio and Television Corporation. (See Stephan, Ingo L., assignor.)
Phillips, Albert J., Plainfield, and A. A. Smith, Jr., Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Coating tin coated copper with indium. 2,348,358; May 9.
Phinney, William E., Cambridge, assignor, by mesne assignments, to United Shoe Machinery Corporation, Boston, Mass. Tempering soles. 2,348,413; May 9.
Pierce, Lyle L., near Seattle, assignor to Boeing Aircraft Company, Seattle, Wash. Storage rack for phototemplates. 2,348,414; May 9.
Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
Pindell, William M. (See Sandenburgh, George H., assignor.)
Pines, Herman. (See Ipatieff, V. N., and Pines.)
Plati, John T. (See Strain, W. H., Plati, and Warren.)
Plax Corporation. (See Bailey, James, assignor.)
Plexico, Samuel H. (See Holland, S. O., Roberts, and Plexico.)
Ppluder, Franz, Annapolis, Md. Convertible life raft and boat. 2,348,570; May 9.
Plymold Corporation. (See Goldman, Paul R., assignor.)
Poesch, Gustave H. (See McLellan, W. G. and R. I., Field, and Poesch.)
Pohl, Wadsworth E., Los Angeles, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Cinematographic masking. 2,348,496; May 9.
Polak, James J., Asheville, assignor to American Enka Corporation, Enka, N. C. Manufacture of rayon. 2,348,415; May 9.
Pond, Thomas C. (See Dinkfeld, A. M., and Pond.)
Poole, Foster M., Dallas, Tex. Measuring instrument. 2,348,643; May 9.
Posey, Frank E., Hamtramck, Mich. Shelter table. 2,348,416; May 9.
Pray, Henry A., Holden, assignor to Battelle Memorial Institute, Columbus, Ohio. Extending the life of electrolytic polishing baths. 2,348,359; May 9.
Preziosi, Peter M., Cleveland Heights, assignor to Jack & Heintz, Inc., Bedford, Ohio. Magazine work holding fixture. 2,348,644; May 9.
Productive Inventions, Inc. (See Smulski, Theodore J., assignor.)
Proescher, Frederick, San Jose, and V. M. Sycheff, Palo Alto, Calif., assignors to Research Corporation, New York, N. Y. Arsanalic acid azo sulphonamide compounds. 2,348,417; May 9.
Puritan Manufacturing Company. (See Calleo, Joseph, assignor.)
Quinn, Charles R., Roslyn Park, assignor to Philco Corporation, Philadelphia, Pa. Refrigerator construction. 2,348,645; May 9.
Radio Corporation of America. (See Brown, George H., assignor.)
Radio Corporation of America. (See Gillespie, Henderson C., assignor.)
Radio Corporation of America. (See Haynes, Robert L., assignor.)
Radio Corporation of America. (See Holshouser, Don F., assignor.)
Radio Corporation of America. (See Mathes, Richard E., assignor.)
Radio Corporation of America. (See Olson, Harry F., assignor.)
Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Regulator for automotive generators. 2,348,263; May 9.
Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Generator voltage regulator. 2,348,571; May 9.
Railway Service and Supply Corporation. (See Booth, Thomas R., assignor.)
Rappl, Anton. (See Horton, E. C., and Rappl.)
Rauland Corporation, The. (See Antalek, John J., assignor.)
Rauland Corporation, The. (See Kester, Arthur S., assignor.)
Ray, William A., Los Angeles, Calif. Control system. 2,348,497; May 9.
Reece Folding Machine Company. (See Reece, R. H., and Gilbert, assignors.)
Reece, Robert H., Holliston, and A. G. Gilbert, South Acton, assignors to Reece Folding Machine Company, East Cambridge, Mass. Pressing machine. 2,348,264; May 9.
Reed, Howard L., Austin, Tex. Recovering minerals. 2,348,360; May 9.
Reeves, Edward D., Cranford, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,348,646; May 9.
Reeves, Edward D., Cranford, and K. K. Kearby, Elizabeth, N. J., assignors to Standard Oil Development Company. Catalytic process. 2,348,647; May 9.
Reichert, Harold E., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tension indicator and control. 2,348,695; May 9.
Reid, James S., Shaker Heights, Ohio, assignor to The Standard Products Company, Detroit, Mich. Scuff plate. 2,348,648; May 9.
Research Corporation. (See Proescher, F., and Sycheff, assignors.)
Research Corporation. (See Snell, Esmond E., assignor.)
Richards, Wayne V., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Lamp socket unit. 2,348,649; May 9.
Richardson, Irving, Newark, N. J. Lock nut. 2,348,308; May 9.
Richardson, Paul H., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable attenuation network. 2,348,572; May 9.
Richardson, Ralph A., assignor to General Motors Corporation, Detroit, Mich. Double windowpane. 2,348,307; May 9.
Rippingille, Edward V., assignor to General Motors Corporation, Detroit, Mich. Engine control means. 2,348,265; May 9.
Roberts, Ben, et al. (See Kellerman, John F., assignor.)
Roberts, Clarence V. (See Holland, S. O., Roberts, and Plexico.)
Robertson, Russell T., New Windsor, Md. Bomb. 2,348,498; May 9.
Roesch, Willard G., and F. G. Brueckmann, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Catalytic process. 2,348,418; May 9.
Rogers, Yubie W., St. Louis, Mo. Combination table. 2,348,573; May 9.
Rohr Aircraft Corporation. (See Rohr, Frederick H., assignor.)
Rohr, Frederick H., San Diego, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Tilting arc. 2,348,309; May 9.
Rose, Alfred G., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Packing machinery. 2,348,650; May 9.
Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)
Ross, Thomas D., Dallas, Tex. Sterilizing vault. 2,348,574; May 9.
Rose, William H., Jersey City, N. J. Spraying device. 2,348,419; May 9.
Rose, William H., Jersey City, N. J. Liquid spraying device. 2,348,420; May 9.
Ross, Talbert C., Greenwood, Miss., assignor, by mesne assignments, to A. W. Halling, Berkeley, Wm. S. Hogan, San Francisco, G. Chenu, Sacramento, E. Whitten, Palo Alto, W. Bassett, Los Angeles, and R. Greaves, Fresno, as trustees of the Conference of California I. B. of B. Unions, San Francisco, Calif. Book construction and bookbinding method. 2,348,421; May 9.
Rotax Limited. (See Hulbert, Ivan J., assignor.)
Rotman, Sidney. (See Greenberg, Joseph, assignor.)
Rous, Ben, Brooklyn, assignor to Federal Carton Corporation, New York, N. Y. Container. 2,348,310; May 9.
Ruben, Samuel, New Rochelle, N. Y. Electrode element for dry disk rectifiers. 2,348,311; May 9.
Ruberoid Co., The. (See Papesh, Michael W., assignor.)
Rudd, Wallace C., Yonkers, and N. Levin, Brooklyn, assignors to Induction Heating Corp., New York, N. Y. Adjustable work coil construction for induction heating. 2,348,361; May 9.
Rudolf, Henry J. G., Brookline, assignor to Applied Mechanics Co., Cambridge, Mass. Liquid level gauge. 2,348,362; May 9.
Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Terpene derivatives. 2,348,575; May 9.
Rumberger, George G. (See Abrams, A., Davis, Forcey, Rumberger, and Wagner.)
Rumberger, George C. (See Abrams, A., Forcey, Graebner, Heald, and Rumberger.)
Rubbel, Harry W., assignor to The Foote-Burt Company, Cleveland, Ohio. Turret indexing mechanism. 2,348,363; May 9.
Ruppel, Harry W., assignor to The Foote-Burt Company, Cleveland, Ohio. Turret actuating mechanism. 2,348,364; May 9.
Rutherford Trust Company, administrator. (See Hollstein, Paul.)
Sandenburgh, George H., Ann Arbor, Mich., assignor of one-half to W. M. Pindell, Evanston, Ill. Protective coating for concrete pavements. 2,348,365; May 9.
Saviskas, Bruno J., Worcester, Mass. Stove. 2,348,366; May 9.
Sawtelle, Charles A., Plymouth, Mich. Broke shoe. 2,348,499; May 9.
Sawtelle, Charles A., Plymouth, Mich. Vehicle brake. 2,348,500; May 9.
Schabacker, Henry E., assignor to The Erie Enameling Company, Erie, Pa. Forming tanks. 2,348,696; May 9.
Schaefer, Paul, Des Plaines, Ill. Liquid hydrocarbon fuel burning apparatus. 2,348,422; May 9.

Schelly, Cyril G., Webster Groves, assignor to Business Collaborators, Inc., St. Louis, Mo. Filter. 2,348,651; May 9.
Schering Corporation. (See Logemann, W., and Dannebaum, assignor.)
Schirm, Erik, Dessau, Germany, assignor, by mesne assignments, to The Hydronaphthane Corporation, Wilmington, Del. Manufacture of p-nitroaryl-disulphimides. 2,348,226; May 9.
Schmerling, Louis, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,348,701; May 9.
Schmerling, Louis, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Hydrogenation of hydrocarbon materials. 2,348,702; May 9.
Schmidt, August, Jr., Niskayuna, and C. C. Herskind, Schenectady, N. Y., assignors to General Electric Company. Electric valve control circuit. 2,348,652; May 9.
Schmidt, Francis M., North Tonawanda, and G. G. Smith, Kenmore, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Remote control apparatus. 2,348,312; May 9.
Schmitt, William H., St. Paul, Minn. Window bracket. 2,348,654; May 9.
Schneider, Wilhelm. (See Fröhlich, A., Schneider, and Zeh.)
Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Compound master cylinder. 2,348,367; May 9.
Schuling, Charles E., Des Moines, Iowa. Vehicle chassis. 2,348,655; May 9.
Schylander, John F., Chicago, Ill. Ash tray and plate securing means therefor. 2,348,423; May 9.
Scofield, Philip F., and D. J. Conant, Cleveland Heights, assignors to Jack & Heintz, Inc., Bedford, Ohio. Control mechanism. 2,348,656; May 9.
Scott, Elizabeth M., Los Angeles, Calif. Can opener. 2,348,227; May 9.
Scott, Kenneth L., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Heat treating apparatus. 2,348,501; May 9.
Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,348,228; May 9.
Seguy, Jean D., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,348,576; May 9.
Selby, Dwight E., deceased, late of Seattle, Wash., by C. A. Andresen, executor, Seattle, Wash., assignor of one-half to C. M. Harbough and I. Cherry, Salem, Oreg., and one-half to A. P. Peters, San Francisco, Calif. Angle toolholder. 2,348,266; May 9.
Semler, Clyde M., Cuyahoga Falls, Ohio. Vulcanizing apparatus. 2,348,229; May 9.
Servel, Inc. (See Blomqvist, G. M., and Torstensson, assignors.)
Seymour, Wray S. (See Silva, F. G., and Seymour.)
Shaples Chemicals Inc. (See McKenna, James F., assignor.)
Shell Development Company. (See Endersby, Victor A., assignor.)
Shell Development Company. (See Lawton, Howard C., assignor.)
Shepard, Carl A., Des Moines, Iowa. Ash receptacle and cigarette butt snuffer. 2,348,368; May 9.
Shorter, Leo J., assignor to Singer Motors Limited, Coventry, England. Change-speed mechanism. 2,348,424; May 9.
Shortland, Arthur. (See Bromley, T. C., and Shortland.)
Sikes, Moyce H., Atlanta, Ga. Coin-controlled game apparatus. 2,348,267; May 9.
Silva, Frederick G., and W. S. Seymour, assignors to Davenport Machine Tool Co., Inc., Rochester, N. Y. Automatic screw machine. 2,348,657; May 9.
Sinclair Refining Company. (See Finley, W. L., and Kirk, assignors.)
Singer Manufacturing Company, The. (See Ackerman, James E., assignor.)
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Singer Manufacturing Company, The. (See Perkins, Kenneth, assignor.)
Singer Motors Limited. (See Shorter, Leo J., assignor.)
Slaughter, Charles E., New Canaan, Conn., assignor to Extruded Plastics, Inc., Norwalk, Conn. Plastic trim. 2,348,658; May 9.
Slaughter, Elmer C. (See Lacy, H. J., II, and Slaughter.)
Sloman, Robert A., et al. (See Friedlaender, Ernest, assignor.)
Small, Arthur E., Porter, Ind., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Retarding railway car doors. 2,348,369; May 9.
Smith, Albert A., Jr. (See Phillips, A. J., and Smith.)
Smith, Brook I., and E. G. Morin, Elizabeth, N. J., assignors to Standard Oil Development Company. Treating fluid mixtures. 2,348,659; May 9.
Smith, Gerald G. (See Schmidt, F. M., and Smith.)
Smith, G. Tucker, et al. (See Hill, Edward G., assignor.)
Smith, Henry V., St. Paul, Minn. Floor scrubbing machine. 2,348,268; May 9.
Smith, Horace L., Jr., and W. E. Conley, Jr., Richmond, Va., assignors, by mesne assignments, to Chain Belt Company, Milwaukee, Wis. Apparatus for treating canned material. 2,348,440; May 9.
Smith, Jacob P., assignor to Old King Cole Incorporated, Canton, Ohio. Counter fixture. 2,348,577; May 9.
Smith, Robert K. (See Hanson, F. E., Smith, and Sulzer.)
Smith, Rolland D., Niles, Mich., and H. F. Gardner, assignors to Stein, Hall Manufacturing Company, Chicago, Ill. Tub size for paper. 2,348,685; May 9.
Smith, Roy D., Mertzon, Tex., assignor to Bee-Line Company, Scott County, Iowa. Bending apparatus. 2,348,697; May 9.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Producing hosiery. 2,348,313; May 9.
Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper. 2,348,502; May 9.
Snell, Esmond E., Austin, Tex., assignor to Research Corporation, New York, N. Y. Antivitamin. 2,348,425; May 9.
Soissa, John A., Savannah, Ga., assignor to Certain-teed Products Corporation, New York, N. Y. Method and apparatus for surfacing sheet material. 2,348,578; May 9.
Solis, Faustino J. F., Habana, Cuba. Detachable cover for vehicles and the like. 2,348,579; May 9.
Spalding, Albert K., Dallas, Tex. Suspension for refractory walls. 2,348,314; May 9.
Sparrow, Hubert T., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Latch mechanism. 2,348,426; May 9.
Sperry Gyroscope Company. (See Frische, C. A., and Esval, assignors.)
Spielmann, Ernst, New York, N. Y. Imprinted woven fabrics. 2,348,230; May 9.
Squiers, Starling A. (See Combs, F. M., and Squiers.)
Standard Catalytic Company. (See Brown, Cecil L., assignor.)
Standard Catalytic Company. (See Hillman, Charles A., assignor.)
Standard Oil Company. (See Page, James M., Jr., assignor.)
Standard Oil Company. (See Roesch, W. G., and Brueckmann, assignors.)
Standard Oil Company of California. (See Cardwell, William T., Jr., assignor.)
Standard Oil Development Company. (See Cohen, Charles A., assignor.)
Standard Oil Development Company. (See Heilman, Ernest D., assignor.)
Standard Oil Development Company. (See Hewlett, A. P., and Paulsen, assignors.)
Standard Oil Development Company. (See Meinert, Richard N., assignor.)
Standard Oil Development Company. (See Mikeska, L. A., Zimmer, and Wasson, assignors.)
Standard Oil Development Company. (See Reeves, Edward D., assignor.)
Standard Oil Development Company. (See Reeves, E. D., and Kearby, assignors.)
Standard Oil Development Company. (See Smith, B. I., and Morin, assignors.)
Standard Products Company, The. (See Reid, James S., assignor.)
Standard Railway Equipment Manufacturing Company. (See Small, Arthur E., assignor.)
Standard Railway Equipment Manufacturing Company. (See Swann, James S., assignor.)
Stark Bros. Nurseries and Orchards Company. (See Fairman, Claude, assignor.)
Stein, A., & Company. (See Bullinger, Conrad, assignor.)
Stein, Hall Manufacturing Company. (See Smith, R. D., and Gardner, assignors.)
Stephan, Ingo L., Delanco, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Phonograph. 2,348,660; May 9.
Stevens, John A., South Bend, Ind. Window jack. 2,348,661; May 9.
Stevens, John A., South Bend, Ind. Fishhook extractor. 2,348,662; May 9.
Stevens, William E., Marion, S. C. Truck stanchion. 2,348,269; May 9.
Strain, William H., J. T. Plati, and S. L. Warren, assignors of one-half to Noned Corporation, and one-half to Eastman Kodak Company, Rochester, N. Y. Compounds for use in radiography. 2,348,231; May 9.
Sulzer, John H. (See Hanson, F. E., Smith, and Sulzer.)
Sun-Kraft, Inc. (See Furedy, Frank, assignor.)
Swann, James S., Homewood, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Retarding railway car doors. 2,348,370; May 9.
Sycheff, Vladimir M. (See Proescher, F., and Sycheff.)
Sydow, Ernest. (See McMahon, J. A., and Sydow.)
Symington-Gould Corporation, The. (See Couch, Glenn F., assignor.)
Tanner, Harold D. (See Lively, George, assignor.)
Taylor, Harden F., assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Vitamin preparation and making same. 2,348,503; May 9.
Taylor, Taylor & Hobson Limited. (See Warmisham, Arthur, assignor.)

Technicolor Motion Picture Corporation. (See Pohl, Wadsworth E., assignor.)
Teletype Corporation. (See Gubisch, Erwin A., assignor.)
Tennessee Coal, Iron and Railroad Company. (See Auten, Claude I., assignor.)
Ternstedt Manufacturing Company. (See Oak, L. C., and Donnelly, assignors.)
Texas Company, The. (See Goldsby, A. R., Pevere, Clarke, and Hatch, assignors.)
Thomas, Berwyn B. (See Frommuller, D., and Thomas.)
Thomas, David W., assignor to The Youngstown Metal Products Company, Youngstown, Ohio. Forming sheet metal articles. 2,348,663; May 9.
Thomas, Ralph M., Stockton, Calif. Fruit collecting chute for ladders and the like. 2,348,504; May 9.
Thomas, Willis H. (See Lindley, C., Jr., Goodyear, and Thomas.)
Thompson, John S., assignor to Parker Rust Proof Company, Detroit, Mich. Roller coating. 2,348,698; May 9.
Thompson, Lee La V., Iowa Park, Tex. Conveyer. 2,348,664; May 9.
Tide Water Associated Oil Company. (See Gilbert, Everett E., assignor.)
Tide Water Associated Oil Company. (See Waugh, Stanley P., assignor.)
Timken Roller Bearing Company, The. (See Hagen, Karl R., assignor.)
Todd, H. A., et al. (See Friedlaender, Ernest, assignor.)
Tognola, Tullio, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Spark plug and making the same. 2,348,427; May 9.
Toledo Scale Company. (See Weckerly, Mark A., assignor.)
Toledo Scale Company. (See Williams, Lawrence S., assignor.)
Torstensson, Sture F. (See Blomqvist, G. M., and Torstensson.)
Trautman, Oscar C., Parma, and W. H. Wood, South Euclid, Ohio. Quench pot. 2,348,232; May 9.
Trico Products Corporation. (See Horton, E. C., and Rappl, assignors.)
Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Variable delivery vane pump. 2,348,428; May 9.
Turnock, Joseph E., Riverton, N. J., and G. D. Noble, Philadelphia, Pa. Cartridge coating machine. 2,348,233; May 9.
Tuttle, Malcolm H., New Rochelle, assignor to Max B. Miller & Co., Inc., New York, N. Y. Cracking hydrocarbon vapors. 2,348,699; May 9.
Union Switch & Signal Company, The. (See Cravath, Austin M., assignor.)
Union Switch & Signal Company, The. (See Vantassel, Harry C., assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
Unitcast Corporation. (See Goodwin, Ernest G., assignor.)
United Merchants & Manufacturers, Inc. (See Miller, Paul L., assignor.)
United Shoe Machinery Corporation. (See Haas, Otto R., assignor.)
United Shoe Machinery Corporation. (See Kennison, Frank, assignor.)
United Shoe Machinery Corporation. (See Phinney, William E., assignor.)
U. S. Corrugated Fibre Box Company. (See Lacy, H. J., II, and Slaughter, assignors.)
United States Rubber Company. (See Frost, Raymond B., assignor.)
Universal Button Fastening and Button Company. See Walker, William L., assignor.)
Universal Oil Products Company. (See Barnes, Marion W., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Ipatieff, V. N., and Pines, assignors.)
Universal Oil Products Company. (See Mattox, William J., assignor.)
Universal Oil Products Company. (See Schmerling, L., and Ipatieff, assignors.)
Universal Oil Products Comany. (See Schmerling, Louis, assignor.)
Universal Oil Products Company. (See Seguy, Jean Delattre, assignor.)
Van Dyke, Frank G., assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,348,270; May 9.
Van Epps, Clarence F., assignor to The Lauxite Corporation, Lockport, N. Y. Paper. 2,348,686; May 9.
Vantassel, Harry C., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,348,580; May 9.
Vaughan, William H., DeKalk County, assignor to M. A. Ferst, Ltd., Atlanta, Ga. Pencil lead, crayon, and ceramic. 2,348,315; May 9.
Venton, Frederick R. (See Fennema, R., De Craene, Dopp, and Venton.)
Victor Equipment Company. (See Houghton, Wilbur S., assignor.)
Victor Manufacturing & Gasket Company. (See Antonelli, Joseph A., assignor.)
Vidal Corporation. (See Vidal, E. L., and Marhoefer, assignors.)
Vidal, Eugene L., New York, N. Y., and L. J. Marhoefer, Woodridge, N. J., assignors, by mesne assignments, to Vidal Corporation. Laminated structure. 2,348,316; May 9.
Viehmann, John C. L., Manhasset, N. Y. Extension leaf table. 2,348,371; May 9.
Voerge, John N., Westmount, Quebec, Canada. Sandblasting. 2,348,505; May 9.
Von Gehr, George H., Chicago, Ill. Electrical outlet. 2,348,665; May 9.
Vonschott, William, Glendale, Long Island, N. Y. Necktie rack. 2,348,271; May 9.
Wagner, Charley L. (See Abrams, A., Davis, Forcey, Rumberger, and Wagner.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for producing a ground or ground and polished continuous strip of glass. 2,348,581; May 9.
Walker, Ralph E., Silverdale, Wash. Knife. 2,348,429; May 9.
Walker, William L., assignor to Universal Button Fastening and Button Company, Detroit, Mich. Manufacture and attachment of buttons. 2,348,441; May 9.
Wall, Courtney C., assignor to Helen H. Wall, Ozark Beach, Mo., Post binder. 2,348,430; May 9.
Wall, Helen H. (See Wall, Courtney C., assignor.)
Wallace, Herbert A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for transmitting electrical signals. 2,348,666; May 9.
Warmey, Bernard A., and W. J. Moreland, Jr., assignor, by mesne assignments, to G. W. Borg Corporation, Chicago, Ill. Scoreboard. 2,348,431; May 9.
Warmisham, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective. 2,348,667; May 9.
Warren, Richard F., Jr., Stratford, Conn. Flexible composite rope. 2,348,234; May 9.
Warren, Stafford L. (See Strain, W. H., Platt, and Warren.)
Wasson, Jones I. (See Mikeska, L. A., Zimmer and Wasson.)
Waugh, Stanley P., Westfield, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Lubricant containing metal compounds. 2,348,317; May 9.
Weaver, Jerald D., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Automatic record changing apparatus. 2,348,506; May 9.
Weaver, Jesse E., Carnegie, assignor to Horix Manufacturing Company, Corliss Station, Pittsburgh, Pa. Filling machine for containers. 2,348,582; May 9.
Webster Electric Company. (See Dally, Roy, assignor.)
Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,348,372; May 9.
Weems, William R., Decatur, Ga. Erecting device for directional gyroscopes. 2,348,235; May 9.
Weir, Francis M., and P. M. Dolan, Essex, Conn. Plywood structure. 2,348,703; May 9.
Welch, William C., Philadelphia, Pa. Locking device. 2,348,373; May 9.
Wells, George, Komas Ranch, Denman Island, British Columbia, Canada. Baster roaster. 2,348,507; May 9.
Wells, L. A., Construction Company, The. (See Wells, Louis A., assignor.)
Wells, Louis A., Shaker Heights, assignor to The L. A. Wells Construction Company, Cleveland, Ohio. Breakwater. 2,348,508; May 9.
Western Electric Company. (See Framburg, C. A., Jr., and Larson, assignors.)
Western Electric Company, Incorporated. (See Hanson, F. E., Smith, and Sulzer, assignors.)
Western Electric Company. (See Matson, George C., assignor.)
Western Electric Company. (See Scott, Kenneth L., assignor.)
Western Union Telegraph Company, The. (See Kline, Bernard L., assignor.)
Wheeler, Ralph W., Cleveland, Ohio. Packaging potato chips. 2,348,509; May 9.
Whitcomb Locomotive Company, The. (See McKamy, Paul E., assignor.)
Whitten, Eugene, et al., trustees. (See Ross, Talbert C., assignor.)
Wiley, Lee M., assignor of one-third to J. T. Lett and one-third to R. B. Wiley, Marion, Ind. Pulp product production. 2,348,272; May 9.
Wiley, Reeley B., et al. (See Wiley, Lee M., assignor.)
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,348,374; May 9.
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,348,375; May 9.
Wilson, Asbury G., et al. (See Wilson, John R., assignor.)
Wilson, John R., et al. (See Wilson, John R., assignor.)
Wilson, John R., Penn Township, Allegheny County, assignor, by mesne assignments, to A. G., J. R., and T. F. Wilson, Wilkinsburg, Pa., co-partners trading as Hanlon & Wilson Company. Tube type flash boiler water heating device. 2,348,668; May 9.

Wilson, Robert F. (See Atlee, Z. J., and Wilson.)
Wilson, Theodore F., et al. (See Wilson, John R., assignor.)
Winter, Charley J., Altadena, Calif. Straight edge lawn trimmer. 2,348,669; May 9.
Wood Items, Inc. (See Mutch, James B., assignor.)
Wood, William H. (See Trautman, O. C., and Wood.)
Woodbury, Clifford A. (See Chapman, F. F., Peterson, and Woodbury.)
Woodin, Walter F., Rolfe, Iowa. Remote control relay. 2,348,432; May 9.
Woodward, Wallace W., Chicago, Ill., assignor to The Brown Instrument Company, Philadelphia, Pa. Control system. 2,348,670; May 9.
Wright Aeronautical Corporation. (See Moore, Vincent T., assignor.)
Wright, Wallace C., Sanbornville, N. H. Making welt insoles. 2,348,583; May 9.
Wurlitzer, Rudolph, Company, The. (See Schmidt, F. M., and Smith, assignors.)
Yaggy, Luther M., Bagley, Minn. Leak mender. 2,348,273; May 9.
Yale & Towne Manufacturing Company, The. (See Groves, Warren W., assignor.)
Young, Henry S., Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Control apparatus. 2,348,584; May 9.
Young, Stephen A. (See Beeke, H. F., and Young.)
Youngstown Metal Products Company. (See Thomas, David W., assignor.)
Zeh, Walter. (See Fröhlich, A., Schneider, and Zeh.)
Zillgitt, Vernon, et al. (See Hamer, Leland S., assignor.)
Zimmer, John C. (See Mikeska, L. A., Zimmer, and Wasson.)
Zgliczynski, Stefan, Baltimore, Md. Automatic wind motor. 2,348,671; May 9.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Agricultural material as livestock feed and producing same, Ammoniated. H. C. Millar. Re. 22,477; May 9.
Internal combustion rotary engine. L. W. Beaven. Re. 22,473; May 9.
Rodlike articles, Method of, and apparatus for manufacturing. H. A. Perkins. Re. 22,478; May 9.
Telephone system. M. B. McDavitt. Re. 22,475; May 9.
Telephone system. J. B. McKim. Re. 22,476; May 9.
Tension, Process and apparatus for controlling. L. S. Fryer and L. E. Lovett. Re. 22,474; May 9.

LIST OF PLANT INVENTIONS

Tree, Cherry. C. Fairman. 627; May 9.

LIST OF DESIGN INVENTIONS

Airplane. A. Kartveli and H. H. Haase. 137,889; May 9.
Airplane. A. O. Kelly. 137,891; May 9.
Album, Display. W. Widder. 137,883; May 9.
Bed table and refuse receptacle support, Combined. T. O. Smith. 137,877; May 9.
Bow-buckle or similar article. E. J. Castle. 137,859; May 9.
Cabinet, Vending machine. J. Tavis. 137,878–9; May 9.
Cap. P. M. Maxwell and W. J. Russy. 137,892; May 9.
Casing for writing implement or the like. R. Loewy. 137,866–7; May 9.
Container, Cosmetic. M. Yellin. 137,884; May 9.
Container for frozen products, Rectangular. L. A. M. Phelan. 137,890; May 9.
Dish, Egg. M. H. Shulman. 137,887; May 9.
Earring or similar article. H. Morris. 137,871; May 9.
Engine starter supporting frame, Aircraft. D. J. Conant. 137,862; May 9.
Feeding and play table, Child's. A. E. Puls and E. R. Swenson. 137,875; May 9.
Fish lure. R. Simpson. 137,876; May 9.
Fork or other article of flatware. P. Vitolo. 137,880; May 9.
Golf club head. J. J. Jakosky. 137,863; May 9.
Handbag. I. Jolles. 137,864; May 9.
Lamp. H. Birsh. 137,885; May 9.
Lamp, Pin-up. J. W. Solomon. 137,888; May 9.
Pen, Fountain. G. D. Cloutier. 137,860; May 9.
Rosary of the stations of the cross. J. C. Kelley. 137,865; May 9.
Saucer. T. W. Wall. 137,881; May 9.
Shoe tree. J. B. Mutch. 137,872; May 9.
Sign or the like. C. P. Partridge. 137,874; May 9.
Slip or similar article. S. Wolf. 137,893; May 9.
Stick for spinning ball. J. Palmieri. 137,873; May 9.
Stroller. C. Wells. 137,882; May 9.
Table and wall plaque, Combination. H. C. Doner. 137,861; May 9.
Tool or similar article, Magnetic locating. I. R. Nicholas. 137,886; May 9.
Wallet. C. Meyers. 137,868–70; May 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting apparatus. C. J. Goodale. 2,348,535; May 9.
Adhesive and coating materials. E. Bock. 2,348,447; May 9.
Aerial bomb protective apparatus. J. D. Hume. 2,348,387; May 9.
Airfoil. R. W. Griswold, II. 2,348,252; May 9.
Airfoil. R. W. Griswold, II. 2,348,253; May 9.
Airplane pickup mechanism. E. G. Hill. 2,348,342; May 9.
Alcohol, Producing. L. M. Christensen. 2,348,451; May 9.
Alkylation with olefin mixtures. R. N. Meinert. 2,348,637; May 9.
Alley, Automatic bowling. E. Hedenskoog. 2,348,540; May 9.
Alloy: *See*—
Lead alloy.
Alloys. R. S. Dean and C. T. Anderson. 2,348,207; May 9.
Alternating current generator. R. F. Mallina. 2,348,352; May 9.
Ammonium compound and making same, Quaternary. M. De Groote and B. Keiser. 2,348,613; May 9.
Angle toolholder. D. E. Selby. 2,348,266; May 9.
Animal trap. H. R. Graybill. 2,348,251; May 9.
Antivitamin. E. E. Snell. 2,348,425; May 9.
Apparatus for compensating gas meter readings. S. R. Beitler. 2,348,593; May 9.
Apparatus for forming and annealing combination curved and straight glass. E. R. Boyles and C. M. Pattison. 2,348,279; May 9.
Apparatus for forming combination curved and straight glass. E. R. Boyles and C. M. Pattison. 2,348,278; May 9.
Apparatus for forming material. F. M. Combs and S. A. Squiers. 2,348,193; May 9.
Apparatus for generating coded alternating current. A. M. Cravath. 2,348,525; May 9.
Apparatus for internally coating ringlike objects. W. B. Peterson, Jr. 2,348,495; May 9.
Apparatus for making stamps. H. S. Jonsson. 2,348,630; May 9.
Apparatus for marking billets and the like. M. S. Papazian. 2,348,566; May 9.
Apparatus for moving and storing sheet material. P. L. Miller. 2,348,355; May 9.
Apparatus for producing a ground or ground and polished continuous strip of glass. F. B. Waldron. 2,348,581; May 9.
Apparatus for recording wave form signals. L. Manzanera. 2,348,401; May 9.
Apparatus for skinning thermoplastic shapes. J. Bailey. 2,348,591; May 9.
Apparatus for taking stereoscopic or three-dimensional moving pictures. G. Pastor. 2,348,410; May 9.
Apparatus for the cultivation of anaerobic and microaerophylic organisms. J. H. Brewer. 2,348,448; May 9.
Apparatus for transmitting electrical signals. H. A. Wallace. 2,348,666; May 9.
Apparatus for treating canned material. H. L. Smith, Jr., and W. E. Conley, Jr. 2,348,440; May 9.
Arsanilic acid azo sulphonamide compounds. F. Proescher and V. M. Sycheff. 2,348,417; May 9.
Articles, Forming composite. E. J. Fickers. 2,348,287; May 9.
Articles, Packaging heavy, legged. A. J. Lacy, II, and E. C. Slaughter. 2,348,483; May 9.
Ash receptacle and cigarette butt snuffer. C. A. Shepard. 2,348,368; May 9.
Ash tray. J. G. Lawrence. 2,348,396; May 9.
Ash tray and plate securing means therefor. J. F. Schylander. 2,348,423; May 9.
Attachment for sewing machines, Work-folding. J. E. Ackerman. 2,348,690; May 9.
Automatic record-changing apparatus. F. Kahl and O. C. Booher. 2,348,257; May 9.
Automatic record changing apparatus. J. D. Weaver. 2,348,506; May 9.
Automatic wind motor. S. Zgliczynski. 2,348,671; May 9.
Badge. S. O. Holland, C. V. Roberts, and S. H. Plexico. 2,348,627; May 9.
Bag manufacturing machine. S. J. Duhaime. 2,348,196; May 9.
Band for projectiles, Protective. H. M. Dodge. 2,348,675; May 9.
Bath, sink, and lavatory fixture. H. F. Beeke and S. A. Young. 2,348,238; May 9.
Belt and blank for the same, Cut tooth power transmission. R. Y. Case. 2,348,522; May 9.
Bending apparatus. R. D. Smith. 2,348,697; May 9.
Blade motion for rotary folding mechanisms, Tucker. A. J. Carpenter, Jr. 2,348,605; May 9.
Bolster. A. H. Oelkers. 2,348,694; May 9.
Bomb. R. T. Robertson. 2,348,498; May 9.
Bomb, Cluster. A. N. Braun. 2,348,240; May 9.
Book construction and bookbinding method. T. C. Ross. 2,348,421; May 9.
Bottle carrier. G. S. Beskin. 2,348,187; May 9.
Brake: *See*—
Vehicle brake.
Brake. P. M. Freer. 2,348,534; May 9.
Brake shoe. C. A. Sawtelle. 2,348,499; May 9.
Breakwater. L. A. Wells. 2,348,508; May 9.
Brush. J. G. Baumgartner. 2,348,515; May 9.
Buttons, Manufacture and attachment of. W. L. Walker. 2,348,441; May 9.
Cable: *See*—
Electric cable.
Camera. T. M. Aiken. 2,348,510; May 9.
Can opener. E. M. Scott. 2,348,227; May 9.
Capacitor, Electrolytic. F. S. Dunleavey. 2,348,284; May 9.
Car: *See*—
Railway car.
Carotene, Concentrating. H. M. Barnett. 2,348,443; May 9.
Carrier: *See*—
Bottle carrier.
Carton. C. H. Goodyear. 2,348,377–8; May 9.
Cartridge coating machine. J. E. Turnock and G. D. Noble. 2,348,233; May 9.
Casting and molding machine, Centrifugal electric. F. E. Bellows. 2,348,322; May 9.
Catalyst recovery. J. M. Page, Jr. 2,348,408; May 9.
Catalytic process. E. D. Reeves and K. K. Kearby. 2,348,647; May 9.
Catalytic process. W. G. Roesch and F. G. Brueckmann. 2,348,418; May 9.
Catalytic reforming. C. A. Hillman. 2,348,624; May 9.
Cellulose derivatives having affinity for acid dyestuffs, Manufacture of. H. C. Olpin, S. A. Gibson, and J. E. Jones. 2,348,305; May 9.
Centrifugal pump. R. H. Dixon. 2,348,246; May 9.
Chair. C. J. Komaska. 2,348,633; May 9.
Change-speed mechanism. L. J. Shorter. 2,348,424; May 9.
Channel selecting circuit. W. H. T. Holden. 2,348,626; May 9.
Chassis, Vehicle. C. E. Schuling. 2,348,655; May 9.
Chocolate and similar materials, Treating. P. Hollstein. 2,348,473; May 9.
Choke mechanism, Automatic. C. H. Jorgensen. 2,348,544; May 9.
Cigarette and match dispenser. W. H. Banck. 2,348,442; May 9.
Cinematographic masking. W. E. Pohl. 2,348,496; May 9.
Circuit: *See*—
Channel selecting circuit.
Electric control circuit.
Electric valve control circuit.
Electric valve protective circuit.
Circuit breaker. C. E. Bazley. 2,348,516; May 9.
Circuit breaker. W. M. Scott, Jr. 2,348,228; May 9.
Circuit interrupter. W. D. Kyle and C. W. Brown. 2,348,394; May 9.
Clamp: *See*—
Denture clamp.
Metal clamp.
Self-locking clamp.
Clamp for holding drill rods or casings. C. S. Davidson. 2,348,611; May 9.
Clamping device for heel-building machines. J. A. McMahon and E. Sydow. 2,348,351; May 9.
Cleaning and renovating waste. T. R. Booth. 2,348,597; May 9.
Cleaning means for hydraulic cells. V. T. Moore. 2,348,260; May 9.
Closures, Method and machine for making. K. B. Geertsema. 2,348,464; May 9.
Clutch: *See*—
Hydraulic clutch.
Clutch control and gear shifting mechanism, Combined. H. W. Hey and J. G. Ingres. 2,348,435; May 9.
Coating apparatus. E. H. Hillman. 2,348,384; May 9.
Coating for concrete pavements, Protective. G. H. Sandenburgh. 2,348,365; May 9.
Coating machine. N. Pelosi. 2,348,224; May 9.

Coil construction for induction heating, Adjustable work. W. C. Rudd and N. Levin. 2,348,361; May 9.
Coin controlled game apparatus. M. H. Sikes. 2,348,267; May 9.
Coin-controlled selector. E. G. Henry. 2,348,434; May 9.
Comb. S. Golden. 2,348,339; May 9.
Combination table. Y. W. Rogers. 2,348,573; May 9.
Commutator and process of manufacture. J. Armel. 2,348,511; May 9.
Composition for coating and laminating sheet materials. A. Abrams, G. W. Forcey, W. H. Graebner, A. M. Heald, and G. G. Rumberger. 2,348,687; May 9.
Condenser: *See*—
Variable condenser.
Container: *See*—
Key opening sheet metal container.
Container. A. Abrams, D. W. Davis, G. W. Forcey, G. G. Rumberger, and C. L. Wagner. 2,348,689; May 9.
Container. W. G. and R. I. McLellan, W. J. Field, and G. H. Poesch. 2,348,488; May 9.
Container. R. E. Moyer. 2,348,437–8; May 9.
Container. B. Rous. 2,348,310; May 9.
Container delivering articles singly. A. J. G. Chandler. 2,348,449; May 9.
Control apparatus. H. S. Young. 2,348,584; May 9.
Control device. L. L. Cunningham. 2,348,454; May 9.
Control mechanism. P. F. Scofield and D. J. Conant. 2,348,656; May 9.
Control system. L. L. Cunningham and H. E. Malone. 2,348,206; May 9.
Control system. W. A. Ray. 2,348,497; May 9.
Control system. W. W. Woodward. 2,348,670; May 9.
Conveyer. L. La V. Thompson. 2,348,664; May 9.
Cooling apparatus. J. H. Morrow. 2,348,559–60; May 9.
Cooling means for rolls handling hot-rolled metal strip. A. E. De Witz. 2,348,528; May 9.
Counter fixture. J. P. Smith. 2,348,577; May 9.
Coupler centering and pipe control device. J. P. Golden and G. A. Meyer. 2,348,466; May 9.
Cover: *See*—
Removable tire cover. Trash pail cover.
Cover for vehicles and the like, Detachable. F. J. F. Solls. 2,348,579; May 9.
Cracking of hydrocarbon vapors. M. H. Tuttle. 2,348,699; May 9.
Crate marking machine. H. B. Greenwood. 2,348,537; May 9.
Crystal pickup unit. R. Dally. 2,348,526; May 9.
Cutter: *See*—
Portable recess cutter.
Cutting tool. L. C. Oak and J. B. Donnelly. 2,348,262; May 9
Cylinder, Compound master. S. Schnell. 2,348,367; May 9.
Delivery system for volatile liquids. N. M. Jones. 2,348,478; May 9.
Denture clamp. C. Haller. 2,348,471; May 9.
Dentures, Making artificial. E. J. Cayo. 2,348,606; May 9.
Detachable gun mount. H. K. Growald. 2,348,470; May 9.
Device for converting variations of a mechanical quantity into variations of an electric voltage. P. H. Dijksterhuis. 2,348,245; May 9.
Device for stretching metallic strip material. A. C. Harper, Jr. 2,348,539; May 9.
Dispenser: *See*—
Cigarette and match dis- Liquid dispenser.
penser.
Dispenser. H. B. Grace. 2,348,468; May 9.
Dispensing apparatus and method, Fuel gas. A. J. Kercher. 2,348,546; May 9.
Dispensing device. F. Miller. 2,348,402; May 9.
Dispensing mechanism. R. O. Manspeaker. 2,348,400; May 9.
Display. W. M. and M. C. Gardner. 2,348,250; May 9.
Door closing mechanism, Vehicle. J. B. Parsons. 2,348,306; May 9.
Door construction, Upward acting. G. H. Hufferd, and M. P. Graham. 2,348,386; May 9.
Door structure for mixers. G. Jaeger and C. I. Bohmer. 2,348,682; May 9.
Dredge. W. W. Johnson. 2,348,389; May 9.
Drying device. R. B. Keehnel. 2,348,631; May 9.
Dusting apparatus. J. A. Chater. 2,348,205; May 9.
Duplicating mechanism. T. F. Brackett. 2,348,280; May 9.
Electric cable. A. L. Parker. 2,348,641; May 9.
Electric capacitor. B. B. Minnium. 2,348,693; May 9.
Electric control circuit. O. W. Livingston. 2,348,553; May 9.
Electric control circuits. J. A. Kratz. 2,348,259; May 9.
Electric switch. H. C. Bolley. 2,348,519; May 9.
Electric valve control circuit. A. Schmidt, Jr., and C. C. Herskind. 2,348,652; May 9.
Electric valve protective circuit. A. H. Mittag. 2,348,653; May 9.
Electrical flap control. G. H. Gill. 2,348,212; May 9.
Electrical heating apparatus. H. C. Gillespie. 2,348,338; May 9.
Electrical insulation. W. E. Gordon. 2,348,536; May 9.
Electrical outlet. G. H. Von Gehr. 2,348,665; May 9.
Electrical resistance device. C. A. Framburg, Jr., and E. W. Larson. 2,348,462; May 2.
Electrical signalling system. J. F. Mackenzie. 2,348,399; May 9.
Electrically controlled hydraulic press. P. E. Flowers. 2,348,676; May 9.
Electrode element for dry disk rectifiers. S. Ruben. 2,348,311; May 9.
Electron discharge device mount spacer. D. F. Holshouser. 2,348,216; May 9.
Electron flow device. Z. J. Atlee and R. F. Wilson. 2,348,184; May 9.
Electron holder. F. G. Van Dyke. 2,348,270; May 9.
Electroplated receptacle. G. K. P. Kraft. 2,348,549; May 9.
Engine control means. E. V. Rippingille. 2,348,265; May 9.
Engines, Operating. R. H. Hanlon. 2,348,621; May 9.
Evaluating flow characteristics of wells. L. S. Chambers. 2,348,192; May 9.
Extending the life of electrolytic polishing baths. H. A. H. Pray. 2,348,359; May 9.
Extension leaf table. J. C. L. Viehmann. 2,348,371; May 9.
Extractor: *See*—
Fishhook extractor.
Extractor, Portable collapsible fume. A. T. Daudelin. 2,348,455; May 9.
Fabrics, Imprinted woven. E. Spielmann. 2,348,230; May 9.
Fastening means. C. I. Auten. 2,348,589; May 9.
Feeding apparatus, Wool. J. Belli. 2,348,691; May 9.
Feeding mechanism. H. E. Dickerman. 2,348,456; May 9.
Fertilizers and resulting fertilizer, Manufacturing. J. O. Holbrook. 2,348,343; May 9.
Filamentous materials, Treating. J. B. Calva. 2,348,602; May 9.
Filler: *See*—
Shoe bottom filler.
Filling machine for containers. J. E. Weaver. 2,348,582; May 9.
Filling material for reaction spaces. A. M. Fairlie. 2,348,208; May 9.
Filling valve. C. E. Kerr. 2,348,480; May 9.
Film patching jig. J. M. Barr and R. C. Mercer. 2,348,237; May 9.
Filter. C. G. Schelly. 2,348,651; May 9.
Fishhook extractor. J. A. Stevens. 2,348,662; May 9.
Fixture for installing and removing the abrading elements of rotary abraders. R. A. Fontaine. 2,348,288; May 9.
Flange bending apparatus. U. A. Bartee. 2,348,185; May 9.
Floor scrubbing machine. H. V. Smith. 2,348,268; May 9.
Flow control means. T. P. Newman and H. W. Ashby. 2,348,490; May 9.
Fluid mixtures, Treating. B. I. Smith and E. B. Morin. 2,348,659; May 9.
Fluid motor. C. C. Cole. 2,348,243; May 9.
Fluid pressure regulator. A. F. Jenkins. 2,348,388; May 9.
Fluid valve. G. J. Koehler. 2,348,548; May 9.
Fluids, Heating of. M. W. Barnes. 2,348,512; May 9.
Fluorine compounds. A. F. Benning and J. D. Park. 2,348,321; May 9.
Food storage receptacle. L. S. Cooper. 2,348,524; May 9.
Fruit collecting chute for ladders and the like. R. M. Thomas. 2,348,504; May 9.
Fuel composition. L. A. Mikeska, J. C. Zimmer and J. L. Wasson. 2,348,638; May 9.
Fuel injection apparatus. A. T. Bremser. 2,348,282; May 9.
Fuel, Making aviation. C. L. Brown. 2,348,599; May 9.
Fuel pump. K. R. Hagen. 2,348,538; May 9.
Fuel pumping unit. A. L. Parker. 2,348,567; May 9.
Furnace: *See*—
Hot-air furnace.
Furniture, Article of. J. S. McInnis. 2,348,554; May 9.
Furniture, Combination. N. F. Hart. 2,348,472; May 9.
Gas and oil separator. A. S. Parks. 2,348,357; May 9.
Gate, Portable. J. B. Mutch. 2,348,561; May 9.
Gauge: *See*—
Liquid level gauge. Vacuum gauge.
Gauge. H. A. and J. M. Droitcour. 2,348,530; May 9.
Gem. G. E. McMahon. 2,348,636; May 2.
Generator: *See*—
Alternating current gen- Ultraviolet ray generator.
erator.
Generator voltage regulator. W. J. Rady. 2,348,571; May 9.
Governor. M. Mallory. 2,348,362; May 9.
Grease and oils, Treating articles for removing. P. I. Geiringer. 2,348,465; May 9.
Grip for balloon flying and other cables, Terminal connecting. E. G. Cleverly. 2,348,608; May 9.
Guard for electric switch levers. A. W. Krieger. 2,348,393; May 9.
Gyro, Horizon. B. G. Carlson. 2,348,604; May 9.
Gyroscopes, Erecting device for directional. W. R. Weems. 2,348,235; May 9.
Hammock. B. Q. Jones. 2,348,217; May 9.

Hand and hydraulic valve operator, Combined. R. Fennema, E. P. De Craene, C. A. Dopp and F. R. Fenton. 2,348,460; May 9.
Hardener for formaldehyde-urea adhesives, Delayed-acting. W. C. Dearing. 2,348,244; May 9.
Harvester, Ensilage. I. D. McEachern. 2,348,634; May 9.
Hat fitting appliance and the like, Self-adjusting. C. Doering. 2,348,615; May 9.
Heat exchanger. H. F. Buschow and E. G. Engel. 2,348,601; May 9.
Heat-sealable label. A. Abrams, G. W. Forcey, W. H. Graebner, A. M. Heald, and G. G. Rumberger. 2,348,688; May 9.
Heat treating apparatus. K. L. Scott. 2,348,501; May 9.
Heater for fluids. M. W. Barnes. 2,348,513; May 9.
Heater or cooler for oil filters. C. B. Dushane, Jr. 2,348,247; May 9.
Heating system or the like. C. W. Colby. 2,348,610; May 9.
Helicopter. C. Ferro. 2,348,249; May 9.
Hesperidin, Manufacture of. R. H. Higby. 2,348,215; May 9.
Holder: *See*—
Electron holder. Match pack holder.
Holder for dynamoelectric machines, Brush. K. Perkins. 2,348,684; May 9.
Hood closure supporting means. W. H. Krause. 2,348,348; May 9.
Hose reel. J. A. Jensen. 2,348,692; May 9.
Hosiery, Producing. W. L. Smith, Jr. 2,348,313; May 9.
Hot-air furnace. O. A. Peters. 2,348,569; May 9.
Housing and caging unit assembly for gyros. B. G. Carlson. 2,348,603; May 9.
Hydraulic clutch. A. E. Kramer. 2,348,482; May 9.
Hydrocarbon distillates, Treatment of. W. J. Mattox. 2,348,557; May 9.
Hydrocarbons, Alkylation of. A. R. Goldsby and E. F. Pevere, L. A. Clarke and G. B. Hatch. 2,348,467; May 9.
Hydrocarbons, Conversion of. J. D. Seguy. 2,348,576; May 9.
Hydrocarbons, Stabilizing. G. S. Houghland. 2,348,681; May 9.
Hydrocarbons, Treatment of. G. Egloff. 2,348,531; May 9.
Hydrocarbons, Treatment of. H. R. Johnson. 2,348,543; May 9.
Hydrogenation of hydracarbon materials. L. Schmerling and V. N. Ipatieff. 2,348,702; May 9.
Hydroxyl derivatives of the cyclopentano polyhydrophenanthrene series and manufacture of the same. W. Logemann and H. Dannenbaum. 2,348,221; May 9.
Hypodermic projectile. E. H. Francis. 2,348,337; May 9.
Identifying substance. J. W. O'Brien. 2,348,639; May 9.
Ignition apparatus for internal combustion engines, Auxiliary spark. I. J. Hulbert. 2,348,298; May 9.
Ignition timer. J. L. Arthur. 2,348,236; May 9.
Induction coil mounting. H. F. Obergfell. 2,348,404; May 9.
Infusion packages with handles, Manufacture of. L. Barnett. 2,348,201; May 9.
Ink, Printing. D. J. Bernardi. 2,348,594; May 9.
Insole and making the same, Ribbed. J. Calleo. 2,348,327; May 9.
Insole shoe and insole assembly therefor, Floating. J. H. Everston. 2,348,336; May 9.
Intermixed divided materials, Separating. C. W. H. Holmes. 2,348,344; May 9.
Ionic relay circuit arrangement. R. E. Mathes. 2,348,555; May 9.
Jack: *See*—
Window jack.
Key opening sheet metal container. W. W. Hodgson. 2,348,542; May 9.
Kiln for extraction of mercury from its ores, Rotary. C. F. Degner. 2,348,673; May 9.
Knife. R. E. Walker. 2,348,429; May 9.
Ladle for molten metal and sealing closures therein. H. G. Freeman. 2,348,199; May 2.
Laminated structure. E. L. Vidal and L. J. Marhoefer. 2,348,316; May 9.
Lamp for sound reproducers, Alternating current exciter. R. L. Haynes. 2,348,296; May 9.
Lamp shades, Manufacture of. J. Greenberg. 2,348,469; May 9.
Lamp socket unit. W. V. Richards. 2,348,649; May 9.
Landing gear for aircraft. S. M. Parker. 2,348,493; May 9.
Landslides, Preventing. V. A. Endersby. 2,348,458; May 9.
Latch mechanism. H. T. Sparrow. 2,348,426; May 9.
Latching and locking device, Automatic. H. R. Gross. 2,348,292; May 9.
Lawn trimmer, Straight-edge. C. J. Winter. 2,348,669; May 9.
Lead alloy. G. J. D'Eustachio. 2,348,333; May 9.
Lead, crayon, and ceramic, Pencil. W. H. Vaughan. 2,348,315; May 9.
Leak mender. L. M. Yaggy. 2,348,273; May 9.
Lid, Utensil. G. P. Christopher. 2,348,452; May 9.
Life belt. F. A. Falanga. 2,348,286; May 9.
Life raft and boat, Convertible. F. Plunder. 2,348,570; May 9.
Light-metal surfaces, Preventing corrosion of. P. F. George. 2,348,678; May 9.
Line justifying typing machine. S. R. Nicks. 2,348,261; May 9.
Line tightener. W. A. McKay and J. A. Dickie. 2,348,487; May 9.
Liner for viscous material containers, Removable. E. D. Heilman. 2,348,622; May 9.
Lining and insulating the interior surfaces of continuously operated furnaces. L. Larson. 2,348,395; May 9.
Liquid dispenser. L. G. Bates. 2,348,514; May 9.
Liquid hydrocarbon fuel burning apparatus. P. Schaefer. 2,348,422; May 9.
Liquid level gauge. H. J. G. Rudolf. 2,348,362; May 9.
Liquid pump. G. E. Bullock. 2,348,190; May 9.
Liquid treating material to strip material, Application of. R. B. Frost. 2,348,289; May 9.
Locking device. W. C. Welch. 2,348,373; May 9.
Lubricant containing metal compounds. S. P. Waugh. 2,348,317; May 9.
Lubricated valve. C. I. Hummer. 2,348,476; May 9.
Lubricated valve. D. M. Knox. 2,348,481; May 9.
Lubricating system for valve assemblies. A. J. and K. T. Penick. 2,348,642; May 9.
Lubrication. W. L. Finley and J. H. Kirk. 2,348,461; May 9.
Machine for grinding racks. S. G. Brady. 2,348,281; May 9.
Magazine for safety razor blades. J. Muros. 2,348,303; May 9.
Magazine work holding fixture. P. M. Preziosi. 2,348,644; May 9.
Magnet structure. L. H. Matthias. 2,348,556; May 9.
Magnetic seismometer. O. S. Petty. 2,348,225; May 9.
Masher, Burr. F. D. Dolan. 2,348,283; May 9.
Mask, Jointed rubber-covered. J. M. Escher. 2,348,335; May 9.
Mask, Oxygen. W. M. Boothby and A. H. Bulbulian. 2,348,277; May 9.
Mast, Retractable. H. N. Ekbom and L. H. Crow. 2,348,285; May 9.
Match pack holder. E. R. Buchignani. 2,348,600; May 9.
Measuring device for fabric finishing machines. F. J. Couch. 2,348,330; May 9.
Measuring instrument. F. M. Poole. 2,348,643; May 9.
Mechanism for supplying yarn and thread to the needles of knitting machines. T. C. Bromley and A. Shortland. 2,348,598; May 9.
Metal articles, Forming sheet. D. W. Thomas. 2,348,663; May 9.
Metal clamp. L. A. Burrows and J. B. Loe. 2,348,326; May 9.
Microphone. H. F. Olson. 2,348,356; May 9.
Minerals, Recovering. H. L. Reed. 2,348,360; May 9.
Modulation system. J. J. Antalek. 2,348,585; May 9.
Molding process, Briquetting press. W. Ernst and L. S. Hubbert. 2,348,197; May 9.
Motor: *See*—
Automatic wind motor. Fluid motor.
Motor. J. J. Gough. 2,348,341; May 9.
Mounting: *See*—
Induction coil mounting.
Movements of valves or other elements, Controlling. S. Hedgecock. 2,348,383; May 9.
Necktie rack. W. Vonschott. 2,348,271; May 9.
Network, Variable attenuation. P. H. Richardson. 2,348,572; May 9.
Nut, Lock. I. Richardson. 2,348,308; May 9.
Oil seal. J. A. Antonelli. 2,348,586; May 9.
Oil well pumping means. C. E. Bridwell. 2,348,241; May 9.
Oil with low pour points, Producing. B. Engel. 2,348,459; May 9.
Oils, Conversion of hydrocarbon. E. D. Reeves. 2,348,646; May 9.
Oils, Producing white. C. A. Cohen. 2,348,609; May 9.
Oils, Refining mineral. A. P. Hewlett and H. C. Paulsen. 2,348,623; May 9.
Opaque sheet material. W. R. Collings and T. A. Kauppi. 2,348,672; May 8.
Optical objective. A. Warmisham. 2,348,667; May 9.
Ore separating apparatus. J. F. Kellerman. 2,348,479; May 9.
P-nitroaryl-disulphimides, Manufacture of. E. Schirm. 2,348,226; May 9.
Package, Ever-ready carrier-contained photographic-equipment. F. S. Grover. 2,348,620; May 9.
Packaging. D. R. La Place. 2,348,551; May 9.
Packing machinery. A. G. Rose. 2,348,650; May 9.
Packing structure and packing. C. Lindley, Jr., C. H. Goodyear, and W. H. Thomas. 2,348,397; May 9.
Paint material, Recovery of sprayed. H. E. Hoffman. 2,348,625; May 9.
Paper. C. F. Van Epps. 2,348,686; May 9.
Paper, Adhesive. B. L. Kline. 2,348,220; May 9.
Paper, Wetproof cigarette. A. M. Bond, Jr. 2,348,324; May 9.
Paste mold machine for forming hollow glass blanks into finally blown articles. B. H. Koob. 2,348,347; May 9.
Phonograph. I. L. Stephan. 2,348,660; May 9.
Photographic images, Production of color. A. Fröhlich, W. Schneider, and W. Zeh. 2,348,463; May 9.

Photographic printing apparatus. W. F. Drehs. 2,348,457; May 9.
Pinking machine. K. A. Doehm. 2,348,529; May 9.
Pipe and making same. F. F. Jenkins. 2,348,477; May 9.
Pit lining, Salt water. J. C. Becker. 2,348,320; May 9.
Plaster ear, Adjustable. M. B. Austin, Jr. 2,348,318; May 9.
Plastic trim. C. E. Slaughter. 2,348,658; May 9.
Plate, Scuff. J. S. Reid. 2,348,648; May 9.
Plywood structure. F. M. Weir and P. M. Dolan. 2,348,703; May 9.
Pocket calculating device. A. M. Josepho. 2,348,299; May 9.
Polymerization in metal molds. R. D. Freeman. 2,348,677; May 9.
Porous abrasive article. H. R. Houchins. 2,348,474; May 9.
Portable recess cutter. R. B. Ogren. 2,348,406; May 9.
Post binder. C. C. Wall. 2,348,430; May 9.
Pot, Quench. O. C. Trautman and W. H. Wood. 2,348,232; May 9.
Potato chips, Packaging. R. W. Wheeler. 2,348,509; May 9.
Pour cap for bottles. G. Darnell. 2,348,527; May 9.
Power plant. L. Birkigt. 2,348,518; May 9.
Power saw. W. H. Deacon. 2,348,612; May 9.
Press: *See*—
Electrically controlled hydraulic press.
Press and the like. V. W. Peterson and O. J. Maha. 2,348,439; May 9.
Press roll drive. L. Hornbostel. 2,348,345; May 9.
Press structures, Making. J. A. Muller. 2,348,403; May 9.
Pressing machine. R. H. Reece and A. G. Gilbert. 2,348,264; May 9.
Printing telegraph apparatus. E. A. Gubisch. 2,348,214; May 9.
Public address system. K. S. Johnson. 2,348,629; May 9.
Pulp product production. L. M. Wiley. 2,348,272; May 9.
Pump: *See*—
Centrifugal pump. Variable delivery vane pump.
Fuel pump.
Liquid pump.
Pump. W. W. Groves. 2,348,679; May 9.
Pump assemblage. E. M. Pfauser. 2,348,412; May 9.
Punch. F. B. Graham. 2,348,380; May 9.
Rack: *See*—
Necktie rack.
Rack. R. P. and F. L. Lorey. 2,348,398; May 9.
Rack for photo-templates, Storage. L. L. Pierce. 2,348,414; May 9.
Radiography, Compounds for use in. W. H. Strain, J. T. Plati, and S. L. Warren. 2,348,231; May 9.
Railway car. E. G. Goodwin. 2,348,376; May 9.
Railway traffic controlling apparatus. H. C. Vantassel. 2,348,580; May 9.
Rayon, Manufacture of. J. J. Polak. 2,348,415; May 9.
Razor, Safety. J. R. Ayotte. 2,348,590; May 9.
Receptacle: *See*—
Food storage receptacle.
Reel: *See*—
Hose reel.
Refrigerating apparatus. E. D. Drake. 2,348,195; May 9.
Refrigerating apparatus. M. J. Goulooze. 2,348,379; May 9.
Refrigeration. G. M. Blomqvist and S. F. Torstensson. 2,348,596; May 9.
Refrigerator construction. C. R. Quinn. 2,348,645; May 9.
Regulator: *See*—
Fluid pressure regulator. Generator voltage regulator.
Regulator for automotive generators. W. J. Rady. 2,348,263; May 9.
Relay. R. M. Heintz. 2,348,541; May 9.
Remote control apparatus. F. M. Schmidt and G. G. Smith. 2,348,312; May 9.
Remote control relay. W. F. Woodin. 2,348,432; May 9.
Removable tire cover. H. L. Hollis. 2,348,256; May 9.
Repeater, Impulse. H. G. Evers and G. Elliott. 2,348,198; May 9.
Retarding means for railway car doors. A. E. Small. 2,348,369; May 9.
Retarding means for railway car doors. J. S. Swann. 2,348,370; May 9.
Roaster, Baster. G. Wells. 2,348,507; May 9.
Roaster for stoves. B. B. Kahn. 2,348,545; May 9.
Roll, Billy. C. J. Klein. 2,348,258; May 9.
Roller coating. J. S. Thompson. 2,348,698; May 9.
Roller, Road. A. H. Bayer. 2,348,445; May 9.
Rolls for spinning machines, Drawing. W. Beswick. 2,348,202; May 9.
Rope, Flexible composite. R. F. Warren, Jr. 2,348,234; May 9.
Rosin, Sulphonating. D. Fronmuller and B. B. Thomas. 2,348,200; May 9.
Rotary cooler. G. D. Becker. 2,348,446; May 9.
Runner gate operator. J. W. Carter and T. H. Kennedy. 2,348,521; May 9.
Safety device. G. C. Matson. 2,348,489; May 9.
Safety device for hoisting mechanism. E. G. Halby. 2,348,382; May 9.
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Shoe bottom filler. H. M. Dodge and R. J. Bush. 2,348,674; May 9.
Sign apparatus, Mechanical. A. J. Alford. 2,348,276; May 9.
Skate, Ice. R. E. Howard. 2,348,475; May 9.
Slab, Corrugated fibrocement. G. Guerci. 2,348,433; May 9.
Sleeping unit, Convertible. R. H. O'Neill. 2,348,407; May 9.
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Sound reproducing system. G. P. Brubaker. 2,348,204; May 9.
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Stretcher, Army. E. Friedlaender. 2,348,210; May 9.
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Suction roll. J. E. Goodwillie and E. E. Berry. 2,348,340; May 9.
Suitcase. M. Medoff. 2,348,436; May 9.
Sulphuric acid containing dissolved nitrobodies, Process of and apparatus of treating. F. F. Chapman, R. F. Peterson, and C. A. Woodbury. 2,348,328; May 9.
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Suspension for refractory walls. A. K. Spalding. 2,348,314; May 9.
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Terpene derivatives. A. L. Rummelsburg. 2,348,575; May 9.
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Textile fiber and producing. J. G. Little. 2,348,552; May 9.
Thread cutter for sewing machines. O. R. Haas. 2,348,381; May 9.
Three dimensional pantograph machine tool. H. Klema. 2,348,632; May 9.
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Trailer hitch. J. A. Fears. 2,348,533; May 9.
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Tube type flash boiler water heating device. J. R. Wilson. 2,348,668; May 9.
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Undergarment. C. Bullinger. 2,348,242; May 9.
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Valve for pressure type atomizers, Automatic. O. S. Elliott. 2,348,248; May 9.
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Welt insoles, Making. W. C. Wright. 2,348,583; May 9.
Wheel. H. T. Kraft and J. I. Kozopas. 2,348,550; May 9.
Wheel dresser, Grinding. E. W. Miller. 2,348,354; May 9.
Wind box for sintering machines. C. H. Harris. 2,348,294; May 9.
Windlace and panel trim retainer, Combined. D. C. Bailey. 2,348,319; May 9.
Windshield cleaner system. E. C. Horton and A. Rappl. 2,348,346; May 9.
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Wire connecting device O. S. A. Mesch. 2,348,558; May 9.
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Wood filler. H. Green and E. F. Fullam. 2,348,619; May 9.
Xylenes, Separating P. J. Cole and G. W. Burtt. 2,348,329; May 9.

CLASSIFICATION OF PATENTS

ISSUED MAY 9, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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263— 34: 2,348,673
44: 2,348,446
265— 44: 2,348,520
266— 5: 2,348,501
6: 2,348,232
15: 2,348,294
38: 2,348,521

266—	43: 2,348,395	274—	10: 2,348,506	286—	11: 2,348,405	294—	87: 2,348,187	299—140.1: 2,348,568	312—	33: 2,348,472
268—	3: 2,348,306	280—11.18: 2,348,475		288—	3: 2,348,586		116: 2,348,563	301— 6: 2,348,550		80: 2,348,442
	44: 2,348,369	33.9: 2,348,533			2,348,587	296—	20: 2,348,210	304— 27: 2,348,661		89: 2,348,449
270—	.77: 2,348,605	33.44: 2,348,655		290—	40: 2,348,302		44: 2,348,319	308— 237; 2,348,293		163: 2,348,416
271—	2.3: 2,348,355	145: 2,348,269		292—	68: 2,348,370		137: 2,348,579	238: 2,348,274	314—	64: 2,348,259
	2.5: 2,348,456	277: 2,348,485			263: 2,348,654	299—	84: 2,348,334	2,348,275	315—	144: 2,348,652
273—	11: 2,348,267	281— 1: 2,348,295			304: 2,348,426		88: 2,348,419	311— 52: 2,348,371	320—	28: 2,348,263
	44: 2,348,540	26: 2,348,421			321: 2,348,627		2,348,420	312— 28: 2,348,640		
274—	10: 2,348,257	284— 4: 2,348,478		294—	78: 2,348,309		97: 2,348,190	31: 2,348,488		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,348,184: 250—	145	2,348,262: 29—	96	2,348,343: 71—	49	2,348,429: 30—	287	2,348,577: 211—	137	2,348,652: 315—	144
2,348,190: 299—	97	2,348,263: 320—	28	2,348,355: 271—	2.3	2,348,436: 190—	49	2,348,586: 288—	3	2,348,664: 210—	43
2,348,194: 75—	88	2,348,272: 18—	47.5	2,348,358: 204—	36	2,348,437: 217—	46	2,348,617: 240—	1	2,348,665: 173—334.1	
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2,348,238: 4—	192	2,348,317: 252—	37	2,348,397: 217—	28	2,348,561: 160—	135	2,348,631: 141—	1	2,348,682: 259—	173
2,348,240: 102—	7.2	2,348,320: 61—	1	2,348,417: 260—	146	2,348,574: 21—	92	2,348,633: 155—	139	2,348,701: 196—	53

CLASSIFICATION OF DESIGNS

D 1—12: Des. 137,874	D26— 1: Des. 137,886	D34— 5: Des. 137,873	D48—23: Des. 137,888	D71— 1: Des. 137,862	D86—10: Des. 137,884
D 3—13: Des. 137,892	D31— 4: Des. 137,876	D44— 9: Des. 137,881	D52— 3: Des. 137,878	Des. 137,889	D87— 3: Des. 137,864
26: Des. 137,893	D33—14: Des. 137,861	15: Des. 137,887	Des. 137,879	Des. 137,891	Des. 137,868
D 7— 3: Des. 137,872	Des. 137,875	D45— 9: Des. 137,871	D54—12: Des. 137,880	D74—17: Des. 137,860	Des. 137,869
D14—14: Des. 137,882	Des. 137,877	16: Des. 137,865	D58—17: Des. 137,890	Des. 137,866	Des. 137,870
D17— 1: Des. 137,859	D34— 5: Des. 137,863	D48—20: Des. 137,885	D61— 1: Des. 137,883	Des. 137,867	

U. S. GOVERNMENT PRINTING OFFICE: 1944

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Patents	529	—No. 2,348,704 to No. 2,349,232, inclusive.
Designs	47	—No. 137,894 to No. 137,940, inclusive.
Total	811	

Adjudicated Patents

(D. C. N. J.) Marcalus patent, No. 1,843,429, for mounting cutters on box blanks, *Held* infringed. *Automatic Paper Machinery Co.* v. *Marcalus Mfg. Co.*, 54 F. Supp. 105.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed.

Pat. 2,204,988, Jules Haltenberger, Suspension means for drive axles, decided March 3, 1944, claims 8, 9, 17, 18 and 19.

Pat. 2,204,989, Jules Haltenberger, Suspension means for drive axles, decided March 3, 1944, claims 1, 3 and 5.

Pat. 2,306,153, Josef Biermanns, Kuno Bauerschmidt and Willy Mutschke, Electric circuit interrupting device, decided April 14, 1944, claim 9.

Disclaimers

Re. 21,051. *John T. Davidson*, Dayton, Ohio. ACCOUNTING MACHINE. Patent dated April 18, 1939. Disclaimer filed April 20, 1944, by the assignee, *The National Cash Register Company*.

Hereby enters this disclaimer to claims 1, 27, 44, 45, 46, 48, 54, 55, and 56 in said specification.

2,278,868.—*Alden J. Deyrup*, Elizabeth, N. J. GLASS COLORS OF HIGH ALKALI RESISTANCE. Patent dated April 7, 1942. Disclaimer filed April 13, 1944, by the assignee, *E. I. du Pont de Nemours and Company*.

Hereby enters this disclaimer to claim 17 of said Letters Patent.

2,288,916.—*Robert L. Muller*, Detroit, Mich. CALCULATING MACHINE. Patent dated July 7, 1942. Disclaimer filed April 15, 1944, by the assignee, *Burroughs Adding Machine Company*.

Hereby enters this disclaimer to claims 14, 15, and 16 of said Letters Patent.

2,306,153.—*Josef Biermanns*, Berlin-Friedrichshagen, *Kuno Bauerschmidt*, Berlin-Karlshorst, and *Willy Mutschke*, Fredersdorf, near Berlin, Germany. ELECTRIC CIRCUIT INTERRUPTING DEVICE. Patent dated December 22, 1942. Disclaimer filed April 21, 1944, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claim 9 of said patent.

2,342,765.—*Carlton D. Stewart*, Wilkinsburg, Pa. VARIABLE LEAD BRAKE. Patent dated February 29, 1944. Disclaimer filed April 20, 1944, by the inventor; the assignee, *The Westinghouse Air Brake Company*, consenting.

Hereby enters this disclaimer to claim 7 in said patent.

Condition of Applications Under Examination at Close of Business April 29, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 44,704; Trade-Mark Division, 1,360. Oldest new case, May 26, 1943; oldest amended, May 10, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Dec. 18	Dec. 6	418
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Nov. 1	Oct. 16	535
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Sept. 15	Sept. 11	966
4. BISHOP, WALTER C., Conveyers; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 13	Oct. 11	456
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Sept. 14	Sept. 11	1,029
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 13	Sept. 25	1,138
7. JARBOE, C. G., Optics, Photography	Dec. 20	Nov. 30	734
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 10	Dec. 9	446
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Nov. 10	Nov. 6	674
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 9	Dec. 11	276
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Aug. 17	July 30	984
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Nov. 13	Nov. 20	535
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 13	Dec. 21	604
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Oct. 23	Nov. 30	769
16. SPENCER, C. J., Telegraphy; Telephony	Dec. 4	Nov. 25	553
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 18	Aug. 16	517
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 26	May 10	847
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Nov. 4	Nov. 12	552
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Dec. 10	Nov. 23	383
21. THOMPSON, T. J., Textiles	Dec. 10	Nov. 1	398
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Sept. 8	Sept. 8	1,117
23. BARROWS, B., Cash Registers; Calculators (part)	July 10	July 6	174
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 10	Nov. 11	569
25. BLAKELY, C. F., Classifying Solids: Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Oct. 27	Oct. 26	727
26. YOUNG, R. R., Electricity—Generation and Motive Power	Aug. 6	Aug. 2	914
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 16	Aug. 18	487
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Aug. 23	July 31	703
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 27	Nov. 2	702
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Aug. 4	Aug. 10	1,040
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 19	Nov. 16	1,080
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 11	Oct. 30	592
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Dec. 11	Dec. 13	616
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 6	Aug. 13	517
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Dec. 7	Nov. 30	446
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Dec. 22	Dec. 24	381
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 18	Aug. 10	682
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 20	Aug. 24	481
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 25	Dec. 1	642
40. DRUMMOND, E. J., Receptacles (part): Packages	Dec. 10	Dec. 14	605
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines: Check-Controlled Apparatus.	Aug. 30	Sept. 9	416
42. MARANS, H., Electric Signaling	Dec. 14	Dec. 4	346
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions: Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Oct. 20	Sept. 20	744
44. HARVEY, L. P., Refrigeration; Preserving	Sept. 22	Sept. 1	412
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication: Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Oct. 28	Oct. 11	988
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Oct. 15	Oct. 4	481
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Dec. 8	Nov. 15	605
48. ROEFKE, O. B., Electricity, General Applications; Electric Igniters	Sept. 17	Sept. 18	821
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Oct. 9	Oct. 14	652
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Oct. 14	Oct. 15	1,360
51. CROCKER, A. W., Radiant Energy, Multiplex Telephony, Modulators	Oct. 1	Oct. 1	1,338
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Nov. 1	Sept. 2	732
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies; Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Oct. 25	Oct. 20	402
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 4	June 10	768
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Aug. 21	Sept. 1	650
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Oct. 20	Oct. 25	768
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail; Screw, Chain, and Horseshoe Making; Driving and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 10	Sept. 9	740
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Oct. 22	Nov. 22	655
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 14	Sept. 14	1,305
60. GLASS, R. L., Electricity, Heating; Welding; Furnaces; Batteries and their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats, Prime Mover Dynamo Plants.	Aug. 30	Aug. 30	721
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Aug. 18	Oct. 25	455
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 30	Nov. 29	742
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 1	Aug. 27	917
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 12	Dec. 7	1,056
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	July 23	July 23	869
Trade-Marks: RICHMOND, F. A	†Mar. 8	†Mar. 8	1,360
Designs: KALUPY, H. H.	†Mar. 20	†Apr. 5	472

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

DRIGGS ET AL. *v.* CLARK

No. 4,808. Decided January 4, 1944

[— F.(2d) —]

1. APPEAL—REVIEW OF FINDINGS AFFECTING APPELLEE.
Where the Examiner of Interferences accorded Clark a conception date of "at least as early as December 14, 1936" but the Board of Appeals accorded him a conception date of December 17, 1936 *Held* that Clark, as appellee before the Court of Customs and Patent Appeals, was entitled to have that court consider the date accorded him by the Examiner of Interferences.

2. INTERFERENCE—ORIGINALITY.
Evidence reviewed and *Held* to establish that Driggs et al. derived the invention in issue from Clark, the original inventor, and that priority properly was awarded to Clark.

APPEAL from the Patent Office. Affirmed.

Mr. Robert H. Wendt (*Mr. Albert G. McCaleb* and *Mr. J. David Dickinson* of counsel) for Driggs et al.

Mr. Clarence J. Loftus (*Messrs. Loftus, Moore, Olson & Trexler* of counsel) for Clark.

GARRETT, *P. J.:*

This is an appeal by Driggs et al. (joint inventors) from the decision of the Board of Appeals of the United States Patent Office affirming the award of priority to the party Clark by the Examiner of Interferences in an interference declared by the Primary Examiner June 7, 1939.

A third party (joint inventors) was originally involved but was eliminated by judgment on the record.

The interference is between the application, Serial No. 140,778, of Driggs et al. (assigned to the Fansteel Metallurgical Corporation of Chicago, Illinois, employer of Driggs et al.) filed May 5, 1937, and the application, Serial No. 168,899, of Clark (assigned to the Magnavox Company of Fort Wayne, Indiana), filed October 14, 1937.

As the junior party the burden rested upon Clark to establish his case by a preponderance of the evidence, and testimony was taken in his behalf. Testimony was also taken on behalf of Driggs et al., but as the case is presented before us reliance is placed solely on the filing date of the application—May 5, 1937.

The subject matter relates to electrolytic condensers, particularly to alleged improvement in the structure of a film-forming electrode on an anode. Two counts are involved which read:

> 1. A porous electrolytic condenser element made up of a rigid self-supporting homogeneous sintered body of discrete valve metal particles bonded together.
> 2. A porous electrode for electrolytic condensers, comprising a self-supporting porous mass of finely divided particles of tantalum permanently conductively attached to each other at spaced points on their surface.

While, as stated above, the Board affirmed the award of priority to Clark by the Examiner of Interferences, it disagreed as to certain of the latter's findings.

The Examiner of Interferencs awarded Clark a conception date of

"at least as early as December 14, 1936,"

but awarded him no date for actual reduction to practice, and found absence of proof of diligence on the part of Clark, finally saying,

> "* * * in so far as the priority proofs are concerned, the party Clark has failed to establish that he was the prior inventor."

He held, however, that Driggs et al. derived the invention from Clark. So, in fact, his decision in the final analysis, turned solely upon the question of originality.

The Board disagreed with the holding of the Examiner of Interferences respecting Clark's conception date (December 14, 1936), but awarded him a conception date of December 17, 1936. It also disagreed with the holding of the Examiner of Interferences to the effect that Clark had not reduced the invention to practice prior to the filing date of the application of Driggs et al., and held that Clark reduced the invention to practice December 22, 1936, saying:

> It appears to us that Clark has proved his priority case by a preponderance of the evidence especially where Driggs et al. made no attempt whatever to establish priority of conception or a prior actual reduction to practice.

So, it appears that the decision of the Board awarding priority to Clark is based primarily upon its finding of Clark's prior conception and reduction to practice. However, it went further and, in effect, approved the finding of the Examiner of Interferences on the question of originality, saying:

> We are also satisfied that Driggs et al. obtained their information as to the broad counts in issue from Clark. It is clear from the Driggs record that whatever they may have invented over Clark was not completed until May, 1937.

It will be observed that the date awarded Clark by the Board for conception (December 17, 1936) is only three days later than that (December 14, 1936) awarded him by the Examiner of Interferences (the respective awards being made upon the basis of different exhibits), and that the date awarded him for reduction to practice (December 22, 1936) is only five days later than that awarded him (by the Board) for conception.

Particular attention has been called to the foregoing dates because of the question of originality upon which the tribunals of the Patent Office agreed, although they differed as to Clark's conception date.

It seems to us that upon the question of originality the precise date of Clark's conception is of primary importance. We say this because it is obvious from the record that whatever disclosure may have been made by Clark from which Driggs et al. may have derived the invention were made on either December 15, 1936, or December 16, 1936, on one or the other of which dates Clark personally went to the Fansteel Metallurgical Corporation to procure a slug of porous tantalum. He there con-

tacted Mr. Frederick L. Hunter, chief engineer of the tantalum division of the Fansteel Metallurgical Corporation. It is alleged (and the Examiner of Interferences held) that Clark then disclosed to Hunter his conception of the invention and that Driggs et al. received knowledge of such conception from Hunter. No other date of such disclosure by Clark to officials or employees of the Fansteel Company is alleged, claimed, or shown in the record.

Obviously, if the Board's holding meant that Clark did not conceive the invention earlier than December 17, 1936, and was correct, Clark could not have made disclosure of it to Hunter on December 15, or December 16, 1936, and there would seem to be no basis in the record for the Board's conclusion on the question of originality, notwithstanding the fact that Driggs et al. in their brief before us concede that the Board's finding of conception by Clark on December 17, 1936 "is not a contested question."

It is contended, in substance, on behalf of Driggs et al. that the Board correctly overruled the holding of the Examiner of Interferences accrediting Clark with a conception date as of December 14, 1936. The Driggs et al. brief (page references omitted) states:

> The party Clark established as of December 14, 1936 his authorship of a notebook page * * *, which he contends evidences a conception of the invention. The Examiner of Interferences held it satisfied the counts * * *; the Board of Appeals held it did not * * *. This is a question in issue.

[1] While Clark did not appeal from the Board's decision awarding him December 17, 1936, as the earliest date for conception, it is the well settled practice that he, as appellee, is entitled to have us consider the date awarded him by the Examiner of Interferences, and we have accordingly examined the proofs upon which the finding of the Examiner of Interferences in that regard was based.

It was based primarily upon a description written by Clark in longhand in his notebook, and dated December 13, 1936, the same being witnessed by J. K. Nieh and Ralph W. Clark, under date of December 14, 1936. A photostatic copy is embraced in the record as Clark's Exhibit 1. It appears that Ralph W. Clark, who was an employee of the Magnavox Company, is not related to appellee. He was called as a witness and testified that he signed the document on December 14th. Nieh appears to have been in a foreign country at the time this testimony was taken and his testimony could not be obtained. It is conceded in the brief for Driggs et al. before us that Clark established authorship of the notebook page, as of December 14, 1936, and its authenticity is not in question, the only question raised concerning it being that it does not satisfy the counts, and hence does not evidence conception.

The notation reads in full:

> "New Ideas.
>
> "Dec. 13, 1936 conceived idea of compressing filming metal powders to form a porous anode for electrolytic condenser to obtain a high capacity from a small volume of anode. Powders may be all of one kind or a mixture of two or more may be used also a mixture of equal sized particles or unequal sized. Further a mixture of aluminum and magnesium, tantalum and magnesium, berrylium and magnesium or two or more suitable filming metals may be used with magnesium added and any of these magnesium bearing mixtures may be heated in a controlled atmosphere (after being first compressed) to cause the magnesium to combine with oxygen thus leaving a porous mass of filming metal which at the same time will have its particles fused together due to the heat from the reaction between the magnesium and oxygen. These anodes may be in such a shape as to give a condenser having a minimum power factor.
> "Conceived by R. U. Clark, Dec. 13, 1936.
> "Witnessed by J. K. Nieh, Dec. 14, 1936.
> "Witnessed by Ralph W. Clark, Dec. 14, 1936."

It will be observed that count 1 of the issue requires a

> "* * * *sintered* body of discrete valve metal particles bonded together"

and that count 2 requires a

> " * * * porous mass of finely divided particles of tantalum permanently conductively attached to each other *at spaced points* on their surface." [Italics ours.]

In his decision the Examiner of Interferences did not comment upon the meaning of those limitations, but the Board, referring to Clark's Exhibit 1, said:

> We find nothing in this exhibit which relates to a homogeneous sintered body or finely divided particles of tantalum permanently conductively attached to each other *at spaced points* on their surface. [Italics quoted.]

However, the Board then discussed Clark's Exhibit 2 (upon which its award of conception as of December 17, 1936, was apparently based) which consists of an interoffice communication, reading as follows:

> *(Interoffice communication)*
>
> Attention of J. I. Cornell. Date Dec. 17, 1936.
> Copies to S. S. Sondles. Subject: Porous Anodes.
>
> As a matter of record may I advise that I called on Fansteel Co. in North Chicago yesterday, and ordered a few square inches of pressed sintered tantalum powder with which to make porous anodes along the lines suggested to you the other day, and as covered by my notes in my lab. book.
>
> This material is sufficiently porous to filter water through, and is the base from which they make tantalum metal, therefore much less expensive than the latter. As you know pressed powdered metal is fairly strong and porous, and when sintered it is stronger and more porous.
>
> As I mentioned to you my idea is to try various filming metals in pressed powder form, and also to press and heat various mixtures of filming metals, that include a percentage of magnesium, then flash off the latter leaving a very porous form of metal which should give a very high capacity in a very small volume of material in electrolytic condensers. This tantalum powder sintered being readily available seemed well worth testing.
>
> I expect to have the above mentioned material shortly. I also obtained a great deal of information relative to tantalum during my visit.
>
> Sincerely,
> R. U. CLARK.
> (Signed) R. U. CLARK.

In its discussion, the Board, citing the testimony, said:

> Clark Exhibit No. 2 indicates a conference with the Fansteel Company on December 16, 1936, relative to pressed *sintered* tantalum powder for a porous anode. We believe it fair to conclude that Clark had an idea of *using a porous tantalum electrode* in an electrolytic condenser before he called on Fansteel. The reason for this visit to Fansteel was obviously to seek a source of readily available porous tantalum and Clark thought that the *sintered tantalum would be well worth testing* * * *. This is confirmed by O'Connor * * *. [Italics ours.]

We deduce from the foregoing that while it was the Board's view that Clark's Exhibit 1 was not of itself a disclosure of the particular elements of the counts above described, he nevertheless had the ideas embraced in them in mind before he called on Fansteel.

However that may be, it must be held upon the record before us that unless conception of the counts is found in Clark's Exhibit 1, there was no disclosure of their subject matter to Hunter at the time alleged since there is no satisfactory evidence that Clark sought to obtain from Hunter any material other than that described in that exhibit.

We have, therefore, quite carefully studied Clark's Exhibit 1.

It does not use the word "sintered," but, as we view it, the mere fact that the word itself was not used therein is unimportant. The exhibit clearly discloses conception of a porous anode (the porous feature being new to the art) for an electrolytic condenser, to be composed of metallic powders either "all of one kind or a mixture of two or more [kinds]," tantalum being specifically named as one material suitable for use, and describes a process (heating in a controlled atmosphere after being compressed) which results in the production of a "porous mass of filming metal which at the same time will have its particles fused together * * *." It is clear, we think, that Clark's conception was of a product composed of particles so fused that the product as a whole remained porous. No other construction appears reasonable, and it seems to us that such a product of necessity would be sintered in that the particles of material are so permanently attached to each other through the application of heat that a porous self-supporting structure results.

It is clear from the testimony of both Clark and Hunter that the former went to the plant of the Fansteel Company for the purpose of obtaining a slug, or piece, of porous tantalum for condenser use, and it is conceded that he received it and used it a few days later in the tests of December 22, 1936. We do not think it important whether or not the word "sintered" was used in the conversation between Clark and Hunter because that which Clark obtained was necessarily a sintered product, in the sense above described, which clearly is the sense in which the word "sintered" is used in count 1.

With regard to the limitation in count 2 respecting the particles being conductively attached to each other "*at spaced points*" (as italicized by the Board) on their surface, it seems clear to us that this feature is of necessity inherent in the product as described in Clark's Exhibit 1. It obviously results from the process described in the exhibit.

[2] We, therefore, agree with the finding of the Examiner of Interferences that Clark is entitled to an award of conception as of December 14, 1936, and the question, so far as originality is concerned, is whether he disclosed this conception to Hunter on either December 15, or December 16, 1936, on one or the other of which dates (the Examiner of Interferences named December 15) the conversation between them took place.

The Board did not review the testimony bearing upon this phase of the controversy but merely stated, in the language above quoted, its agreement with the conclusion of the Examiner of Interferences regarding it. The latter reviewed the record at considerable length and we quote the following from his decision:

> It appears * * * that the question of originality and derivation of the invention by Driggs et al. from Clark is raised by reason of the fact that Clark visited the Fansteel Company, the assignee of the Driggs et al. application, on December 15, 1936 and disclosed to Hunter the subject matter of the invention in issue, namely, the use of porous tantalum as an electrolytic condenser anode.
>
> Howard, one of the joint inventors, testified that at about the time of his development work he learned of Clark's work through the call report circulated by Hunter * * *. The development work which Howard testified about seems to relate to the etching and sand blasting of tantalum anodes and does not constitute the subject matter in issue but is matter which was old in the art prior to the discovery of the utility of the porous tantalum anode. Hunter testified, as heretofore stated, that Clark visited him on December 15, 1936 and while he states that he was not sure that Clark disclosed to him at this time that he would use the porous tantalum as a condenser anode, he seems to indicate that he had the idea at that time that the device would be used for this purpose. Clark, on his part, states that he disclosed the use to Hunter.
>
> While the call report has not been introduced in evidence, due to an objection on behalf of counsel for the party Clark, the testimony as it is adduced both in the record for Clark and the record for Driggs et al., indicates that Clark disclosed the invention to the assignee of Driggs et al. prior to any conception on behalf of Driggs et al. and that this conception was known to at least one of the joint inventors prior to any conception by them. The conclusion is inescapable, therefore, that Driggs et al. derived the invention from Clark. *Vidaver* v. *Sherman*, 54 App. D. C. 173, 295 Fed. 994, 325 O. G. 221.
>
> Driggs et al. contend that the record does not show derivation by reason of the fact that Driggs et al. improved the Clark idea by obtaining a more porous tantalum anode by a careful processing method. This, however, is a mere mechanical improvement well within the realm of skill in the art and the conception of the broad idea as it is defined in the counts is obviously that of Clark and not of Driggs et al. In fact, Driggs et al. in uncorroborated testimony do not even allege a conception on their part but merely state that the first porous anodes were made by them in the latter part of January, 1937, well after the disclosure to them by Clark.

We have carefully examined the record in the light of the briefs and the oral arguments made before us, and we see no reason to disagree with the holdings so made relative to either the facts or the law.

Under this view, it is unnecessary for us to pass upon the question of Clark's reduction to practice upon which the tribunals of the Patent Office disagreed.

The decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MEADE

No. 4,849. Decided February 7, 1944

[141 F.(2d) 135]

PATENTABILITY—BUILDING UNIT.

A building unit of cement-sand mix *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. James R. Hodder (*Mr. Theodore K. Bryant* of counsel) for Meade.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claim 12 of appellant's application for a patent. No claims have been allowed.

The claim before us reads as follows:

> 12. A building unit of cement-sand mix comprising a horizontal body portion along the bottom face of the unit,

formed with two solid load-carrying, fire-resistant, vertically extending outer wall sections along opposite parallel edges lengthwise of the unit, a pair of vertically extending ribs equal in height to said vertical wall sections each rib extending above the body portion adjacent the inner surface of a wall section, and spaced from each other, forming a central air chamber between said ribs, and each rib being of less thickness than that of the wall section and spaced from said wall section a distance substantially equal to the thickness of the rib, the pair of ribs thus providing a handhold, said ribs and the body portion being substantially equal in thickness throughout their extent, and the load-carrying vertical wall sections being of greater thickness than either said body portion or ribs.

The cited references are: Fiske, 1,304,552, May 27, 1919; and Hardoncourt, Jr., 1,373,238, March 29, 1921.

The Examiner, in his statement on appeal, described appellant's structure, the structure disclosed in the patent to Hardoncourt, Jr., and gave his reasons for rejecting the claim as follows:

Applicant's article comprises a cement-sand mix unit having a body portion provided on one face at two opposite sides thereof, with relatively thick load-bearing portions, and having two spaced parallel thinner ribs therebetween and spaced from said portions and defining therewith two spaced mortar receiving grooves, the two ribs constituting a handhold and the space between them providing insulation.

Hardoncourt shows a similarly constructed article, made of clay, which has air spaces in the load bearing portions to improve the burning in manufacture and the insulating thereafter. By eliminating these spaces and substituting sand-cement for clay, applicant is losing the functions which Hardoncourt specifically sought to gain over concrete blocks. Hardoncourt deformed the body to increase the resistance to heat transfer, and applicant rejects this advantage by his construction. Furthermore, the straight body would be a matter of choice as is evident from Fiske. Applicant, therefore, has simply returned to the construction which Hardoncourt attempted to improve, discarding the features which constituted the invention in Hardoncourt and adding nothing new to the art.

Appellant makes two principal contentions that the claim is patentable over the cited art, viz:

1. That the prior art relates to burning bricks from clay while appellant's product is made of a cement-sand mix which may be manufactured at the location where used, and

2. That appellant's structure has load-bearing and mortar-carrying wall faces of greater thickness than the body portion or the ribs, not disclosed by the prior art.

With respect to the first of these contentions the Board stated:

Appellant argues that in these patents the unit is not made of cement-sand mix but of clay. He also argues that the load-carrying wall sections are not the equivalent of his because they are not wide enough. He contends that the load will be carried by the mortar in the recess to a large extent.

We fail to see that in the present state of the art that any invention is involved in using cement-sand mix for making a building unit. Such a mix is used in various relations and any one in this art at present would obviously be sufficiently versed to use such a mix.

We find nothing in the record or in appellant's brief challenging the statement of the Board that a cement-sand mix is used in various relations in the building art, and we must accept it as a fact. While, as contended by appellant, the substitution of material may sometimes involve invention we may not so hold here in view of the above statement of the Board, and we are in agreement that the use of a cement-sand mix in the making of a building unit would be obvious to one skilled in the art.

With respect to appellant's second contention, that appellant's construction has load-carrying vertical wall sections of greater thickness than either the body or the ribs, which is not disclosed by the cited art, the Board, in its decision, said:

As to the alleged difference in the load-supporting section, it seems to us that this is mainly a matter of degree. Furthermore, Hardoncourt shows comparatively wide sections and describes them. In the patents and in appellant's unit the weight will be taken in part by the mortar in the recess. We are unable to see that the claim recites anything patentable over the art.

Appellant challenges the statement above quoted and in his brief referring to his application drawing said:

In the actual patent drawing, the mass of mortar is overdrawn and possibly this was confusing to the decisions of the Examiner and the Board.

The Patent Office tribunals were evidently not confused by the drawing referred to. Not only does appellant's drawing show that his side channels are filled with mortar, as in Hardoncourt, Jr., but his specification specifically supports such construction. It states:

The mason will lay a mass of mortar, spreading it roughly on top of each wall section 5—5, and filling the adjacent channel 10, and thereupon leveling off the same, and apply the adjacent superimposed unit in staggered relation, simulating an ordinary brick wall structure, as shown in Fig. 3, resulting in a horizontal mortar course 21 and vertical portion 22. Thus, the wall structure by filling the channels 10—10 with mortar and flowing the same on the top of the ribs 8—8, together with the flat surface 6 of each wall section 5, gives an added strength to each wall face.

It is true that Hardoncourt, Jr., shows recesses in his wall not present in appellant's structure. As to this feature we are in accord with the view of the Examiner that in Hardoncourt, Jr., these recesses, according to his application, were deemed by him to improve his structure by making the bricks lighter, and to break up the moisture-transmitting capacity of the brick.

Appellant does not have this feature nor its function.

It is elementary that merely omitting an element of a structure of the prior art, and also its function, cannot constitute invention.

We are in accord with the view of the Board that the differences between appellant's structure and that of Hardoncourt, Jr., involved only a matter of choice or skill, and do not, in view of the patent to Fiske, render the claim patentable.

We have not found it necessary to discuss the Fiske patent, for it was relied upon only for the feature referred to by the Examiner and hereinbefore quoted.

The decision of the Board of Appeals is affirmed.

Affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 16, 1944

[VOL. 562. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 463,775. CONTINENTAL-DIAMOND FIBRE COMPANY, Newark, Del. Filed Sept. 30, 1943.

POLYLAC

FOR BUILT-UP MICA PLATE, IN WHICH THE MICA SPLITTINGS ARE CEMENTED TOGETHER WITH AN ALKYD TYPE RESIN.

Claims use since March 1930.

Ser. No. 466,101. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Dec. 27, 1943.

Philblack

FOR CARBON COMPOUNDING MATERIAL USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER.

Claims use since Aug. 5, 1943.

Ser. No. 466,102. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Dec. 27, 1943.

Philbon

FOR CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER.

Claims use since Nov. 17, 1943.

Ser. No. 467,628. UNIVERSAL ZONOLITE INSULATION CO., Chicago, Ill. Filed Feb. 21, 1944.

SANI-FLOR

The word "Flor" is disclaimed apart from the mark as shown.

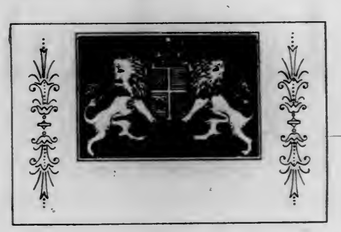
FOR POULTRY LITTER.

Claims use since Jan. 5, 1944.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 464,476. COLUMBIA-WALESCRAFT CO., New York, N. Y. Filed Oct. 28, 1943.



FOR BILLFOLDS, WALLETS, KEY CASES, CARD-CASES, PASS CASES, LEATHER WRITING CASES, DRESSING CASES, VALISES, SUITCASES, WARDROBE CASES, AND OVERNIGHT BAGS, CHANGE PURSES, MONEY BELTS, AND HAND BAGS.

Claims use since 1924.

Ser. No. 468,359. MORRIS WHITE FASHIONS, INC., New York, N. Y. Filed Mar. 16, 1944.

GADABOUT

FOR LADIES' HANDBAGS OF LEATHER, FABRIC, PLASTIC OR COMBINATIONS THEREOF.

Claims use since July 14, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 460,094. ELIOT G. FARRINGTON, doing business as Farrington Products Co., Detroit, Mich. Filed Apr. 22, 1943.

Simplex

FOR BRUSHLESS AND LATHER SHAVING CREAMS.
Claims use since Apr. 3, 1943.

Ser. No. 468,401. VELSO PRODUCTS COMPANY, Burlington, Iowa. Filed Mar. 17, 1944.

VERV

FOR SOAP IMPREGNATED PAPER.
Claims use since Jan. 1, 1943.

Ser. No. 468,487. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J. Filed Mar. 21, 1944.

Loshol

FOR SOAPS AND SHAVING CREAM.
Claims use since Mar. 1, 1944.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 462,436. ABBOTT LABORATORIES, North Chicago, Ill. Filed Aug. 2, 1943.

ISO-ALCOLO

FOR ISOPROPYL ALCOHOL RUBBING COMPOUND.
Claims use since Apr. 30, 1943.

Ser. No. 465,040. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Nov. 16, 1943.

ROCIO

FOR TOILET PREPARATIONS, PERFUMERY AND COSMETICS—NAMELY, PERFUME, TOILET WATERS, LIP STICKS, FACE POWDERS, TOILET CREAMS, AND ROUGE.
Claims use since 1933.

Ser. No. 466,709. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Jan. 19, 1944.

"PENNSALT L.F.42"

Applicant is the owner of trade-mark registration No. 392,195 for the word "Pennsalt."
FOR ELECTROPLATING SOLUTION, ELECTROPLATING ELECTROLYTE, AND LEAD FLUOBORATE ELECTROPLATING SOLUTION.
Claims use since Sept. 23, 1943.

Ser. No. 466,727. MARIA G. DE VALLS, St. Croix, Virgin Islands. Filed Jan. 20, 1944.

MARIVALS

FOR INTERNAL COMPOUNDED MEDICINE FOR THE TREATMENT OF ASTHMA.
Claims use since Oct. 15, 1939.

Ser. No. 467,534. OLD DUTCH INDUSTRIAL PRODUCTS CO., INC., Kearny, N. J. Filed Feb. 18, 1944.

BLACKACE

Applicant disclaims the word "Black" apart from the mark.
FOR LEATHER DYES.
Claims use since October 1937.

Ser. No. 467,704. LEONARD WALKER, doing business as Walker Remedy Mfg. Co., Chicago, Ill. Filed Feb. 23, 1944.

LUCKY DREAM

FOR PREPARATION IN LIQUID FORM FOR THE TREATMENT OF ACHES, PAINS, AND FROST BITES.
Claims use since 1920.

Ser. No. 468,019. FILTROL CORPORATION, Los Angeles, Calif. Filed Mar. 7, 1944.

FATROL

FOR CHEMICALLY TREATED COLLOIDAL CLAY, ADAPTED FOR USE AS A DECOLORIZING, BLEACHING, FILTERING, PURIFYING, ADSORBING, AND CATALYTIC MEDIUM.
Claims use since Feb. 1, 1944.

Ser. No. 468,020. FILTROL CORPORATION, Los Angeles, Calif. Filed Mar. 7, 1944.

Filtrol

FOR CHEMICALLY TREATED COLLOIDAL CLAY, ADAPTED FOR USE AS A DECOLORIZING, BLEACHING, FILTERING, PURIFYING, ADSORBING, AND CATALYTIC MEDIUM.
Claims use since Feb. 5, 1944.

Ser. No. 468,021. FILTROL CORPORATION, Los Angeles, Calif. Filed Mar. 7, 1944.

MONTROL

FOR CHEMICALLY TREATED COLLOIDAL CLAY, ADAPTED FOR USE AS A DECOLORIZING, BLEACHING, FILTERING, PURIFYING, ADSORBING, AND CATALYTIC MEDIUM.
Claims use since Feb. 4, 1944.

Ser. No. 468,022. FILTROL CORPORATION, Los Angeles, Calif. Filed Mar. 7, 1944.

PETROL

FOR CHEMICALLY TREATED COLLOIDAL CLAY, ADAPTED FOR USE AS A DECOLORIZING, BLEACHING, FILTERING, PURIFYING, ADSORBING, AND CATALYTIC MEDIUM.
Claims use since Feb. 29, 1944.

Ser. No. 468,029. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Mar. 7, 1944.

LAROVICAL

FOR MEDICINAL PREPARATION RECOMMENDED FOR USE IN PROPHYLAXIS AND TREATMENT OF CONDITIONS WHERE CALCIUM AND VITAMINS ARE INDICATED.
Claims use since Feb. 11, 1944.

Ser. No. 468,073. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Mar. 8, 1944.

Boileezers

FOR INERT CHEMICAL COMPOUND USED TO TAME BOILING ACTION OF LIQUIDS.
Claims use since Mar. 1, 1944.

Ser. No. 468,117. JONTHAY, New York, N. Y. Filed Mar. 9, 1944.

Jonthay

FOR PERFUMES.
Claims use since Feb. 16, 1944.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 459,797. UNITED CONVEYOR CORPORATION, Chicago, Ill. Filed Apr. 10, 1943.

NUVASEAL

FOR PLASTIC PIPE JOINT CEMENT.
Claims use since Feb. 18, 1943.

Ser. No. 462,994. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Aug. 25, 1943.

CHEMSTONE

FOR IMPREGNATED, CHEMICALLY RESISTANT ASBESTOS CEMENT SHEETS OR SLABS.
Claims use since April 1934.

Ser. No. 465,224. CLARK DOOR COMPANY, INC., Newark, N. J. Filed Nov. 23, 1943.

PRESTOMATIC

FOR MOTOR-OPERATED AUTOMATIC FOLDING DOOR.
Claims use since Nov. 9, 1943.

Ser. No. 466,794. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 22, 1944.

PLASTIFOAM

FOR THERMAL AND SOUND INSULATING MATERIAL CONTAINING A UREA FORMALDEHYDE RESIN IN SHEET OR BULK FORM.
Claims use since Dec. 1, 1943.

Ser. No. 466,795. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 22, 1944.

PLIOFOAM

FOR THERMAL AND SOUND INSULATING MATERIAL CONTAINING A UREA FORMALDEHYDE RESIN IN SHEET OR BULK FORM.
Claims use since Dec. 1, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 463,313. CLEVELAND TUNGSTEN, INC., Cleveland, Ohio. Filed Sept. 10, 1943.

Cleve Tung

FOR TUNGSTEN INGOTS, TUNGSTEN RODS, TUNGSTEN STRIPS AND FOR MATERIAL FORMED OF TUNGSTEN, COMPOUNDS OF TUNGSTEN, OR IN WHICH TUNGSTEN IS A PRINCIPAL INGREDIENT—NAMELY, TUNGSTEN POWDER, TUNGSTEN CARBIDE, AND TUNGSTEN-COPPER ALLOYS.
Claims use since May 13, 1943.

Ser. No. 467,740. YOUNGSTOWN ALLOY CASTING CORPORATION, Youngstown, Ohio. Filed Feb. 24, 1944.

GYROCAST · TRANTINYL · CENTRIFUGALLY CAST PRESSURE CASTINGS

No claim is made to the phrases "Centrifugally Cast" and "Pressure Castings" apart from the mark.
FOR STEEL AND STEEL ALLOY CASTINGS.
Claims use since July 15, 1943.

CLASS 15

OILS AND GREASES

Ser. No. 467,624. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Feb. 21, 1944.

PEARL

FOR HEATING AND ILLUMINATING OILS—NAMELY, PETROLEUM OIL FOR HEATERS, COOKSTOVES AND LAMPS, AND KEROSENE.
Claims use since 1884.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 464,781. THE J. E. HARRIS COMPANY, Wooster, Ohio, and Atlanta, Ga. Filed Nov. 6, 1943.

VELTEX

The drawing is lined for grey or silver.
FOR FLAT WALL PAINT.
Claims use since 1903.

Ser. No. 466,182. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Dec. 29, 1943.

RAZON

FOR PAINT ENAMELS.
Claims use since Apr. 11, 1928.

Ser. No. 467,511. BLOOMINGDALE BROS., INC., New York, N. Y. Filed Feb. 18, 1944.

STALWART

FOR READY-MIXED PAINTS.
Claims use since Jan. 18, 1944.

Ser. No. 468,412. FREEDOM OIL COMPANY, Freedom, Pa. Filed Mar. 18, 1944.

FOSOLENE

FOR PAINT THINNER.
Claims use since February 1943.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 459,638. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 5, 1943.

Witchcraft

FOR POWER BOATS AND ROW BOATS.
Claims use since June 13, 1939.

Ser. No. 464,811. CONSOLIDATED VULTEE AIRCRAFT CORPORATION, San Diego, Calif. Filed Nov. 8, 1943.

CONSOLIDATED VULTEE

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Aug. 20, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 459,084. RADIO DEVELOPMENT & RESEARCH CORPORATION, New York, N. Y. Filed Mar. 13, 1943.

RDR

FOR ELECTRONIC EQUIPMENT AND ACCESSORIES—NAMELY, RADIO TRANSMITTERS AND RECEIVERS, MAGNETIC TAPE RECORDING AND REPRODUCING EQUIPMENT, LOUD SPEAKERS, MICROPHONES, TELEGRAPH KEYS AND DIALS.
Claims use since Feb. 9, 1938.

Ser. No. 463,414. CONTINENTAL MOTORS CORPORATION, Detroit and Muskegon, Mich. Filed Sept. 15, 1943.

Continental

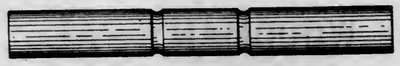
FOR POWER AND LIGHTING PLANT ASSEMBLIES, COMPRISING AN INTERNAL COMBUSTION ENGINE AND AN ELECTRIC GENERATOR DRIVEN THEREBY.
Claims use since Jan. 30, 1913.

Ser. No. 467,553. AIRCRAFT-MARINE PRODUCTS INC., Harrisburg, Pa. Filed Feb. 19, 1944.

CAPITRON

FOR ELECTRICAL CONDENSERS.
Claims use since Jan. 18, 1944, as shown; and since Nov. 19, 1943, for "Capitron" in various forms.

Ser. No. 468,467. THE NATIONAL TELEPHONE SUPPLY COMPANY, Cleveland, Ohio. Filed Mar. 20, 1944.



Applicant is the owner of trade-mark registration No. 372,856, registered Nov. 14, 1939. The trade-mark consists of two longitudinally spaced and circumferentially depressed bands around the applicant's device, and is applied there during manufacture. The representation of device forms no part of the applicant's mark.
FOR ELECTRICAL CONNECTING UNITS FOR WIRES.
Claims use since on or about Dec. 28, 1939.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 467,799. FRED ARBOGAST, Akron, Ohio. Filed Feb. 28, 1944.

Hawaiian Wiggler

The word "Hawaiian" is disclaimed apart from the mark.
FOR ARTIFICIAL BAIT.
Claims use since January 1936.

Ser. No. 467,800. FRED ARBOGAST, Akron, Ohio. Filed Feb. 28, 1944.

JITTERBUG

FOR ARTIFICIAL BAIT.
Claims use since December 1938.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 453,450. TUFF-HARD CORPORATION, Detroit, Mich. Filed June 3, 1942.

TH

FOR MACHINE TOOLS, TOOL BITS, CUTTING TOOLS—NAMELY, METAL, WOOD, AND PLASTIC CUTTING TOOLS, FORM TOOLS, DRILLS, REAMERS, HOBBING CUTTERS, PUNCHES, ROUGHING AND FINISHING TOOLS, BORING TOOLS, MILLING CUTTERS, PARTING TOOLS, DIES, JIGS AND FIXTURES FOR LOCATING WORK ON MACHINE TOOLS OR WORK PARTS IN ASSEMBLING RELATION WITH RESPECT TO EACH OTHER.
Claims use since May 25, 1942.

Ser. No. 458,876. MARTHE HELENE EHRSAM, doing business as The Victor Tool Company, Reading, Pa. Filed Mar. 3, 1943.

WOODMAN'S PAL

FOR EDGE CUTTING IMPLEMENTS OF THE MACHETE TYPE USED FOR CUTTING WOOD, SAPLINGS, BRIARS, BRUSH, AND THE LIKE.
Claims use since Feb. 1, 1933.

Ser. No. 463,479. EISENSTADT MANUFACTURING COMPANY, St. Louis, Mo. Filed Sept. 18, 1943.

John Alden

The mark is the name of one of the characters in Longfellow's poem "The Courtship of Miles Standish."
FOR POCKET KNIVES AND ELECTRIC RAZORS.
Claims use since May 25, 1942.

Ser. No. 465,717. NUTONE, INCORPORATED, Cincinnati, Ohio. Filed Dec. 11, 1943.

DISH-MAID

No claim is made to the word "Dish" apart from the mark.
FOR HYDRAULIC DISH WASHING MACHINES.
Claims use since Nov. 29, 1943.

Ser. No. 466,620. PIEZOELECTRIC CORPORATION, Flemington, N. J. Filed Jan. 15, 1944.

PIEZO

FOR GEARS, GEAR JOINTS, UNIVERSAL JOINTS, LUBRICATING FITTINGS, BRACKETS, SHAFT SUPPORTS, SHAFT HANGERS, SHAFT COUPLINGS, SHAFT COLLARS, CLUTCHES, BEARINGS, JOINT HOUSINGS, GEAR BOXES, JOINT COVERS, SHEAVES, SPROCKETS, PULLEYS, HAND WHEELS, STUFFING BOXES, SHAFTING, UNIVERSAL BLOCK TYPE COUPLINGS, UNIVERSAL GEAR COUPLINGS AND EXPANSION COUPLINGS.
Claims use since Aug. 20, 1943.

Ser. No. 467,504. THE WEAN ENGINEERING COMPANY, INC., Warren, Ohio. Filed Feb. 17, 1944.

WEAN

FOR STEEL-MILL MACHINERY, SPECIFICALLY MACHINES FOR HANDLING AND PROCESSING PLATES AND STRIP, SUCH AS ROLLER TABLES, SHEARS, CONVEYING APPARATUS FOR ELECTROLYTIC COATING LINES, COILERS, UNCOILERS AND PINCH ROLLS.
Claims use since August 1942.

Ser. No. 467,983. J. K. SMIT & SONS, INC., New York, N. Y. Filed Mar. 4, 1944.

BOROK

FOR DIAMOND BITS.
Claims use since Feb. 19, 1944.

CLASS 26
MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 467,412. THE FRED STEIN LABORATORIES, Atchison, Kans. Filed Feb. 14, 1944.

Steinlite

FOR APPARATUS FOR TESTING THE AMOUNT OF MOISTURE IN MATERIALS.
Claims use since Sept. 23, 1937.

Ser. No. 467,636. N. A. WOODWORTH COMPANY, Ferndale, Mich. Filed Feb. 21, 1944.

LIMITROL

FOR GAGE FOR MEASURING COMPARATIVE SIZES OF MACHINED PARTS OR THE LIKE.
Claims use since Jan. 21, 1944.

CLASS 37
PAPER AND STATIONERY

Ser. No. 467,525. JOSEPH M. KATZ, Pittsburgh, Pa. Filed Feb. 18, 1944.

Cowellum STATIONERY

The word "Stationery" is disclaimed apart from the mark.
FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES.
Claims use since Feb. 1, 1944.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 467,335. DOW, JONES & COMPANY, New York, N. Y. Filed Feb. 11, 1944.

THE WALL STREET JOURNAL.

No claim is made to the word "Journal" apart from the mark.
FOR DAILY NEWSPAPER.
Claims use since July 8, 1889.

Ser. No. 467,959. ASHTON B. COLLINS, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Filed Mar. 4, 1944.

REDDYONICS

FOR CIRCULARS, BOOKLETS, AND PRINTED ADVERTISING MATERIAL SOLD AS SUCH TO THE ELECTRICAL INDUSTRY.
Claims use since Feb. 18, 1944.

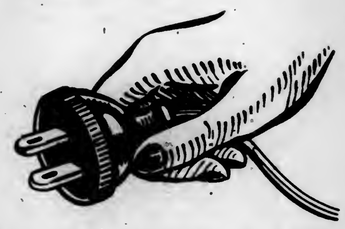
Ser. No. 467,960. ASHTON B. COLLINS, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Filed Mar. 4, 1944.

REDDYONICS



FOR CIRCULARS, BOOKLETS, AND PRINTED ADVERTISING MATERIALS SOLD AS SUCH TO THE ELECTRICAL INDUSTRY.
Claims use since Feb. 18, 1944.

Ser. No. 467,961. ASHTON B. COLLINS, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Filed Mar. 4, 1944.



FOR CIRCULARS, BOOKLETS, AND PRINTED ADVERTISING MATERIAL SOLD AS SUCH TO THE ELECTRICAL INDUSTRY.
Claims use since Feb. 9, 1944.

Ser. No. 468,119. ARTHUR MEYERHOFF & COMPANY, Chicago, Ill. Filed Mar. 9, 1944.

FREEDOM OF OPPORTUNITY

FOR A RADIO SCRIPT ISSUED PERIODICALLY.
Claims use since Jan. 14, 1944.

Ser. No. 468,173. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Mar. 10, 1944.

THE FOUR MUSKETEERS

FOR CARTOON STRIPS AND ILLUSTRATED FICTIONAL STORIES IN A PERIODICAL PUBLISHED AT INTERVALS.
Claims use since Feb. 11, 1944.

Ser. No. 468,174. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Mar. 10, 1944.

GOBS o' FUN

FOR CARTOON STRIPS AND ILLUSTRATED FICTIONAL STORIES IN A PERIODICAL PUBLISHED AT INTERVALS.
Claims use since July 1, 1942.

Ser. No. 468,176. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Mar. 10, 1944.

RED DRAGON

FOR CARTOON STRIPS AND ILLUSTRATED FICTIONAL STORIES IN A PERIODICAL PUBLISHED AT INTERVALS.
Claims use since Apr. 1, 1943.

CLASS 39
CLOTHING

Ser. No. 461,573. SMART MAID COAT CO., INC., New York, N. Y. Filed June 21, 1943.

Silver Chilla

FOR GIRLS' AND MISSES' CLOTH COATS.
Claims use since February 1937.

Ser. No. 463,671. HAYTHORNTHWAITE & SONS LIMITED, Burnley, England. Filed Sept. 27, 1943.



The center panel of the mark contains a likeness of Dr. Wilfred Thomason Grenfell, the deceased English missionary physician, famous for his medical missionary work in Labrador. Applicant disclaims the words "Cloth," "of Labrador," and "Made in England."

FOR RAINCOATS, TROUSERS, JACKETS, OVERALLS, FLYING SUITS AND SPORTS GARMENTS, ALL MADE WHOLLY OR MAINLY OF COTTON.

Claims use since Sept. 10, 1942.

Ser. No. 465,716. MANCHESTER (HOME & EXPORT) LIMITED, Manchester, England. Filed Dec. 11, 1943.

FAIRY PRINCESS

FOR CHILDREN'S COATS.

Claims use since 1942.

Ser. No. 465,984. FREEDMAN-NICOLELLI, INC., Jacksonville, Fla. Filed Dec. 22, 1943.

ORANGE BLOSSOM

FOR NURSES' AND MAIDS' UNIFORMS.

Claims use since April 1928.

Ser. No. 468,145. LEHMAN-BAER CO. INC., Baltimore, Md. Filed Mar. 10, 1944.

ASU

FOR BOYS' SUITS, SUN SUITS, OVERALLS AND SHORTS.

Claims use since Mar. 6, 1944.

Ser. No. 468,193. THE ETKIN-BANNER CO., INC., New York, N. Y. Filed Mar. 11, 1944.

Etbana

FOR WOMEN'S AND MISSES' COATS, SUITS, DRESSES, AND JACKETS.

Claims use since Mar. 1, 1944.

Ser. No. 468,223. BERKSHIRE KNITTING MILLS, Wyomissing, Reading, Pa. Filed Mar. 13, 1944.

PANEEL

FOR HOSIERY.

Claims use since Mar. 3, 1944.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 465,163. VEGETABLE IVORY BUTTON INSTITUTE, INC., New York, N. Y. Filed Nov. 19, 1943.



FOR VEGETABLE IVORY BUTTONS.

Claims use since Sept. 10, 1943.

Ser. No. 467,488. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Feb. 17, 1944.

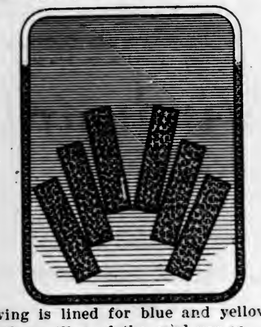


The drawing is lined for blue and yellow. No claim is made to the outline of the card per se.

FOR BOB PINS.

Claims use since September 1941.

Ser. No. 467,489. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Feb. 17, 1944.



The drawing is lined for blue and yellow. No claim is made to the outline of the card per se.

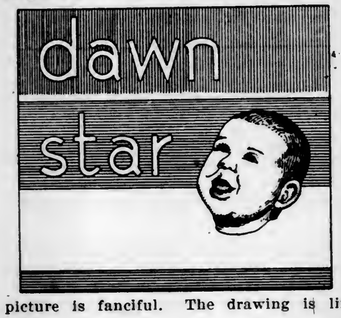
FOR BOB PINS.

Claims use since September 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 467,036. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Jan. 31, 1944.



The picture is fanciful. The drawing is lined for pink and blue.

FOR CHILDREN'S AND INFANTS' FURNISHINGS—NAMELY, BATH SHEETS, BLANKETS, TOWELS, WASH CLOTHS, AND MATTRESS PROTECTORS.

Claims use since Dec. 24, 1938.

Ser. No. 467,382. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y. Filed Feb. 12, 1944.

SOFT-SLEEP

Applicant disclaims the word "Soft" apart from the mark.

FOR PIECE GOODS OF RAYON OR COTTON AND/OR COMBINATIONS THEREOF.

Claims use since Dec. 14, 1943.

Ser. No. 467,563. THE FORSTMANN WOOLEN CO., Passaic, N. J. Filed Feb. 19, 1944.

Anitra

FOR WOOLEN PIECE GOODS.

Claims use since Jan. 3, 1922.

Ser. No. 467,596. CREST FABRICS CORP., New York, N. Y. Filed Feb. 24, 1944.

SPORTCREST

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, PROTEIN FIBRES AND COMBINATIONS THEREOF.

Claims use since June 3, 1941.

Ser. No. 467,603. EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 21, 1944.

DUBOURA

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.

Claims use since Aug. 30, 1932.

Ser. No. 467,637. I. ZENDMAN, INC., New York, N. Y. Filed Feb. 21, 1944.

NINILLE

FOR LACE AND NETTED FABRICS IN THE PIECE.

Claims use since Feb. 1, 1943.

Ser. No. 467,649. CROWN FABRICS CORPORATION, New York, N. Y. Filed Feb. 22, 1944.

CLOTHESPIN

FOR TEXTILE FABRICS IN THE PIECE MADE OF WOOL, COTTON, SILK, RAYON, AND MIXTURES THEREOF.

Claims use since Jan. 27, 1944.

Ser. No. 467,659. EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 22, 1944.

PETALDOWN

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.

Claims use since Nov. 7, 1933.

Ser. No. 468,055. WAMSUTTA MILLS, New Bedford, Mass. Filed Mar. 7, 1944.

Babycale

FOR COTTON PIECE GOODS, SHEETS AND PILLOW CASES.

Claims use since Feb. 7, 1944.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 467,432. GENERAL DESSERTS CORPORATION, New York, N. Y. Filed Feb. 15, 1944.

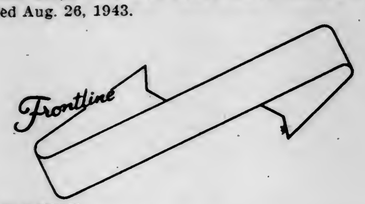
GRAPPLE

FOR FRUIT CONCENTRATE FOR MAKING A NON-ALCOHOLIC BEVERAGE.
Claims use since Jan. 5, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 463,022. JONAT CANDY CORP., Brooklyn, N. Y. Filed Aug. 26, 1943.



FOR CANDY.
Claims use since June 1, 1942.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 468,277. BROWN-FORMAN DISTILLERS CORPORATION, Louisville, Ky. Filed Mar. 14, 1944.

Windward

FOR RUM.
Claims use since Feb. 23, 1944.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 467,933. XYLON CLOSURE CORPORATION, New York, N. Y. Filed Mar. 2, 1944.

Plaxylite

FOR BOTTLE CAPS.
Claims use since Feb. 14, 1944.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 16, 1944

407,004. JUNCTION BOXES, CABINETS FOR ELECTRICAL EQUIPMENT, POWER, CONTROL, AND LIGHTING PANELS AND SWITCHES, AND ELECTRIC AND LIGHTING FITTINGS AND FIXTURES, ALL FOR USE IN BUILDING AND MARINE INSTALLATIONS, AND ELECTRIC HOISTS. NEMCO ELECTRIC COMPANY, Seattle, Wash.
Filed March 30, 1942. Serial No. 452,024. PUBLISHED MARCH 7, 1944. Class 21.

407,005. CANNED FISH. RED SALMON CANNING CO., San Francisco, Calif.
Filed June 1, 1942. Serial No. 453,401. PUBLISHED MARCH 7, 1944. Class 46.

407,006. NON-CORROSIVE AND WEAR-RESISTING PHONOGRAPH STYLI. PERMO PRODUCTS CORPORATION, Chicago, Ill.
Filed June 8, 1942. Serial No. 453,556. PUBLISHED OCTOBER 6, 1942. Class 36.

407,007. ROTATING SEAL RINGS FOR CENTRIFUGAL PUMPS AND SIMILAR ROTATING EQUIPMENT. CORNING GLASS WORKS, Corning, N. Y.
Filed June 17, 1942. Serial No. 453,710. PUBLISHED MARCH 7, 1944. Class 35.

407,008. COCOA. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed July 7, 1942. Serial No. 454,091. PUBLISHED JANUARY 19, 1943. Class 46.

407,009. SWEET CHOCOLATE COATING AND CHOCOLATE LIQUOR. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed July 7, 1942. Serial No. 454,094. PUBLISHED JANUARY 19, 1943. Class 46.

407,010. HOT CHOCOLATE MIX. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed July 7, 1942. Serial No. 454,092. PUBLISHED JANUARY 19, 1943. Class 46.

407,011. PNEUMATIC VEHICLE TIRES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed August 14, 1942. Serial No. 454,908. PUBLISHED MARCH 7, 1944. Class 35.

407,012. PREPARATION FOR THE TREATMENT OF NASAL CONGESTION RESULTING FROM HAY FEVER, SINUS AND CATARRH. PRESCRIPTION LABORATORY, Lubbock, Tex.
Filed September 24, 1942. Serial No. 455,736. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,013. HAND SEWING NEEDLES, KNITTING NEEDLES, CROCHET HOOKS, CREWEL NEEDLES, NETTING NEEDLES, BODKINS, AND PACKING NEEDLES. JAMES SMITH & SON (REDDITCH) LIMITED, Redditch, England.
Filed November 12, 1942. Serial No. 456,780. PUBLISHED FEBRUARY 8, 1944. Class 40.

407,014. VIEWER FOR VIEWING SLIDES AND FILMS IN FULL COLORS AND THIRD DIMENSION. CHROMAT-O-SCOPE COMPANY, Los Angeles, Calif.
Filed November 20, 1942. Serial No. 456,934. PUBLISHED MARCH 7, 1944. Class 26.

407,015. WOMEN'S AND GIRLS' HOSIERY AND UNDERWEAR. CLEAR WEAVE HOSIERY STORES, INC., Boston, Mass.
Filed November 25, 1942. Serial No. 457,028. PUBLISHED MARCH 7, 1944. Class 39.

407,016. ZINC BASE ALUMINUM, COPPER AND MAGNESIUM METAL ALLOY PIGS. SOUTHERN LEAD CO., Dallas, Tex.
Filed December 8, 1942. Serial No. 457,288. PUBLISHED MARCH 7, 1944. Class 14.

407,017. HOSIERY, UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, LININGS CUT OUT AND MADE UP READY FOR USE, AND OTHER ARTICLES OF CLOTHING COMPRISING SHIRTS FOR MEN, WOMEN, AND CHILDREN, BRASSIÈRES, AND GIRDLES. ERWIN E. MILSTED, Kew Gardens, Long Island, N. Y.
Filed February 27, 1943. Serial No. 458,813. PUBLISHED FEBRUARY 29, 1944. Class 39.

407,018. BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES CONSISTING OF SLACKS AND SLACK SHIRTS, POLO SHIRTS OR SPORT JACKETS, AND BLOUSES. I. JABLOW & CO., Philadelphia, Pa.
Filed March 15, 1943. Serial No. 459,113. PUBLISHED FEBRUARY 22, 1944. Class 39.

407,019. COMPRESSED TABLETS AND LOZENGES AND PASTILLES FOR THE RELIEF OF INDIGESTION, DYSPEPSIA, FLATULENCE, HEARTBURN, ACIDOSIS AND DISORDERS OF THE GASTRO-INTESTINAL TRACT. W. B. CARTWRIGHT, LIMITED, Rawdon, near Leeds, England.
Filed March 17, 1943. Serial No. 459,161. PUBLISHED JULY 13, 1943. Class 6.

407,020. HOSIERY. L. & B. HOSIERY CO., INC., New York, N. Y.
Filed April 9, 1943. Serial No. 459,756. PUBLISHED SEPTEMBER 21, 1943. Class 39.

407,021. HAND SEWING NEEDLES, CROCHET HOOKS, KNITTING PINS, AND HAT PINS. THE BRITISH NEEDLE COMPANY LIMITED, Redditch, England.
Filed May 22, 1943. Serial No. 460,827. PUBLISHED FEBRUARY 8, 1944. Class 40.

407,022. FOUNTAIN SYRUPS AND BOTTLED ROOT BEER. LYONS-MAGNUS, INC., San Francisco, Calif.
Filed July 2, 1943. Serial No. 461,821. PUBLISHED FEBRUARY 15, 1944. Class 45.

407,023. SHEAR KNIVES AND FINISHED DIE BLOCKS. AMERICAN SHEAR KNIFE COMPANY, West Homestead, Pa.
Filed July 3, 1943. Serial No. 461,834. PUBLISHED FEBRUARY 22, 1944. Class 23.

407,024. MIXTURE OF FINELY DIVIDED FUSIBLE MATERIALS USEFUL IN THE PRODUCTION OF VITRIFIED MATTE ENAMEL FINISHES FOR METAL SURFACES. FERRO ENAMEL CORPORATION, Cleveland, Ohio.
Filed July 8, 1943. Serial No. 461,922. PUBLISHED JANUARY 11, 1944. Class 16.

407,025. PREPARATION FOR SEASONING CHILI SAUCE, TOMATO JUICE COCKTAIL, FRENCH DRESSING, AND OTHER FOOD PRODUCTS. CURTICE BROTHERS CO., Rochester, N. Y.
Filed July 27, 1943. Serial No. 462,335. PUBLISHED OCTOBER 19, 1943. Class 46.

407,026. LIQUID ADAPTED FOR NEUTRALIZATION OF ACIDS EXUDING FROM DENTAL CEMENT. JOSEPH H. SCHLESINGER, doing business as Eagle Chemical Co., New York, N. Y.
Filed August 2, 1943. Serial No. 462,462. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,027. MAGAZINE PUBLISHED BI-MONTHLY. ROY FELLOM, JR., San Francisco, Calif.
Filed August 3, 1943. Serial No. 462,474. PUBLISHED FEBRUARY 29, 1944. Class 38.

407,028. MEN'S AND BOYS' UNDERWEAR AND PAJAMAS. WILSON BROTHERS, Chicago, Ill.
Filed August 4, 1943. Serial No. 462,531. PUBLISHED MARCH 7, 1944. Class 39.

407,029. LOOSE ANIMAL AND ARTIFICIAL FIBERS USED FOR MAKING TEXTILES AND FABRICS. S. ROSENFELDER & SON, INC., New York, N. Y.
Filed August 24, 1943. Serial No. 462,973. PUBLISHED MARCH 7, 1944. Class 1.

407,030. MEN'S COSMETICS—NAMELY, TALC, DEODORANT, HAIR DRESSING, AND COLOGNE. JAMES E. COATES AND COMPANY, Chicago, Ill.
Filed September 1, 1943. Serial No. 463,143. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,031. READY-MIXED PAINTS AND PAINT ENAMEL. SAPOLIN CO. INC., New York, N. Y.
Filed September 3, 1943. Serial No. 463,213. PUBLISHED MARCH 7, 1944. Class 16.

407,032. PNEUMATIC HAMMER HANDLES, DRAW BENCH GRIPS, IDLER ROLLS FOR ELECTRIC WELD TUBE MILLS, ETC. YOUNGSTOWN ALLOY CASTING CORPORATION, Youngstown, Ohio.
Filed September 8, 1943. Serial No. 463,283. PUBLISHED FEBRUARY 29, 1944. Class 23.

407,033. QUARTERLY PICTORIAL HUMOROUS PERIODICAL. EYEFUL MAGAZINE, INC., New York, N. Y.
Filed September 18, 1943. Serial No. 463,484. PUBLISHED FEBRUARY 29, 1944. Class 38.

407,034. PREFABRICATED BUILDING MATERIALS—NAMELY, FRAMING PANELS OF WOOD, PLASTIC, AND METAL. MODULOK, INC., Baltimore, Md.
Filed September 21, 1943. Serial No. 463,544. PUBLISHED MARCH 7, 1944. Class 12.

407,035. PREFABRICATED BUILDING MATERIALS—NAMELY, FRAMING PANELS OF WOOD, PLASTIC, AND METAL. MODULOK, INC., Baltimore, Md.
Filed September 21, 1943. Serial No. 463,545. PUBLISHED MARCH 7, 1944. Class 12.

407,036. PREFABRICATED BUILDING MATERIALS—NAMELY, FRAMING PANELS OF WOOD, PLASTIC, AND METAL. MODULOK, INC., Baltimore, Md.
Filed September 21, 1943. Serial No. 463,546. PUBLISHED MARCH 7, 1944. Class 12.

407,037. PASTE, MUCILAGE, GLUE, AND ADHESIVE CEMENT. SANFORD INK COMPANY, Chicago, Ill.
Filed September 24, 1943. Serial No. 463,634. PUBLISHED MARCH 7, 1944. Class 5.

407,038. NON-ALCOHOLIC, MALTLESS, CARBONATED BEVERAGES, AND THE INGREDIENTS FOR MAKING THE SAME. BIG BOY, INC., Winston-Salem, N. C.
Filed September 25, 1943. Serial No. 463,641. PUBLISHED FEBRUARY 8, 1944. Class 45.

407,039. FILING CABINETS. ART STEEL SALES CORPORATION, New York, N. Y.
Filed September 29, 1943. Serial No. 463,742. PUBLISHED MARCH 7, 1944. Class 32.

407,040. SHEETS, BLOCKS, AND RODS MADE OF SOLID TRANSPARENT MATERIAL TO BE USED AS A SUBSTITUTE FOR GLASS, AND PLAQUES CAST OR EXTRUDED FROM SUCH MATERIAL. SPARTAN INDUSTRIAL CORPORATION, New York, N. Y.
Filed September 29, 1943. Serial No. 463,764. PUBLISHED MARCH 7, 1944. Class 50.

407,041. MAGAZINE OR PUBLICATION. HILLMAN PERIODICALS, INC., New York, N. Y.
Filed October 7, 1943. Serial No. 463,972. PUBLISHED FEBRUARY 29, 1944. Class 38.

407,042. EAU DE COLOGNE AND DUSTING POWDER. PINAUD, INCORPORATED, New York, N. Y.
Filed October 11, 1943. Serial No. 464,066. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,043. RAYON FABRICS IN THE PIECE. ROTH FABRICS CORPORATION, New York, N. Y.
Filed October 15, 1943. Serial No. 464,186. PUBLISHED FEBRUARY 1, 1944. Class 42.

407,044. ALUMINUM COOKING AND TABLE HOLLOW WARE. WEST BEND ALUMINUM CO., West Bend, Wis.
Filed October 18, 1943. Serial No. 464,235. PUBLISHED FEBRUARY 29, 1944. Class 13.

407,045. ALUMINUM COOKING AND TABLE HOLLOW WARE. WEST BEND ALUMINUM CO., West Bend, Wis.
Filed October 18, 1943. Serial No. 464,236. PUBLISHED FEBRUARY 29, 1944. Class 13.

407,046. TRAVELING BAGS, SUITCASES, VALISES, CHESTS, TRUNKS, HANDBAGS, PORTFOLIOS, POCKETBOOKS, POUCHES, AND PURSES, ALL MADE OF LEATHER; AND HANDBAGS OF BEAD AND/OR PORCUPINE-QUILL WORK. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed October 12, 1943. Serial No. 464,261. PUBLISHED FEBRUARY 22, 1944. Class 3.

407,047. SOAP. PACKERS TAR SOAP, INC., Mystic, Conn., and New York, N. Y.
Filed October 22, 1943. Serial No. 464,353. PUBLISHED MARCH 7, 1944. Class 4.

407,048. PRINTED TEXTILE FABRICS IN THE PIECE, AND MADE OF RAYON, SPUN RAYON, AND COTTON, AND COMBINATIONS THEREOF. SAUL ROSEN, doing business as Amerspun Company, Paterson, N. J.
Filed October 23, 1943. Serial No. 464,374. PUBLISHED FEBRUARY 22, 1944. Class 42.

407,049. SYNTHETIC ORGANIC CHEMICAL COMPOUNDS AND PREPARATIONS CONTAINING SAME, TO BE USED FOR EMULSIFYING OR DEEMULSIFYING OILY MATERIALS IN AQUEOUS MEDIA AND VICE VERSA, ETC. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed October 27, 1943. Serial No. 464,446. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,050. COLUMN IN A SERIES OF DAILY NEWSPAPERS. GANNETT CO., INC., Rochester, N. Y.
Filed October 28, 1943. Serial No. 464,481. PUBLISHED FEBRUARY 22, 1944. Class 38.

407,051. ALLOY CASTINGS IN THE FORM OF PIG. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y.
Filed October 28, 1943. Serial No. 464,483. PUBLISHED MARCH 7, 1944. Class 14.

407,052. MASSAGING ROLLER APPARATUS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed October 29, 1943. Serial No. 464,522. PUBLISHED MARCH 7, 1944. Class 44.

407,053. CONCRETE MACHINERY ADAPTED FOR MANUFACTURING PLASTIC CEMENTITIOUS OR CONCRETE SHAPES AND BLOCKS, AND PARTS OF SUCH MACHINERY. FLINT & WALLING MFG. CO. INC., Kendallville, Ind.
Filed November 1, 1943. Serial No. 464,570. PUBLISHED FEBRUARY 29, 1944. Class 23.

407,054. WATER-DISPERSIBLE OIL FOR USE IN LEATHER SPONGING COMPOSITIONS WHICH FUNCTION TO INTRODUCE FAT INTO THE THE GRAIN OF SOLE AND LIKE LEATHERS. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,666. PUBLISHED MARCH 7, 1944. Class 4.

407,055. METALLIC SOAP COMPOSITION FOR THICKENING OILS AND FOR PRODUCING LUBRICATING GREASES. METASAP CHEMICAL COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,657. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,056. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. RUDOLPH LISKA & SONS, INC., Chicago, Ill.
Filed November 4, 1943. Serial No. 464,706. PUBLISHED FEBRUARY 8, 1944. Class 45.

407,057. GRAPE JUICE AND NON-ALCOHOLIC, MALTLESS CONCENTRATES FOR THE MAKING OF SOFT DRINK BEVERAGES. WEBSTER THOMAS COMPANY, Boston, Mass.
Filed November 4, 1943. Serial No. 464,736. PUBLISHED FEBRUARY 22, 1944. Class 45.

407,058. PIGMENT COLORS AND DYES HAVING A GENERAL USE IN THE INDUSTRIAL ARTS. PEMCO CORPORATION, Baltimore, Md.
Filed November 5, 1943. Serial No. 464,758. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,059. SECTION OF A PERIODICAL. DISTRIBUTION AND WAREHOUSING PUBLICATIONS, INC., New York, N. Y.
Filed November 8, 1943. Serial No. 464,812. PUBLISHED FEBRUARY 22, 1944. Class 38.

407,060. PIECE GOODS OF COTTON AND RAYON. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed November 10, 1943. Serial No. 464,866. PUBLISHED FEBRUARY 1, 1944. Class 42.

407,061. PIECE GOODS OF COTTON AND RAYON. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed November 10, 1943. Serial No. 464,867. PUBLISHED FEBRUARY 1, 1944. Class 42.

407,062. SCALP CREAM PREPARATION. HARRY G. ANDERSON, doing business as 4-in-1 Product Co., New York, N. Y.
Filed November 10, 1943. Serial No. 464,868. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,063. HOLLOW AUXILIARY GRATE HAVING APERTURED WALLS AND DESIGNED TO BE PLACED WITHIN A STOVE OR FURNACE UPON THE GRATE THEREOF TO FACILITATE COMBUSTION OF THE FUEL. MASTER COMBUSTOR COMPANY, Albert Lea, Minn.
Filed November 10, 1943. Serial No. 464,895. PUBLISHED MARCH 7, 1944. Class 34.

407,064. SELF PROPELLED AND MANUALLY PROPELLED RAIL CARS. FAIRBANKS, MORSE & CO., Chicago, Ill.
Filed November 11, 1943. Serial No. 464,917. PUBLISHED FEBRUARY 29, 1944. Class 19.

407,065. SELF-PROPELLED AND MANUALLY PROPELLED RAIL CARS. FAIRBANKS, MORSE & CO., Chicago, Ill.
Filed November 11, 1943. Serial No. 464,918. PUBLISHED FEBRUARY 29, 1944. Class 19.

407,066. PRECISION GAUGE BLOCKS. THE LINCOLN PARK TOOL AND GAGE COMPANY, Lincoln Park, Mich.
Filed November 12, 1943. Serial No. 464,947. PUBLISHED MARCH 7, 1944. Class 26.

407,067. BITUMEN-COATED PAVING AGGREGATE. INLAND ASPHALT CORPORATION, Chicago, Ill.
Filed November 15, 1943. Serial No. 464,998. PUBLISHED FEBRUARY 29, 1944. Class 12.

407,068. PYROPHORIC LIGHTERS FOR CIGARS, CIGARETTES, AND PIPES; FLINT FOR LIGHTERS; WICKS FOR LIGHTERS. JULIUS KOHN, doing business as The Imco Company, New York, N. Y.
Filed November 16, 1943. Serial No. 465,031. PUBLISHED FEBRUARY 29, 1944. Class 34.

407,069. PYROPHORIC LIGHTERS FOR CIGARS, CIGARETTES, AND PIPES; FLINT FOR LIGHTERS; WICKS FOR LIGHTERS. JULIUS KOHN, doing business as The Imco Company, New York, N. Y.
Filed November 16, 1943. Serial No. 465,032. PUBLISHED FEBRUARY 29, 1944. Class 34.

407,070. FOOD PREPARATION FOR MAKING A BASE FOR EGGNOG. MARTIN BROTHERS CO., doing business as Lady West Products Co., Denver, Colo.
Filed November 16, 1943. Serial No. 465,041. PUBLISHED MARCH 7, 1944. Class 46.

407,071. MEN'S AND WOMEN'S LINED AND UNLINED UTILITY JACKETS, SHIRTS, PANTS, SLACKS AND OVERALLS. J. M. S. TRADING CORP., New York, N. Y.
Filed November 18, 1943. Serial No. 465,109. PUBLISHED FEBRUARY 29, 1944. Class 39.

407,072. BEVERAGES MADE WITH A FRUIT JUICE BASE. FRANK MAYER, doing business as Sunset Valley Orange Co., Chicago, Ill.
Filed November 19, 1943. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 465,142. PUBLISHED FEBRUARY 8, 1944. Class 45.

407,073. RAZORS. EDWARD WECK & COMPANY, INC., Brooklyn, N. Y.
Filed November 19, 1943. Serial No. 465,166. PUBLISHED FEBRUARY 29, 1944. Class 23.

407,074. ALKALIS FOR THE LAUNDRY AND TEXTILE TRADE—NAMELY, A GERMICIDE, BLEACH, AND DEODORANT. THE NATIONAL MILLING & CHEMICAL COMPANY, Philadelphia, Pa.
Filed November 23, 1943. Serial No. 465,230. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,075. SHOWER CURTAINS. TEXTRON, INC., Providence, R. I.
Filed November 23, 1943. Serial No. 465,235. PUBLISHED FEBRUARY 29, 1944. Class 13.

407,076. SMOKING TOBACCO. DESMOND'S, Los Angeles, Calif.
Filed November 24, 1943. Serial No. 465,251. PUBLISHED MARCH 7, 1944. Class 17.

407,077. COTTON AND RAYON PIECE GOODS. TRAUB, LYONS, OPPENHEIM, INC., New York, N. Y.
Filed November 25, 1943. Serial No. 465,303. PUBLISHED FEBRUARY 1, 1944. Class 42.

407,078. WATERPROOF CRIB SHEETS AND WATERPROOF CRIB MATTRESS COVERS. A. F. SAUER COMPANY, Milwaukee, Wis.
Filed December 1, 1943. Serial No. 465,435. PUBLISHED MARCH 7, 1944. Class 50.

407,079. BAKING POWDER. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed December 1, 1943. Serial No. 465,439. PUBLISHED MARCH 7, 1944. CLASS 46.

407,080. ELECTRICAL MOTORS, GENERATORS, TRANSFORMERS, SOLENOIDS, MAGNETIC CLUTCHES, AND PARTS THEREOF. ELECTRICAL DEVELOPMENT COMPANY, Los Angeles, Calif., assignor to Electrical Development Company, Los Angeles, Calif., a partnership composed of Grant G. Speer, Jr., Sam T. Hayward, Robert D. Hayward, Max E. Hayward, Charles A. Hayward, Ralph N. Baker, Ruby Jane Hayward, and Nancy McClain Hayward.
Filed December 2, 1943. Serial No. 465,452. PUBLISHED MARCH 7, 1944. Class 21.

407,081. NONALCOHOLIC MALTLESS BEVERAGES AND SYRUPS FOR MAKING THE SAME. J. G. BUSTON, doing business as The Sun Rise Bottling Co., Tazewell, Va.
Filed December 3, 1943. Serial No. 465,472. PUBLISHED FEBRUARY 8, 1944. Class 45.

407,082. GARMENT HANGERS. TUBULAR GARMENT HANGERS, INC., Milwaukee, Wis.
Filed December 3, 1943. Serial No. 465,493. PUBLISHED MARCH 7, 1944. Class 50.

407,083. ARTICLES PUBLISHED AT INTERVALS DESCRIPTIVE OF THE ART OF COOKING. STREET & SMITH PUBLICATIONS, INC., New York, N. Y.
Filed December 9, 1943. Serial No. 465,674. PUBLISHED FEBRUARY 29, 1944. Class 38.

407,084. TESTING MACHINES TO TEST PLASTIC MATERIALS IN TENSION, COMPRESSION, FLEXURE, STIFFNESS, IMPACT STRENGTH, FLOW OR DISTORTION. TINIUS OLSEN TESTING MACHINE CO., Philadelphia, Pa.
Filed December 10, 1943. Serial No. 465,686. PUBLISHED MARCH 7, 1944. Class 26.

407,085. STEEL WOOL PASTE FOR CLEANING AND POLISHING ALUMINUM, STAINLESS STEEL, TIN, BRASS, ENAMEL, AND LIKE MATERIALS. BRYANT PRODUCTS, INC., Brooklyn, N. Y.
Filed December 11, 1943. Serial No. 465,704. PUBLISHED MARCH 7, 1944. Class 4.

407,086. PERFUMES AND TOILET WATER. CASTILLA PRODUCTS, INC., New York, N. Y.
Filed December 11, 1943. Serial No. 465,705. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,087. PERFUMES AND TOILET WATER. CASTILLA PRODUCTS, INC., New York, N. Y.
Filed December 11, 1943. Serial No. 465,706. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,088. NEWSPAPER COLUMN. SHELDON R. UDAY, Denver, Colo.
Filed December 13, 1943. Serial No. 465,750. PUBLISHED FEBRUARY 29, 1944. Class 38.

407,089. PREPARATION FOR CLEANING FLOORS AND WALLS. UNITED GILSONITE LABORATORIES, Scranton, Pa.
Filed December 14, 1943. Serial No. 465,767. PUBLISHED MARCH 7, 1944. Class 4.

407,090. WATCHES. MOVADO WATCH AGENCY, INC., New York, N. Y.
Filed December 16, 1943. Serial No. 465,815. PUBLISHED MARCH 7, 1944. Class 27.

407,091. SYRUPS, CONCENTRATES, AND EXTRACTS FOR NONALCOHOLIC MALTLESS BEVERAGES. RODRIGUEZ FLAVORING SYRUPS, INC., Baltimore, Md.
Filed December 16, 1943. Serial No. 465,830. PUBLISHED FEBRUARY 22, 1944. Class 45.

407,092. COMPOUND, POWDER OR MIX WHICH PROVIDES STABILIZING QUALITIES AND IS ESPECIALLY ADAPTED FOR USE IN THE MANUFACTURE OF FROZEN DESSERTS—NAMELY, ICE CREAM, SHERBETS, MOUSSES, AND ICES. AMERICAN BREDDO CORPORATION, New York, N. Y.
Filed December 18, 1943. Serial No. 465,856. PUBLISHED MARCH 7, 1944. Class 46.

407,093. CHEWING GUM. AMERICAN CHEWING PRODUCTS CORP., doing business as Pleasant Products Co., Newark, N. J.
Filed December 18, 1943. Serial No. 465,857. PUBLISHED MARCH 7, 1944. Class 46.

407,094. CHEWING GUM. AMERICAN CHEWING PRODUCTS CORP., Newark, N. J.
Filed December 18, 1943. Serial No. 465,860. PUBLISHED MARCH 7, 1944. Class 46.

407,095. SHERBET AND ICE STABILIZER HAVING A GELATIN BASE. SWIFT AND COMPANY, Chicago, Ill.
Filed December 18, 1943. Serial No. 465,882. PUBLISHED MARCH 7, 1944. Class 46.

407,096. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,914. PUBLISHED FEBRUARY 29, 1944. Class 38.

407,097. FRESH AVOCADOES. JOHN O. FORES, Los Angeles, Calif.
Filed December 21, 1943. Serial No. 465,949. PUBLISHED MARCH 7, 1944. Class 46.

407,098. TEXTILE DIAPERS. STARCROSS, INC., Greenville, S. C.
Filed December 21, 1943. Serial No. 465,965. PUBLISHED FEBRUARY 29, 1944. Class 39.

407,099. KNITTED FABRICS IN THE PIECE OF RAYON, COTTON PROTEIN FIBRES AND COMBINATIONS THEREOF. BEAUNIT MILLS, INC., New York, N. Y.
Filed December 22, 1943. Serial No. 465,973. PUBLISHED FEBRUARY 22, 1944. Class 42.

407,100. ELECTRIC MOTORS. STAR ELECTRIC MOTOR COMPANY, Bloomfield, N. J.
Filed December 22, 1943. Serial No. 465,992. PUBLISHED MARCH 7, 1944. Class 21.

407,101. LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, SLACKS, COVERALLS, AND JUMPERS. DAVID CRYSTAL INC., New York, N. Y.
Filed December 23, 1943. Serial No. 466,005. PUBLISHED MARCH 7, 1944. Class 39.

407,102. LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, SLACKS, COVERALLS AND JUMPERS. DAVID CRYSTAL INC., New York, N. Y.
Filed December 23, 1943. Serial No. 466,006. PUBLISHED FEBRUARY 29, 1944. Class 39.

407,103. LADIES' AND MISSES' COATS, SUITS, COAT AND SUIT ENSEMBLES, JACKETS, SKIRTS, WRAPS AND CAPES. SUPERIOR GARMENT CO., New York, N. Y.
Filed December 27, 1943. Serial No. 466,110. PUBLISHED FEBRUARY 29, 1944. Class 39.

407,104. WHEAT FLOUR, WHEAT FEED FOR LIVESTOCK AND POULTRY, HOG FEED SUPPLEMENT WITH MINERALS, ETC. RUSSELL-MILLER MILLING CO., Minneapolis, Minn.
Filed December 28, 1943. Serial No. 466,126. PUBLISHED MARCH 7, 1944. Class 46.

407,105. LADIES' CHEMISES, PAJAMAS, DRESSES, PRINCESS SLIPS, BLOOMERS, STEP-INS, NIGHTGOWNS, AND LADIES' UNIFORMS FOR WORK PURPOSES, AND CHILDREN'S CHEMISES, PAJAMAS, DRESSES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed December 29, 1943. Serial No. 466,176. PUBLISHED MARCH 7, 1944. Class 39.

407,106. LADIES' CHEMISES, PAJAMAS, DRESSES, PRINCESS SLIPS, BLOOMERS, STEP-INS, NIGHTGOWNS, AND LADIES' UNIFORMS FOR WORK PURPOSES, AND CHILDREN'S CHEMISES, PAJAMAS, DRESSES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed December 29, 1943. Serial No. 466,177. PUBLISHED MARCH 7, 1944. Class 39.

407,107. LUBRICATING GREASES FOR LABORATORY STOPCOCKS AND CLOSURES. THE VARNITON COMPANY, Los Angeles, Calif.
Filed December 29, 1943. Serial No. 466,185. PUBLISHED MARCH 7, 1944. Class 15.

407,108. MILKY DISEASE SPORE DUST FOR CONTROL OF THE JAPANESE BEETLE. JOSHUA A. DITMAN, Laurel, Md.
Filed December 30, 1943. Serial No. 466,195. PUBLISHED FEBRUARY 29, 1944. Class 6.

407,109. MEN'S AND BOYS' PYJAMAS AND NIGHTSHIRTS. FRACKVILLE MANUFACTURING COMPANY, New York, N. Y.
Filed December 30, 1943. Serial No. 466,197. PUBLISHED MARCH 7, 1944. Class 39.

407,110. TOOL STEEL AND TOOL STEEL ALLOYS. ZIV STEEL & WIRE CO., Chicago, Ill.
Filed December 30, 1943. Serial No. 466,208. PUBLISHED MARCH 7, 1944. Class 14.

407,111. FRESH CITRUS FRUITS. LOBUE BROS., Lindsay, Calif.
Filed December 31, 1943. Serial No. 466,225. PUBLISHED MARCH 7, 1944. Class 46.

407,112. MILK FILTERS AND MILK FILTER PADS. STAMSVIK MANUFACTURING CORPORATION, Pittsburgh, Pa.
Filed December 31, 1943. Serial No. 466,233. PUBLISHED MARCH 7, 1944. Class 31.

407,113. CANDY. G. CELLA CO., New York, N. Y.
Filed January 1, 1944. Serial No. 466,253. PUBLISHED MARCH 7, 1944. Class 46.

407,114. WOMEN'S DRESSES. C. A. NEUBURGER COMPANY, Oshkosh, Wis.
Filed January 1, 1944. Serial No. 466,264. PUBLISHED MARCH 7, 1944. Class 39.

407,115. PAINT BRUSHES AND SHAVING BRUSHES. RUBBERSET COMPANY, Newark, N. J.
Filed January 1, 1944. Serial No. 466,265. PUBLISHED MARCH 7, 1944. Class 29.

407,116. PAINT BRUSHES AND SHAVING BRUSHES. RUBBERSET COMPANY, Newark, N. J.
Filed January 1, 1944. Serial No. 466,266. PUBLISHED MARCH 7, 1944. Class 29.

407,117. HOSIERY. FEDDEN BROTHERS COMPANY, INC., New York, N. Y.
Filed January 3, 1944. Serial No. 466,272. PUBLISHED MARCH 7, 1944. Class 39.

407,118. GLIDER COUCH SWINGS. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio.
Filed January 3, 1944. Serial No. 466,289. PUBLISHED MARCH 7, 1944. Class 32.

407,119. TOILET SOAPS. CHERAMY, INC., New York, N. Y.
Filed January 5, 1944. Serial No. 466,323. PUBLISHED MARCH 7, 1944. Class 4.

407,120. DOLLS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,390. PUBLISHED MARCH 7, 1944. Class 22.

407,121. LUBRICATING GREASES AND OILS. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed January 12, 1944. Serial No. 466,516. PUBLISHED MARCH 7, 1944. Class 15.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,122. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PLASTIC PRODUCTS COMPANY, Detroit, Mich. Filed Sept. 8, 1939. Serial No. 423,438.

PAINTERS
PLASTIC

PLASTIC PRODUCTS
COMPANY

FOR PUTTY OR FILLING COMPOUND FOR CRACKS AND CREVICES OR THE LIKE.
Claims use since July 1939.

407,123. (CLASS 39. CLOTHING.) LAROS TEXTILES COMPANY, Bethlehem, Pa. Filed June 15, 1942. Serial No. 453,674.



FOR WOMEN'S SLIPS.
Claims use since May 15, 1942.

407,124. (CLASS 39. CLOTHING.) IRVING N. JOSEPH, Evanston, Ill. Filed Sept. 25, 1942. Serial No. 455,758.

BARE-FOOT *ORIGINAL*

FOR SHOES, SLIPPERS, AND BOOTS MADE OF LEATHER, FABRIC, OR RUBBER, OR A COMBINATION OF SAID MATERIALS, AND INSOLES THEREFOR.
Claims use since July 1941.

407,125. (CLASS 39. CLOTHING.) STYLE FORM BRASSIERE CO., INC., New York, N. Y. Filed Nov. 18, 1942. Serial No. 456,908.

Styleform

FOR BANDEAUX BRASSIÈRES, GARTER BELTS, GIRDLES, CORSETS, FOUNDATIONS, CORSELETS, AND BEACH HALTERS.
Claims use since August 1938.

407,126. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) HOWARD N. EAVENSON, W. W. GOLDSMITH, and J. J. MOORE, receivers for the Elk Horn Coal Corporation, Charleston, W. Va. Filed Feb. 17, 1943. Serial No. 458,587.



FOR BITUMINOUS COAL.
Claims use since Feb. 4, 1943.

407,127. (CLASS 39. CLOTHING.) E. N. MARCUS & Co., Boston, Mass. Filed Mar. 4, 1943. Serial No. 458,896.

Betty Blaine

FOR WOMEN'S AND MISSES' DRESSES AND SUITS.
Claims use since Feb. 25, 1943.

407,128. (CLASS 39. CLOTHING.) INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed Mar. 10, 1943. Serial No. 459,008.

SuperSocks

FOR HOSIERY.
Claims use since Mar. 1, 1943.

407,129. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUDUBON WIRE CLOTH CORPORATION, Philadelphia, Pa. Filed Mar. 13, 1943. Serial No. 459,062.

CHAINWEVE

FOR WIRE FABRIC FOR MAKING BELTS AND CONVEYORS AND FOR OTHER PURPOSES.
Claims use since Mar. 22, 1939.

407,130. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUDUBON WIRE CLOTH CORPORATION, Philadelphia, Pa. Filed Mar. 13, 1943. Serial No. 459,063.

CHANNEL

FOR WIRE FABRIC FOR MAKING BELTS AND CONVEYORS AND FOR OTHER PURPOSES.
Claims use since October 1941.

407,131. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUDUBON WIRE CLOTH CORPORATION, Philadelphia, Pa. Filed Mar. 13, 1943. Serial No. 459,064.

CORD

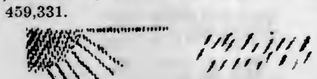
FOR WIRE FABRIC FOR MAKING BELTS AND CONVEYORS AND FOR OTHER PURPOSES.
Claims use since Nov. 5, 1938.

407,132. (CLASS 39. CLOTHING.) E. N. MARCUS & Co., Boston, Mass. Filed Mar. 17, 1943. Serial No. 459,174.

Ann Warren

FOR WOMEN'S AND MISSES' DRESSES AND SUITS.
Claims use since Mar. 12, 1943.

407,133. (CLASS 39. CLOTHING.) CHARLES A. CORNIBERT, New York, N. Y. Filed Mar. 25, 1943. Serial No. 459,331.



SUN 'n SHOWER

Fascinator

FOR LADIES' AND MISSES' SCARFS, DICKEYS, COLLARS, AND VESTEES, AND A WATERPROOFED DEVICE WHICH MAY BE WORN AS A HAT OR A COLLAR.
Claims use since Feb. 1, 1943.

407,134. (CLASS 39. CLOTHING.) MATTHEWS-RISEMAN, INC., Boston, Mass. Filed Apr. 13, 1943. Serial No. 459,844.

bette brandon

FOR MISSES' AND WOMEN'S DRESSES.
Claims use since Feb. 15, 1943.

407,135. (CLASS 39. CLOTHING.) CHARLES A. CORNIBERT, New York, N. Y. Filed Apr. 24, 1943. Serial No. 460,135.

Ti=Life

FOR LADIES' AND MISSES' WINDSOR TIES.
Claims use since Mar. 9, 1943.

407,136. (CLASS 39. CLOTHING.) RICH GUILD SHIRT COMPANY, New York, N. Y. Filed May 14, 1943. Serial No. 460,628.

TOGMATES

FOR MEN'S, WOMEN'S AND YOUTHS' SHIRTS, SPORTS SHIRTS, SLACKS AND JACKETS OF ALL KINDS.
Claims use since December 1942.

407,137. (CLASS 39. CLOTHING.) MAJESTIC MANUFACTURING CO. INC., Atlanta, Ga. Filed Dec. 29, 1943. Serial No. 466,171.



FOR WOMEN'S WASH DRESSES OF WOVEN TEXTILE FABRICS, HOUSECOATS, PLAYSUITS, SLACKS, AND SLACK SUITS.
Claims use since September 1938.

407,138. (CLASS 12. CONSTRUCTION MATERIALS.) THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 13, 1944. Serial No. 466,556.

BLACAULK

FOR MASTIC COMPOUND FOR CAULKING, GLAZING, POINTING AND LIKE PURPOSES.
Claims use since May 1, 1928.

407,139. (CLASS 39. CLOTHING.) MARTIN ORLOVITZ, doing business as Eastern Trouser Company, Philadelphia, Pa. Filed Jan. 20, 1944. Serial No. 466,739.

Strongwear



FOR TROUSERS AND OUTER SHIRTS.
Claims use since 1933.

407,140. (CLASS 39. CLOTHING.) AMALGAMATED MERCANTILE CORPORATION, New York, N. Y. Filed Jan. 27, 1944. Serial No. 466,906.

MANHATTAN MISS

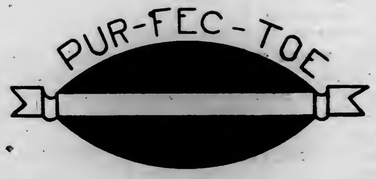
FOR LADIES' AND MISSES' COATS, SUITS, SKIRTS, JACKETS AND COAT AND SUIT ENSEMBLES.
Claims use since Oct. 22, 1940.

407,141. (CLASS 39. CLOTHING.) HAROLD M. LEVY, New York, N. Y. Filed Feb. 2, 1944. Serial No. 467,100.

Glove World

FOR GLOVES MADE OF LEATHER, FABRIC, OR A COMBINATION OF LEATHER AND FABRIC.
Claims use since Dec. 8, 1941.

407,142. (CLASS 39. CLOTHING.) ABNER E. NATHANSON, New York, N. Y. Filed Feb. 4, 1944. Serial No. 467,164.



FOR SHOES MADE OF LEATHER, FABRIC, PLASTICS, OR COMBINATIONS OF ANY AND ALL SUCH MATERIALS FOR MEN, WOMEN, AND CHILDREN.
Claims use since November 1938.

407,143. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) C-THRU RULER COMPANY, Hartford, Conn. Filed Feb. 7, 1944. Serial No. 467,234.

C-THRU

FOR RULING AND CALCULATING INSTRUMENTS.
Claims use since Feb. 1, 1939.

407,144. (CLASS 39. CLOTHING.) MACRAE SPORTSWEAR, New York, N. Y. Filed Feb. 9, 1944. Serial No. 467,295.

WINDCHESTER

FOR MEN'S, BOYS', LADIES' AND MISSES' SPORT JACKETS.
Claims use since Feb. 1, 1943.

407,145. (CLASS 39. CLOTHING.) BROWNING KING & CO., INC., Philadelphia, Pa. Filed Feb. 19, 1944. Serial No. 467,554.

CHARLTON

FOR MEN'S AND YOUNG MEN'S SUITS, TOPCOATS AND OVERCOATS.

Claims use since Jan. 2, 1941.

407,146. (CLASS 39. CLOTHING.) BROWNING KING & CO., INC., Philadelphia, Pa. Filed Feb. 19, 1944. Serial No. 467,558.

St. Davids

FOR MEN'S AND YOUNG MEN'S SUITS, TOPCOATS AND OVERCOATS.

Claims use since May 3, 1940.

407,147. (CLASS 39. CLOTHING.) DONNYBROOK COAT AND SUIT CO., New York, N. Y. Filed Feb. 21, 1944. Serial No. 467,599.

CLARKSTON

FOR LADIES' AND MISSES' COATS, SUITS, AND JACKETS.

Claims use since Jan. 22, 1942.

407,148. (CLASS 39. CLOTHING.) DONNYBROOK COAT AND SUIT CO., New York, N. Y. Filed Feb. 21, 1944. Serial No. 467,600.

MANSFIELD TAILLEURS

FOR LADIES' AND MISSES' COATS, SUITS, AND JACKETS.

Claims use since Feb. 15, 1943.

TRADE-MARK REGISTRATIONS RENEWED

180,985. **"POPPY" AND DRAWING.** SMOKED MEATS, BOILED HAM, AND LARD. Registered March 11, 1924. C. SWANSTON & SON. Renewed March 11, 1944, to Swanston Packing Company, Sacramento, Calif., a corporation of California, successor.

181,058. **"HI-KLASS" AND DRAWING.** WHEAT FLOUR. Registered March 11, 1924. SUNNYSIDE MILLING COMPANY, Evansville, Ind., a corporation of Indiana. Renewed March 11, 1944.

181,584. **ELBEE VITALIS.** HAIR TONIC. Registered March 25, 1924. LEWIS BROS., INC. Renewed March 25, 1944, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

181,804. **DUROTYPE.** INKS FOR PRINTING AND STENCILING. Registered March 25, 1924. D. GESTETNER LIMITED, London, England. Renewed March 25, 1944, to A. B. Dick Company, Chicago, Ill., a corporation of Illinois, assignee.

181,902. **NICHOLSON'S SUN SWEET.** NONALCOHOLIC, MALTLESS, CONCENTRATED AND NONCONCENTRATED FRUIT SIRUP USED FOR MAKING SOFT DRINKS. Registered April 1, 1924. THE VER-VAC COMPANY, doing business as The Syrup Products Co. Renewed April 1, 1944, to The H. R. Nicholson Company, Baltimore, Md., a corporation of Maryland, assignee by mesne assignments.

181,988. **LENORA.** WOOLEN PIECE GOODS. Registered April 1, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed April 1, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

182,101. **COUNTRY CLUB.** HOSIERY. Registered April 1, 1924. SOUTHERN HOSIERY COMPANY, INC., Fort Worth, Tex. Renewed April 1, 1944, to Southern Hosiery and Apparel Company, Dallas, Tex., a partnership, assignee.

182,188. **GESTEPRINT.** INKS FOR PRINTING AND STENCILING. Registered April 1, 1924. D. GESTETNER LIMITED, London England. Renewed April 1, 1944, to A. B. Dick Company, Chicago, Ill., a corporation of Illinois, assignee.

182,347. **BIBBY.** FOOD FOR CATTLE. Registered April 8, 1924. J. BIBBY & SONS LIMITED, Liverpool, England, an English limited company. Renewed April 8, 1944.

182,406. **SILVER FARM.** CANNED VEGETABLES—NAMELY, PEAS, CORN, AND BEANS—AND EGGS. Registered April 8, 1924. EAGLE GROCERY CO., Pittsburgh, Pa. Renewed April 8, 1944, to The Kroger Grocery & Baking Co., Cincinnati, Ohio, a corporation of Ohio, assignee.

182,412. **MARITANA.** WOOLEN PIECE GOODS. Registered April 8, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed April 8, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

182,661. **PHENOID.** CLEANSING PREPARATION TO BE USED IN CLEANING TYPE AND FABRICS, AND PARTICULARLY AUTO TOPS, CURTAINS, SLIP COVERS, AND AUTOMOBILE UPHOLSTERY. Registered April 15, 1924. CHALMERS CHEMICAL COMPANY, Newark, N. J., a corporation of West Virginia. Renewed April 15, 1944.

182,666. **THE GUY FROM GRAND RAPIDS.** CARTOONS. Registered April 15, 1944. KING FEATURES SYNDICATE, INC. Renewed April 15, 1944, to The Hearst Corporation, New York, N. Y., a corporation of Delaware, by merger.

182,702. **TOWN T TOPICS.** HOSIERY. Registered April 15, 1924. HAAS & JOHNSTON. Renewed April 15, 1944, to Otto C. Haas, New York, N. Y., successor.

182,706. **RIDME.** POULTRY INSECTICIDE IN LIQUID FORM. Registered April 15, 1924. RIDME CHEMICAL Co. Renewed April 15, 1944, to Dessa Grey, doing business as Ridme Chemical Company, Parsons, Kans., successor.

182,776. **GESTEPRINT.** STENCIL PAPERS ESPECIALLY PREPARED FOR PRINTING PAPERS PREFERABLY OF THE ABSORBENT TYPE USED IN DUPLICATING MACHINES; STYLES; REPAIRING VARNISHES—THAT IS, VARNISH CONTAINING WAX IN SOLUTION WHICH IS USED FOR OBLITERATING MISTAKES MADE ON WAX STENCILS AND FOR REPAIRING THE STENCILS GENERALLY; AND OTHER CERTAIN NAMED PRODUCTS. Registered April 15, 1924. D. GESTETNER LIMITED, London, England. Renewed April 15, 1944, to A. B. Dick Company, Chicago, Ill., a corporation of Illinois, assignee.

182,780. **VELVA.** PINS—NAMELY, TOILET PINS, SAFETY PINS, KNITTING PINS, HAT PINS, TIE PINS, HAIRPINS, CURLING PINS, HAIR CURLERS, HAIR WAVERS, SNAP FASTENERS, COAT CHAINS, HOOKS AND EYES, SHIRT AND SLEEVE LINKS, NEEDLES, PRESS STUDS, THIMBLES FOR SEWING, CROCHET HOOKS, AND BUTTON HOOKS, ALL OF NON-PRECIOUS METAL. Registered April 15, 1924. JARRETT, RAINSFORD & LAUGHTON, LTD., Birmingham, England, a corporation of England. Renewed April 15, 1944.

183,090. **ORETTA.** WOOLEN PIECE GOODS. Registered April 22, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed April 22, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

183,500. **PARAMET.** VARNISH GUM. Registered April 29, 1924. PARAMET CHEMICAL CORPORATION, New York, N. Y. Renewed April 29, 1944, to Paramet Corporation, Long Island City, N. Y., a corporation of New York, assignee.

183,784. **HUMDINGER.** CAKES, COOKIES, FRIED CAKES, COFFEE CAKES, AND BREAD. Registered May 6, 1924. GRENNAN CAKE CORPORATION, Detroit, Mich. Renewed May 6, 1944, to Grennan Bakeries, Inc., Chicago, Ill., a corporation of Delaware, by change of name.

183,966. **BULL FROG.** FRESH CITROUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, TANGERINES, LIMES, AND LEMONS. Registered May 13, 1924. WINTER GARDEN CITRUS GROWERS ASSOCIATION, Winter Garden, Fla., a corporation of Florida. Renewed May 13, 1944.

184,098. **HEARTHSTONE.** SHEETING. Registered May 20, 1924. CONSOLIDATED TEXTILE CORPORATION. Renewed May 20, 1944, to Consolidated Textile Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

184,157. **INNER-CLEAN.** HERB-VEGETABLE COMPOUND, USED AS A LAXATIVE. Registered May 20, 1924. FRED S. HIRSCH, Los Angeles, Calif. Renewed May 20, 1944.

184,279. **GRANOLA.** BISCUITS, CAKES, AND BREAD. Registered May 20, 1924. MACFARLANE, LANG & COMPANY LIMITED, Glasgow, Scotland, an incorporated company of Great Britain and Northern Ireland. Renewed May 20, 1944.

184,595. **SPEEDY SPAR.** VARNISH. Registered May 27, 1924. THE R. F. JOHNSTON PAINT COMPANY. Renewed May 27, 1944, to The Foy Paint Company, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee.

184,790. **KETTLES.** PIPES. Registered June 3, 1924. S. S. PIERCE Co., Boston, Mass., a corporation of Massachusetts. Renewed June 3, 1944.

184,818. **"ACME" AND DESIGN.** PRODUCTS FROM THE DISTILLATION OF PINE WOOD—NAMELY, ROSIN. Registered June 3, 1924. ACME PRODUCTS COMPANY, New Orleans and De Quincy, La. Renewed June 3, 1944, to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware, assignee by mesne assignments.

184,906. **YACHTING.** MONTHLY MAGAZINE. Registered June 3, 1924. YACHTING INCORPORATED. Renewed June 3, 1944, to Yachting Publishing Company, New York, N. Y., a corporation of New York, assignee.

184,998. **KING COLE.** SALAD MUSTARD. Registered June 3, 1924. THE CANBY, ACH & CANBY Co., Dayton, Ohio. Renewed June 3, 1944, to Wm. S. Scull Company, Camden, N. J., a corporation of New Jersey, assignee.

185,280. **"BIG BELL BRAND" AND DRAWING.** FRESH VEGETABLES—TO WIT, LETTUCE, CELERY, PEPPERS, TOMATOES, AND EGGPLANT. Registered June 10, 1924. BELL BROTHERS, Lake Monroe, Fla. Renewed June 10, 1944, to Bell Celery Company, Sarasota, Fla., a partnership.

185,882. **"SHEBA" AND DRAWING.** FRESH TOMATOES. Registered June 24, 1924. DETROIT TOMATO COMPANY. Renewed June 24, 1944, to Detroit Tomato and Produce Company, Detroit, Mich., a corporation of Michigan, by change of name.

185,989. **INFANTOL.** PREPARATION FOR THE TREATMENT OF INFANT BOWEL DISORDERS. Registered July 1, 1924. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex., a corporation of Texas. Renewed July 1, 1944.

186,280. **NETO.** GAS BURNERS. Registered July 8, 1924. GEO. BRAY & Co., LIMITED, Leeds, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed July 8, 1944.

186,503. **"SAND-MAN" AND DRAWING.** MATTRESSES OF HAIR, FLOSS, COTTON, OR SPRING TYPE. Registered July 22, 1924. WILLIAM THOSHINSKY, San Francisco, Calif. Renewed July 22, 1944.

186,934. **"GLEN DERRY" AND DESIGN.** MEN'S AND CHILDREN'S OUTER GARMENTS CONSISTING OF COATS, VESTS, PANTS, OVERCOATS, RAINCOATS, DUSTERS, MACKINAWS, ULSTERS, SMOKING JACKETS, AUTOMOBILE COATS, BATH WRAPS, AND WOMEN'S AND CHILDREN'S OUTER GARMENTS CONSISTING OF COATS, BATH WRAPS, AND MACKINAWS. Registered July 22, 1924. COHEN, GOLDMAN & Co., INC., New York, N. Y., a corporation of New York. Renewed July 22, 1944.

187,112. **"WOOL-KNIT" AND DESIGN.** KNITTED FABRIC MADE FROM COMBINATIONS OF COTTON, MOHAIR, AND WOOL. Registered July 29, 1924. COHEN, GOLDMAN & Co., INC., New York, N. Y., a corporation of New York. Renewed July 29, 1944.

187,141. **"B D A" AND DRAWING.** DYED COTTON PIECE GOODS, SILK PIECE GOODS, WOOLEN PIECE GOODS, ARTIFICIAL-SILK PIECE GOODS, AND PIECE GOODS BEING ADMIXTURES OF COTTON, SILK, WOOL, OR ARTIFICIAL SILK. Registered July 29, 1924. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed July 29, 1944.

187,188. **SARCO.** TEMPERATURE REGULATORS, RECORDING THERMOMETERS, AND INDICATING THERMOMETERS, AND PARTS THEREOF. Registered July 29, 1924. SARCO COMPANY, INC., New York, N. Y., a corporation of New York. Renewed July 29, 1944.

187,236. **"KNIT-TEX" AND DESIGN.** KNITTED FABRIC MADE FROM COMBINATIONS OF COTTON, MOHAIR, AND WOOL. Registered July 29, 1924. COHEN, GOLDMAN & Co., INC., New York, N. Y., a corporation of New York. Renewed July 29, 1944.

187,372. **FYRGARD.** FIREPROOF DOORS. Registered August 5, 1924. THE RICHMOND FIREPROOF DOOR CO., Richmond, Ind., a corporation of Indiana. Renewed August 5, 1944.

187,583. **"WINTERKNIT" AND DESIGN.** MEN'S AND CHILDREN'S OVERCOATS. Registered August 5, 1924. COHEN, GOLDMAN & Co., INC., New York, N. Y., a corporation of New York. Renewed August 5, 1944.

187,734. **PANSY BRAND.** CURED HAMS, BOILED HAMS, AND BACON. Registered August 12, 1924. ALABAMA PACKING COMPANY, Birmingham, Ala., a corporation of Alabama. Renewed August 12, 1944.

187,771. **RAMBLER.** SMOKING TOBACCO. Registered August 12, 1924. COPE BROTHERS AND COMPANY LIMITED, Liverpool and London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 12, 1944.

187,929. **NAZ-DAR.** SIZING VARNISH, OIL STENCIL PASTE, STENCIL-PROCESS JAPAN, AND ARTIST COLORS. Registered August 12, 1924. NAZ-DAR COMPANY. Renewed August 12, 1944, to Naz-Dar Company, Chicago, Ill., a corporation of Illinois, assignee.

187,990. **VIBUR-TONIC.** INTERNAL MEDICINE FOR THE TREATMENT OF AMENORRHEA, DYSMENORRHEA, AND OTHER MENSTRUAL COMPLAINTS. Registered August 12, 1924. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex., a corporation of Texas. Renewed August 12, 1944.

187,991. **LIQUID PAPTOSE.** INTERNAL MEDICINE FOR DIGESTIVE AND STOMACH TROUBLES. Registered August 12, 1924. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex., a corporation of Texas. Renewed August 12, 1944.

187,992. **"FIRST TEXAS".** OINTMENT FOR THE TREATMENT OF SKIN INFECTIONS. Registered August 12, 1924. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex., a corporation of Texas. Renewed August 12, 1944.

187,993. **OLD KING KOLE.** LACQUER. Registered August 12, 1924. THE R. F. JOHNSTON PAINT COMPANY. Renewed August 12, 1944, to The Foy Paint Company, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee.

188,092. **"WOOL-KNIT" AND DESIGN.** MEN'S, BOYS', AND CHILDREN'S OUTER GARMENTS, CONSISTING OF COATS, VESTS, PANTS, OVERCOATS, RAINCOATS, DUSTERS, MACKINAWS, ULSTERS, SMOKING JACKETS, AUTOMOBILE COATS, BATH WRAPS, AND WOMEN'S AND CHILDREN'S OUTER GARMENTS, CONSISTING OF COATS, BATH WRAPS, AND MACKINAWS. Registered August 19, 1924. COHEN, GOLDMAN & CO., INC., New York, N. Y., a corporation of New York. Renewed August 19, 1944.

188,107. **"THE BELVADEAR" AND DESIGN.** CORSETS AND GIRDLES. Registered August 19, 1924. THE H. W. GOSSARD CO., Chicago, Ill., a corporation of Illinois. Renewed August 19, 1944.

188,175. **KNOXALL.** GLASS BOTTLES. Registered August 19, 1924. KNOX GLASS BOTTLE COMPANY, Knox, Pa., a corporation of Pennsylvania. Renewed August 19, 1944.

188,359. **DRAGON-CARLISLE.** COTTON THREAD. Registered August 26, 1924. THE AMERICAN THREAD COMPANY, New York, N. Y., a corporation of New Jersey. Renewed August 26, 1944.

188,362. **"A-B" AND DESIGN.** GINGER ALE. Registered August 26, 1924. ANHEUSER-BUSCH, INC., St. Louis, Mo., a corporation of Missouri. Renewed August 26, 1944.

188,520. **DAINTY DIMPLE.** CAKES AND DOUGHNUTS. Registered August 26, 1924. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,546. **S.S.S.** MEDICINAL PREPARATION FOR THE TREATMENT OF THE BLOOD. Registered August 26, 1924. THE SWIFT SPECIFIC CO. Renewed August 26, 1944, to S. S. S. Co., Atlanta, Ga., a corporation of Georgia, by change of name.

188,641. **REPRESENTATION OF GREEN PARALLEL LINES IN TEXTILE FABRIC.** ALL-WOOL TEXTILE PIECE GOODS USED PARTICULARLY TO MAKE INTERLININGS FOR SILK NECKWEAR. Registered September 2, 1924. W. H. HOLBROOK COMPANY, Boston, Mass. Renewed September 2, 1944, to Myron B. Levy Co. Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

188,650. **ONEIDA COMMUNITY.** TABLE KNIVES AND CARVING KNIVES MADE OF NONPRECIOUS METAL. Registered September 2, 1924. ONEIDA COMMUNITY, LTD. Renewed September 2, 1944, to Oneida Ltd., Oneida, N. Y., a corporation of New York, by change of name.

188,693. **DIAMOND RUBY.** AWNING STRIPES AND TICKING MADE OF COTTON, LINEN, COTTON DAMASK, AND COMBINATIONS OF COTTON AND LINEN. Registered September 2, 1924. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y., a corporation of New York. Renewed September 2, 1944.

188,767. **ORCHID.** FINGER RINGS. Registered September 2, 1924. AARON E. JOHNSON, doing business as Aaron E. Johnson Jewelry Manufacturing Company, Minneapolis, Minn. Renewed September 2, 1944.

188,932. **"MACGREGOR" AND DESIGN.** GOLF CLUBS. Registered September 9, 1924. THE CRAWFORD, MACGREGOR AND CANBY COMPANY, Dayton, Ohio. Renewed September 9, 1944, to Sport Products, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

188,941. **HOLLEY.** CARBURETORS FOR EXPLOSIVE ENGINES. Registered September 9, 1924. HOLLEY CARBURETOR COMPANY, Detroit, Mich., a corporation of Michigan. Renewed September 9, 1944.

188,950. **"POCAHONTAS" AND DRAWING.** FERTILIZER. Registered September 9, 1924. POCAHONTAS GUANO CO., INC., Lynchburg, Va., a corporation of Virginia. Renewed September 9, 1944.

188,953. **RADIOTHERM.** HIGH-FREQUENCY ELECTRIC MACHINES EMPLOYED IN DESSICATION SURGERY. Registered September 9, 1924. WAPPLER ELECTRIC COMPANY, INC., Long Island City, N. Y. Renewed September 9, 1944, to Westinghouse Electric & Manufacturing Company, Bloomfield, N. J., a corporation of Pennsylvania, assignee by mesne assignments.

188,955. **"CBP CO" AND DESIGN.** SHAVINGS AND DUST-COLLECTING SYSTEMS AND APPARATUS. Registered September 9, 1924. CHICAGO BLOW PIPE CO., Chicago, Ill., a corporation of Illinois. Renewed September 9, 1944.

188,963. **"CASTLE FILMS" AND DRAWING.** MOTION-PICTURE FILMS. Registered September 9, 1924. EUGENE W. CASTLE, doing business as Castle Films, San Francisco, Calif. Renewed September 9, 1944, to Castle Films, Inc., New York, N. Y., a corporation of New York, assignee.

188,970. **"BEARITE" AND DRAWING.** BEARING METALS. Registered September 9, 1924. A. W. CADMAN MANUFACTURING COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed September 9, 1944.

188,979. **2 IN 1.** METAL-CUTTING SAWS AND PARTICULARLY HACK-SAW BLADES. Registered September 9, 1924. SPARTAN SAW WORKS. Renewed September 9, 1944, to Spartan Saw Works, Inc., Springfield, Mass., a corporation of Massachusetts, assignee.

188,993. **KLEEN KUT.** BASE OIL FOR CUTTING FLUIDS AND COOLANTS. Registered September 9, 1924. D. A. STUART & CO. Renewed September 9, 1944, to D. A. Stuart Oil Co. Limited, Chicago, Ill., a corporation of Ontario, Canada, assignee by mesne assignments.

189,002. **"WARD'S" AND DESIGN.** BREAD. Registered September 9, 1924. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed September 9, 1944.

189,003. **"HACKSLIK."** LUBRICANTS FOR SAWS, SAW BLADES, DRILLS, EDGE TOOLS, HAND AND POWER METAL CUTTING TOOLS, RAZOR STROPS AND HONES. Registered September 9, 1924. J. E. MILLER, Chicago, Ill. Renewed September 9, 1944.

189,033. **NORCOLENE.** LUBRICATING OILS AND GREASES. Registered September 9, 1924. NORTHERN IOWA OIL COMPANY, Cresco, Iowa, a firm. Renewed September 9, 1944.

189,043. **CHARING CROSS.** CIGARS, CIGARETTES, AND SMOKING TOBACCO. Registered September 9, 1924. MOSS & LOWENHAUPT CIGAR CO., St. Louis, Mo., a corporation of Missouri. Renewed September 9, 1944.

189,046. **BELFAST.** COTTON PIECE GOODS. Registered September 9, 1924. GARNER PRINT WORKS & BLEACHERY. Renewed September 9, 1944, to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

189,052. **ENERGY.** STEAM HOSE AND AIR HOSE MADE OF A COMBINATION OF RUBBER, DUCK, AND COTTON BRAIDING. Registered September 9, 1924. HAMILTON RUBBER MANUFACTURING COMPANY, Trenton, N. J., a corporation of New Jersey. Renewed September 9, 1944.

189,063. **RADIO.** CANNED FRUITS AND VEGETABLES. Registered September 9, 1924. MCKNIGHT-KEATON GROCERY COMPANY, Cairo, Ill., a corporation of Illinois. Renewed September 9, 1944.

189,066. **MOXIE.** NONALCOHOLIC, MALTLESS CARBONATED BEVERAGE AND SIRUP FOR MAKING THE SAME. Registered September 9, 1924. THE MOXIE COMPANY, Portland, Maine, and Boston, Mass. Renewed September 9, 1944, to The Moxie Company, Boston, Mass., a corporation of Massachusetts, assignee.

189,100. **OPORTO.** AWNING STRIPES AND TICKING MADE OF COTTON, LINEN, COTTON DAMASK AND COMBINATIONS OF COTTON AND LINEN. Registered September 9, 1924. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y., a corporation of New York. Renewed September 9, 1944.

189,106. **SICILIAN.** AWNING STRIPES AND TICKING MADE OF COTTON, LINEN, COTTON DAMASK, AND COMBINATIONS OF COTTON AND LINEN. Registered September 9, 1924. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y., a corporation of New York. Renewed September 9, 1944.

189,188. **GORDON.** KNITTED AND WOVEN UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. Registered September 16, 1924. BROWN DURRELL CO., Boston, Mass. Renewed September 16, 1944, to Brown Durrell Co., Boston, Mass., and New York, N. Y., a corporation of Massachusetts.

189,263. **MISS READING.** LADIES' HOSIERY. Registered September 16, 1924. WEINERTH KNITTING & MACHINE CO. INC., Reading, Pa. Renewed September 16, 1944, to Laurel Hosiery Company, West Reading, Pa., a corporation of Pennsylvania, assignee.

189,265. **"COMET" AND DRAWING.** RICE. Registered September 16, 1924. SEABOARD RICE MILLING COMPANY, Galveston, Tex. Renewed September 16, 1944, to Comet Rice Mills, Inc., Beaumont, Tex., a corporation of Texas, assignee.

189,301. **BLUE SEA.** EXERCISE, COMPOSITION, MEMORANDUM, AND NOTE BOOKS. Registered September 16, 1924. S. E. & M. VERNON, INC., New York, N. Y., a corporation of New York. Renewed September 16, 1944.

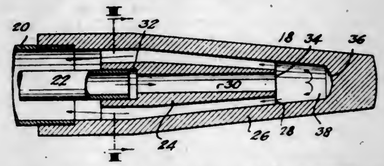
189,312. **"BORODENTINE" AND DRAWING.** DENTAL CREAM. Registered September 16, 1924. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed September 16, 1944.

189,353. **"FRANKLIN" AND DESIGN.** TWIST DRILLS, TAPS AND DIES, MILLING CUTTERS, GEAR CUTTERS, METAL-SPLITTING SAWS, FILES, REAMERS, HACK-SAW BLADES, WRENCHES, AND FILE HANDLES. Registered September 16, 1924. FRANKLIN HARDWARE CO. INC., New York, N. Y., a corporation of New York. Renewed September 16, 1944.

189,381. **"WRIGHT'S" AND DRAWING.** KNITTED AND TEXTILE GARMENTS FOR MEN, WOMEN, BOYS, GIRLS, AND CHILDREN, COMPRISING UNION SUITS, SHIRTS AND DRAWERS, VESTS AND PANTS, SWEATERS, JERSEYS, JACKETS, OVERSHIRTS, SWEAT SHIRTS, BLOOMERS, SKIRTS, MACKINAWS, WAISTS, ROMPERS, HOSIERY, UNDERHOSE, TRAINING PANTS, AND GIRDLES. Registered September 16, 1924. WRIGHT'S UNDERWEAR COMPANY, INC., New York, N. Y., a corporation of New York. Renewed September 16, 1944.

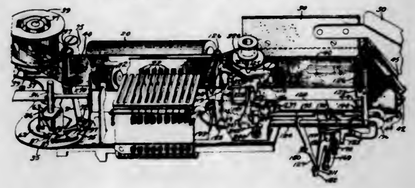
189,669. **THE KAUL KIND.** ROUGH AND FINISHED LUMBER. Registered September 23, 1924. KAUL LUMBER COMPANY, Tuscaloosa and Birmingham, Ala., a corporation of Alabama. Renewed September 23, 1944.

22,479
BLAST FURNACE CINDER NOTCH STOPPER
Herman F. Dobscha, North Braddock, Pa.
Original No. 2,294,162, dated August 25, 1942, Serial No. 354,439, August 27, 1940. Application for reissue August 14, 1943, Serial No. 498,610
5 Claims. (Cl. 266—42)



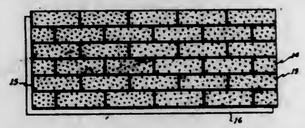
1. A blast furnace cinder notch stopper comprising a hollow shell having a closed nose at one end, an inner hollow element enclosed by said shell, the inner end of said element terminating short of said nose so as to leave a chamber between them with which the hollow portion of said element communicates, equally spaced webs between the shell and the element extending from end to end of said element and spacing the latter from the shell, a cooling medium supply pipe opening into the hollow interior of said element and an outlet pipe communicating with and secured to the end of the shell remote from said closed nose whereby a cooling medium introduced inwardly through said hollow element toward the nose is caused to flow rearwardly between the exterior of said element and the shell in separate streams defined by said webs to said outlet pipe.

22,480
PRINTING MACHINE
Ernest Racz, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Original No. 2,288,107, dated June 30, 1942, Serial No. 367,234, November 26, 1940. Application for reissue July 8, 1942, Serial No. 450,219
19 Claims. (Cl. 101—212)



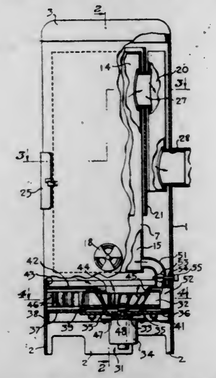
19. In a machine of the class specified having a driving means, manipulative means to cause said driving means to drive said machine through cycles of operation, a platen, a printing cylinder, means supporting said printing cylinder, said supporting means and platen being relatively movably mounted, means to effect relative movement between said supporting means and platen to position said printing cylinder and platen against and away from each other, means to effect relative movement between said platen and said supporting means to thereby cause said cylinder to be rolled on said platen while said printing cylinder and platen are positioned against each other, means normally ineffective in machine cycles to operatively connect both of said moving means to said driving means, and further manipulative means to cause said driving means to drive said machine through a cycle of operation and to render said normally ineffective connecting means effective to operatively connect both of said moving means to said driving means.

22,481
BUILDING UNIT
Robert Lee Kaye, Newark, N. J., assignor to Briktex, Incorporated, Newark, N. J.
Original No. 2,224,351, dated December 10, 1940, Serial No. 265,192, March 31, 1939. Application for reissue April 23, 1941, Serial No. 389,897
10 Claims. (Cl. 2.0—5)



10. A rigid composition board formed of compacted fibrous material having at least one surface portion shallowly impregnated with waterproofing material, said board having a small portion thereof impregnated with waterproofing material to a much greater depth to uniformly harden the board throughout said portion and accommodate nailing thereof without materially reducing the insulation value of the board as a whole and without substantially altering the continuity of the fibrous material.

22,482
SPACE HEATER
George M. Schueder and Eugene F. Farrell, Detroit, Mich., assignors to Evans Products Company, Detroit, Mich., a corporation of Delaware
Original No. 2,268,778, dated January 6, 1942, Serial No. 259,094, March 1, 1939. Application for reissue November 19, 1942, Serial No. 466,202
42 Claims. (Cl. 126—110)



1. A unit space heater comprising an upright, floor-supported cabinet containing a combustion heating unit and a contiguous, downwardly-ex-

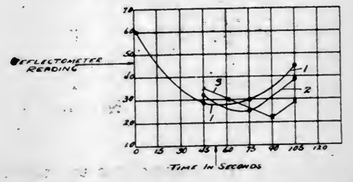
tending passageway for heating air to a high temperature, said cabinet and passageway having an upper air opening and having a lower, lateral air opening communicating directly with the room adjacent but safely above its floor, and fan means in the lower part of said cabinet and passageway discharging substantially horizontally directly from its blades to and out through said lower opening directly into the room so that when said fan means is running it will pull air down through said upper opening and said passageway and discharge this high temperature air out said lower opening substantially horizontally and close to but safely above the room floor to prevent objectionable overheating to the floor close to the heater and, when said fan means is not running, air will rise up by thermal convection through said lower opening and said passageway and out said upper opening.

36. In combination, a liquid fuel burner, a float chamber, means for delivering liquid fuel thereto, a liquid fuel line extending from said float chamber to said burner, means for supplying air to said burner, including a motor, and a motor circuit therefor, a valve in said float chamber, adapted to control the flow of liquid fuel from the float chamber to the burner, means for adjusting the setting of said valve, including an exterior manually operable rotatable knob, and means for controlling said motor circuit in predetermined relationship to the movement of said valve, including a switch in said circuit, and means for actuating said switch in response to rotation of said knob the switch actuating means being adapted to close the switch in response to rotation of the knob only after substantial opening of the valve has taken place.

PATENTS

GRANTED MAY 16, 1944

2,348,704
TREATMENT OF GLASS SURFACES
Frederick W. Adams, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application September 21, 1940, Serial No. 357,707
4 Claims. (Cl. 88—1)



1. A process of forming non-reflecting films upon a surface of a glass body comprising silica and base components for the silica, which process comprises leaching out the base components from the surface of the glass while leaving the silica in place to form a film consisting primarily of silica, the degree of leaching being such that the thickness of the silica film is slightly greater than one-quarter wave length of light, then treating the silica film with hydrofluoric acid until approximate minimum reflectance is obtained.

2,348,705
ETHYLENESULPHONYL POLYMER
Van Vernon Alderman, Arden, and William Edward Hanford, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 30, 1940, Serial No. 332,609
8 Claims. (Cl. 260—84)

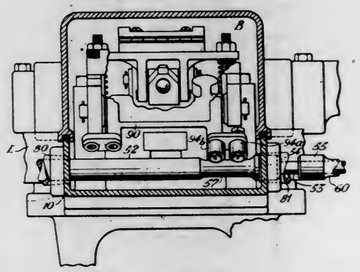
2. An ester of ethylenesulphonic acid.

2,348,706
MUFFLER
Frederick K. Batchelor and Sidney E. Becker, Huntington Park, Calif.
Application June 9, 1943, Serial No. 490,216
2 Claims. (Cl. 181—64)



1. A muffler comprising a cylindrical casing closed at each end, a plurality of perforated baffles arranged in spaced relation in the casing, an attaching tube projecting through one end of the casing for attaching to an engine exhaust pipe, said tube being open at each end and extending through at least one of the baffles and having perforated walls at its inner end behind the baffles, an imperforate plate secured in the casing adjacent its other end and forming a chamber having an outlet in one wall of the casing, a suction fan mounted in the chamber, means attached to the fan outwardly of the casing to form a drive connection for the fan, and a tube in the imperforate plate providing communication between the interior of the casing and the chamber.

2,348,707
RAILWAY SWITCH OPERATING APPARATUS
Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 15, 1942, Serial No. 469,091
1 Claim. (Cl. 246—253)



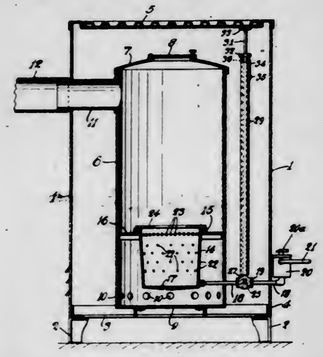
A point detector rod comprising a round main body portion provided at one end with means for attaching it to a railway switch and at the other end with a portion of reduced diameter which forms a shoulder, said reduced portion being threaded at its free end, a sleeve having the same outside diameter as said main body portion mounted on said reduced portion and provided at one end with internal screw threads which cooperate with the threaded end of said reduced portion to enable said sleeve to be adjusted to different longitudinal positions on said reduced portion, and means for locking said sleeve in adjusted positions, said main body portion and said sleeve being provided with similar annular notches each adapted to at times receive a pair of laterally spaced rollers provided on the operating member of a point detector mechanism, sufficient space being provided between said sleeve and said shoulder to permit any adjustment of the sleeve necessary to enable the detector rod to be used in switches having different strokes or to take care of differences in the stroke of any given switch over a period of time but said space being less than the spacing between said rollers.

2,348,708
PRODUCTION OF DRYING OILS
Theodore F. Bradley, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 4, 1941, Serial No. 381,665
6 Claims. (Cl. 260—410.6)

1. A method of improving the drying characteristics of crude esters of the group consisting of higher unsaturated fatty acid esters of pentaerythritol and higher unsaturated fatty acid esters of dipentaerythritol which comprises extracting said crude esters with an aliphatic mono-hydric

alcohol of from 1 to 3 carbon atoms to remove alcohol soluble mono-, di- and tri- fatty acid esters, thereby lowering the hydroxyl number and improving the drying characteristics of the crude ester.

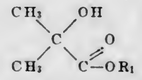
2,348,709
SAFETY CONTROL FOR LIQUID FUEL BURNERS
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application October 12, 1940, Serial No. 360,941
8 Claims. (Cl. 158—42.4)



1. In combination with a fluid fuel burner having a fuel inlet passage and means for controlling the volume of flow of the fuel through said passage, an additional valve means, means for normally holding it inoperative, and means for moving it to closed position and for thereby cutting off the fuel flow through said passage in response to an increase of the burner temperature above a predetermined critical temperature, including a movable valve element, and a heat responsive supporting means therefor and interpenetrating therewith, located adjacent the burner and adapted to hold said valve member in inoperative position when the heat of the burner is below a predetermined critical temperature, and being adapted to return to holding position after the temperature is again lowered below said critical temperature, and means for resetting the valve member.

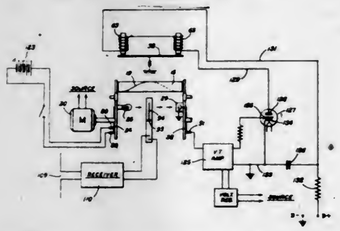
2,348,710
ALICYCLIC ESTERS OF ALPHA-HYDROXY-ISOBUTYRIC ACIDS
Coleman R. Caryl, Riverside, Jack T. Thurston, Cos Cob, and Donald W. Kaiser, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 6, 1940, Serial No. 364,557
4 Claims. (Cl. 260—484)

1. Compounds having the following general formula:



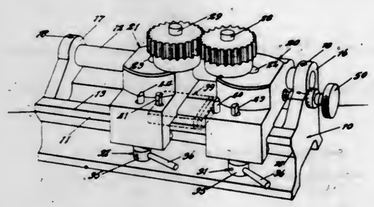
in which R_1 is an alicyclic radical.

2,348,711
RECORDING SYSTEM
Ralph R. Chappell, Richmond, Va., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Original application May 9, 1940, Serial No. 334,286. Divided and this application October 21, 1942, Serial No. 462,851
1 Claim. (Cl. 234—1.5)



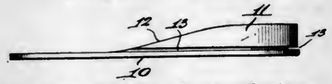
A recording device comprising an indicator of variable quantities, having a pointer movable through a definite arc and an opaque casing having a transparent portion for the arc through which said pointer is movable, a light source and a photoelectric cell synchronously rotated at spaced points about the same axis, said pointer being disposed so as to intercept a beam of light from said light source to said photoelectric cell once every cycle of rotation, an electronic circuit connected to said photoelectric cell having a relay in circuit therewith for operating a recording device in accordance with an indication of said indicator, upon interception by said pointer, the value of the quantity thus recorded being dependent upon the angular position of said pointer in its arc of travel.

2,348,712
GEAR TESTING MACHINE
Christian G. Dahlerup, Flushing, N. Y., assignor to Atlantic Gear Works, Incorporated, New York, N. Y., a corporation of New York
Application March 17, 1943, Serial No. 479,535
12 Claims. (Cl. 33—179.5)
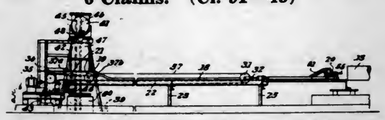


1. In a machine of the character described a supporting frame, straight line guide elements forming of said frame, gear positioning members slideable on a straight line and adapted to assume a fixed setting on said guide elements, each of said members comprising supporting means having a central axis and a cylindrical surface for rotating a gear thereon, gaugeable means comprising parts immovably held on both said members and having each a gauge surface, the measure of a distance between said gauge surfaces obtainable during a fixed setting of said gear positioning members having the same magnitude as that of the distance between said central axes at the same setting.

2,348,713
COMBINED OUTSOLE AND HEEL LIFT
John H. Davis, Long Beach, Calif.
Application September 28, 1942, Serial No. 459,925
5 Claims. (Cl. 36—25)



1. As a new article of manufacture, a combined outsole and heel lift formed in a single piece from flexible material and comprising an outsole having a continuous flat undersurface, a heel lift formed integral with the upper rear portion of said outsole, there being a channel formed between the rear portion of said outsole and heel lift and the forward ends of which channel terminate at the forward end of said heel lift, with the bottom face of said channel lying in the same plane with the upper surface of that portion of the outsole positioned forwardly of said heel lift.

2,348,714
APPARATUS FOR COATING PIPE
Leopold Defiore, Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company, a corporation of Ohio
Application April 29, 1942, Serial No. 440,921
6 Claims. (Cl. 91—45)



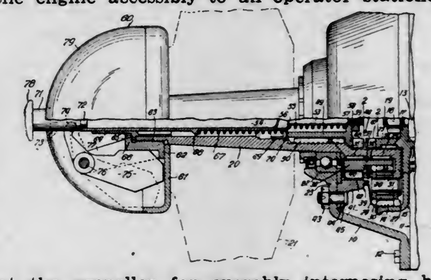
1. Apparatus for coating pipe comprising spaced supports for holding a length of pipe horizontally, an elongated plate curved transversely and positioned to provide a guide trough in alinement with said supports, a carriage traveling along over said trough, a mandrel having one end secured to said carriage with its other end and the intermediate portion free to ride in said trough as said carriage travels therealong, coating means including a spray nozzle mounted on the mandrel adjacent said free end, and means supplying coating material to said coating means.

2,348,715
SLUSHING COMPOSITION
Elmer Wade Adams, Hammond, Ind., and George W. Flint, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application June 25, 1941, Serial No. 399,674
21 Claims. (Cl. 106—14)

1. A slushing composition containing a metal soap of preferentially oil-soluble sulfonic acids obtained by treating a petroleum distillate having a Saybolt Universal viscosity at 100° F. above about 70 seconds with about 6 pounds to about 9 pounds of concentrated sulfuric acid per gallon of distillate.

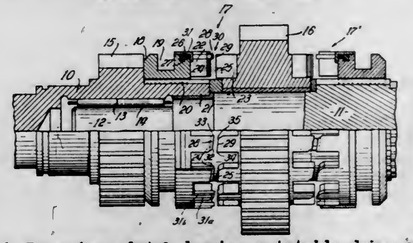
2,348,716
CHANGE-SPEED GEARING FOR AIRCRAFT PROPELLERS
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application May 15, 1941, Serial No. 393,571
15 Claims. (Cl. 74—260)

1. In an engine-driven aircraft employing a change-speed transmission between its engine and a propeller, said propeller having a hub, control means for said transmission extending from the transmission through the propeller hub to the opposite side of the propeller from the engine accessibly to an operator stationed



at the propeller for operably interposing between the propeller and said engine a power connection of said transmission suitable in speed ratio for cranking the engine by rotating the propeller.

2,348,717
QUIET-RATCHETING JAW CLUTCH
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application January 5, 1942, Serial No. 425,626
10 Claims. (Cl. 192—67)

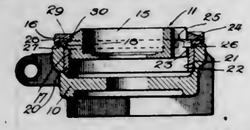


1. In a jaw clutch having rotatable drive and driven members relatively movable axially to mesh portions thereof while the members are synchronized and in certain relative rotative relation, meshable cushioning means comprising counterparts respectively carried with said members about their rotational axis during their rotation, said counterparts having generally parallel opposed faces directed helically about their rotational axis for abutting in ratcheting relation to maintain said meshable portions axially apart during relative rotation of the members and being predeterminedly located circumferentially of said members to become positioned for meshing substantially in concert with said member portions attaining the aforesaid relative rotative relation, and at least one of said counterparts being yieldable, under the force of impact incurred between said counterparts pursuant to such ratcheting, to minimize ratcheting noise.

2,348,718
SHUTTLE CASE BEARING
Samuel A. Bethune, United States Army, and Emmett G. Comstock, Prince George County, Va.
Application March 21, 1942, Serial No. 435,696
3 Claims. (Cl. 112—196)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

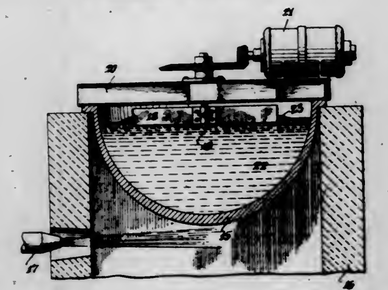
1. In a shuttle case of the type having a flat face, cylindrical shuttle recess; and a shuttle case

cap having a circular inner bearing surface and a flat mounting face having an annular locating flange around and projecting from the plane of said flat mounting face; the combination of a shuttle race bearing; said bearing consisting of a bushing portion and a rim; the bushing portion having a regular cylindrical outer surface extending from the base of the rim to the end of the bushing, an inner cylindrical surface adapted to receive a shuttle and function as a shuttle raceway, an annular notch at the front face of the bearing, said notch being adapted to receive the



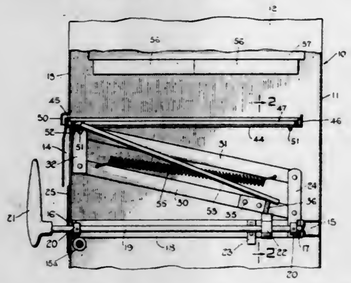
retaining flange of a shuttle, and having a depth less than the thickness of the bushing portion to provide a thin section of the bearing uniting the bushing portion of the bearing with the rim; the outer surface of the rim being machined in exact concentric alignment with the inner raceway surfaces of the bushing portion and the notch and of exact dimensions to fit within the projecting annular flange of the shuttle case cap; the construction and arrangement being such that the bearing and cap interlock in exact predetermined position with each other to establish perfectly aligned bearing surfaces for the shuttle irrespective of irregularities in the alignment of the bearing and the shuttle case.

2,348,719
PROCESS OF SEPARATING IMPURITIES FROM METALS OR ALLOYS
Bernhard Blumenthal, Perth Amboy, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application November 1, 1941, Serial No 417,449
8 Claims. (Cl. 75—93)



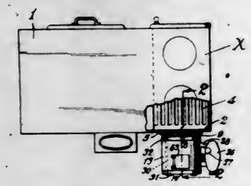
1. The process of refining metals or alloys of the group consisting of lead and tin to remove impurities which are present in amounts not greatly in excess of the amount which is soluble in a melt formed of the impure metal being refined and will float to the surface of said melt comprising the steps of liquating the metal at a substantially constant temperature wherein the impurities tend to segregate from the melt and approach the surface thereof, simultaneously skimming the surface of the melt in a continuous manner without appreciably disturbing the body of the melt to scrape aside the skimmings and expose fresh metal for oxidation, and continuing the operation at said temperature until the impurities have been lowered to the desired point.

2,348,720
ADJUSTABLE BROILER GRID HOLDING RACK
Stephen N. Bobo, New York, N. Y., assignor to Robert P. Sniffen, New York, N. Y.
Application January 25, 1940, Serial No. 315,472
2 Claims. (Cl. 126—337)



1. In combination, a stove or the like having a chamber provided with a heating element, spaced fixed uprights secured within said chamber, a parallel motion mechanism including a pair of spaced arm members pivotally secured at one end to each said fixed upright and a link pivotally secured to each said pair of arm members at an opposite end thereof, a food-supporting frame secured at one end to said links for movement therewith, a crossbrace extending between and rigidly secured to opposite arm members adjacent said fixed uprights at a level beneath said food-supporting frame, rotatable cam means arranged to operate upon said crossbrace whereby said crossbrace acts as a cam follower to move said parallel motion mechanism and its therewith connected food-supporting frame at variant levels with respect to said heating element upon rotation of said cam, said cam having a plurality of peripheral surfaces each having a different center of curvature and each surface having a radius of curvature greater than the distance from that surface to the cam's axis of rotation, and means disposed exteriorly of said chamber for rotating said cam means.

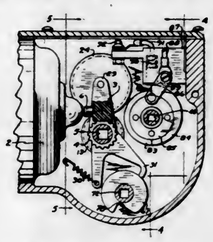
2,348,721
HORIZONTAL HYDROXYLATING BURNER
James L. Breese and Bruce Hayter, Santa Fe, N. Mex., assignors to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application May 11, 1942, Serial No. 442,414
16 Claims. (Cl. 158—91)



1. In combination, a burner assembly including an apertured base plate adapted to be secured to the front of a stove or furnace over an aperture therein, and a burner mounted on said plate and including a housing, a burner pot having a mouth and positioned in spaced relation within said housing, a flame ring partly closing the mouth of said burner pot and apertured in alignment with the aperture of the base plate, a fuel

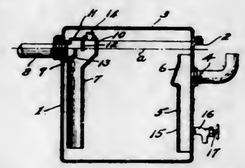
vaporizing pan positioned within said pot, a fuel conduit extending through said housing and pot to said pan, level controlling means for the fuel within said pan mounted upon said outer housing, and means for admitting air to the space within said outer housing and into said pot.

2,348,722
TIMING DEVICE
Irwin G. Boehm, Dayton, Ohio
Application December 26, 1939, Serial No. 310,900
7 Claims. (Cl. 89—1.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



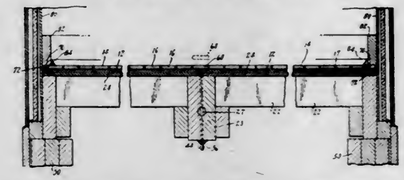
1. A device for establishing the interval of release of bomb-dropping mechanism adapted to release a bomb upon each energization of electrical means, comprising a make-and-break contactor, means for operating said make-and-break contactor, constant-speed driving means, a shaft operatively connected to said driving means to be rotated thereby, a plurality of varied-sized gears carried by said shaft, a plurality of brackets freely rotatably carried by said shaft, a gear rotatably carried by each bracket in meshing engagement with one of said shaft-carried gears, a shaft rotatably carrying said make-and-break-contactor-operating means, a plurality of varied-sized gears carried by said last-named shaft, and means for selectively moving said brackets to bring a bracket-carried gear into mesh with a gear carried by said last-named shaft.

2,348,723
OIL INTERCEPTOR
Edward W. N. Boosey, Detroit, Mich.
Application July 28, 1941, Serial No. 404,314
7 Claims. (Cl. 210—56)



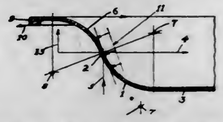
2. An oil interceptor comprising a chambered body, an inlet conduit for discharge of waste liquids thereto containing oil and grease, an open ended conduit within the body to which the inlet conduit discharges intermediate its ends, an outlet conduit opening to the body below the top thereof, a tubular member within the body having an opening adjacent the bottom of the body and an opening at the top to above the liquid level in the body and being connected adjacent its top to the outlet conduit, means within the upper end of the tubular member for maintaining the liquid level in the body above the lowermost point of the outlet, said tubular member being closed to the body except for the opening thereto adjacent its top and bottom.

2,348,724
FLOORING
Miles Harold Carpenter, Severna Park, Md.
Application January 20, 1942, Serial No. 427,451
6 Claims. (Cl. 20—8)



1. A flooring comprising a sub-structure and a removable covering therefor, the covering comprising a plurality of butting panels each of which comprises a base portion and a facing portion fixed thereon, the facing portion being in from the longitudinal marginal edges of the base thereby defining a laterally outwardly extending shelf along each longitudinal marginal edge, openings through the shelves and sub-structure and means passing through said openings to removably secure the panels to the sub-structure in longitudinal edge abutting relation, and means overlying the shelf, interfitting and interlocking with the facing portions of the adjacent panels and flush therewith to complete the facing.

2,348,725
MOLDED FIBER ARTICLE
Charles J. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, Portland, Maine, a corporation of Maine
Application December 4, 1940, Serial No. 368,542
4 Claims. (Cl. 229—2.5)

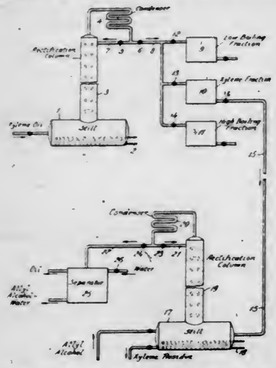


1. An article of the class described comprising a bottom portion, a thickened reinforced edge portion, two reversely curved tangentially joined enclosing rim portions, the outer of which merges into the thickened reinforced edge portion, and external reinforcing ribs integral with all of said portions.

2,348,726
SEPARATION OF XYLENE FROM HYDROCARBON MIXTURES
Charles R. Clark, Springfield Township, Montgomery County, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
Application December 3, 1940, Serial No. 368,315
8 Claims. (Cl. 202—42)

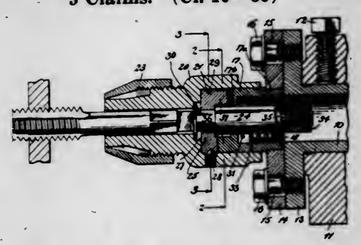
1. A process for the treatment of a xylene fraction to separate the xylene from other hydrocarbons of the group consisting of paraffinic, olefinic and naphthenic hydrocarbons contained therein which distill from the xylene fraction in the same temperature range as the xylene distills therefrom which comprises distilling said xylene fraction and rectifying the vapors evolved

therefrom in the presence of sufficient allyl alcohol to effect separation of a substantial amount



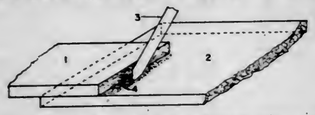
of said other hydrocarbons from said xylene, thereby leaving a residue enriched in xylene.

2,348,727
TOOLHOLDER
George H. Cote, Bridgeport, Conn.
Application November 17, 1942, Serial No. 465,848
5 Claims. (Cl. 10—89)



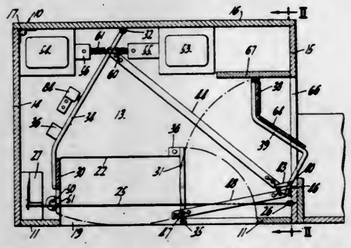
1. A device of the type described comprising a mounting member; a bushing secured thereto and projecting therefrom; a chuck body having chucking means at one end and a bore at the other end having a bearing surface slidingly engaging the external surface of said bushing for axial movement of the body thereon; and lugs on the end of the bushing and cooperating lugs carried by the chuck body to normally hold the bushing and body against relative rotation, said lugs having flat cooperating surfaces and the lugs on one piece being substantially narrower than the spaces between the lugs on the other piece whereby they may readily move into cooperative relation with the flat surfaces in engagement.

2,348,728
METHOD OF ARC WELDING
John D. Crecca, United States Navy
Application April 7, 1941, Serial No. 387,135
6 Claims. (Cl. 219—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



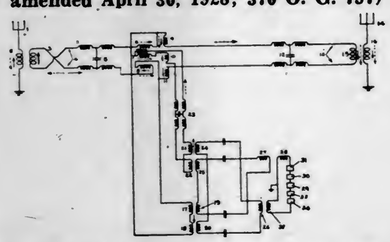
1. A method of making a seam weld, comprising the steps of placing arc-initiating material along the situs of the weld in contact with the work to be welded, disposing a welding electrode with an end thereof at the proper arc distance from said work and adjacent said material, impressing an electric potential between said electrode and said work while said electrode is spaced from said material whereby an arc is initiated by said material while said electrode is maintained spaced from said work, moving said electrode along the situs of the weld at a rate to make the desired weld and simultaneously feeding said electrode toward said work at a rate to maintain the proper arc distance between the electrode and the work, said material functioning to reestablish the arc substantially instantaneously if it is extinguished during the welding operation.

2,348,729
ANIMAL TRAP
Chester W. Crumrine, Irondequoit Township, Monroe County, N. Y.
Application April 23, 1943, Serial No. 484,185
12 Claims. (Cl. 43—99)



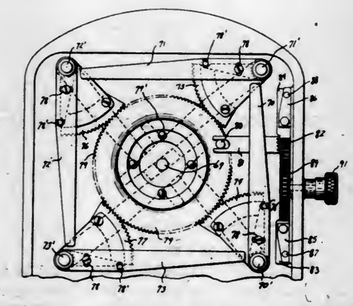
1. An animal trap comprising a casing and a passageway therethrough, a member movable across said passageway to impel an animal to a position adjacent said passageway, an electrocuting platform movable to a position adjacent said passageway for receiving an animal body thereon, common operating means for simultaneously moving said member and said platform to impel and receive an animal respectively, and time delay means for returning said member to initial position and for simultaneously moving said platform to discharge an electrocuted animal therefrom.

2,348,730
VISUAL TYPE RADIO BEACON
Francis W. Dunmore, Washington, D. C., and Frank G. Kear, Minersville, Pa., assignors to the Government of the United States represented by the Secretary of Commerce
Application July 7, 1933, Serial No. 679,366
5 Claims. (Cl. 250—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A method for producing two radio beam carriers of the double-modulation type, and which includes the steps of radiating into space two radio signals in the same direction of the same carrier frequency and each of a figure-of-eight characteristic, modulating each radio signal at a different audio-frequency, superimposed on each radiated figure-of-eight characteristic, a non-directional radiation characteristic of the same carrier frequency, modulating said non-directional characteristic to correspond with said audio-frequency modulations of the figure-of-eight characteristics, respectively, and maintaining said non-directional radiated characteristics of such phase and amplitude that the resultant patterns radiated into space will be cardioidal in shape and each on the same carrier frequency, but modulated at a different audio-frequency, whereby the intersecting cardioidal space pattern provides two radio beacon courses of double modulation type and which may be substantially fixed in space.

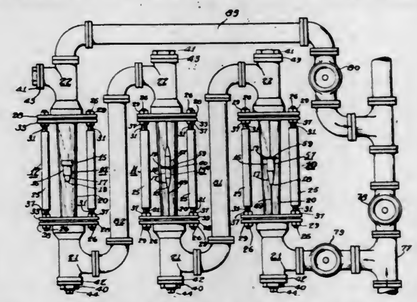
2,348,731
GYROSCOPIC CENTRALIZING AND CAGING DEVICE
Orland E. Esval, Merrick, and Joseph Freitag, Jackson Heights, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application July 31, 1941, Serial No. 404,758
1 Claim. (Cl. 74—5)



In caging means for gyroscopes, the combination of, a casing, a gyro rotor bearing case mounted within said casing for pivotal movement about two mutually perpendicular axes, a pin on the gyro case, mechanism on said casing comprising a plurality of symmetrically spaced, pivotally mounted, arms whose respective pivotal axes are situated at equal radial distances from the caged position of the pin, a driving gear for each of the arms respectively mounted in coaxial relation therewith, an adjustable connection between each of the arms and its associated driving gear, a central gear meshing with the respective arm driving gears, and means for rotating said central gear to simultaneously and equally move the respective arms to engage the pin and thereby cage the case.

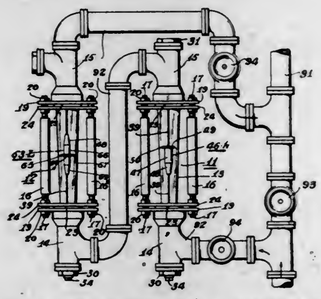
2,348,732
METHOD AND MEANS FOR INDICATING THE VISCOSITY OF FLOWING FLUIDS
Kermit K. Fischer, Philadelphia, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Application December 2, 1940, Serial No. 368,246
6 Claims. (Cl. 265—11)

1. A method for determining the viscosity of a moving fluid which comprises passing said fluid through a variable-orifice constant-pressure-drop flow-meter relatively insensitive to changes in viscosity, and passing said fluid through a variable-orifice constant-pressure-drop meter



sensitive to and affected by changes in rate-of-flow and changes in viscosity, said meters being connected in series.

2,348,733
METHOD AND MEANS FOR INDICATING THE SPECIFIC GRAVITY OF FLOWING FLUIDS
Kermit Fischer, Bridge Valley, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Original application December 2, 1940, Serial No. 368,246. Divided and this application January 15, 1943, Serial No. 472,452
5 Claims. (Cl. 265—44)

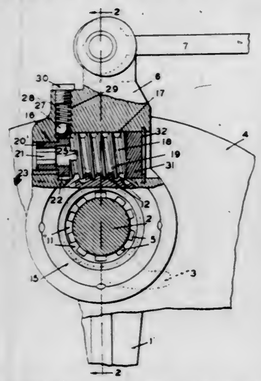


1. A method for determining the specific gravity of a moving fluid which comprises passing said fluid through a rotameter relatively insensitive to changes in specific gravity, and passing said fluid through a rotameter sensitive to and affected by changes in rate-of-flow and changes in specific gravity, said rotameters being connected in series.

2,348,734
SLACK ADJUSTER
Walter R. Freeman, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application December 14, 1942, Serial No. 468,890
5 Claims. (Cl. 74—522)

1. In a slack adjusting mechanism for association with an actuating shaft and comprising an actuating arm, a worm wheel rotatably supported in the arm and adapted to be secured to the actuating shaft, a solid worm mounted in the arm and cooperating with the worm wheel, a separate adjusting shaft journaled in the arm axially with the worm and positioned longitudinally with respect to the body of the worm, said shaft being provided with an irregular wrench receiv-

ing bore open to the exterior, detent means carried by the adjusting shaft and arm for holding the shaft in adjusted positions, inter-engaging



means carried by the adjacent ends of the adjusting shaft and worm, and means for holding the worm and adjusting shaft from relative longitudinal movement.

2,348,735

METHOD OF AND MATERIAL FOR PRODUCING CORRECTED PHOTOGRAPHIC IMAGES

Béla Gáspár, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada

Application January 24, 1941, Serial No. 375,850
15 Claims. (Cl. 95—2)



1. A method of producing a corrected photographic image in a multilayer photographic material, including a light sensitive silver halide layer for each color separation image to be recorded in the material, and a supplementary light sensitive silver halide layer, which comprises printing a color separation image to be recorded into each of said first mentioned layers, printing a correction image into said supplementary layer, developing the latent image thus formed in the supplementary layer, printing the developed image into one of said first mentioned layers to correct a color separation image, and removing the developed image in said supplementary layer from said material.

2,348,736

FINELY DIVIDED SULPHUR PRODUCT

Sheldon B. Heath, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 24, 1940, Serial No. 347,297
5 Claims. (Cl. 252—313)

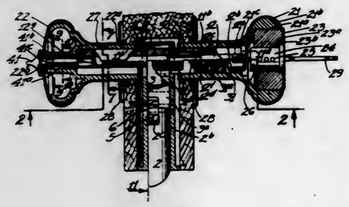
1. A process for preparing finely-divided sulphur, the particles of which do not tend to reassociate on storage, which comprises the steps of emulsifying liquid sulphur with at least an equal volume of water in the presence of monobutylphenylphenol-sodium-monosulphonate and rosin at a pH of between 7 and 8.5 at a temperature above the melting point of sulfur and below 160° C. and under autogenous pressure, passing the emulsion through a homogenizer at the elevated temperature and pressure, reducing the pressure on the product as it is discharged from the homogenizer to flash off a portion of the water and lower the temperature of the mixture so as to solidify the sulphur particles, and immediately treating the dispersion with sulphite waste liquor product in the amount of at least 0.5 per cent by weight of the sulphur calculated on a dry basis.

2,348,737

DOOR LOCK

James Hillgren, Huntington Park, Calif.

Application June 29, 1940, Serial No. 343,191
11 Claims. (Cl. 70—150)



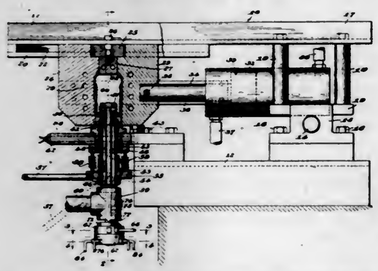
3. In a lock of the class described, a latch mechanism, means for operating the latch mechanism, and a locking rod in association with the operating means for locking the latch mechanism, one end of the rod having a longitudinal extension and also a lateral projection spaced laterally from the extension, the space between the extension and the projection adapted to receive a key through the operating means for rotating the rod.

2,348,738

MAKING HOLLOW THERMOPLASTIC WARE

Victor E. Hofmann, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application August 16, 1940, Serial No. 352,906
7 Claims. (Cl. 18—55)



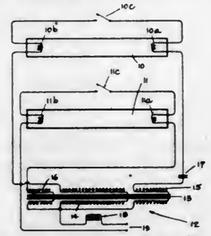
1. The method which comprises expanding a hollow preform of thermoplastic molding material within a heated mold by pneumatic pressure, applying a cooling liquid to the interior surface of the plastic blown article and wetting said surface with the liquid while the liquid is at a low enough temperature to rapidly cool the molded material and while the said material is in contact with the heated mold, thereby setting the material, and separating the article from the mold walls before more than a superficial cooling of said walls is produced by said cooling liquid.

2,348,739

GASEOUS DISCHARGE LAMP CIRCUIT

George B. Horn, Fairfield, Conn., assignor, by mesne assignments, to The Wheeler Insulated Wire Company, Incorporated, Bridgeport, Conn., a corporation of Delaware

Application September 18, 1941, Serial No. 411,279
9 Claims. (Cl. 315—96)



1. In a circuit for energizing a pair of electric gaseous discharge lamps, means for producing electrically displaced energizing currents, a leading current for one lamp and a lagging current for the other lamp; a transformer having a primary coil and a pair of secondary coils, all of said coils having a common terminal, one secondary coil being connected to each lamp; and a choke coil in a supply line connected to the common terminal of the transformer, said choke reducing the operating current requirements for said tubes.

2,348,740

DIAPHRAGM AND METHOD OF FORMING SAME

Harley Y. Jennings, Clio, and Joseph A. Gillen, Flint, Mich., assignors to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan

Application January 29, 1938, Serial No. 187,694
16 Claims. (Cl. 154—2)



1. As a new article of manufacture, a diaphragm comprising a fabric having an exposed surface coated with a relatively tough and hard layer of a cured thermo-setting resinous substance rendering the fabric substantially impermeable, and a relatively soft uncured mass of plastic material of the same composition as the hard layer surrounding the fibers of the fabric whereby to render the diaphragm relatively soft and flexible.

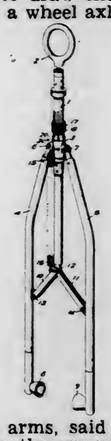
2,348,741

DEVICE FOR MOVING AIRCRAFT

Le Roy S. Jessen, March Field, Calif.

Application February 12, 1943, Serial No. 475,681
9 Claims. (Cl. 280—33.14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a device for moving aircraft, in combination, a draft bar, a head member mounted thereon and movable relative thereto longitudinally thereof, a pair of arms pivoted to said member, a plurality of links pivotally connected to one end of said bar, each of said links being pivoted respectively to one of said arms, resilient means inter-connecting said member and said draft bar and normally acting thereupon in a manner tending to draw the said arms toward one another, and a wheel axle receiving element



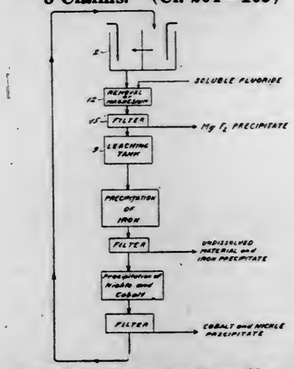
on each of said arms, said elements being arranged to receive the opposite ends of a wheel axle.

2,348,742

MAGNESIUM CONTROL IN MANGANESE ELECTROWINNING

Charles L. Mantell, Manhasset, N. Y., and William L. Hammerquist, Knoxville, Tenn., assignors to Electro Manganese Corporation, Minneapolis, Minn., a corporation of Delaware

Application October 25, 1940, Serial No. 362,802
8 Claims. (Cl. 204—105)



1. The process of controlling the magnesium content of electrolytes used in the electrowinning of manganese containing manganese in the form of manganese sulfate together with magnesium sulfate as an impurity, which comprises treating said electrolyte with a soluble fluoride, partially precipitating magnesium as magnesium fluoride and separating it from the electrolyte, leaving the remainder of the magnesium in solution to an extent not greater than about 4 grams per liter and removing excess fluoride.

2,348,743

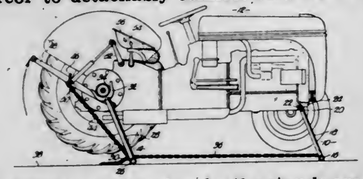
SELF-CONFORMING TRACTOR JACK

Irl W. McCue, Farmingdale, N. Y.

Application May 29, 1942, Serial No. 444,977
2 Claims. (Cl. 254—94)

1. A jack of the character described for tractors having operating links and hydraulic mechanism for moving the same, said jack comprising front and rear stands arranged at an angle to the vertical on the supporting surface beneath the tractor;

a chain interconnecting the lowermost portions of said stands as the upper ends are in engagement with the tractor whereby said lowermost portions can be accurately spaced independently of the contour of the supporting surface; chains, each connected at one end thereof to the rear stand and each having a hook at the other end thereof to detachably connect said other end to



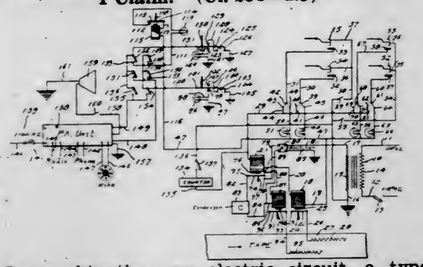
said operating links whereby the stands are shifted toward a vertical position to lift the tractor from the supporting surface, one of said stands having a pin thereon for detachable engagement with a selected one of the links adjacent one end of the first named chain when the latter is serving to interconnect the said stands, whereby the effective length of the first named chain may be varied to compensate for variations in the contour of the supporting surface.

2,348,744

TYPING RHYTHM INDICATOR

Glenn D. McMurry, Larned, Kans.

Application June 18, 1942, Serial No. 447,567
1 Claim. (Cl. 234—1.5)



In combination, an electric circuit, a typewriter, a switch interposed in said circuit and connected to said typewriter for operation by the latter, a pair of styli, a movable tape correlated with said styli, an electric operator for each stylus interposed in said circuit and operable upon closing of the switch by operation of said typewriter to effect actuation of said styli to thereby form on said tape visible recordings of the typewriter operation and means connected with one of said operators for automatically deenergizing said one operator after the latter has been momentarily energized whereby one stylus will produce a recording different from the other stylus and a relay connected to said one operator for controlling the latter and in series with the other operator.

2,348,745

TREATMENT OF HYDROCARBONS

Francis C. Moriarty, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 8, 1941, Serial No. 422,083
7 Claims. (Cl. 196—27)

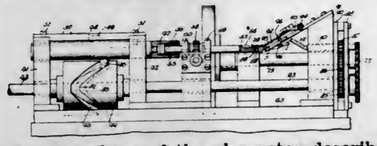
1. A process for refining hydrocarbon distillate which comprises contacting said distillate with marl at a temperature in excess of about 500° F. but under conditions such that substantial cracking does not occur.

2,348,746

MACHINE FOR CROCHETING SHEATHINGS ABOUT CORES

Peter F. Nardulli, Chicago, Ill., assignor to Consolidated Trimming Corporation, New York, N. Y., a corporation of New York

Application March 2, 1942, Serial No. 433,101
20 Claims. (Cl. 66—1)



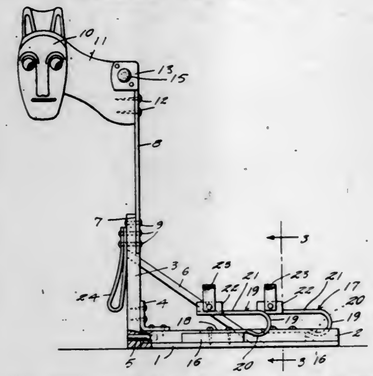
4. In a machine of the character described, a holder for an element to be sheathed, a crochet hook, a cord feeding member adjacent the element to be sheathed, means for turning the member to bring the cord feeding part thereof first on one side and then on the other side of that edge of the element about which a sheath is to be crocheted while maintaining the path of movement of the feeding end of the member always on the same side of the element, means for reciprocating the hook, and means for shifting the path of reciprocation of the hook from one side to the other of that edge of the element about which a sheath is to be crocheted.

2,348,747

MECHANICAL EXERCISING HORSE

Charles Newman, Elizabeth, N. J.

Application August 9, 1943, Serial No. 497,986
8 Claims. (Cl. 272—52)



1. An exercising device comprising a base, a pair of spring supported stirrups mounted upon said base, a vertically extending resiliently supported body upon the base and disposed in a plane passing between said stirrups, and hand grips carried by the resiliently supported body to be grasped while standing upon said stirrups.

2,348,748

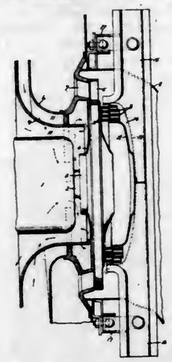
GAS TURBINE

Walter I. Nichols, Saugus, Mass., assignor to General Electric Company, a corporation of New York

Application April 17, 1942, Serial No. 439,412
4 Claims. (Cl. 60—41)

1. The combination with a turbine wheel, of a cooling wall adjacent a side surface thereof comprising at least in part a plurality interspersed cylindrical rings and rings Z-shaped in

section, the radially extending parts of the Z-rings forming a radially extending wall and the



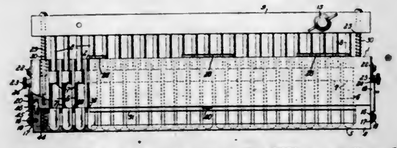
axially extending parts being united with the cylindrical rings to form axially extending fins on each side of such wall.

2,348,749

APPARATUS FOR FILLING CAPSULES

Vincent B. Norelli, Arlington, Va.

Application June 30, 1941, Serial No. 400,512
5 Claims. (Cl. 226—41)



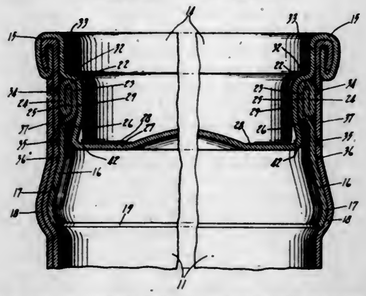
5. A device for simultaneously filling a plurality of capsules with powdered material which comprises a dispensing block having a plurality of powder discharge ports in one face thereof, means for expelling powdered material through said discharge ports, a pair of parallel slides adjustably mounted on said dispensing block, and means rotatably mounted between said slides for holding capsule elements in filling relation to said discharge ports.

2,348,750

CONTAINER

Carl F. Peck, Jersey City, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application October 7, 1941, Serial No. 413,991
3 Claims. (Cl. 220—54)



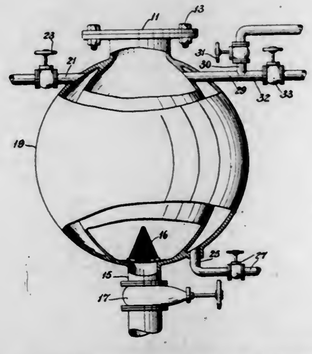
1. A sheet metal tearing strip container, comprising a tubular body having a tearing strip set off by score lines, an interior collar secured in said body by means of cooperating beads formed at the bottom of said collar and in the engaged body wall below said score lines, and an end member secured to said body above said collar and having an annular wall section disposed in frictional engagement with the interior of said collar, said body wall having an additional score line of less depth disposed between said body wall bead and said tearing strip, whereby to provide a yieldable barrier to prevent strains in the body wall set up in the beading of the body and collar from reaching and breaking the body wall at the nearest tearing strip score line.

2,348,751

TREATMENT FOR POLYAMIDES

Wesley Rasmus Peterson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application August 2, 1940, Serial No. 350,021
8 Claims. (Cl. 260—78)



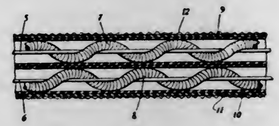
1. The process which comprises depolymerizing a solid synthetic linear polyamide to a fluid mass by heating the same in the presence of water, removing the water, and polymerizing the residue.

2,348,752

ELECTRIC CABLE

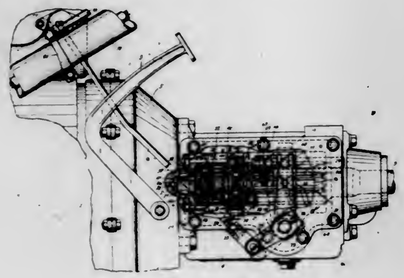
Joshua Creer Quayle, Ashton, Chester, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application November 8, 1941, Serial No. 418,406
In Great Britain September 17, 1940
7 Claims. (Cl. 174—29)



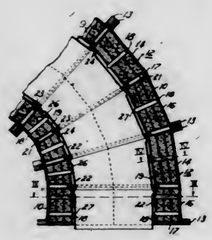
1. An air space electric cable comprising in combination a pair of conductors, a spacing member surrounding each conductor in the form of a cord arranged in an open helix and comprising a skeleton of glass fibres bonded together with a thermo plastic dielectric binder, a tube of dielectric material surrounding each said spacing member and a conducting screen embracing both said tubes to form a flat twin air space cable.

2,348,753
CHANGE SPEED TRANSMISSION
Glenn T. Randol, St. Louis, Mo., assignor of forty per cent to William M. Liddon, Nashville, Tenn.
Application December 28, 1940, Serial No. 372,047
11 Claims. (Cl. 192—53)



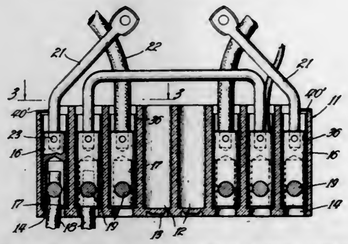
1. In a transmission mechanism, a driving member, a driven member, one of said members being provided with a recess, a radially movable clutch element carried by the other of said members and adapted to engage the recess of the first named member to lock said members together, an actuating member mounted on the member carrying the clutch element for relative rotation thereto on the same axis and provided with means to radially move the clutch element into the recess when rotated relatively to the clutch carrying member, means for frictionally connecting the driving and driven members, and means operable by a rotation of the actuating member prior to the movement of the radially movable clutch element for operating said frictional connection.

2,348,754
TURBINE APPARATUS
James L. Ray, Elm Grove, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 6, 1942, Serial No. 453,823
15 Claims. (Cl. 138—64)



1. A high temperature gaseous fluid confining structure capable of safely withstanding large variations in temperature and/or pressure of the confined fluid comprising a first means defining a fluid confining wall having therein one or more restricted openings therethrough, permeable insulation covering the outer surface of said fluid confining wall, and a second means defining a coacting imperforate wall surrounding said insulation.

2,348,755
TERMINAL BLOCK FOR WATT-HOUR METERS
James H. Reynolds and Stanley S. Green, La Fayette, Ind., assignors to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application February 5, 1940, Serial No. 317,374
28 Claims. (Cl. 175—222)



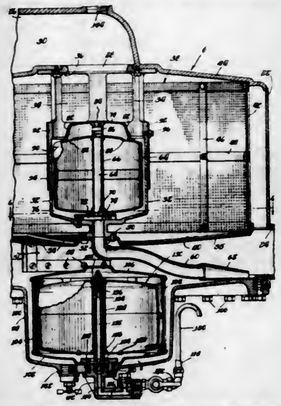
1. A terminal block for watt-hour meters and the like, including a block molded of suitable ceramic material, a plurality of connectors carried within the block and separated by a thin wall of the ceramic material, and an auxiliary insulator of a different material additionally separating at least one of the connectors from another, with the shortest line between said connectors extending through both the ceramic wall and the auxiliary insulator.

2,348,756
PLASTIC COMPOSITION
Joseph D. Ryan, Toledo, Ohio, assignor to Grace G. Ryan
No Drawing. Application July 25, 1938, Serial No. 221,104
13 Claims. (Cl. 260—23)

1. An elastic waxlike plastic composition comprising a waxy body selected from the group of high molecular weight fatty acids and waxes, solid synthetic resin soluble therein and plasticizer for said resin, the amount of waxy body being in excess of the amount of resin on a weight basis.

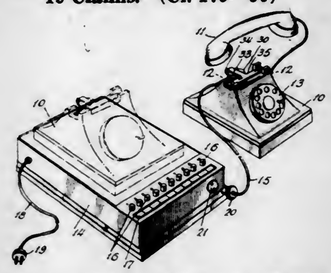
2,348,757
LIQUID DISPENSING DEVICE
David Samiran, Fairfield, Ohio
Application April 24, 1940, Serial No. 331,366
9 Claims. (Cl. 210—54)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a device of the class described, in combination with a reservoir for liquid petroleum product which may contain entrained liquid of greater specific gravity, means forming a dispensing line including a conduit connected to said reservoir, means associated with said line and reservoir for causing the liquid petroleum product to flow from said reservoir through said dispensing line, the liquid of greater specific gravity entrained in said liquid petroleum product flowing from said reservoir into said conduit with the liquid petroleum product, a casing forming a part of said dispensing line, said casing having an inlet passage connected to said conduit, a float receiving shell in said casing, means forming a common outlet passage from the upper portion of said shell and said casing, said shell having a main inlet passage in the upper portion thereof and having an imperforate portion below said outlet passage, a float in said shell and adapted, when raised, to fit said imperforate portion with slight clearance, a conduit connected to said outlet passage for delivering the liquid petroleum product from said casing, a valve carried by said float for opening and closing said outlet passage, said shell having an inlet opening in its lower portion, means for causing the liquid petroleum product and the entrained



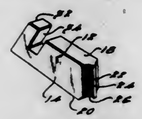
heavier liquid in said casing to pass into said shell through said inlet opening, said inlet opening being relatively small compared to said main inlet passage, means for varying the size of said main inlet passage and means for discharging from said casing, the heavier liquid settling in the bottom thereof.

2,348,758
AUTOMATIC TELEPHONE CALLING SYSTEM
Maurice Samburg and Ernest Amatnick, New York, N. Y.; said Amatnick assignor to said Samburg
Application November 15, 1939, Serial No. 304,476
19 Claims. (Cl. 179—90)



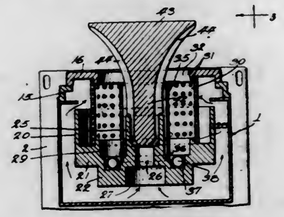
1. In an automatic telephone calling system, the combination with the conventional transmitting and receiving instrument including a switch of a revoluble single disc, a plurality of pins placed in series within the apertures of said disc in concentric relationship, means for momentarily operating, by said pins a plurality of series of elements, the sequential disposition of which upon the face of said disc corresponds to the exchange and numerical designation of a subscriber station to be called, to effect the automatic transmission of impulses corresponding to the said designation of such station, a plurality of push-buttons for effecting the operative movement of such elements, a motor for moving said elements in their predetermined order upon depression of one of said push-buttons, and means, controlled by the movement of said elements to transmit said impulses through the switch of the telephone instrument, the sequential disposition of said elements being interchangeable without alteration in the mechanical components of the system.

2,348,759
GEAR CUTTER
John Sneed, Huntington Woods, Mich.
Application January 21, 1941, Serial No. 375,115
5 Claims. (Cl. 29—95)



1. A cutter for use in cutting teeth in machine elements comprising an elongated member generally rectangular in cross section, an elongated cutting portion formed along one end edge thereof, said cutting portion having cross sectional configuration conforming to the shape of the entire interdental space between the teeth to be cut, said one end edge tapering inwardly toward one of the side edges of said member to provide cutting clearance, the opposite end edge also tapering inwardly toward said one of the sides, and a slot in said member through said one of said sides substantially parallel to said opposite end edge.

2,348,760
OIL BURNER
Benjamin I. J. Stamm, New York, N. Y.
Application June 3, 1941, Serial No. 396,451
6 Claims. (Cl. 158—91)

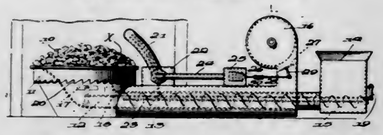


4. In an oil burner, a casing constituting an air chamber and provided with an air inlet, a top wall for the casing formed with an opening, a cup mounted in the casing under the opening and having a bottom and an upstanding peripheral wall, a tubular socket disposed vertically at the center of the bottom and having an air inlet through the bottom of the cup, the bottom being of appreciable thickness and having a depending central portion, the upper face of the bottom being formed with an annular well surrounding the socket and an annular fuel channel in the bottom of the well, the thickened bottom of the cup being formed with a fuel inlet communicating with the fuel channel, a ring of helically wound wire in the fuel channel for breaking up fuel in the channel, perforated sleeves in the cup spaced from each other and constituting inner and outer walls for a combustion chamber having the well at its bottom, and a spreader disposed vertically with its lower end fitting into the socket and its upper portion projecting upwardly through the opening in the top wall of the casing.

2,348,761
METHOD OF PRODUCING PROTEIN PLASTICS BY COLD MOLDING
Oswald C. H. Sturken, Closter, N. J., assignor of fifty per cent to Harriet Sturken, Closter, N. J., and fifty per cent to Sidney L. Reich, Forest Hills, Long Island, N. Y.
No Drawing. Application October 28, 1941, Serial No. 416,906
7 Claims. (Cl. 18—48)

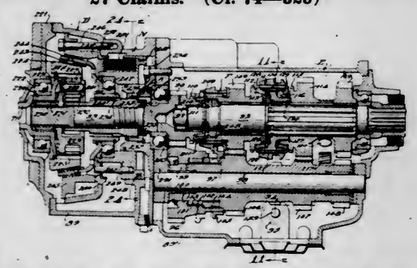
1. A process of the character described, consisting in inserting a molded protein article in a bath comprising formaldehyde and kieselguhr.

2,348,762
STOKER
Harold V. Sturtevant, Norristown, Pa.
Application December 29, 1938, Serial No. 248,309
10 Claims. (Cl. 110—45)



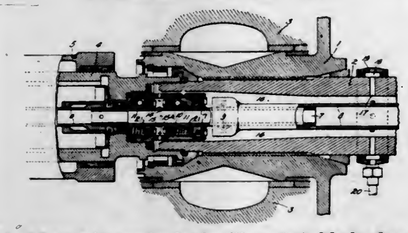
1. In a stoker furnace having a movable fuel bed, means for supplying air to said fuel bed, means for regulating the supply of air including a hollow fluid receiving member positioned adjacent to and adapted to periodically contact the fuel bed, a temperature responsive means, a regulator member in said air supply and connected directly to said temperature responsive means, and means for circulating a fluid through said hollow member and then through said temperature responsive means whereby the regulator is actuated in response to the temperature of that portion of said fuel bed adjacent to the fluid receiving member.

2,348,763
POWER TRANSMISSION
Augustin J. Syrovy, William T. Dunn, and Otto W. Schotz, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 5, 1941, Serial No. 405,530
27 Claims. (Cl. 74—328)



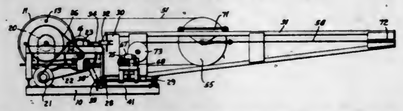
1. In a power transmission for driving a motor vehicle having an engine, a driving shaft adapted to be driven by the engine; a driven shaft adapted to drive the vehicle; an intermediate shaft disposed between said driving and driven shafts; means for selectively driving said intermediate shaft from said driving shaft at the speed of the driving shaft and at a reduced speed relatively thereto; means for selectively driving said driven shaft from said intermediate shaft at the speed thereof and at a plurality of reduced speeds relatively thereto; means including selectively operable fluid pressure motors for controlling said driving means; a plurality of control means carried by the vehicle for controlling operation of said motors; said control means being constructed and arranged such that upon acceleration of the vehicle from rest, automatic step-up in speed ratio between said driving shaft and said intermediate shaft is effected at predetermined speed, and automatic step-up in speed ratio between said intermediate shaft and said driven shaft is effected when said vehicle is traveling at a relatively higher predetermined speed.

2,348,764
VARIABLE PITCH AIRSCREW
Frederick Metcalf Thomas, Hatfield Aerodrome, Hertfordshire, England, assignor to The De Havilland Aircraft Company Limited, Hatfield Aerodrome, Hertfordshire, England
Application November 7, 1938, Serial No. 239,387
In Great Britain November 11, 1937
14 Claims. (Cl. 170—163)



1. Means to control a bodily rotatable hydraulic motor, such as a pitch-changing motor carried by the shaft of an airscrew, which motor includes a fixedly mounted element operable at will in one sense or the other to control the sense of pitch change, comprising a hollow stem communicating as a conduit with the interior of the motor, and mounted for axial movement with its movable element, a hydraulic receiver surrounding said stem, and releasable locking devices controlling operation of said motor, for pitch change, said locking devices being normally engageable with the stem, and being associated with the receiver for operation thereby, and means to supply pressure fluid to the receiver, and to relieve pressure therein, for operation of the locking devices.

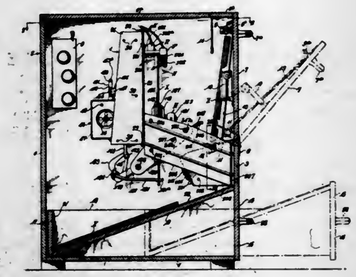
2,348,765
METHOD AND MACHINE FOR WINDING
William W. Trickey, Essex Fells, N. J., and Loomis G. Wilhelm, Henryetta, Okla., assignors to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey
Application September 4, 1941, Serial No. 409,450
13 Claims. (Cl. 242—11)



6. In the method of wrapping a line around an object, the steps comprising forming a line by joining a measured length of cable to a length of wire, securing the free end of the cable to the object, wrapping the line including the joined lengths of cable and wire about the object, securing the last or unwrapped end of the wire to the object, wrapping the object in reverse to the initial wrapping with the line from the initial wrapping, securing the wire of the line of the last wrapping to the object by clamping the wire to the object, and disconnecting the length of cable from the wire and object and removing same.

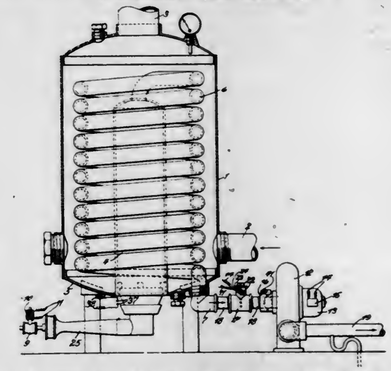
7. The combination with apparatus for applying a tensioned winding of a line about a pipe, including means for supporting and rotating a pipe about its axis, a carriage supported for travel alongside of the pipe and means for moving the carriage lengthwise of the pipe during a line winding operation, of a sheave for engaging a loop of line having reaches which extend between the sheave and opposite sides of the pipe and which constitute continuations of separated windings of a line about the pipe, a cable attached to said sheave for exerting a pull thereon and on said loop, and tension applying means wholly supported by said carriage and attached to said cable for applying a substantially constant pull on said cable, sheave and loop of line.

2,348,766
AUTOMATIC RECORD PLAYING AND CHANGING APPARATUS
Frederic W. Wagner and Ray Wilson, Chicago, Ill., assignors to Zenith Radio Corporation, Chicago, Ill., a corporation of Illinois
Application October 19, 1940, Serial No. 361,972
97 Claims. (Cl. 274—10)



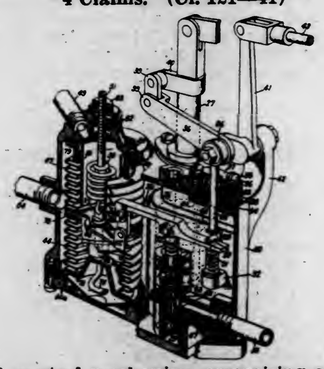
24. Automatic record playing and changing apparatus comprising: means for supporting a plurality of records in a stack; means for successively ejecting records from said stack one at a time; clamping means including a clamping head and a center pin adapted to carry a record thereon; means for positioning an ejected record in a generally flatwise position such that the pin hole thereof registers with said center pin; a rotatable turntable element; means for moving said center pin and clamping head into engagement with said record and then moving said clamping head to a substantially vertical position and engaging the record with said turntable element; a tone arm; a reproducer including a needle carried by said tone arm, said tone arm having a normal inactive position in which said needle is free from engagement with said record; automatic means for engaging said needle with the groove in said record after said turntable element starts to drive said record; and means actuable by said tone arm during the engagement of said needle with the eccentric groove at the center of the record for causing the release of said needle from the record groove and the return of said tone arm to its initial inactive position.

2,348,767
GAS FIRED APPARATUS
Raymond Walker, St. Louis, and John J. Wolfersperger, Webster Groves, Mo.
Application December 18, 1939, Serial No. 309,754
2 Claims. (Cl. 158—7)



1. A device of the character described comprising a wall forming a combustion chamber of relatively large diameter and having one end opening to atmosphere, an element located within said end of said chamber and forming a restricted inlet about said element and within said chamber, a burner head supported adjacent to said chamber and having a discharge outlet for a primary mixture of air and gas separated from said inlet by a space for admitting secondary air into said mixture, an ignition device approximately at said space for initially and partially igniting the primary mixture discharged from said outlet before said mixture enters said inlet, and mechanism for maintaining an induced flow from said space through said inlet and effecting a mixture of additional or secondary air with the partially ignited primary mixture of air and gas and causing more complete combustion of the final mixture within said chamber.

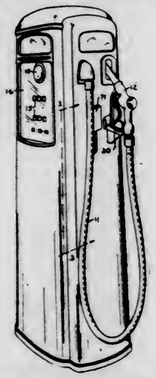
2,348,768
CONTROL MECHANISM
Donald F. Warner, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Original application January 6, 1940, Serial No. 312,721. Divided and this application July 23, 1942, Serial No. 452,024
4 Claims. (Cl. 121—41)



1. A control mechanism comprising a controlling device, a floating lever connected to the de-

vice, a pilot valve connected to the lever, a hydraulic motor having a stem and being controlled by the pilot valve, and a follow-up mechanism between the stem and the floating lever including a lever connected to the stem, means pivotally supporting the lever, a cylindrical member secured to the lever off-center relative to the center of the pivotal support to form an eccentric, and means engaging the eccentric and the floating lever including a rod and a spring.

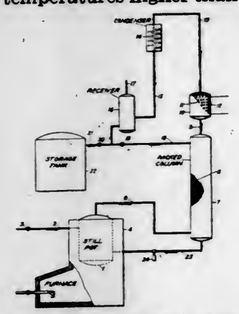
2,348,769
LIQUID DISPENSING MEANS
Paul E. Waugh, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application April 11, 1939, Serial No. 267,262
4 Claims. (Cl. 221—95)



1. In a liquid dispensing apparatus, a housing, a dispensing line having a portion enclosed in said housing and a flexible hose portion outside of said housing for dispensing the liquid, a meter within said housing and in said line, means in said housing and operated by said meter for registering a function of the liquid as it is being dispensed, portable means for simultaneously registering an identical function of the liquid as it is being dispensed, a cable connecting said portable registering means to said registering means within the housing, means for supporting the cable in the housing to yield the cable when tension is applied to the cable and to retrieve the cable into the housing when the tension is relaxed whereby to permit the portable registering means to be positioned remotely from said housing and actuated simultaneously with the registering means in the housing, and means for preventing retrieving of the cable during dispensing when extended and tension is relaxed on the cable.

2,348,770
RECOVERY OF ALUMINUM BROMIDE CATALYST
Irving H. Welinsky, Media, Pa., and Manuel H. Gorin, Dallas, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1942, Serial No. 459,542
12 Claims. (Cl. 23—96)

10. A process for the recovery of aluminum bromide from light tarry complexes of the aluminum bromide with hydrocarbons formed in low temperature hydrocarbon conversion processes in which aluminum bromide is used as the catalytic agent, which comprises adding a small amount of metallic aluminum to the tar, destructively distilling the catalyst containing tar by heating it in admixture with the metallic aluminum to a temperature between 300° C. and 900° C. for a prolonged period of time in a heating zone, passing the vapors evolved through a fractionating column to a condenser, condensing vapors condensible at temperatures higher than 100° C. sep-



arating off the non-condensed vapors, returning the condensate to the column as reflux, continuing the distillation with total reflux of the condensible vapors until the vapors attain a relatively constant temperature at approximately the boiling point of the catalyst at the pressure in the system, and then withdrawing and recovering condensed aluminum bromide from the system.

2,348,771
PLANOGRAPHIC PRINTING PLATE
William B. Wescott, Dover, Mass., assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 4, 1940, Serial No. 312,390
21 Claims. (Cl. 101—149.2)

1. A planographic printing plate having a unified cellulosic printing face capable of retaining image forming material impressed thereon, when the plate is substantially dry, against displacement by dampening solutions, and of repelling lithographic inks from its non-image areas when the plate is thoroughly wet with such solutions, such plate being composed of substantially pure cellulose, a substantial portion of said face being in the form of a non-fibrous unifying continuum, characterized in that the lateral water diffusion rate thereof is not more than 25 millimeters in four hours.

2,348,772
METHOD OF FABRICATING VINYLIDENE CHLORIDE POLYMERS
Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application June 1, 1942, Serial No. 445,386
5 Claims. (Cl. 18—55)

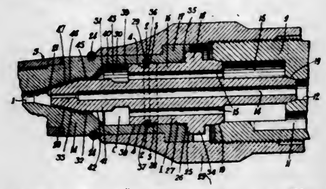
1. The method of making strong flexible articles from a material selected from the group consisting of the polymer of vinylidene chloride and the crystalline copolymers thereof, which consists essentially in the steps of, (1) heating the crystalline polymeric material to a temperature between its softening point and its decomposition temperature, (2) shaping the softened polymer, (3) cooling the shaped polymeric body to convert it to a supercooled condition, and thereafter (4) stretching at least a portion of the shaped, supercooled polymer to effect a permanent deformation thereof.

2,348,773
PROTECTIVE SHEATH FOR SURGICAL AND MEDICAL USE
Edwin T. Wyman, Brookline, Mass.
Application February 25, 1942, Serial No. 432,252
4 Claims. (Cl. 2—21)



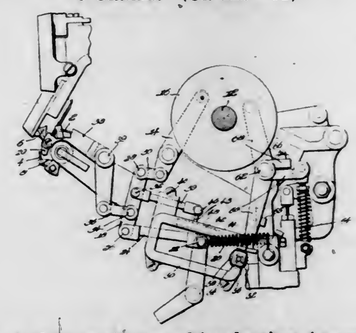
1. A protective sheath having thin, flexible, elastic and resilient walls, closed at one end and open at the other end, having a constriction smaller in diameter than any other part of the sheath, spaced apart from both ends of the sheath and located at a substantial distance from the closed end, sufficient to enable such constriction to serve as a binder securing the sheath to the member on which it is applied, and said open end having a free rim which is capable of being rolled back on the contiguous walls in a manner to cause such walls to be wrapped around it; the sheath having its largest diameter at its open end.

2,348,774
BLOWPIPE
Clifford C. Anthes, Union, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application August 3, 1940, Serial No. 350,177
4 Claims. (Cl. 158—27.4)



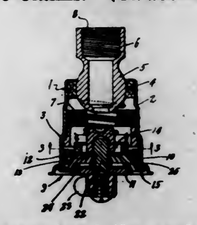
1. A blowpipe comprising, in combination, a tube having at one end a cylindrical surface of constant diameter extending forwardly from said end, an annular groove having a frusto-conical cam surface extending outwardly and forwardly from said cylindrical surface and an annular wall extending inwardly from said last-named cam surface, a cylindrical surface of constant diameter extending forwardly from said wall, a frusto-conical surface extending inwardly and forwardly from said last-named cylindrical surface, a cylindrical surface of constant diameter extending forwardly from said last-named frusto-conical surface, and a frusto-conical surface extending inwardly and forwardly from said last-named cylindrical surface; a plug having a cylindrical surface of constant diameter fitting the corresponding surface of said tube, an annular groove having parallel side walls the forward one of which is in a plane containing the wall of said groove in said tube, a cylindrical surface of constant diameter extending from said wall and terminating in spaced relation to the forward end of the corresponding cylindrical surface of said tube, a nozzle having its outer surface spaced from the inside of said tube to provide an annular gas distributing chamber, said nozzle having a cylindrical outer surface of constant diameter spaced from the corresponding inner surface of said tube to provide a cylindrical gas passage extending forwardly from said chamber, said nozzle also having a frusto-conical end portion spaced from the corresponding frusto-conical inner surface of said tube to provide a frusto-conical gas passage extending from said cylindrical gas passage; said tube having an axial gas passage extending therethrough and through said nozzle; said tube also having a plurality of longitudinal gas passages opening to said gas distributing chamber; said plug being incidentally subject to undesirable rotary and lateral movement with respect to said tube; and means for inhibiting such movement comprising a polygonal split spring ring fitting said grooves so as to inhibit relative movement between said tube and said plug; the arrangement being such that said plug and spring ring may be withdrawn from said tube without damage to any of the parts.

2,348,775
PRESSER FOOT LOCK FOR SHOE SEWING MACHINES
Corwin W. Baker, Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 14, 1941, Serial No. 419,099
9 Claims. (Cl. 112—61)



1. A shoe sewing machine having, in combination, stitch forming devices, a presser foot, a work support, and mechanism for clamping the work comprising a yielding member acting after the work is released to bring the presser foot against the work, a hydraulic pressure member connected to the presser foot, and a valve for preventing flow of fluid caused by pressure on said hydraulic member to hold the presser foot and work support from separation after the work is clamped.

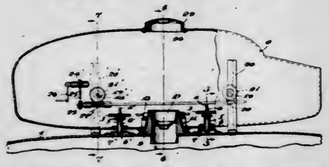
2,348,776
SHOWER HEAD
Clarence H. Bentley, South Gate, Calif., assignor, by mesne assignments, to Modern Faucet Co., Los Angeles, Calif., a copartnership
Application April 25, 1941, Serial No. 390,323
5 Claims. (Cl. 299—141)



1. In a shower head, the combination of a body member, providing a water passage, a dished spray diverter member mounted in the body in the water passage, said spray diverter member having a water receiving inlet parallel to the axis of the body, said spray diverter member includ-

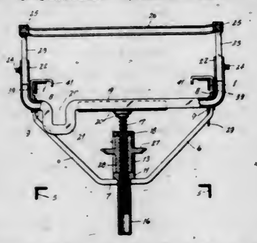
ing a member formed of a non-liming material, having curved water channels formed in its inner dished surface segment, and a water confining member positioned with reference to the channeled member to confine flow in said channels, and the channels terminating at varying distances along the dished surface whereby water emitting from said channels leaves the same at angles relative to the axis of the head corresponding substantially with the tangency of the curve of the channels at their terminals.

2,348,777
ESCAPE BOAT FOR SUBMARINES
Jean-Jacques Bessire, Imperia, Italy; vested in the Alien Property Custodian
Application October 14, 1940, Serial No. 361,134
In Italy June 22, 1940
3 Claims. (Cl. 114—16.7)



1. A submarine formed with an escape opening having an outstanding annular wall surrounding the same, the lower portion of the outer surface of the wall being inwardly convergent from the submarine, the upper portion of the inner surface of the wall being divergent from the submarine, an escape boat having an entrance opening defined by an annular flange arranged at an angle to cooperate with and sealingly wedge with the said outer convergent wall surface, and a closure for the submarine escape opening operable from within the submarine to sealingly wedge with the said divergent wall surface.

2,348,778
PATIENT'S LIFT ATTACHMENT FOR BEDS
Mike Black, Cincinnati, Ohio, assignor to H. H. Nieberding, Cincinnati, Ohio
Application February 10, 1943, Serial No. 475,325
9 Claims. (Cl. 5—83)



9. A patient's lift attachment for a bed having a bed frame adapted to support a mattress, comprising a rigid portable frame, means for detachably supporting said portable frame by and below said bed frame, upwardly extended posts mounted in said portable frame for upward and downward movements at the opposite sides of said bed frame, a band or sheet connected with said posts and extending transversely between the bed and the body of the person on the bed, a vertically movable shaft mounted in said portable frame for moving said posts upwardly and downwardly as aforesaid, and mechanism operatively supported by said portable frame for moving said shaft upwardly to move said posts upwardly and downwardly and thereby raise and lower said band or sheet and the superposed and adjacent portions of the person's body from and toward the bed.

2,348,779
PATIENT'S LIFT ATTACHMENT FOR BEDS
Mike Black, Cincinnati, Ohio, assignor to H. H. Nieberding, Cincinnati, Ohio
Application May 29, 1943, Serial No. 489,022
4 Claims. (Cl. 5—83)



4. In a bed frame having head and foot members, and two parallel longitudinal side frame members supported by said head and foot members; a patient's lift attachment comprising two complementary side frames wholly supported by said longitudinal side frame members between said head and foot members, a vertical post mounted for vertical sliding movements in each of said two frames, a shaft extending transversely of and below said longitudinal side frame members journalled in and wholly supported by said two frames, manual means for rotating said shaft, mechanisms wholly supported by said respective frames and operated by said shaft to move said posts vertically when said shaft is rotated by said means, horizontal bars supported by the upper ends of said posts, and a band or sheet attached to said bars and extending transversely above said longitudinal side frame members for raising and lowering superposed and adjacent portions of the body of a person recumbent on the bed and across said band or sheet when said posts are moved vertically as aforesaid.

2,348,780
PROCESS OF IMPROVING CATALYSTS
David G. Blaker, Webb City, and Maryan P. Matuszak, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application April 8, 1940, Serial No. 328,594
7 Claims. (Cl. 252—236)

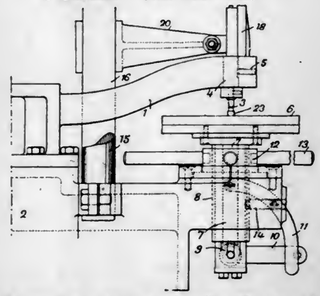
1. A process for the improvement of the catalytic activity of a catalytic material which consists essentially of alumina that is in the form of granules of substantially uniform size, which granules are of suitable size for use as a catalyst, and which granules have dust particles that are not removable by screening adhering thereto, which comprises washing said catalytic material with such an amount of water and for such period that adherent dust particles are substantially completely removed therefrom.

2,348,781
LAMINATING FABRIC
Joseph E. Bludworth, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application October 24, 1940, Serial No. 362,607
10 Claims. (Cl. 8—131)

1. In a process for preparing a laminating fabric for adhesively uniting the components of a composite fabric, the steps of applying to a fabric containing fibers of non-thermoplastic material

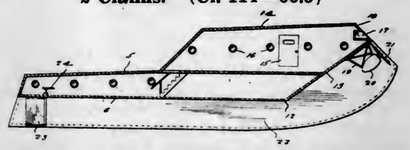
in admixture with fibers of an organic derivative of cellulose, a plasticizer for the organic derivative of cellulose, and causing the migration of at least a part of said plasticizer from the non-thermoplastic material to the organic derivative of cellulose material by ageing the fabric at an elevated temperature in an atmosphere having a relative humidity of from 70 to 90%.

2,348,782
MEANS FOR TESTING HARDNESS OF MATERIALS
Pièrre Bollée and Marcel Bollée, Le Mans, France; vested in the Alien Property Custodian
Application February 14, 1940, Serial No. 318,932
In France October 20, 1939
1 Claim. (Cl. 265—12)



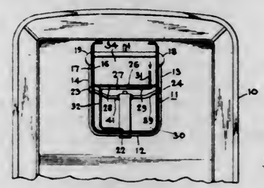
A machine for testing the hardness of materials comprising a frame, a table supported for vertical movements on said frame and adapted to carry the materials to be tested, an arm formed of material possessing a limited degree of resiliency rigidly secured to the frame at one extremity and extending above the table, an impression producing element mounted in said arm adjacent its free extremity in position to engage materials to be tested carried by the table, a control device carried by the frame for quickly moving the table vertically to arbitrary preloading positions coincident to zero readings in tests, a second control device mounted on the frame for slowly elevating the table by applying pressure thereto during tests, a plurality of supports rigidly mounted on the frame adjacent said table and arm, and a comparator carried by each of said supports with its plunger located in the same vertical transverse plane as said impression producing element, one of said comparators having its plunger in contact with said table and another of said comparators having its plunger in contact with said arm during tests.

2,348,783
MARINE VESSEL
John Brunt, Kenilworth, N. J.
Application August 3, 1942, Serial No. 453,405
2 Claims. (Cl. 114—66.5)



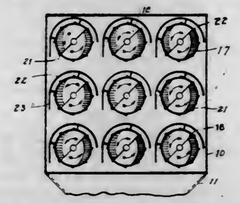
1. A marine vessel comprising a deck structure including upper and lower decks, respectively, and a pair of elongated side pontoon structures disposed in spaced parallel relation under the deck structure, the forward portion of the lower deck rising obliquely above the upper deck, and a cabin on the upper deck extending aft from the obliquely rising forward portion, the front of the cabin being formed in part by said portion.

2,348,784
REFRIGERATION APPARATUS
Carl Buhler, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 23, 1942, Serial No. 448,088
6 Claims. (Cl. 62—1)
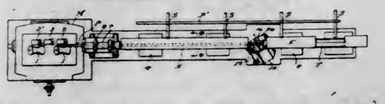


1. In a cooling unit having refrigerant passages therein, a chamber adapted to be heated, at least one duct communicating with said chamber and said passages, said chamber and passages being adapted to contain a refrigerant liquid, said duct and chamber being so located with respect to said passages that when said chamber is heated, warm refrigerant liquid will circulate through said chamber and only a portion of the refrigerant passages of the cooling unit, whereby frost which may have accumulated on said cooling unit, is melted substantially only from the portion of the cooling unit containing the passages through which the warm refrigerant liquid from the chamber is circulated.

2,348,785
FLY ASH COLLECTOR
Ellis W. Bullock, Birmingham, Ala., assignor to Fly Ash Arrestor Corporation, a corporation of Alabama
Application January 9, 1943, Serial No. 471,872
5 Claims. (Cl. 183—80)



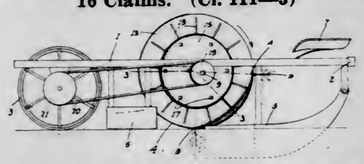
4. A fly ash collector comprising a casing having end and side walls, a top wall and a hopper bottom, said casing being adapted to be positioned in a horizontal flue from a combustion furnace, a plurality of horizontally disposed tubes mounted in the end walls and extending through the casing, a helicoid fitting closely in each of the tubes, and adapted to impart a helicoidal path of movement to gases flowing therethrough, a series of tangential slots formed in each of the tubes beyond the helicoid in the direction of gas flow, a semi-cylindrical hood over each tube for deflecting solids downwardly which are discharged through the slots, and a plate tangential to each hood depending downwardly from the side of the hood where solids are discharged downwardly from the slots.

2,348,786
PIPE FEEDING APPARATUS
Irving A. Colby, Youngstown, Ohio
Application September 22, 1941, Serial No. 411,803
5 Claims. (Cl. 153—60)



1. In pipe feeding apparatus, an elongated trough for supporting, confining and guiding the pipe and having a lateral opening for passage of the pipe thereinto, means for directing a pipe through the opening, a roll positioned adjacent one end of the trough with its axis at an angle to the axis thereof, means for supporting the roll at a height to engage the under side of the pipe when it is resting in the trough, means for magnetizing the roll, and means for driving the roll to thereby simultaneously rotate the pipe and move it axially in the trough away from the roll.

2,348,787
PLANTING MECHANISM
Henry P. Cordes, Tracy, Calif.
Application April 9, 1943, Serial No. 482,412
16 Claims. (Cl. 111—3)



1. A row planting mechanism for a plant setting implement which includes a frame supported above the ground for movement along a row, said mechanism comprising a pair of laterally facing, circular rotary members which are flexible and resilient at and adjacent the periphery thereof, means rotatably mounting said members from the frame in adjacent, forwardly and downwardly converging relation whereby unbroken peripheral portions of said members continuously run together in frictional engagement between a point some distance above the ground and a point adjacent the ground, and means to simultaneously rotate said members in the direction of movement of the implement.

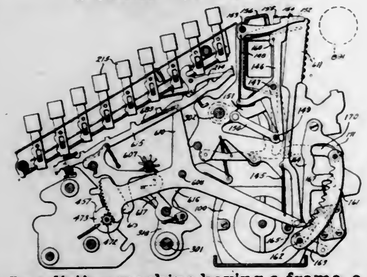
2,348,788
ALCOHOL-SOLUBLE AZO DYESTUFFS AND THEIR MANUFACTURE
Achille Conzetti, Basel, and Ernst Lehmann, Riehen, near Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application April 21, 1942, Serial No. 439,922. In Switzerland January 21, 1941
12 Claims. (Cl. 260—144)

8. The alcohol-soluble dyestuffs of the general formula

$$A-(SO_3H)_n.B_x.C_{8-x}$$

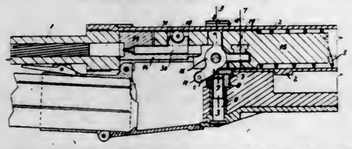
wherein A means the radical of an acid azo dyestuff, selected from the class consisting of azo dyestuffs of the benzene, naphthalene and pyrazolone series, connected with the n sulfo groups and substituted by at least one hydroxy group acylated by an arylsulfonic acid of the benzene series, B means a basic dyestuff selected from the rhodamine and ketonimine dyestuff series, C means a basic organic compound capable of precipitating said acid dyestuff, n means the number of sulfonic acid groups present in the acid dyestuff, being at least 2, x means at least 1, being in all cases smaller than n, said dyestuffs being yellow to red and violet compounds insoluble in water, yielding colored lacquers of excellent light fastness.

2,348,789
LISTING MACHINE
Loring Pickering Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Original application November 29, 1941, Serial No. 421,015. Divided and this application November 25, 1942, Serial No. 466,935
2 Claims. (Cl. 101—93)



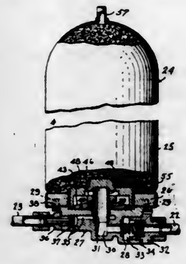
2. In a listing machine having a frame, a series of differentially displaceable devices comprising differential actuators and vertical type bars connected therewith, stops for limiting the upward displacement of the type bars, and reciprocatory operating means for said devices; a floating shaft having rearward link connection and upward toggle link connection with said frame, a multiple toothed alignor pivotally mounted upon said shaft, and means operable by the operating means first to move the alignor pivotally to engage selected teeth of the alignor successively with the differently displaced devices and thereafter to straighten the toggle link connection to move the type bars downwardly to aligned position.

2,348,790
BREECH MECHANISM FOR AUTOMATIC FIREARMS
Paul de Király and József Kucher, Budapest, Hungary; vested in the Alien Property Custodian
Application November 13, 1939, Serial No. 304,226
In Hungary December 12, 1938
1 Claim. (Cl. 42—3)



An automatic firearm comprising a casing, a barrel secured to said casing, a breech movable in said casing, said breech comprising a supporting element adapted to perform a recoil movement, a two-armed lever pivotally mounted on said supporting element, an actuating element movably disposed in said casing, the first arm of said lever being disposed in contact with said actuating element, resilient means urging said actuating element against said supporting element in a direction opposite to that of the recoil movement thereof, an abutment adapted to engage the second arm of said lever and tilt the same, whereby said actuating element is a displaced relative to said supporting element, a control member forming an extension of said second arm, guiding means adapted to engage said control member to maintain said lever in tilted position during the recoil movement, a firing pin operatively connected to said actuating element, whereby upon the return movement of the breech, said lever after clearing said guiding means, is suddenly thrown forward under the influence of said resilient means to restore the original relative position between said supporting element and actuating element, whereby the firing pin is suddenly projected with respect to said supporting element, a second guiding means of inverted U-shape, said casing being provided with an opening, said U-shaped second guiding means being secured to the outside of said casing, the prongs of said U-shaped second guiding means projecting through said opening into the casing and serving to guide said actuating element: said abutment being provided with flaps extending outside said casing, and a ring member encircling the outside part of said U-shaped second guiding means and said flaps, and securing the same to said casing.

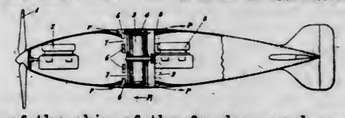
2,348,791
CARBONATOR
Carmelo V. Di Pietro, Birmingham, Mich.
Application August 14, 1939, Serial No. 289,984
10 Claims. (Cl. 261—11)



1. A device for charging water with carbon dioxide gas comprising a confined mixing chamber, sinuous outlet passage means leading from said mixing chamber, a closed storage chamber communicating with said outlet passage means, a pair of conductor means for feeding carbon dioxide gas and water under pressure separately, and means forming two series of circularly disposed small passages, each of said series of passages connecting one of the feeding conductor means with the mixing chamber and the outlet ends of said series of passages being oppositely disposed and relatively close.

2,348,792
PROPELLING PLANT FOR AIRCRAFT
Claude Dornier, Friedrichshafen, Lake of Constance, Germany; vested in the Alien Property Custodian
Application August 22, 1938, Serial No. 226,191
In Germany August 17, 1937
7 Claims. (Cl. 244—62)

1. Propelling plant for aircraft comprising in combination, a fuselage having a spindle shape, a tractor airscrew at the nose thereof, means disposed in the interior of the said fuselage and adapted to drive the said air screw, a blower or fan disposed intermediate the ends of and wholly within the said fuselage, means in the said fuselage to permit of the flow of air to and from the said blower or fan in substantially the



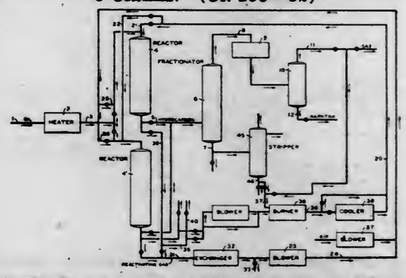
plane of the skin of the fuselage and means in the interior of the fuselage to rotate the blower or fan the axis of the latter being co-axially arranged with the longitudinal axis of the fuselage.

2,348,793
LIFESAVING SUIT
Carl Dybberg, Bygdoy, Aker, Norway; vested in the Alien Property Custodian
Application December 13, 1940, Serial No. 370,077
In Norway December 27, 1939
2 Claims. (Cl. 2—82)



1. A life saving suit, including a body covering garment, weighted foot coverings sealed at one end of the garment, the opposite end of the garment being formed with an opening of sufficient size to permit the garment to be readily applied to the person, means for closing the edges of the opening about the neck of the wearer, the material of the upper portion of the garment being sufficiently loose to cause the air trapped in the garment to distend the loose portion above and around the neck portion of the garment and provide a zone of substantial sealing contact with the person of the wearer above the opening closing means.

2,348,794
METHOD OF CATALYTIC CONVERSION OF HYDROCARBONS
Du Bois Eastman and Charles Richter, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 26, 1942, Serial No. 444,540
6 Claims. (Cl. 196—52)



1. In the conversion of hydrocarbon oil by contact with a catalytic mass at elevated temperature wherein the oil heated to a conversion temperature is passed through each of two contact masses alternately, one mass being onstream during passage of the oil therethrough, while the other mass is offstream undergoing regeneration to remove carbonaceous material deposited upon the catalyst during contact with the heated oil in

onstream flow, the method of regenerating the offstream mass which comprises purging the offstream mass to remove retained hydrocarbons, thereafter passing a continuous stream of flue gas containing a small amount of free oxygen through the purged contact mass, the oxygen content and the volume of flow of the gas being such as to burn the carbonaceous material slowly and to remove the heat of combustion substantially entirely in the form of sensible heat of the gas issuing from the mass, removing sensible heat from the issuing gas, recycling cooled gas through the contact mass, continuing the passage of reacting gas through the mass until the carbon is substantially completely removed therefrom and the effluent gas stream contains some residual free oxygen, injecting in said stream of effluent gas containing free oxygen a small amount of hydrocarbons, passing said gas stream and injected hydrocarbons through a separate zone of combustion in the absence of said catalytic material whereby free oxygen is consumed by reaction with injected hydrocarbons, recycling the so treated effluent gas to the contact mass, continuing said recycling through the contact mass and separate combustion zone until the mass is purged of free oxygen and thereafter re-establishing the flow of heated hydrocarbon through the mass.

2,348,795

CLEANING AND DISINFECTING COMPOSITION

Günther Endres, Hamburg, Germany; vested in the Alien Property Custodian

No Drawing. Application November 10, 1939, Serial No. 303,897. In Germany December 13, 1938

3 Claims. (Cl. 252—106)

1. A combined dry-cleaning and disinfecting composition comprising a mixture of carbon tetrachloride with approximately four percentum of methyl alcohol and from two-tenths to four-tenths per cent of a bactericide selected from the group consisting of corrosive sublimate and 2-benzyl-4-chlorophenol.

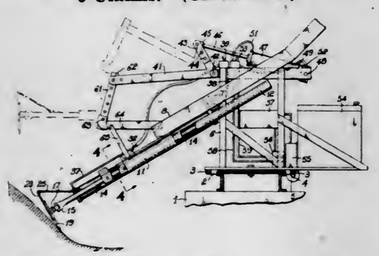
2,348,796

MATERIAL MOVING DEVICE

Ray Ferwerda, Garrettsville, and Koop Ferwerda, Maple Heights, Ohio

Application August 19, 1940, Serial No. 353,212

9 Claims. (Cl. 37—143)



1. An apparatus of the character described having in combination a platform, a rotatable support on said platform, an outwardly projecting unit providing a guide portion and having an extension member pivotally mounted on said support, a material moving blade supported for adjustment about a transverse axis on said extension member, adjustable means acting between the support and the guide portion of said unit whereby said material moving blade is supported for sliding movement at a predetermined angle to the surface to be operated on, means for holding said blade in adjusted relation to the extension member, and means for moving said extension member and associated material moving blade along said path of sliding movement.

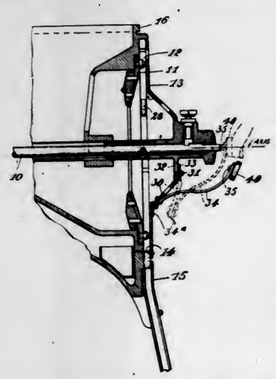
2,348,797

CROWN CAP SELECTING MACHINE

Louis A. Fischer, Brooklyn, N. Y., assignor to The F. & M. Schaefer Brewing Company, Brooklyn, N. Y., a corporation of New York

Application September 4, 1943, Serial No. 501,327

3 Claims. (Cl. 226—88.1)



1. In a crown cap selecting machine, a rotatable shaft, a casing front having a cap discharging opening rotating with said shaft, a door in said casing front for closing and opening said opening, means holding said door normally in closed position, means for holding said door open during the rotation of the casing front, said last named means rotating with the casing front, and having means when aligned with the shaft to be held against rotation, during the rotation of said shaft, said holding means and said casing front.

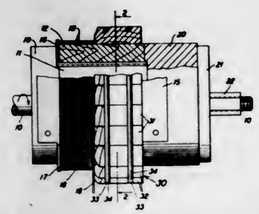
2,348,798

STRAND HANDLING APPARATUS

Erwin E. Franz, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 15, 1943, Serial No. 502,492

6 Claims. (Cl. 242—9)



1. In a strand handling apparatus for winding a strand on a core, a combined strand guide and support comprising an annular sequence of mutually independent strand guide and support members to encircle the core, and elastic means to hold the sequence of members removably in place on the core.

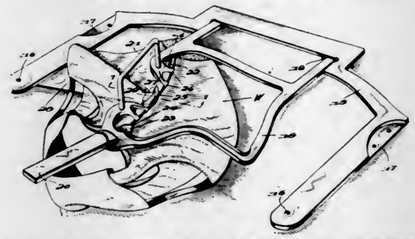
2,348,799

DIE ASSEMBLY

Louis G. Freeman, Jr., Cincinnati, Ohio, and Chesterton S. Knight, Brockton, Mass., assignors to Benjamin W. Freeman, Cincinnati, Ohio

Application April 18, 1939, Serial No. 268,610

29 Claims. (Cl. 101—71)



1. In a die assembly adapted to ornament shoe parts of other than a flat nature, in a flat bed press, the combination with an ornamenting die, of gauge means for aligning a work piece to the die comprising a stationary frame, a movable frame pivoted thereto, gauging means carried by said movable frame and conforming to a predetermined characteristic of the work, and means in said movable frame shaped at a predetermined location to accommodate a portion extending upwardly from the flat bed of the work extending outside of that region of the work which is to be ornamented as the gauging means forces the portion of the work to be ornamented into a flatwise position and the extending bunched portion into said predetermined location.

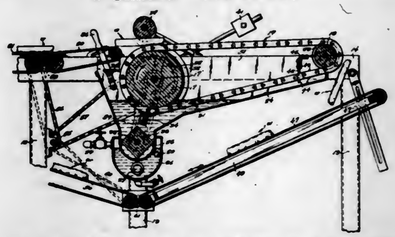
2,348,800

APPARATUS FOR ICING BAKERY GOODS

William H. Fredrickson, Seattle, Wash., assignor to Le Conie Stiles, Seattle, Wash.

Application April 14, 1941, Serial No. 388,429

8 Claims. (Cl. 91—2)



3. A machine for icing bakery goods comprising, in combination: a pan for the icing formed at one end with a water-jacketed sump and having a sloping floor leading from the opposite end thereto; means for applying heat to the jacketing water of the sump for melting the icing; an idler roller mounted above the high end of the pan and provided in its periphery with circumferentially extending grooves disposed in laterally spaced relation; a live drum working above the sump and in its rotary travel dipping into the melted icing to carry a coating of the latter from the under surface to the upper surface of the drum, said drum being provided in its periphery with circumferentially extending grooves of a depth greater than the grooves of the roller and spaced to correspond with the latter; endless chains working in the spaced grooves of said drum and roller and produced such that the same lie flush with the periphery of the drum and in consequence project outwardly beyond the periphery of the roller, the directional travel of said drum causing the upper run of the respective chains to work from the drum toward the roller; work-feeding conveyor devices corresponding in directional travel to the travel of the chains operating to deliver the bakery goods in an inverted condition onto the upper surface of the drum wherefrom, following a transfer of icing from the drum to the underside thereof, the goods are conveyed on the upper run of the chains and discharged from the roller ends thereof; and conveyor devices lying below the discharge end of the chain-conveyor for receiving the work discharged from the latter.

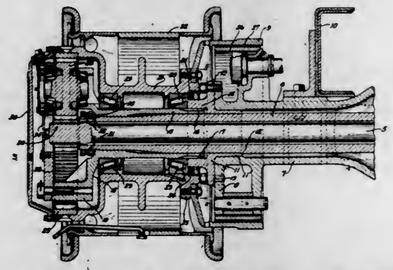
2,348,801

WHEEL AND AXLE ASSEMBLY

Henry C. French, Elm Grove, Wis., and Robert T. Hendrickson, Chicago, Ill.; said French assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin

Application December 26, 1942, Serial No. 470,260

4 Claims. (Cl. 180—75)



1. A wheel and axle assembly, comprising a tubular, fixedly mounted axle housing, a collar secured to the housing and having a sleeve extending therewithin, a tubular outer axle nonrotatably extended through said collar and sleeve, an external portion of said outer axle being formed with a shoulder in abutment with an end of said collar sleeve to prevent axial displacement of said outer axle, a spider telescopically enclosing the outer end portion of said outer axle and having a splined connection with said collar, a wheel revolubly mounted on said spider, a driven inner axle extending revolubly through said outer axle, and motion transmitting means between the outer end of said inner axle and the wheel.

2,348,802

HYDROCARBON CONVERSION PROCESS

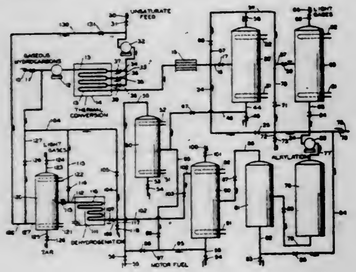
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 7, 1940. Serial No. 360,163

7 Claims. (Cl. 260—683.4)

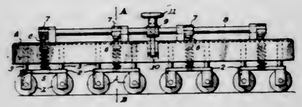
7. A process for treating a hydrocarbon mixture to produce hydrocarbons suitable for motor fuel, which comprises passing a mixture of hydrocarbons having at least two carbon atoms per molecule and boiling not higher than the end point of motor fuel to a noncatalytic conversion zone under an elevated superatmospheric pressure and at a conversion temperature for a period of time to produce an optimum yield of normally liquid substantially aliphatic hydrocarbons in the motor fuel boiling range including low-boiling isoparaffins, intimately admixing with at least a portion of the effluent from said con-

version zone, comprising normally gaseous and normally liquid hydrocarbons and including olefins and said low-boiling isoparaffin hydrocarbons, and in the absence of added isoparaffin hydrocarbons concentrated sulfuric acid at an alkylation temperature and pressure to effect a union of said olefin and said low-boiling isoparaffin hydrocarbons forming hydrocarbons in the motor



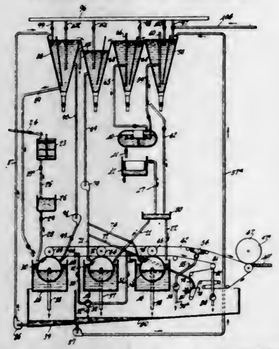
fuel boiling range, subsequently separating from the effluent a hydrocarbon fraction comprising hydrocarbons suitable for motor fuel and removing said fraction from the process, and separating also a normally gaseous hydrocarbon fraction comprising hydrocarbons having at least two carbon atoms per molecule and introducing at least a portion of said hydrocarbons into said noncatalytic conversion zone.

2,348,803
VENEERING PRESS
Adolf Friz, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian
Application December 13, 1940, Serial No. 370,060
In Germany August 7, 1939
4 Claims. (Cl. 144—279)



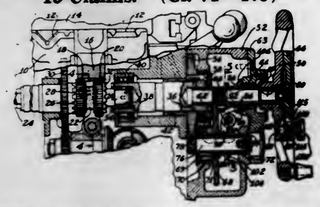
1. A veneer press of the class described, comprising a plurality of sets of rollers which are brought in contact with veneer conveyed thereunder, a plurality of carriers, each set of rollers being mounted on a separate carrier, a frame on which each carrier is mounted for movement upwardly towards said frame and for movement downwardly away from the frame, separate resilient means in contact with each carrier whereby to exert pressure on each carrier to move it away from said frame downwardly towards the conveyed veneer, and means common to all sets of rollers for simultaneously adjusting the downward pressure exerted by each resilient means whereby to adjust the position of said sets of rollers relative to said frame, said adjusting means comprising a member movably mounted on said frame, means associated with said movable member for contacting said resilient means, the means associated with the movable member being movable therewith and in contact with each resilient means for simultaneously adjusting the pressure developed by all of said resilient means in accordance with the movement of said movable member, and drive means associated with said frame for moving said movable member.

2,348,804
METHOD OF MANUFACTURING ASBESTOS-CEMENT SHINGLES OR THE LIKE
William Gerity, Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application April 11, 1940, Serial No. 329,044
11 Claims. (Cl. 92—39)



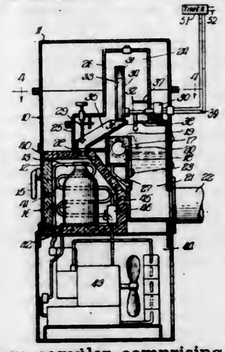
1. In the manufacture of asbestos-cement products from a wet slurry of cement and asbestos fiber, the steps which comprise maintaining said slurry at a temperature of 110 to 120° F., forming wet plies from said slurry by dewatering the same, and building up a sheet by laminating a predetermined number of said plies while wet.

2,348,805
CONTROL DEVICE
Walter A. Gigger, Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application November 29, 1941, Serial No. 420,989
15 Claims. (Cl. 74—475)



1. A gear shifting device for a two-speed transmission having a driving element and two driving gears connected therewith arranged to be shifted alternately from inoperative to engaging positions, which comprises a pair of rotatable rocker arms connected to turn as a unit, a control element connected to rotate said rocker arms between alternate speed positions of the gear shifting device, gear shifting elements connected respectively to said gears and each having a recess within which the rocker arms are arranged to be engaged respectively, said engaging rocker arms and recesses being so disposed and shaped that movement of the control element and rocker arms from either speed position causes one of said gears to be moved to inoperative position before the other of said gears is moved to the clutching position, and the respective rocker arm to be disconnected from its recess for a predetermined inoperative position of the associated gear to permit continued movement of the control element and rocker arms to the alternate speed position without effecting further movement of said inoperative gear.

2,348,806
SEWAGE SAMPLER
Herbert W. Gillard and Samuel L. Adelson, Chicago, Ill., assignors to Infilco Incorporated, a corporation of Delaware
Application May 5, 1941, Serial No. 392,022
6 Claims. (Cl. 73—21)



1. A sewage sampler comprising a housing, a wall dividing the space within said housing into a first and second chamber, a normally open passageway through said wall and providing communication between said chambers, sewage sampling means associated with said first chamber, said means comprising a sewage flow channel in said first chamber, a sewage inlet to said channel, a sewage outlet from said channel, a sampling member movable across said channel, a prime mover operatively joined to said movable member, control means governing operation of said prime mover, a conduit receiving sewage from said movable member, said conduit leading to said passageway, closure means for said passageway whereby said chambers may be isolated from each other, a steam conduit joined to said first chamber, thermal insulating means separating said chambers and surrounding said second chamber, a door in a wall of said second chamber, and a refrigerating means in said second chamber.

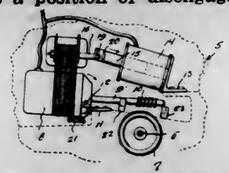
2,348,807
FILLER FOR QUILTS AND THE LIKE
Joseph Goodstein, New York, N. Y.
Application November 7, 1942, Serial No. 464,909
3 Claims. (Cl. 5—334)



1. As an article of manufacture, comprising a filler for quilts, coverlets or like article of bedding, said filler being a fluffy and resilient batt formed proportionately of underfur and fur overhair thoroughly intermingled and interlocked with a fibrous material substantially composed of wool waste.

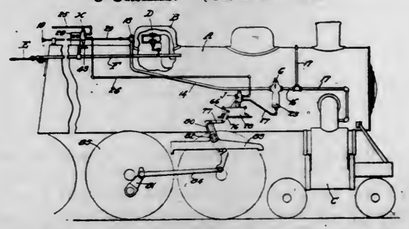
2,348,808
ELECTRIC PROPULSION MECHANISM
Robert P. Guilar, Milwaukee, Wis.
Application March 23, 1943, Serial No. 480,230
7 Claims. (Cl. 172—36)

1. In combination with a mechanical toy including a driven shaft for the operation of said toy, an electric motor pivotally mounted in said toy, a drive shaft secured to said motor and movable therewith, a worm secured to the drive shaft, a worm gear secured to the driven shaft, tension means normally urging pivotal movement of the motor into a position of disengaging the worm



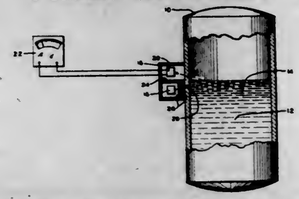
from the worm gear, and electrical means in circuit with the motor for pivoting the motor to engage the worm with the worm gear on the energization of the motor.

2,348,809
DRIFTING VALVE
John H. Hanlon and John W. Hanlon, Belmont, Mass.
Application June 9, 1943, Serial No. 490,180
8 Claims. (Cl. 121—137)



1. In a locomotive having a throttle valve for controlling a steam supply to the cylinders thereof, a drifting valve for controlling a steam supply to said cylinders, pressure operated means for controlling said drifting valve, a conduit for supplying fluid under pressure to said pressure operated means, a control valve in said conduit, means for operating said throttle valve and control valve to cause said control valve to open when said throttle valve is closed and to close when said throttle valve is opened, and means including a second valve in said conduit adapted to be actuated to open said second valve when the speed of the locomotive exceeds a predetermined amount and to close said valve when the speed of the locomotive is less than said predetermined amount.

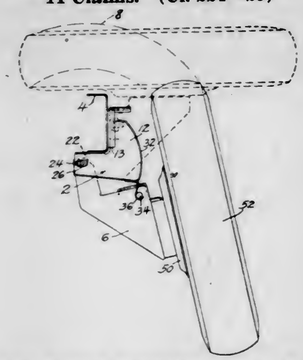
2,348,810
METHOD AND APPARATUS FOR DETERMINING LIQUID LEVEL
Donald G. C. Hare, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 29, 1940, Serial No. 337,864
5 Claims. (Cl. 250—83.6)



1. A method of determining the level of a liquid in a closed container which comprises directing through the wall of said container gamma radiation emitted from a source, detecting gam-

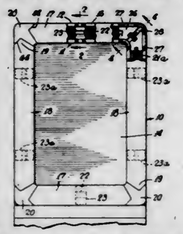
ma radiation scattered by the liquid within the container, and moving the source and detecting means vertically along the container until a point is reached at which a sudden increase or decrease in the amount of scattered gamma radiation is indicated by the detecting means.

2,348,811
TIRE CARRIER
Rush S. Hartman, Trenton, N. J.
Application August 20, 1942, Serial No. 455,541
11 Claims. (Cl. 224—29)



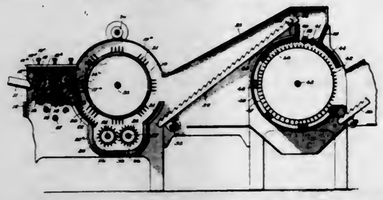
7. A tire carrier comprising an attaching element in the form of a metal stamping having a back plate adapted to be secured adjacent a vertical face of the chassis frame of a truck or the like and having a portion extending downward from the back plate and formed with a horizontal slot therein, and a tire carrying member having means thereon cooperating with the downwardly extending portion of the metal stamping to provide a sliding and pivotal connection therebetween whereby the tire carrying element may be moved outward relative to said frame and stamping and swung downward from a raised, tire carrying position to a lowered tire receiving position, and means movable with said tire carrying member toward and away from the chassis frame and into and out of position to hold the tire carrying member in raised, tire carrying position.

2,348,812
REFRIGERATOR CABINET
Dudley E. Heath, New York, N. Y., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 16, 1940, Serial No. 335,450
6 Claims. (Cl. 220—9)



6. In a refrigerator cabinet comprising inner and outer liners with a gap therebetween, spacing members extending across the gap between the liners, a breaker strip having a plurality of sections and corner members between and abutting the ends of the sections to provide a continuous strip overlying the gap between the inner and outer liners, said sections and spacing members having interlocking detents inclined at an acute angle to the plane of the sections and engaged by relative sliding movement therebetween in a predetermined path of movement in one direction, the abutting ends of each of the sections and corner members being provided with interlocking portions having surfaces extending transversely across the path of movement of the section in the opposite direction to prevent movement of the section out of operative position, interlocking shoulders on the corner members and cabinet engageable upon movement normal to the plane of the members, a latch keeper extending rearwardly from each corner member, and resilient latches on the cabinet engaged with the keepers on the end members to yieldingly hold the interlocking shoulders on the members and cabinet in engagement, said latches being engaged with the keepers by a combined lateral and vertical sliding movement of the corner members into abutting engagement with the ends of adjacent sections whereby the corner members and sections are locked in position on the cabinet by sliding the corner members into position between the ends of the sections.

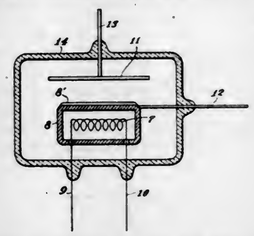
2,348,813
APPARATUS FOR EXTRACTING FIBERS FROM FIBROUS HUSKS
Hilarion G. Henares, Manila, P. I.; vested in the Alien Property Custodian
Application September 9, 1941, Serial No. 410,217
3 Claims. (Cl. 19—29)



1. An apparatus for separating fiber dust from fibrous husks comprising roller means to crush said fibrous husks and move them progressively forward, combing means to comb the fibrous husks as they leave the said roller means, means including a fiber receiving area disposed below said combing means to separate the fiber dust from the fiber, interacting rotatable cylinders in such area arranged to separate dust from the fiber and raise the fiber from such area, conveyor means to progressively move the fiber forward in jerky steps to further separate dust therefrom, a second combing means to comb the fiber as it leaves the conveyor to further separate the fiber dust therefrom, and power means to drive the aforementioned means.

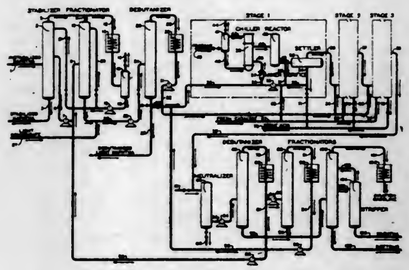
2,348,814
RECTIFIER FOR VOLTAGE DUPLICATING CIRCUITS
Felix Herriger, Berlin, Germany; vested in the Alien Property Custodian
Application April 19, 1941, Serial No. 389,323
In Germany April 27, 1940
1 Claim. (Cl. 250—27.5)

An electron discharge device comprising, a cathanode having a central recess and a discharge face which is substantially flat, a flat secondary anode facing said discharge face, and a heating cathode positioned within said central recess and adapted to be heated and in turn to heat said cathanode, said cathode having a discharge layer which contains thorium, said discharge surface having superior electron emitting



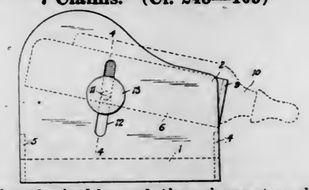
characteristics whereby this surface only of the cathanode is activated at the temperature at which the cathanode is maintatined due to the heating by said cathode.

2,348,815
MANUFACTURE OF MOTOR FUEL
Francis Horton, Riverdale, N. Y., Lebbeus C. Kemp, Port Arthur, Tex., and Richard E. Nagle, New York, and Loren P. Scoville, White Plains, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 20, 1939, Serial No. 280,064
12 Claims. (Cl. 260—683.4)



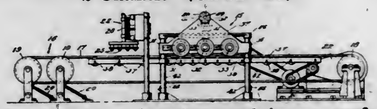
1. A process for the manufacture of antiknock gasoline, which comprises stabilizing an unstabilized cracked naphtha, separating an overhead stream from the stabilizer containing mainly C_3 and lighter hydrocarbons, separating a side stream from the stabilizer containing C_4 olefins and paraffins and some C_3 hydrocarbons, fractionating said side stream to remove additional C_3 hydrocarbons as well as a portion of normal butane therefrom to provide a fraction concentrated in isobutane and C_4 olefins, subjecting said concentrated isobutane and C_4 olefin fraction to an alkylation operation in an alkylation reaction zone wherein isobutane is alkylated by said olefins, separating an unstabilized alkylate from the reaction products, stabilizing said separated alkylate to separate normally liquid alkylate from an overhead fraction consisting essentially of isobutane and normal butane, together with any C_3 hydrocarbons remaining in the system, recycling a portion of said overhead fraction to the said side stream fractionating operation to prevent buildup of C_3 hydrocarbons in the system, fractionating another portion of said overhead to separate an isobutane fraction from a normal butane fraction, and recycling the said isobutane fraction directly to the said alkylation zone.

2,348,816
NURSING BOTTLE HOLDER
Herbert Hyams, Baldwin, N. Y.
Application February 8, 1944, Serial No. 521,522
7 Claims. (Cl. 248—105)



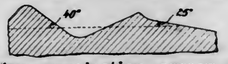
1. A bottle holder of the character described comprising, a base, a support arising from said base, said support having guide means, a cradle upon which a bottle is rested, said cradle having a projecting element entering the guide means, the element being vertically movable in the guide means and being also pivotal therein, whereby the cradle may be set at any selected angle relative to the base and may be raised and lowered solely by adjustment of the element in the guide means.

2,348,817
BOARD FINISH APPARATUS
Fergus A. Irvine, New Orleans, La., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application February 5, 1941, Serial No. 377,412
2 Claims. (Cl. 91—25)



1. In an apparatus for applying a surfacing coating to fiber insulation board and the like, the combination of a longitudinally extending framework, a conveyor for conveying sheet form material along the framework, a spraying device mounted over the framework and conveyor thereon and serving to apply a substantially uniform paint-like coating to the surface of a fiber insulation board carried by the conveyor and a coating distributing and smoothing device mounted over the conveyor but longitudinally spaced from the spraying device and having a plurality of distributing and smoothing members carried thereby, the such members extending across the width of a sheet, mechanism connected to the members for imparting limited reciprocation thereto and the reciprocation, imparted to a such member, out of step with the reciprocation of another of such members.

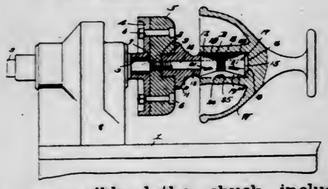
2,348,818
PROJECTION OF IMAGES
Johan Sam Jacobson, The Hague, Netherlands; vested in the Alien Property Custodian
Application June 24, 1941, Serial No. 399,443
In the Netherlands February 7, 1940
1 Claim. (Cl. 88—28.93)



In a picture projection screen comprising a light permeable material having two vertically disposed surfaces on at least one of which surfaces irregular projections and depressions are formed, the combination wherein the projections and depressions provide the surface on which they are formed with a generally sinusoidal

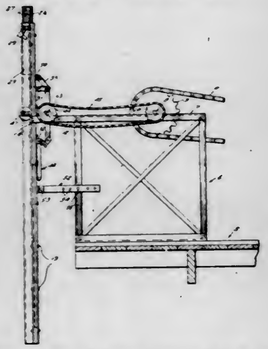
curved cross section having undulations of varying amplitude and of different length, said undulations intersecting the surface on which they are formed, and the slope of a plane tangent to any undulation at the intersection of the undulation with said surface lying between angular limits of from one to forty-five degrees.

2,348,819
EXPANSIBLE CHUCK
Arthur W. N. Johnson, Garberville, Calif.
Application December 14, 1942, Serial No. 468,978
3 Claims. (Cl. 279—2)



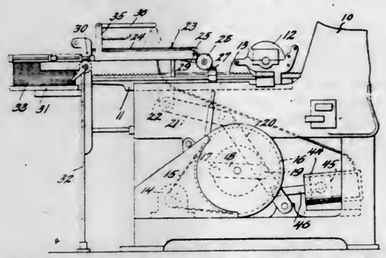
1. An expansible lathe chuck including a stem, means for connecting the stem to the rotatable spindle of a lathe, a cone at one end of the stem, a longitudinally adjustable pin extending through the cone and stem, a cone mounted on the pin and disposed oppositely to the first named cone, a compression spring interposed between the cones for holding them normally spaced apart, an expansible work-engaging sleeve mounted on the opposed cones, means for holding the sleeve normally contracted for insertion into a bore in work to be turned, and means operated by the rotation of the work in one direction relative to the inserted contracted sleeve for feeding the pin one direction, thereby to draw the cones toward each other and expand the sleeve into tight fitting engagement with the work thereon.

2,348,820
FENCE POST DRIVER
Charles Edward Jordan, Dawson, and Levi L. Jordan, Oskaloosa, Iowa
Application March 11, 1941, Serial No. 382,826
3 Claims. (Cl. 61—74)



1. A fence post driver comprising a support, a vertical guideway mounted on said support, said guideway comprising a C-shaped channel, a hammer comprising a relatively wide vertically elongated plate having its marginal portions slidably confined in the opposite sides of said channel, said hammer further comprising a vertically elongated block secured to said plate and projecting laterally outwardly through the space between the edges of the open side of said channel, the web of the channel opposite said opening being formed with an opening, a friction wheel carried by said guideway for movement into and out of engagement with said plate of the hammer to elevate said hammer when engaged with the plate and permit the hammer to fall from an elevated position when disengaged from said plate, operating means for moving said friction roller into and out of engagement with the said plate, and driving means on said support and operatively connected for driving said friction wheel.

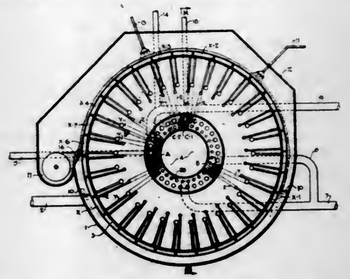
2,348,821
SHEET DELIVERY MECHANISM FOR PRINTING PRESSES
Theodore John Kauffeld, New York, N. Y., assignor to American Type Founders, Incorporated, Elizabeth, N. J., a corporation of New Jersey
Application September 4, 1941, Serial No. 409,559
15 Claims. (Cl. 271—69)



9. In the process of delivering thin sheets from a printing press or the like, the successive steps of supporting each sheet substantially equally throughout its area in a horizontal position and moving it while so supported in a delivery direction substantially in its own plane; transferring the sheet to a second support by further movement substantially in the same plane, whereby it is again supported substantially equally throughout its area; then suddenly snatching said support from beneath the sheet, whereby due to its inertia only the sheet remains momentarily suspended in the same position, and thereupon settles evenly to the delivery point under the influence of gravity without danger of drooping or folding.

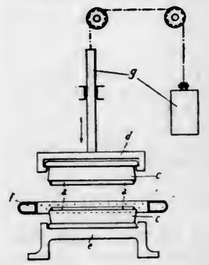
2,348,822
FILTRATION
Wynkoop Kiersted, Jr., Scarsdale, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 28, 1941, Serial No. 400,208
3 Claims. (Cl. 210—199)

1. In the continuous filtration of solids from a mixture of solids and mother liquor by means of a continuous rotary drum filter, the filter drum comprising a plurality of hollow segmental filter elements whose leading and trailing portions are in fluid communication through separate drain pipes with a filter valve, the steps comprising rotating the drum so that each filter element submerges within and then emerges from the mixture, forming a filter cake of solids upon the exterior of each element and forcing mother liquor through the cake into the interior of each element during rotation through the mixture, discharging mother liquor from the interior of an element through the filter valve as filtrate, subjecting each cake-bearing element during continued rotation after emerging from the mixture and before reaching the zenith in its path of travel to a primary application of wash liquid to displace mother liquor from the cake into the interior of the element, discharging displaced liquor through the filter valve, injecting gas through a leading drain pipe to the interior of each element as it approaches said zenith, discharging the so injected gas together with liquid from the interior of said element through a trailing drain pipe, discontinuing the injection of said gas through said leading drain pipe of each cake-



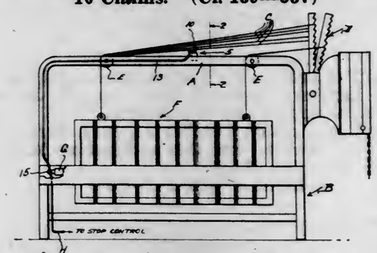
bearing element as it moves away from said zenith, admitting gas under pressure through said trailing drain pipe of each element during said discontinuance, discharging the so admitted gas together with remaining liquid from the interior of the element through said leading drain pipe, thereafter subjecting each washed cake-bearing element to a secondary application of wash liquid which is forced through the filter cake into the interior of the element, and separately discharging said liquid from the interior of the filter element through the filter valve.

2,348,823
PROCESS FOR MANUFACTURING GLASS ARTICLES
André Georges Charles Kirchheim, Aix la Chapelle, Germany; vested in the Alien Property Custodian
Application May 26, 1939, Serial No. 275,989
In Germany June 3, 1938
3 Claims. (Cl. 49—82)



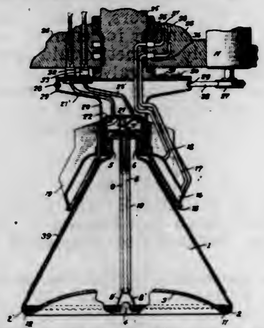
1. The method of fabricating a glass or vitreous building block or similar article which comprises fashioning at least two bodies having walls defined by opposite surfaces terminating in edges having ribs of reduced cross-sectional area relative to the cross-sectional areas of the walls displaced from said edges, said ribs lying substantially equidistantly between the planes of the opposite surfaces of the respective walls, and welding the edges of said bodies together by the application of heat and pressure.

2,348,824
STOP MOTION ATTACHMENT FOR LOOMS
Jonas F. Koskela, Maynard, Mass.
Application April 16, 1943, Serial No. 483,317
10 Claims. (Cl. 139—337)



1. A short circuiting harness strap contrivance of the class described comprising an adapter for connection with a conventional loom frame, an inclined wire rod on said adapter, a clip for connection with said rod, and a conductor carried by said clip and adapted for connection with a drop pin bar.

2,348,825
ELECTRIC LAMP
Anton Kratky, Vienna, Germany; vested in the Alien Property Custodian
Application November 24, 1939, Serial No. 305,883
3 Claims. (Cl. 176—122)



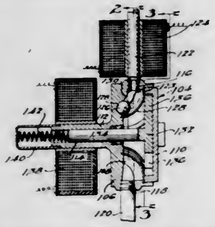
1. An electric lamp having in combination a rotatably mounted closed evacuated transparent housing provided with a groove adjacent the outer edge thereof, a filament in said housing formed by an attenuated body of mercury and a high resistance wire located in said groove and immersed in the mercury, means for passing an electric current through said filament to vaporize said mercury, means for cooling a wall of said housing to condense said vapor thereon, and means for rotating said housing on an axis perpendicular to said groove to accelerate the flow of condensate along said wall back to said filament to replenish the same in a continuous cycle.

2,348,826
COATING OF OBJECTS OF MAGNESIUM OR THE LIKE WITH OXIDES
Ernst Krause and Ernst Schröder, Leipzig, Germany; vested in the Alien Property Custodian
No Drawing. Application November 5, 1938, Serial No. 238,976. In Germany November 18, 1937
2 Claims. (Cl. 204—56)

1. A process for the production of protective layers of oxide on objects made of magnesium

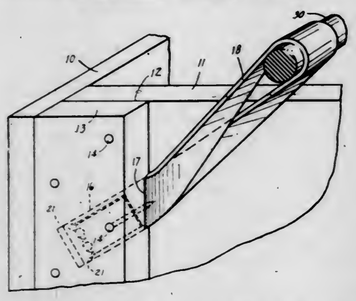
or magnesium alloys comprising making said objects the anode in a bath containing an alkali arsenate, and passing an electric current through said bath.

2,348,827
VALVE CONSTRUCTION
Homer T. Lambert, St. Joseph, Mich., assignor to The Lambert Brake Corporation, St. Joseph, Mich., a corporation of Michigan
Original application October 31, 1941, Serial No. 417,309. Divided and this application May 19, 1943, Serial No. 487,612
2 Claims. (Cl. 137—144)



1. An electromagnetic valve comprising a valve housing having an interior chamber, means providing an inlet into said chamber, means providing a plurality of outlets from said chamber, said last-named means including a plurality of magnetizable conduit members, a ball valve element disposed in said chamber for each of said outlets, means to selectively magnetize said conduit members to attract said ball valve members, and electromagnetically actuated movable means to engage and positively release all of said ball valve members from said conduit members.

2,348,828
BOX HANDLE STRUCTURE
John W. McIlwraith and Edward L. Miller, New Castle, Pa., assignors to Associated Box Corporation
Application September 25, 1942, Serial No. 459,695
8 Claims. (Cl. 16—125)



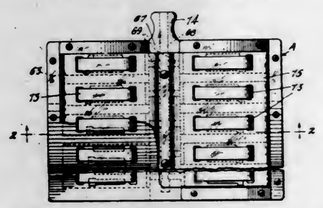
1. A strap handle anchorage for a container having a fabric strap receiving recess, including in combination a fabric strap having an end seated in the recess, a retaining member and an anchor plate means of appreciable width juxtapositioned to the retaining member and adjacent the strap end and recess seated, said anchor means including a plurality of strap engaging teeth seatable in the strap for local distribution of total strain when the member and means have engagement under strap applied strain.

2,348,829
MANUFACTURE OF HEAT INSULATION STRUCTURES
Roger A. MacArthur and Harold W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application July 20, 1939, Serial No. 285,544
11 Claims. (Cl. 18—47.5)



1. A method of making a heat insulation which comprises making a slab of high temperature heat insulation material in a filter mold by forcing an aqueous slurry of solid heat-insulation ingredients into the mold with drainage of water from the mold, removing the formed slab from the filter mold, then trimming and drying said slab, making an aqueous slurry comprising normal magnesium carbonate and mineral fibres, molding said slurry in the form of a slab in integral contact with one surface of said slab of high temperature heat insulation material and then heating the resulting composite structure to convert said normal magnesium carbonate to basic magnesium carbonate, thereby forming a composite heat insulation comprising a slab of low temperature heat-insulation material integral with a slab of high temperature heat-insulation material.

2,348,830
HARMONICA
Finn H. Magnus, West Caldwell, N. J.
Application January 15, 1942, Serial No. 426,829
4 Claims. (Cl. 84—377)

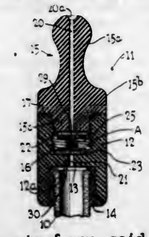


1. A harmonica comprising a body having a wind tube with a channel therethrough and a mouth-piece, two sets of wind cells one at each side of said wind tube with each cell arranged to communicate with said channel, a manually operable valve for each wind cell to control communication between said cell and said channel, a reed plate for each set of wind cells, and reeds on said reed plates each communicating with one of said channels.

2,348,831
SAFETY DEVICE FOR PIPETTES
Waddy T. Mathis, Hamden, Conn., assignor to Clay Adams Co. Inc., New York, N. Y., a corporation of New York
Application February 27, 1941, Serial No. 380,779
13 Claims. (Cl. 222—189)

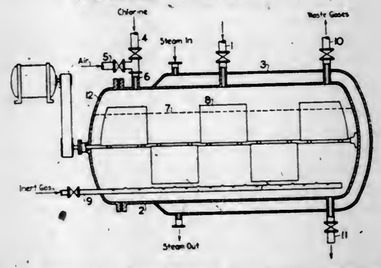
1. A safety device for pipettes or the like comprising an attaching member provided with a mouthpiece and adapted to be attached to one end of said pipette, a chamber in said attaching member, a first aperture in said attaching member communicating with said chamber and with said pipette and a second aperture communicating with said chamber and extending

through said mouthpiece so that a suction may be created in said pipette to draw fluid therein



by withdrawing air from said second aperture and means for preventing said fluid from entering said second aperture.

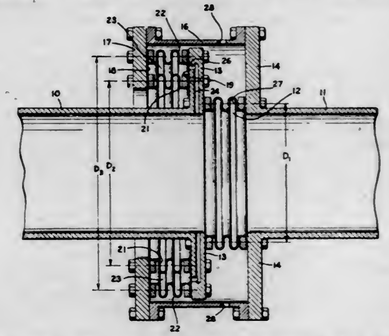
2,348,832
PROCESS FOR TREATING BITUMINOUS SUBSTANCES
Karl Mauch and Othmar Pauer, Hamburg, Germany; vested in the Alien Property Custodian
Application April 3, 1939, Serial No. 265,863
In Germany April 19, 1938
5 Claims. (Cl. 106—273)



4. A method of reducing the temperature susceptibility of an unoxidized bituminous substance comprising contacting said bituminous substance with 10% to 30% of its weight of chlorine, said contacting consisting solely in passing said chlorine slowly for at least one-half hour in contact with the upper surface only of said bituminous substance maintained at a temperature of about 200° C. to 230° C. in the absence of a solvent capable of dissolving said bituminous substance and of reacting with chlorine while mechanically agitating said bituminous substance so as to expose a changing surface to said gas without incorporating any chlorine into the body of said bituminous substance.

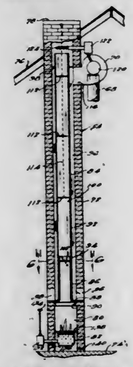
2,348,833
EXPANSION JOINT CONSTRUCTION
Ernest F. Miller, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 22, 1942, Serial No. 469,806
7 Claims. (Cl. 285—90)

1. Apparatus of the character described comprising first and second longitudinally-aligned pipes adapted to contain fluid under pressure and having their adjacent ends spaced apart, flanges integral with said ends, a flexible expansion element between said ends, a first annular member disposed about the first pipe in a plane radial thereto and spaced from the flange of said first pipe at the side thereof remote from the second pipe, means including a tension member for supporting said annular member from the flange of said second pipe, spaced inner and outer annular members providing flexible seals between said first annular member and the flange on the first pipe and defining therebetween an expansible



pressure chamber, and means providing communication between the interiors of said chamber and said pipes, whereby the pressure within said chamber counteracts the pressure in said pipes tending to separate the adjacent ends thereof.

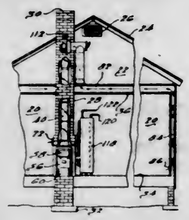
2,348,834
HEATING APPARATUS
Moritz L. Mueller, Detroit, Mich., assignor, by mesne assignments, to Moritz L. Mueller and John H. Mueller, Seattle, Wash., as joint tenants
Application January 22, 1942, Serial No. 427,734
14 Claims. (Cl. 237—55)



3. A heating system for supplying heated air to a space in a building to be occupied by and for the comfort of human beings comprising a chimney which forms a part of the building and which extends upright to and above the roof of the building and has an atmospheric discharge external of the space, said chimney being constructed so as to produce a high potential draft, a combustion chamber in the lower portion of said chimney, means associated with said combustion chamber and constructed and arranged for burning fuel under natural draft operation so as to generate heated products of combustion, a heat exchanger member extending longitudinally of and along a substantial portion of the length of said chimney, said exchanger member and chimney providing a path for the flow of the products of combustion from said combustion chamber to said atmospheric discharge and a separate unidirectional path for flow of air in

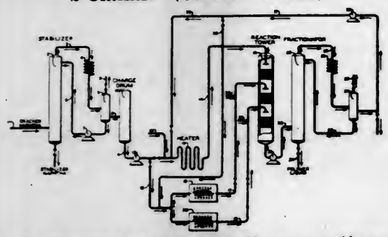
intimate countercurrent heat exchange relationship with the path for flow of the combustion products, an outlet from the lower end of said air path discharging into said space, means including an air moving device operable to supply to the upper portion of said air path, air to be heated and under a pressure greater than the pressure of the products of combustion, and a draft restricting device in said combustion products path for restricting the effective draft in the combustion chamber to that required for efficiently burning fuel therein and which will prevent the passage through the combustion chamber and chimney of large amounts of air which are not necessary to support combustion.

2,348,835
HEATING APPARATUS
Moritz L. Mueller, Seattle, Wash., assignor, by mesne assignments, to Moritz L. Mueller and John H. Mueller, Seattle, Wash., as joint tenants
Application September 2, 1942, Serial No. 457,065
22 Claims. (Cl. 237—2)



2. A heating system for supplying heated air to a space in a building to be occupied by and for the comfort of human beings comprising a chimney which forms part of the building and which extends upright to and above the roof of the building and has an atmospheric discharge external of the space, means which are constructed and arranged for burning fuel so as to generate heated products of combustion, a heat exchanger device arranged to be heated by said fuel burning means during the operation thereof, a heat exchanger member extending longitudinally of and for a substantial portion of the length of said chimney, said heat exchanger member and chimney providing a path thorough which said products of combustion flow to said atmospheric discharge and a separate path for flow of air in intimate countercurrent heat exchange relationship with said combustion products path, means including an air blower operable to supply from said space to the upper portion of said air path, air to be heated and under a pressure greater than the pressure of the products of combustion, the lower end of said air path having an outlet for discharging heated air into said space during the operation of said air blower, said air blower normally being arranged so as to be operated when heated products of combustion are being generated at a substantial rate, means for preventing the operation of said air blower as aforesaid without interfering with the generation of heated products of combustion, and a relief vent at the upper end of said air path for automatically venting said air path externally of said space so as to dissipate from said heat exchanger member the heat absorbed thereby when said fuel burning means are operated for the purpose of heating said heat exchanger device without supplying heated air to said space.

2,348,836
CATALYTIC CONVERSION OF HYDROCARBONS
Richard E. Nagle, New York, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application July 13, 1939, Serial No. 284,192
2 Claims. (Cl. 260—683.15)



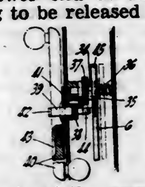
1. A process for catalytically converting normally gaseous olefin containing hydrocarbons into a normally liquid hydrocarbon product boiling in the gasoline range which comprises heating a stream of C_4 and lighter hydrocarbons containing about 20 to 40% olefins to a temperature in the range about 375 to 400° F., passing said stream from inlet to outlet through an elongated catalytic reaction zone containing a stationary solid catalyst comprising phosphoric acid of about 100 to 110% H_3PO_4 by weight, whereby polymerization takes place to form the desired product, removing the hydrocarbon reaction products from the outlet end of the reaction zone remote from said inlet, introducing relatively cool normally gaseous hydrocarbons to the reaction zone at a plurality of successive points intermediate said inlet and outlet for the heated stream in an amount and at such temperature that the overall temperature difference through the reaction zone from inlet to outlet is about 50 to 60° F., the temperature increasing in the direction of flow of said stream through the zone, and progressively increasing the water content of the hydrocarbon stream as it advances through the reaction zone.

2,348,837
METHOD OF PREPARING COCOA AND CHOCOLATE PRODUCTS
Johan Ernst Nyrop, Copenhagen, Denmark; vested in the Alien Property Custodian
No Drawing. Application March 31, 1941, Serial No. 386,189. In Denmark April 18, 1940
8 Claims. (Cl. 99—26)

1. The method of preparing cocoa and chocolate products, consisting in mixing cacao mass with an extraneous aqueous liquid in such proportions as to form a readily flowable liquid, and separating the mixture produced into one fraction containing cacao fat, and other fractions with a low fat content, and subsequently drying the fractions with low fat content to produce the desired material, without previously mixing the same with the said fraction containing the cacao fat.

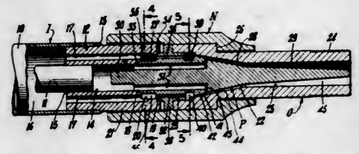
2,348,838
WINDOW SYSTEM FOR MOTOR VEHICLES
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Original application July 29, 1940, Serial No. 348,124. Divided and this application March 15, 1943, Serial No. 479,244
8 Claims. (Cl. 268—125)

1. In a window regulator and particularly a power operated regulator, the combination of a window regulator mechanism, including the parts at the load end of the mechanism and the parts at the power end of the mechanism, a clutch operating to be released by the operation



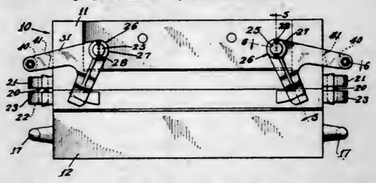
of the power parts of the regulator mechanism to lock the window in position and a releasable connection for tying the power parts to the load parts to permit movement of the window in an emergency although the clutch is locked.

2,348,839
BLOWPIPE
Samuel R. Oldham, Newark, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application January 28, 1941, Serial No. 376,266
6 Claims. (Cl. 158—27.4)



1. An injector type blowpipe mixer provided with means having a frusto-conical passage terminating in an annular injector orifice for one gas, an annular axially narrow outlet passage from which another gas is caused to flow radially toward said annular injector orifice, a relatively long frusto-conical gas mixing chamber into which a frusto-conical jet of gas is adapted to be dischafged by said annular injector orifice, the radial width of said gas mixing chamber being substantially greater than that of said injector orifice, and a relatively long annular discharge chamber into which said gas mixing chamber merges for the flow and further mixing of gases discharged from said mixing chamber, the connection between said mixing chamber and said discharge chamber being entirely unrestricted.

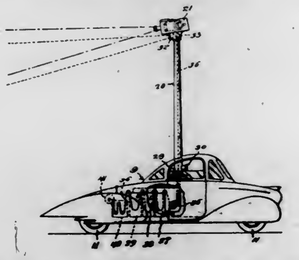
2,348,840
MOLDING FLASK
Walter J. Olson, Suffern, N. Y., assignor to American Brake Shoe Company, a corporation of Delaware
Application April 3, 1943, Serial No. 481,721
6 Claims. (Cl. 22—109)



1. In a molding flask, a pair of separably related flask sections each having side and end walls, one of said sections having bearing means extended outwardly from both of its side walls adjacent to each end thereof, a pair of clamping

arms mounted adjacent each end of said one section, one clamping arm being mounted on said bearing means outside of the respective side walls and adjacent to each corner of said one section, interengageable clamping lugs on the respective clamping arms and on the other of said sections, said clamping arms at each end having operating arms connected thereto and extended beyond the adjacent ends of said one section, handles extended along opposite ends of said one section and connecting the operating arms at each of the ends of said one section for operating the clamping arms in pairs, and stop means operating between said operating arms and the end walls of said one of said sections to limit upon pivoting movement of said operating arms and the handles carried thereby.

2,348,841
RACING ARENA AND PHOTOGRAPHING APPARATUS
Robert Andrew Oswald, San Mateo, Calif., assignor of one-half to Ross Foreman, San Mateo County, Calif.
Application September 3, 1941, Serial No. 409,437
2 Claims. (Cl. 88—16)

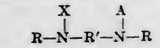


1. The combination with a photographer's car adapted to run upon a track and having a motor-operated motion picture camera mounted in an elevated position thereon and controllable from a point within the car whereby motion pictures of an entire race may be taken while the car is in motion traveling along the racing strip in proximity to the racers, the mounting means for said camera consisting of an upright hollow column mounted on the body of the car and having the camera mounted on the top thereof, said column being rotatable about its longitudinal axis to facilitate directing of the camera toward the subjects being photographed, and means operable by a person seated within the car for directing and controlling the operation of said camera, said last named means comprising lateral handles on the lower end of said column, one of said handles being axially rotatable, and a rod extending through the column and operatively connected at its upper end to a motor starting and stopping device at the camera and at its lower end to said rotatable handle.

2,348,842
ANTIOXIDANT
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 13, 1943, Serial No. 472,273
15 Claims. (Cl. 260—808)

1. A method of preserving organic substances which tend to deteriorate by absorption of oxygen

from the air which comprises incorporating therein a compound of the general formula



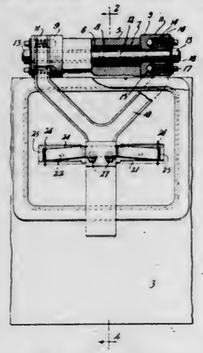
where R represents an aromatic nucleus; R' is an arylene nucleus; A is a hydroxy-alkyl group having at least two carbon atoms in the chain; and X is a radical selected from the class consisting of hydrogen, and a hydroxy-alkyl group.

2,348,843

JOURNAL BOX CLOSURE MEANS

Edwin S. Pearce, Indianapolis, Ind.

Application July 24, 1941, Serial No. 403,793
8 Claims. (Cl. 308—45)



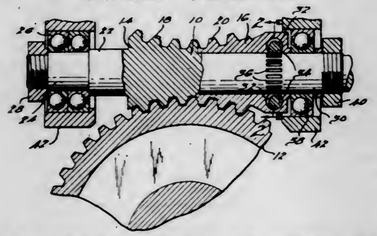
1. Journal box closure means comprising a hinge boss, a hinge member pivoted thereon, means reacting solely against the hinge boss for holding the hinge member in a fixed closing position adjacent to but spaced from the rim of the box opening, a lid member of relatively light weight carried by the hinge member with the rim of the lid clear of the hinge member, and means reacting against the hinge member to press the lid member against the box.

2,348,844

GEAR SHAVING HOB

Harry Pelphrey, Detroit, Mich., assignor to Michigan Tool Company, Detroit, Mich., a corporation of Delaware

Application October 6, 1942, Serial No. 460,975
3 Claims. (Cl. 29—103)



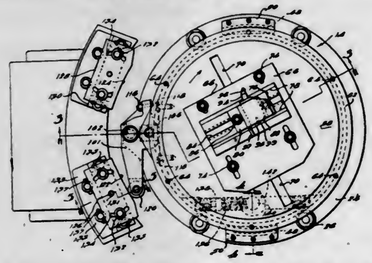
1. A globoidal cutting tool for cutting a worm gear of the Hindley type, said tool being formed of a pair of relatively movable sections, one of said sections having a portion of the thread of a worm formed thereon with a right angle side face and an angular side face extending from one end of the thread over said portion of the thread, portions of one of the side faces being provided with a plurality of spaced grooves extending at an angle to the radial from the root to the crest of the thread, said grooves having side walls intersecting said one of the side faces and being of materially less depth than the thickness of the thread, the edges of the grooves at the intersections between said face and side walls constituting cutting edges, the portions of the face forming lands between the cutting edges, said lands lying in a common smooth surface, the other section having the remaining portion of the thread of the worm formed thereon, the faces of the remaining portion of the thread being smooth, and means to adjustably lock said sections with respect to each other.

2,348,845

MACHINE FOR FORMING GEARS

Harry Pelphrey, Detroit, Mich., assignor to Michigan Tool Company, Detroit, Mich., a corporation of Delaware

Application October 6, 1942, Serial No. 460,976
7 Claims. (Cl. 90—3)



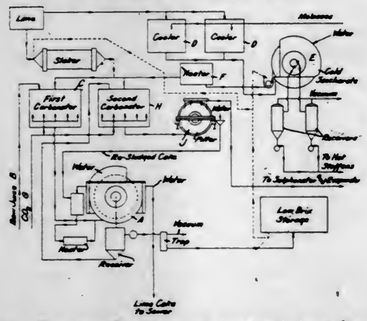
1. Apparatus for relieving the flanks of the thread of a worm of the globoidal type comprising, in combination, means for rotating a worm to be machined, means carrying a cutting tool adapted to pass through the thread of the worm, said last named means including a rotatable table and a tool supporting member mounted on said table for limited rotative movement with respect thereto about the axis of rotation of said table, means causing such relative movement, and means to effect timed rotation of said table with respect to the rotation of the worm.

2,348,846

PURIFICATION OF SUGAR JUICES

Clarence J. Peterson, Salt Lake City, Utah, assignor to The Eimco Corporation, Salt Lake City, Utah, a corporation of Utah

Application May 22, 1940, Serial No. 336,674
4 Claims. (Cl. 127—51)



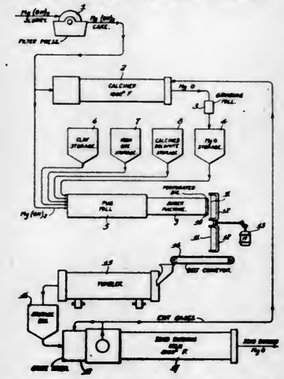
1. In the purification of sugar juices by liming and carbonation thereof the improvement which comprises passing the entire carbonated juice directly through a section of continuously moving endless filter medium under a differential pressure equivalent to about nine inches of mercury and at a temperature in the neighborhood of the boiling point of the juice, continuously washing the filtered solids upon said medium, and continuously removing the washed, filtered solids from said medium.

2,348,847

DEAD BURNED MAGNESIA

Robert D. Pike, Pittsburgh, Pa., assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 6, 1941, Serial No. 409,849
9 Claims. (Cl. 23—201)



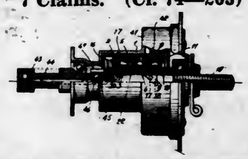
1. That method of making dense dead burned magnesia from moist precipitated magnesium hydrate which comprises lightly calcining a portion of said hydrate to produce a chemically reactive magnesia, mixing the said magnesia with a portion of the uncalcined moist hydrate, forming the mixture into nodules, drying and hardening said nodules by heat autogenously generated therein, and finally heating and calcining the hardened nodules at a temperature to produce dense dead burned magnesia.

2,348,848

SPEED DRIVE FOR FAST RUNNING MACHINES, ESPECIALLY FOR CYCLE DYNAMO MACHINES

Alfred Rabl, Wiener-Neudorf, Germany; vested in the Alien Property Custodian

Application July 28, 1939, Serial No. 287,152
In Germany August 4, 1938
7 Claims. (Cl. 74—263)



1. Friction transmission drive comprising several successive driving stages of rolling members automatically placed in turn in dependence on the moment of rotation, pressure applying means coordinated to the turning moment of each driving stage characterised in that the pressure applying means includes a spring and a graduating, compensating means by which the pressure is distributed from stage to stage in correspondence with the speed transmission attained in the particular stage.

2,348,849

CAST IRON AND ITS MANUFACTURE

Leonce Reygagne, Decazeville, France; vested in the Alien Property Custodian

No Drawing. Application October 27, 1941, Serial No. 416,756. In France September 30, 1940
4 Claims. (Cl. 75—56)

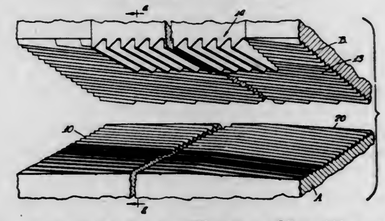
1. The method of refining carbon and silicon in cast-iron which comprises pouring molten blast-furnace iron into the bottom of a ladle containing alternate layers of low carbon iron scrap and hammer-scale and stirring.

2,348,850

ART OF SCREW ROLLING

Cecil C. Richards, Union City, N. J., assignor to Groov-Pin Corporation, Union City, N. J., a corporation of New York

Original application May 3, 1939, Serial No. 271,472. Divided and this application October 17, 1941, Serial No. 415,356
7 Claims. (Cl. 80—9)



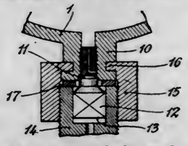
1. The method of rolling a self-cutting screw, which consists in rolling uninterrupted threads upon the screw shank by impression of the threads concurrently into diametrically opposed parts of the rolling shank, thereupon rolling cutting grooves extending from the entering end of the shank transversely of the threads and finally cleaning up unevenness or burrs produced by the cutting groove rolling, by resumption of the initial thread rolling operation.

2,348,851

LIQUID SPRAYING APPARATUS

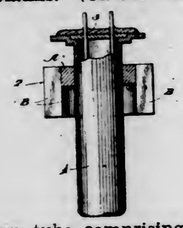
Erik Rotheim, deceased, late of Oslo, Norway; by Erica Rotheim and Hagbarth Rotheim, heirs, Oslo, Norway; vested in the Alien Property Custodian

Application April 15, 1941, Serial No. 388,699
In Norway July 11, 1939
6 Claims. (Cl. 299—95)



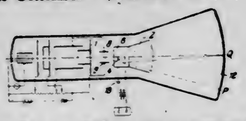
1. In combination a container for liquid under fluid pressure, a spraying device having a conduit in communication therewith, a pressure fluid inlet stud on said spraying device having a passage communicating with said conduit, said passage terminating in a non-cylindrical recess, a second container for pressure fluid having an opening, a valve threaded in said opening, an unround head on said valve fitting into said recess, said second container and stud having means for pressing the same rigidly together and operable upon turning relatively to each other to open said valve thereby establishing communication between said containers.

2,348,852
ELECTRON TUBE
Rudolf Scharfnagel, Stuttgart, Germany; vested in the Alien Property Custodian
Application February 4, 1941, Serial No. 377,299
In Germany January 27, 1940
2 Claims. (Cl. 250—27.5)



1. An electron tube comprising, an elongated metallic envelope, a fusable seal closing one end of said envelope, and cooling means to maintain the temperature of the fusable seal below a predetermined critical temperature, said cooling means comprising a metallic ring tightly fitted about said envelope adjacent the end thereof which is closed by said seal and a plurality of radially positioned elongated fins mounted on the outer periphery of said ring and positioned longitudinally along said envelope whereby a free space is provided adjacent the ring and about the envelope within the group of fins.

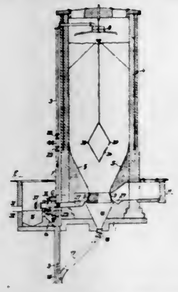
2,348,853
CATHODE RAY TUBE
Kurt Schlesinger, Berlin, Germany; vested in the Alien Property Custodian
Application November 5, 1938, Serial No. 239,153
In Germany May 31, 1938
2 Claims. (Cl. 315—25)



1. In a discharge tube arrangement in combination a cathode ray tube comprising a luminescent screen and means including a cathode and an anode for producing a cathode ray and for focusing said cathode ray on said screen, a deflecting system arranged between said anode and said screen and comprising a pair of magnet coils, for causing said ray to scan said screen, a pair of deflecting plates mounted between said anode and said deflecting system, said pair of deflecting plates being so arranged that, in operation, the lines of force of said deflecting plates extend substantially vertically to the lines of force of said coils, means for connecting the one plate of said pair inside said tube to said anode and means for providing the other plate of said pair with such a potential with respect to said anode that said cathode ray in its stationary position is deflected out of the image field.

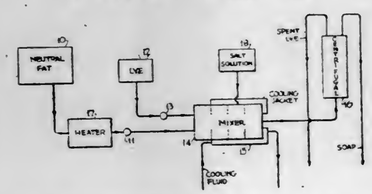
2,348,854
METHOD AND MEANS FOR PURIFYING SEWAGE AND THE LIKE
August Schreiber, Stahnsdorf, Berlin, Germany; vested in the Alien Property Custodian
Application November 10, 1939, Serial No. 303,853
In Germany November 24, 1938
8 Claims. (Cl. 210—7)

1. Method of biologically purifying sewage and the like which comprises percolating the sewage downwardly through a mass of promiscuously deposited particles of solid filling material carraying deposited thereon microorganisms which act on the sewage, withdrawing part of the filling material from the base of said mass, screening out part only of the sludge contained in the



mass and carried on the surfaces of the withdrawn particles, adding the withdrawn particles to fresh sewage to be purified, and delivering said withdrawn particles to the upper surface of said mass in a mixed stream of air and untreated sewage.

2,348,855
MANUFACTURE OF SOAP
Ashton T. Scott, Ardmore, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Original application May 6, 1940, Serial No. 333,547. Divided and this application November 4, 1941, Serial No. 417,747
6 Claims. (Cl. 260—418)

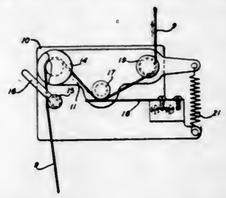


1. In the manufacture of soap by a continuous process comprising subjecting a mixture of a saponifiable fat and a saponifying reagent to a saponifying temperature, salting out the resulting soap and separating soap of the resulting mixture from aqueous saponifying reagent by centrifugation, the step comprising artificially extracting heat from the mixture after the beginning of the saponification reaction during the passage of the mixture to the zone of centrifugation.

2,348,856
STRAND HANDLING APPARATUS
John N. Selvig, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 22, 1942, Serial No. 469,791
5 Claims. (Cl. 242—149)

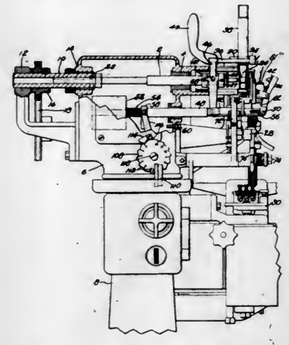
1. In an apparatus for imposing controlled tension on an advancing strand, means to impose friction upon the strand, movably mounted capstan means to receive the strand from the said means and to frictionally resist the advance of the strand and to have the back pull therefor provided by the first named means, and means actuable by displacement of the capstan means

to cause variations of the effectiveness of the capstan means to vary correspondingly the ef-



fectiveness of the first named means and thereby to vary the back pull on the strand coming to the capstan.

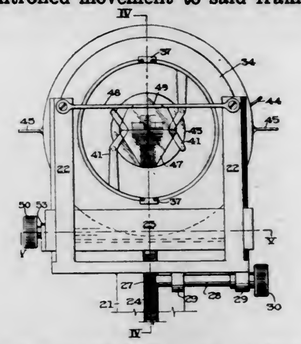
2,348,857
BOBBIN WINDING MACHINE
Paul W. Senfleben, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 30, 1943, Serial No. 474,073
27 Claims. (Cl. 242—17)



1. In a bobbin winding machine having a rotatable winding spindle for supporting a plurality of bobbins in end-to-end relation and a controller actuated by thread on a bobbin while being wound, the combination with mechanism set in operation by the thread controller for removing one wound bobbin from the spindle while withholding another wound bobbin in winding position, and for bringing an empty bobbin into end-to-end relation with the withheld bobbin to enable the thread to be led directly from the withheld bobbin onto the empty bobbin when a new winding operation is started.

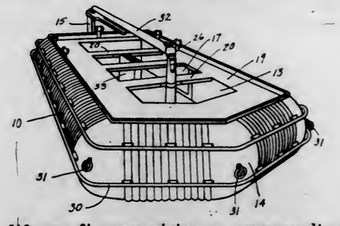
2,348,858
COMBINED AXIOMETER AND BIFOCAL LENS SEGMENT LOCATER
George J. Sheehy, Columbus, Ohio
Application January 9, 1942, Serial No. 426,175
3 Claims. (Cl. 33—174)

1. In mechanism for finding and marking the axes of lenses, a carriage provided with vertical guides, a protractor stationarily mounted on said carriage, a frame section disposed for movement in said guides, said frame section having horizontal guide means, a second frame section disposed for movement in the guides on said first frame section, a lens chuck carrier mounted for rotative adjustment on said second frame section, said carrier serving to support a lens adjacent to said protractor, and means for imparting controlled movement to said frame sections



to adjust a lens held by said carrier relative to said protractor in vertical and horizontal directions.

2,348,859
LIFE CRAFT
Alvin G. Sherman, Grosse Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind., a corporation
Application July 14, 1943, Serial No. 494,608
6 Claims. (Cl. 9—11)

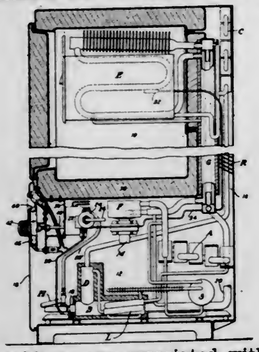


1. A life craft comprising a surrounding shell of sheet metal side plates, a plurality of spaced bulk heads secured within said plates to provide an endless series of water tight compartments about the craft, double spaced flooring secured within said series of compartments intermediate the top and bottom thereof to provide upper and lower cock pits respectively, certain of said compartments providing stowage lockers extending beyond both of said flooring and common to both of said cock pits, and means for sealing said lockers in respect to the lower cock pit and rendering them accessible from the upper cock pit.

2,348,860
REFRIGERATION
Arnold D. Siedle, Cleveland Heights, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application June 25, 1941, Serial No. 399,631
16 Claims. (Cl. 62—5)

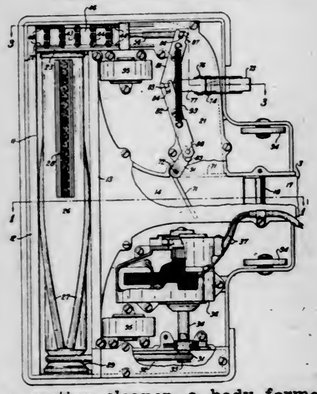
1. In a gas operated refrigerator of the type having a cabinet with an upper food storage compartment and a lower apparatus compartment with a front closure therefor, a gas-fired refrigerator associated therewith having the gas burner therefor positioned in the apparatus compartment, an adjustable control for the gas supplied to the burner and an axially movable manually operated member for adjusting the control, that improvement which consists in positioning the adjustable control for the gas supply in the apparatus compartment adjacent to

the gas burner with the manually operated member directly connected thereto and positioned to be readily accessible from the exterior of the closure member for the apparatus compartment



and releasable means associated with the manually operated member and releasable by axial movement thereof to prevent casual operation thereof.

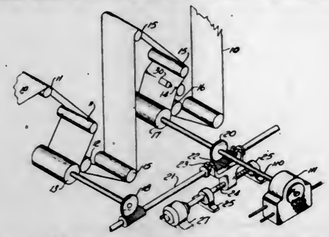
2,348,861
SUCTION CLEANER
Donald G. Smellie, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 21, 1941, Serial No. 399,083
7 Claims. (Cl. 15—9)



1. In a suction cleaner, a body formed with a main elongated nozzle and a secondary nozzle of lesser extent positioned at the end thereof and at the side of said body with its length perpendicular to the length of said main nozzle, air passageways extended from said nozzles to a common junction, a stationary surface-contacting agitating element vertically adjustable in the mouth of said secondary nozzle, and single manually operable means to control selectively the flow of air through each of said nozzles and to raise and lower said agitating element.

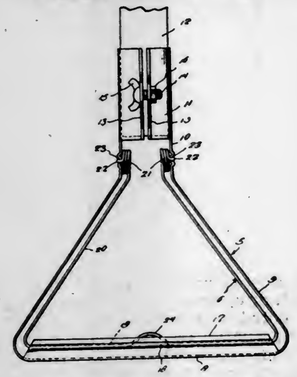
2,348,862
REGISTRATION CONTROL APPARATUS
Morris Sorkin, New York, N. Y., assignor, by mesne assignments, to The Fred Goat Co., Inc., Brooklyn, N. Y., a corporation of New York
Application February 27, 1940, Serial No. 321,056
18 Claims. (Cl. 271—2.6)

1. Register control apparatus for maintaining the operation of a rotating element on a traveling web in register with any prior conditioning of said web, comprising light sensitive means associated with said web for determining the position of a preconditioned portion of said web; light sensitive means for predetermining the forward and rearward limits of tolerance of the



position of the preconditioned portion relative to the rotative position of said element; and means for varying the relationship between said element and said web when the position of the preconditioned portion of the web is not within said limits of tolerance.

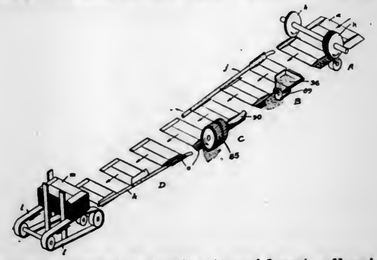
2,348,863
MOPHEAD
Henry Soule, Mooreton, N. Dak.
Application April 24, 1943, Serial No. 484,403
2 Claims. (Cl. 15—150)



2. In a mop head, a substantially triangular shaped jaw including a straight portion and converging portions terminating in parallel spaced portions, adjustable means formed on the parallel spaced portions to receive and grip a handle, a substantially triangular shaped second jaw including a straight portion and converging portions terminating in coil portions having attaching ends with the coil portions arranged between the spaced parallel portions of the first jaw and with the attaching ends located outwardly of the parallel spaced portions, said parallel spaced portions crimped to provide grooves to receive the attaching ends.

2,348,864
MACHINE FOR APPLYING AND DRYING ADHESIVE ON PAPER GOODS
Edwin G. Staude, Minneapolis, Minn.
Application April 6, 1942, Serial No. 437,764
18 Claims. (Cl. 91—18)

1. In an envelope making machine including a sealing flap gumming and drying mechanism for applying adhesive to the sealing flaps of envelopes and conditioning said adhesive against adhering without remoistening, comprising means for advancing said envelopes: means for applying wet adhesive to said sealing flap; a chamber for holding a supply of dry powdered adhesive, a slot on the side of said chamber for the passage of said sealing flaps within said chamber, means within said chamber for apply-

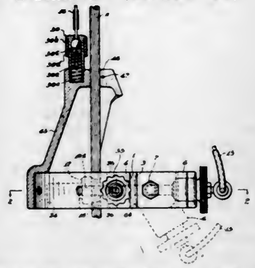


ing dry powdered adhesive to said wet adhesive on said sealing flap; means for removing the surplus dry powdered adhesive; means for returning the said surplus dry powdered adhesive together with the required additional dry powdered adhesive to the means for applying dry powdered adhesive; driving connections for the moving members within said chamber.

2,348,865
LATEX COMPOSITION
Robert R. Sterrett, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application June 11, 1940, Serial No. 339,883. Divided and this application June 6, 1942, Serial No. 446,151
2 Claims. (Cl. 260—740)

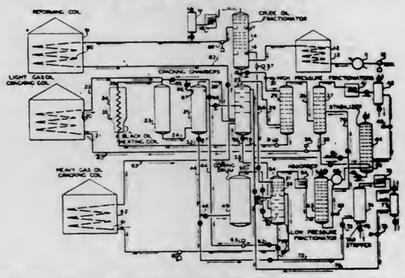
1. A latex composition containing milk, and material from the group consisting of ammonium and alkali-metal fluoride in amount up to 15 parts per 100 parts milk solids to minimize the thickening effect of the milk on the latex, said composition being free from added polyvalent-metal ions.

2,348,866
EXPLOSIVE CARTRIDGE
Robert Temple, Pittsburgh, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del., a corporation of Delaware
Original application August 13, 1941, Serial No. 406,650. Divided and this application November 12, 1942, Serial No. 465,326
4 Claims. (Cl. 102—38)



2. A cartridge comprising a case having an open front end, a projectile having its rear end portion inserted in the open end of the case and tightly engaged thereby, an electric resistance coil in the case having its rear end insulated from the rear end of the case, said coil being compressed against the rear end of the projectile, and an explosive charge in the case in contact with said coil and adapted to be exploded by it.

2,348,867
COMBINATION CRACKING PROCESS
Richard F. Trow, Lawrenceville, Ill., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 20, 1943, Serial No. 487,685
9 Claims. (Cl. 196—49)



7. In the cracking of hydrocarbon oils the process that comprises passing condensate oil through a heating zone wherein it is subjected to a cracking temperature, combining the heated effluent from said heating zone with crude residuum stock, subjecting the combined constituents to cracking and separating the resultant cracked products into vapors and liquid residue in a separating zone maintained under superatmospheric pressure, passing the separated vapors to a separating and dephlegmating zone maintained under superatmospheric pressure, subjecting a higher boiling condensate oil to cracking temperature under superatmospheric pressure in a second heating zone, directing the resultant cracked products to said separating and dephlegmating zone wherein is effected a separation of vapors from a liquid residue consisting essentially of polymer products of cracking, subjecting the dephlegmated vapors to further fractionation to separate reflux condensate from lighter fractions, recycling said reflux condensate to the first-mentioned heating zone, flashing the residue from said separating and dephlegmating zone to separate a polymer fuel oil, subjecting the flashed vapors to fractionation to separate a high boiling reflux condensate from lighter fractions, directing said high boiling reflux condensate to said second heating zone, and flash distilling the residue from the first-mentioned separating zone and combining resultant flashed distillate with vapors from the aforesaid cracking zones for fractionation therewith.

2,348,868
PROCESS OF MANUFACTURING FLEXIBLE CELLULOSIC PRODUCTS
Gaston Hubert Vulliet-Durand, Paris, France; vested in the Alien Property Custodian
No Drawing. Application March 10, 1939, Serial No. 261,154. In France March 10, 1938
1 Claim. (Cl. 92—21)

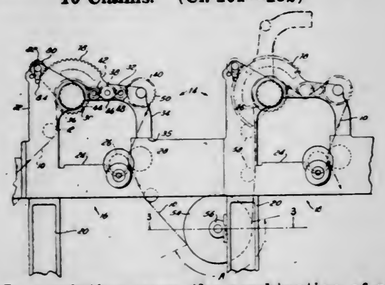
The process for the production of a flexible cellulose pulp product which comprises solubilizing mannan by heating with a solution of sodium carbonate, precipitating the mannan with alcohol, mixing the precipitated mannan with cellulose pulp, giving the mixture the desired form, drying the formed material, soaking the form in a bath of acidulated water and finally drying.

2,348,869
VEHICLE LANDING GEAR
Carl J. Wagner, Detroit, Mich.
Application January 11, 1943, Serial No. 472,040
4 Claims. (Cl. 254—86)



1. In a vehicle landing gear, a tube, a fork for a ground wheel having a tubular part sleeved upon and adapted to turn relative to an end portion of the tube and provided in spaced relation to said end portion with a transverse portion, an insert within and rigid with the end portion of the tube, a swivel connection between the transverse portion of the fork and said insert, and a thrust bearing encircling the swivel connection between the transverse portion of the fork and said insert.

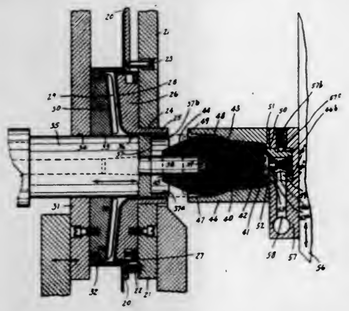
2,348,870
ROTARY INTAGLIO PRINTING PRESS
Arthur M. Wickwire, Jr., Mountain Lakes, N. J., assignor, by mesne assignments, to The Fred Goat Co., Inc., Brooklyn, N. Y., a corporation of New York
Application July 5, 1940, Serial No. 343,914
10 Claims. (Cl. 101—152)



1. In a printing press, the combination of side frames; a substantially horizontally disposed printing couple supported by said side frames; and a movable superstructure pivotally secured to said side frames above said printing couple and carrying means for guiding a web to said printing couple.

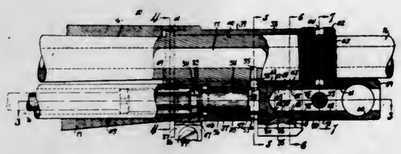
2,348,871
SHEET PULP CONTAINER FORMING APPARATUS
Lee M. Wiley, Marion, Ind., assignor of one-third to Julian T. Lett and one-third to Reeley B. Wiley, both of Marion, Ind.
Application February 1, 1940, Serial No. 316,742
12 Claims. (Cl. 18—19)

1. In a container forming machine a receiver mold, a rubber-like plunger for nesting, and compressing when nested therein, a blank, said plunger normally being of smaller maximum peripheral outline than that of the maximum interior outline of the mold, and a single means movable in timed relation with plunger for the cooperation mold and confining and deforming the plunger for conforming the nested blank to



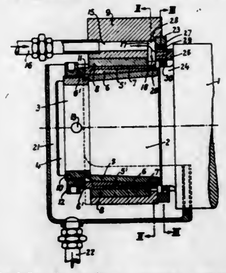
the mold interior, the plunger being axially elongated and of greater length than the resulting container, said means being of chambered character, the chamber confronting the mold receiving end, the plunger body being receivable by the chamber upon deformation of the plunger in the mold incident to blank formation.

2,348,872
GAS-OPERATED AUTOMATIC FIREARM
David M. Williams and William C. Roemer, New Haven, Conn., assignors to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application January 13, 1940, Serial No. 313,650
2 Claims. (Cl. 42—3)



1. A gas-operated automatic firearm-construction including in combination: a barrel having an axial bore and a gas-port leading laterally therefrom; cylinder-limiting means carried by the said barrel; a cylinder-mounting fixture having a barrel-receiving passage extending therethrough from front to rear and receiving the muzzle portion of the said barrel, a cylinder-receiving passage extending from front to rear in substantial parallelism with the said barrel-receiving passage, and a gas-port extending through a wall of the said cylinder-mounting fixture into communication with the gas-port of the said barrel; means for holding the said cylinder-mounting fixture against both rotary and axial displacement with respect to the said barrel; a tubular gas-cylinder removably and replaceably installed in the cylinder-receiving passage of the said cylinder-mounting fixture and having a radial gas-port in communication with the gas-port in the wall of the cylinder-receiving passage of the said fixture, the said tubular gas-cylinder having a longitudinal clearance-groove flanked at either side by an end wall, the said clearance-groove receiving the cylinder-limiting means of the said barrel and the end walls of the said clearance-groove being positioned to engage with the cylinder-limiting means of the said barrel to limit the rotational movement of the said tubular gas-cylinder in the cylinder-receiving passage of the said cylinder-mounting fixture; and locking-means for releasably coupling the said tubular gas-cylinder to the said cylinder-mounting fixture against axial displacement with respect thereto and constructed and arranged to be rendered effective and ineffective respectively by reverse turning movements of the said gas-cylinder with respect to the said cylinder-mounting fixture.

2,348,873
ADJUSTABLE BEARING
Theodor Wuppermann, Leverkusen-Schlebusch, near Cologne-on-the-Rhine, and Friedrich Koenig, Cologne-Mulheim, Germany; vested in the Alien Property Custodian
Application January 27, 1940, Serial No. 315,990
In Germany January 27, 1939
6 Claims. (Cl. 308—71)



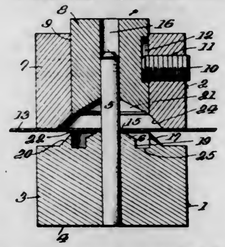
1. Adjustable bearing, more particularly rolling mill bearing, comprising in combination a stationary bearing portion composed of a material offering a high resistance to wear, said stationary bearing portion forming a hollow-cylindrical bearing surface, a rotatable bearing portion, said rotatable bearing portion consisting of a rotatable support, and spaced sectors thereon, said sectors composed of materials offering less resistance to wear, said sectors being axially adjustable against their support having a conical contact against the rotatable support while their outer bounding surface constitutes a cylindrical wall surface, and means for effecting the mutual axial adjustment of all sectors.

2,348,874
OILHOLE DRILL
Rudolf W. Andreasson, Detroit, Mich.
Application March 22, 1943, Serial No. 480,001
5 Claims. (Cl. 77—68)



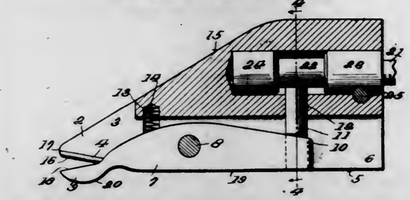
1. A drill comprising, in combination, a generally cylindrical body portion having flutes formed therein providing lands between said flutes, said lands being relieved between the opposite edges thereof to provide outstanding ridges along each edge thereof, each of said lands having an oil hole therein extending longitudinally thereof and opening onto the point of said drill, and said oil holes being open laterally to the relief of the corresponding lands adjacent said point of said drill only.

2,348,875
PUNCH AND DIE
Charles L. Beard, Lancaster, Pa.
Application June 11, 1943, Serial No. 490,472
2 Claims. (Cl. 164—29)



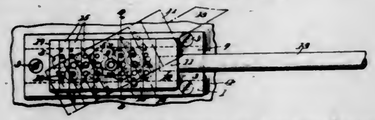
1. A tool of the kind described comprising a base member and a punch member, said base member having a flat top face provided with a central recess, a beveled shoulder in said recess, a pilot pin projecting upwardly from said beveled shoulder, said shoulder and guide pin being concentrically disposed within said recess, an angle shoulder on the upper face of said base member encircling said beveled shoulder, said beveled shoulder projecting slightly above said angle shoulder the punch member comprising a collar and a plunger sleeved therein for relative reciprocatory movement with respect to said collar, said collar having a flat bottom face corresponding to the flat top face of the base member and formed with an inset angle shoulder corresponding in angularity with and opposing the angle shoulder of the base member, the plunger member being bored to receive the pilot pin and formed with a recess in its lower end in which the beveled shoulder of the base member is received, the lower end of the plunger being tightly received between the beveled shoulder and the circular wall of said central recess.

2,348,876
METAL CUTTER
Charles L. Beard, Lancaster, Pa.
Application August 23, 1943, Serial No. 499,667
1 Claim. (Cl. 30—247)



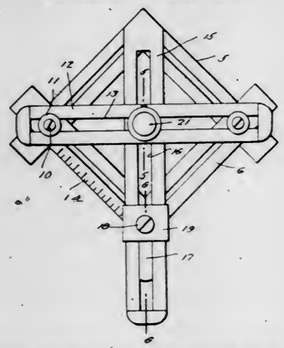
A cutting tool comprising a body having a flat horizontally disposed lower face throughout a greater portion of its length and oppositely inclined upper and lower faces converging at the front end of said body, said lower inclined face merging with said horizontal face, said front end having a slot formed therein to define parallel fixed blades, said horizontally disposed lower face having a longitudinally disposed slot therein communicating with said first mentioned slot, a movable blade pivotally mounted in said last mentioned slot for reciprocatory movement between said fixed blades, said movable blade having a straight cutting edge disposed at an acute angle to said lower inclined faces, and means for rocking said movable blade on its pivot.

2,348,877
RIVET CUTTER
Charles L. Beard, Lancaster, Pa.
Application August 23, 1943, Serial No. 499,668
2 Claims. (Cl. 164—40)



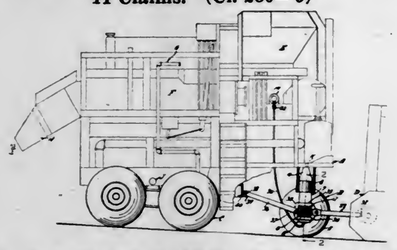
1. A cutting tool for rivets and other fasteners comprising a fixed base member having a plurality of longitudinally arranged rows of rivet receiving openings therein, the openings of one row being staggered with respect to the openings of the next adjacent row, a cutting member rotatably mounted on said base and being formed with a plurality of offset portions each having a transverse row of rivet receiving openings therein of varying length and diameter, said openings in the base member being of considerably greater diameter than the largest opening in the cutting member and arranged in the path of movement of said last mentioned openings so that any one of several of the openings of each of said transverse rows of openings can be caused to register with one of the openings in said base member, and means for rotating said cutting member relative to said base member for shearing a rivet arranged in two of said registering openings.

2,348,878
CENTER LOCATING DEVICE
George L. Behen, Arvada, Colo., assignor of one-half to Ralph Ashton, Arvada, Colo.
Application April 23, 1943, Serial No. 484,265
1 Claim. (Cl. 33—191)



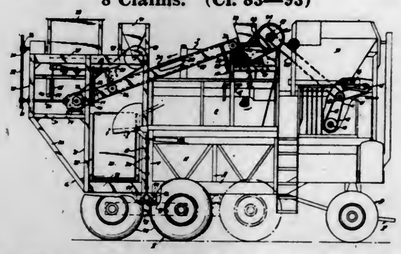
A center locating device comprising a pair of right angle square members each having a pair of arms disposed at a 90 degree angle relative to each other, the arms of said square members being slotted longitudinally to define a plurality of fingers for each arm, said fingers interlapping at the points of crossing of the arms and the fingers of each arm having registered longitudinal elongated slots, a bolt disposed through the slots of the fingers of each pair of crossed arms, a connector bar having a longitudinally elongated slot through which the bolts of both pairs of crossed arms also pass, a guide tongue fixed to and projecting from the juncture of the arms of one of said square members, an elongated beam fixed at one end to the juncture of the arms of the other square member and extending across the first-named juncture of the first-named one of said square members, said beam having a longitudinally elongated slot receiving said guide tongue, a cap plate secured over the beam and to said guide tongue, and a marker including a body disposed on the connector bar and having a boss disposed through the slots of the connector bar and the beam, said body and boss having an axial bore, and a marking element longitudinally adjustable in said bore and projecting from the boss.

2,348,879
HYDRAULIC LEVEL CONTROL FOR MIXING MACHINES
Egon G. Berg, and Melvin Ovestrud, Minneapolis, Minn., assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn., a corporation of Delaware
Original application September 21, 1940, Serial No. 357,708. Divided and this application October 13, 1941, Serial No. 414,708
11 Claims. (Cl. 280—6)



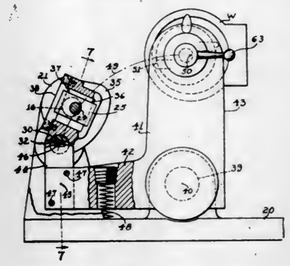
1. In a vehicle, a frame, ground wheels supporting the rear end of the frame, a steerable truck having ground wheels supporting the front end of the frame, said truck including an axle, a pair of telescopically and rotatably arranged tubular members disposed in an upright position with the uppermost member pivotally connected to the frame and the lowermost member connected to the axle, a radius member connecting the lowermost member with the frame, and a hydraulic jack arranged within said members and operative to raise and lower the frame with respect to the axle.

2,348,880
BINDER FEEDING ATTACHMENT FOR MIXING MACHINES
Egon G. Berg and Melvin Ovestrud, Minneapolis Minn., assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn., a corporation of Delaware
Application May 4, 1942, Serial No. 441,618
8 Claims. (Cl. 83—93)



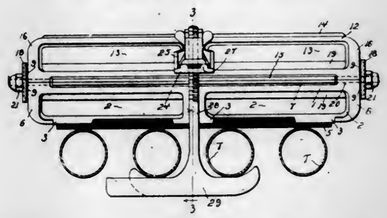
1. The combination with a machine for mixing road building materials including an aggregate hopper and a mixing device, of a mechanism for feeding a soil binder to the mixing device for preparing materials for stabilized roads, said soil binder feeding mechanism including separate main frame units removably connected to the machine, a binder hopper and feeding means upon one frame unit, a binder shredding mechanism on the other frame unit, and a conveyor device operatively arranged to carry the binder from the feeding means to the shredding mechanism.

2,348,881
METHOD OF AND APPARATUS FOR THE GENERATIVE FORMATION OF SURFACES OF OVATE SECTION
Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application February 19, 1941, Serial No. 379,619
10 Claims. (Cl. 77—3)



6. Apparatus of the class described, for directly generating in the bore of a workpiece, a surface of approximately the sectional contour described by the ends of equal-length chords passing in all directions through an interior point offset from the bore axis, and comprising a cutting tool for operation on the bore surface, means supporting said tool for substantially radial movement relative to said bore axis, means for rotating the workpiece on said bore axis, a fulcrumed member rocking in timed relation to said workpiece rotation, and plane and arcuate surfaces, one on said member and the other on said supporting means, said surfaces by the rocking of said member being caused to roll on each other to produce the substantially radial tool movements required for the generation of said contour.

2,348,882
ELECTROLYTIC WATER CORRECTION DEVICE
Edgar M. Butler, New Orleans, La.
Application June 12, 1940, Serial No. 340,159
12 Claims. (Cl. 204—248)

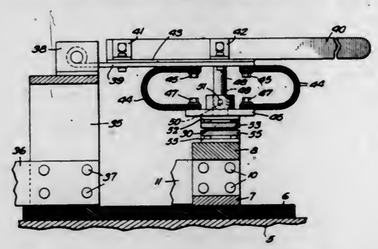


1. A self-energizing electrolytic water correction device, comprising an elongated case composed of an upper half and a lower half, the lower half having a flat bottom and elongated openings in its wall at the sides and adjacent said bottom to permit free outflow of sludge and precipitated matter, insulating bars secured in spaced relation to the bottom of the case to form rests therefor, the upper half of the case also having longitudinal elongated openings in its wall for free circulation of electrolyte, and at least one negative element held spaced from the longitudinal walls of the case with its ends in tight contact with the end walls of the case.

2,348,883
ZINC OXIDE
Howard M. Cyr, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 3, 1940, Serial No. 338,581
7 Claims. (Cl. 106—296)

1. In the treatment of finely-divided zinc oxide containing a sulphur compound and having an acidity in excess of about 0.2%, calculated as per cent SO_3 on the weight of the zinc oxide, the improvement which comprises exposing the zinc oxide to the action of steam until the acidity of the zinc oxide is substantially below 0.2% and to the action of acetic acid in proportions ranging from about 0.1% to about 0.6% on the weight of the zinc oxide to form zinc acetate on the surfaces of the zinc oxide particles.

2,348,884
BRAZING APPARATUS
Leonard S. Dewees, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 1, 1943, Serial No. 470,989
6 Claims. (Cl. 219—12)

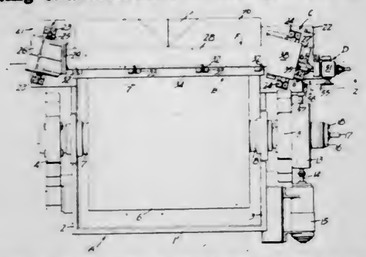


1. In a brazing apparatus, a pair of carbon electrodes, means for supplying current to said electrodes, and means for supporting one of said electrodes comprising a handle, a pair of flexible leads constituting a part of the means for supplying current to one of the electrodes, an electrode support connected to said flexible leads, and means for pivotally supporting said electrode support for slight movement with respect to said handle.

2,348,885
PRECOAT FILTER
Edward C. Ditzen, San Leandro, Calif., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application February 15, 1941, Serial No. 379,079
17 Claims. (Cl. 210—201)

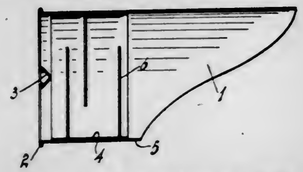
1. In a filter of the precoat type: a filter cell and precoat knife arranged for relative movement over each other; power means for effecting relative movement of said filter cell and precoat knife toward each other so as to cause said knife to cut into a precoat carried by said filter cell; and

means responsive to variations in the light reflecting characteristics of said precoat for con-



trolling said power means and thereby causing said precoat knife to take a cut from said precoat.

2,348,886
BLACK-OUT PORT VENTILATOR
David E. Dodgson, San Pedro, Calif.
Application October 19, 1942, Serial No. 462,503
1 Claim. (Cl. 98—37)



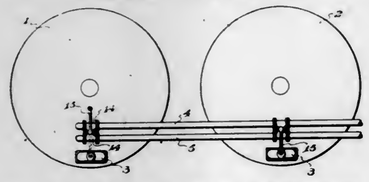
A port ventilator comprising a tubular air scoop open at its inner and outer ends and of a length and diameter adapting it to fit snugly in a porthole and project outwardly therefrom, abutment means about the inner end of said scoop for limiting outward movement thereof through the porthole, the outwardly projecting portion of said scoop being cut diagonally along one side, a sleeve removably received through the outer end thereof and fitting snugly therein between the diagonally cut outer portion of the scoop and the open inner end thereof, a bar mounted diametrically through the inner end of the scoop and serving as a handle for the scoop and as a stop for the inner end of the sleeve, and baffle plates in said sleeve spaced from each other longitudinally thereof, said plates being secured in marginal engagement with opposite side portions of the wall of the sleeve and extending in opposite directions transversely in the sleeve with their free end portions overlapped to provide a tortuous passage through the sleeve.

2,348,887
METHOD OF BENDING GLASS SHEETS
John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Original application June 2, 1938, Serial No. 211,343, now Patent No. 2,247,118, dated June 24, 1941. Divided and this application December 13, 1940, Serial No. 369,933
3 Claims. (Cl. 49—84)



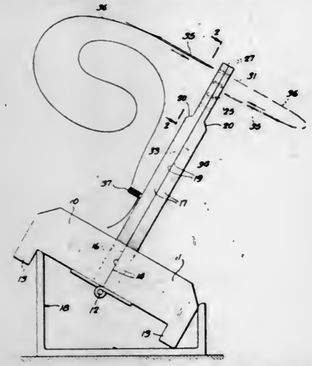
1. The method of bending glass sheets, which comprises directing a continuously moving sheet, heated to the desired temperature, substantially horizontally between oppositely disposed sheet contacting elements and progressively bending the sheet to a predetermined curvature as succeeding portions of said sheet pass beyond and out of engagement with said contacting elements and while other portions are still engaged thereby.

2,348,888
PRESSURE RELIEF SYSTEM FOR STORAGE TANKS
Phillips B. Drane, Tulsa, Okla.
Application July 3, 1941, Serial No. 401,051
7 Claims. (Cl. 220—85)



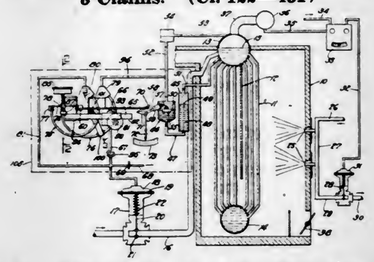
1. The combination with a plurality of pressure tanks, of a tank equalizing line connected to each tank, a tank blow-off line connected to each tank, a single valve carried by each tank for controlling the passage of gasses to the equalizing line and the blow-off line, independent hand levers carried by each of said valves for operating their respective valves, said hand levers being limited in their movement, hatch closures carried by said tanks adjacent the valves, said hand levers overlying the hatch closures when the equalizing line is open to the tanks through the opened valves, said hand levers being out of the path of the hatch covers when the pressure from the tanks is passing to the blow-off line through the opened valves.

2,348,889
COIL WINDING DEVICE
John A. Earl, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 4, 1943, Serial No. 478,037
6 Claims. (Cl. 242—4)



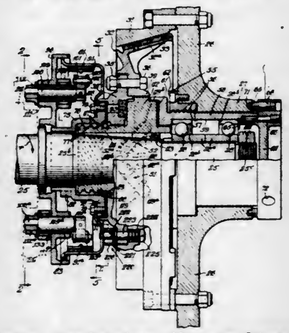
1. A device for manually winding toroidal coils comprising means for supporting a core, said means being slitted at a plurality of points extending outwardly from and communicating with a core supported thereon to guide a strand to be annularly wound with the convolutions thereof in spaced relation upon the core.

2,348,890
BOILER FEED WATER CONTROL MECHANISM
Henry C. Earle, Jr., Philadelphia, Pa., assignor to Mason-Neilan Regulator Co., Boston, Mass., a voluntary trust of Massachusetts
Application December 16, 1940, Serial No. 370,367
8 Claims. (Cl. 122—451)



8. In combination, a vapor generator, pressure operated means for supplying liquid to be vaporized, a controller in operative connection with said means including a system having a source of fluid under pressure, an exhaust nozzle for the system, a flapper movable in relation to the nozzle to vary the pressure in the system, a fulcrum for the flapper, a device sensitive to variations in the level of liquid in the generator for moving the flapper about the fulcrum, and means responsive to variations of static pressure in the generator for changing the position of the fulcrum.

2,348,891
CLUTCH CONTROL MECHANISM
Clarence M. Eason, Waukesha, Wis.
Application January 15, 1942, Serial No. 426,817
30 Claims. (Cl. 192—12)



1. In clutch mechanism, the combination of a clutch comprising a shiftable clutch element, control means therefor comprising a rotatable and shiftable brake member operative to control said clutch by shifting movement, torque responsive servo mechanism operative to shift said shiftable clutch element toward said brake member, and rotatable thrusting mechanism operative to shift said brake member toward said shiftable clutch element.

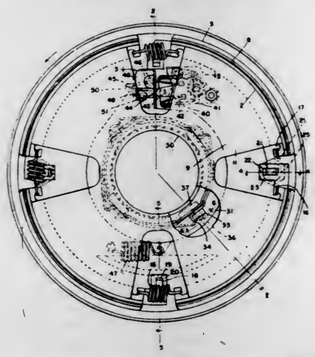
2,348,892
SAFETY RAZOR
James Clinton Flickinger, Cleveland, Ohio, assignor of one-half to Frank J. Fuller, Cleveland, Ohio
Application July 14, 1941, Serial No. 402,398
9 Claims. (Cl. 30—43)

1. In a safety razor, a handle, a motor operated drive shaft extending out of said handle, a cutter shaft attached to and extending axially from said drive shaft and having reversely spiralling circumferential grooves therein forming islands having cutting edges, and a tubular guard attached to said handle and fitting over said cutter shaft, said guard having a bottom



side adapted to be opposed to the skin and provided with longitudinal rows of apertures therein to admit hair into the guard, said apertures forming cutting edges for coaction with said cutting edges of the cutter shaft to effect a shearing cut under rotation of said cutter shaft.

2,348,893
BRAKE
Phelps M. Freer, Detroit, Mich.
Application July 26, 1943, Serial No. 496,190
4 Claims. (Cl. 188—78)



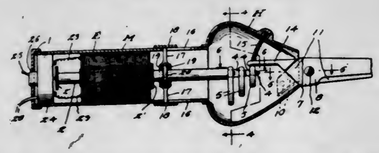
1. In a brake, the combination with a brake drum, internal brake shoes and means for moving said shoes against said drum, said means comprising a member having an axially movable central portion and a radially movable outer portion, of mechanism for axially moving said central portion comprising a stationary tubular bracket, angularly spaced levers pivoted on said bracket and operatively connected to said central portion, and a rotatable ring on said bracket for swinging said levers.

2,348,894
PROCESS AND TREATING BATH FOR THE PRODUCTION OF COLORED PHOTOGRAPHIC PICTURES
Béla Gáspár, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada
No Drawing. Original application December 13, 1937, Serial No. 179,591. Divided and this application September 25, 1941, Serial No. 412,342. In Great Britain December 14, 1936
35 Claims. (Cl. 95—6)

4. A treating bath for producing a photographic dye image in a photographic emulsion uniformly dyed with an azo-dye and also comprising a developed silver image, comprising a substance capable of forming complex silver compounds and which acts to selectively destroy said azo-dye by reduction in the presence of said silver image

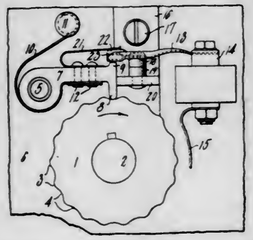
and a small amount of an organic dye which is reducible and the reduction products of which are reoxidizable during the production of said image to the original reducible organic dye, the composition of said bath being such that the reduction products of said organic dye are reoxidizable during the production of said dye image and said bath being initially substantially free of reducing substances capable of being converted into said reducible dye by oxidation.

2,348,895
POWER-OPERATED SCISSORS
Vincenzo Gaudio, Cranston, R. I.
Application September 27, 1943, Serial No. 503,981
6 Claims. (Cl. 30—228)



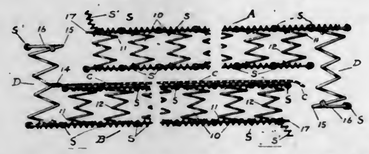
1. Power operated scissors comprising a handle member, a stationary scissor blade carried by the member, a swinging blade pivoted to the stationary blade, an arm extending from the swinging blade, a motor carried by the handle member, an endwise movable shaft driven by the motor, a plurality of cams carried by the shaft, each of said cams having a high point differing from the remaining cams, and means for moving the shaft endwise to bring a selected cam into working position with respect to the arm to move the swinging blade relative to the stationary blade.

2,348,896
CIRCUIT BREAKER
Robert H. Gibson, Springfield, Mass., and William D. Crocker, Suffield, Conn., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application August 14, 1943, Serial No. 498,628
12 Claims. (Cl. 200—30)



1. In a circuit breaker having cooperative electrical contacts, a deflectable lever which carries one of the contacts and which is spring biased in the direction to engage it with the other contact, an actuating member, a hammer which is spring biased in the direction to engage it with the actuating member and which is intermittently actuated by the actuating member to move the deflectable lever against its spring bias to thereby separate the contacts, and a damping spring which is carried by the hammer in cooperation with the deflectable lever and which is constructed and arranged to be stressed in a direction to reengage the contacts whenever they bounce apart upon engagement thereof.

2,348,897
SPRING FOR BEDS OR MATTRESSES
Benjamin Gladstone, Lynn, Mass.
Application June 6, 1942, Serial No. 446,091
3 Claims. (Cl. 5—351)



3. As an article of manufacture, a coiled spring body section for a duplex bed or mattress structure, a border section of coiled springs which are stronger than the springs of the body section and of a height approximately double that of the springs of the body section and which extend along at least one side of the body section, and means for connecting the springs of the border section to the springs of the body section with one face of the springs of the border section approximately flush with one face of the springs of the body section and the other face of the springs of the border section projecting beyond the other face of the springs of the body section, whereby two of these substantially identical sections may be so combined in reverse relation to each other as to form a spring structure having a duplex body and a border on at least two opposite sides thereof of springs stronger than the springs of the body sections.

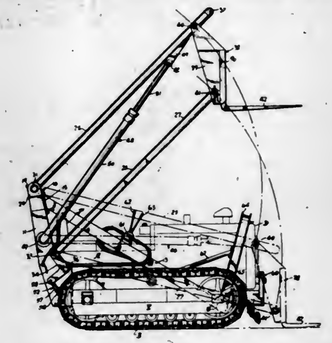
2,348,898
MANUFACTURE OF HEAT INSULATION MATERIAL
Harold W. Greider and Roger A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
No Drawing. **Original application August 16, 1938, Serial No. 225,140. Divided and this application December 10, 1940, Serial No. 369,432**
11 Claims. (Cl. 23—67)

1. A method of manufacturing molded heat insulation material which comprises heating magnesium bicarbonate solution to precipitate normal magnesium carbonate leaving part of the magnesium bicarbonate in the mother liquor, separating the normal magnesium carbonate from the mother liquor, heating the separated mother liquor sufficiently to convert magnesium bicarbonate therein to basic magnesium carbonate, making an aqueous slurry comprising normal magnesium carbonate produced as aforesaid and basic magnesium carbonate produced as aforesaid, molding the slurry to form a molded article, and heating the molded article prior to complete drying thereof sufficiently to convert normal magnesium carbonate therein into basic magnesium carbonate.

2,348,899
LOADER
Ulyss O. Guignard and Wayne E. Schober, Minneapolis, Minn., assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn, a corporation of Delaware
Application November 2, 1942, Serial No. 464,160
5 Claims. (Cl. 214—131)

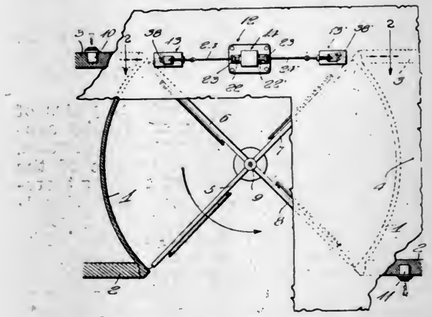
1. A tractor mounted loader comprising a frame supported rearwardly on the tractor, a load carrier disposed forwardly of the tractor, longitudinally extending vertically spaced, substantially parallel boom arms pivotally mounted at their rear ends on the frame and pivotally connected at their

forward ends to the load carrier, said frame, carrier and boom arms forming an articulated substantial parallelogram construction which when actuated to raise and lower the carrier will retain the latter in predetermined working angle, an extensible lifting ram disposed entirely within the



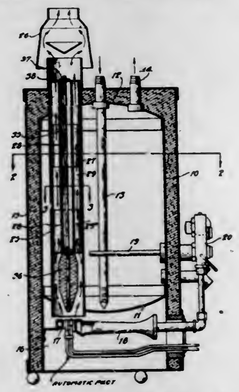
vertical limits of the boom arms and extending diagonally of such parallelogram and connecting the frame to one of said arms, and power means for operating the lifting ram to thereby actuate the parallelogram construction and operate the carrier.

2,348,900
ELECTRICALLY CONTROLLED LOCK SYSTEM FOR REVOLVING DOORS
Thurloe M. Hagenbook, Evansville, Ind., assignor to International Steel Company, Evansville, Ind., a corporation of Indiana
Application January 24, 1941, Serial No. 375,835
4 Claims. (Cl. 70—264)



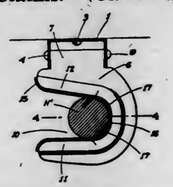
1. A lock system for revolving doors comprising in combination with the wing and drum structure of a revolving door, projectible and retractible locking bolt members carried by certain of the wings of the revolving door, spring actuated latching devices carried by the drum structure in positions adapted to coact with the locking bolt members carried by the revolving door wings for effecting individual engagement with the locking bolt members when said locking bolt members are moved to projected positions, and electrically operated means disposed intermediate said spring actuated latching devices comprising an electromagnetic operating winding mounted in a substantially horizontal position with a substantially hollow magnetic core structure extending therethrough, a pair of core members slidably disposed in each end of said hollow core structure, and connections between the respective core members and the associated spring actuated latching devices for simultaneously tripping said spring actuated latching devices under magnetic control of said operating winding for releasing said locking bolt members for movement to retracted positions.

2,348,901
WATER HEATER
Harold E. Handley, Jackson, Mich., assignor to Handley Brown Heater Company, Jackson, Mich., a corporation of Michigan
Application July 11, 1941, Serial No. 402,043
6 Claims. (Cl. 138—38)



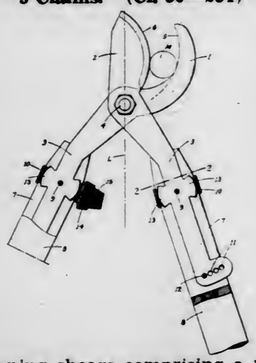
4. A baffle construction for a domestic water heater, including a series of baffles in a tube, each comprising two concentric half cylinders of cast iron joined by a plurality of radial webs and arranged in pairs in stacked relation with the webs of each tier of baffles being arranged at angles with adjacent baffles, and a refractory body suspended from said baffles and concentric with said tube directly above the heating element of the heater, the outer dimensions of the body being larger than the diameter of the inner cylinder formed by said baffles.

2,348,902
HANDLE RETAINING FIXTURE
Roy R. Hart, San Jose, Calif.
Application May 20, 1941, Serial No. 394,303
2 Claims. (Cl. 24—249)



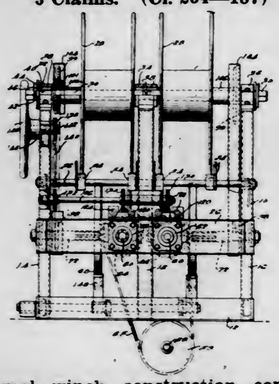
1. In a handle retaining fixture which includes a bracket adapted to be secured on a wall, and a plate hinged to the bracket for vertical swinging movement and having a handle receiving aperture cut therein lengthwise of the hinge axis and open to one side of the plate; the portions of the plate on opposite sides of said aperture forming handle engaging jaws, the working edge of the jaw farthest from the axis of the plate being parallel to said axis and to the wall, and the working edge of the jaw nearest said axis diverging relative to said first named jaw from the closed to the open end of said aperture.

2,348,903
PRUNING SHEARS
Roy R. Hart, San Jose, Calif.
Application May 29, 1943, Serial No. 489,048
5 Claims. (Cl. 30—254)



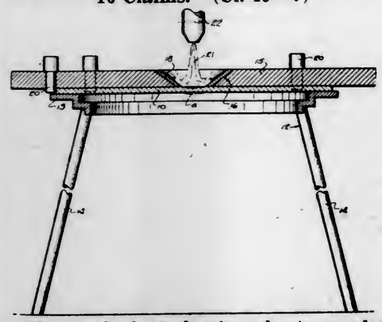
3. A pruning shears comprising a pair of cooperating cutting members disposed in crossing relation and having cutting edges adapted to abruptly overlap for the greater portion of their length only as the members are brought to a fully closed position, a pivot connecting the members, handles rigid with the members for manipulating the same and yieldable stop means functioning upon closing movement of the members to a point adjacent but short of the inception of any overlap of said portion of the length of the cutting edges.

2,348,904
WIRE REEL CONSTRUCTION
Ronald K. Hatch, Highland Park, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application September 10, 1941, Serial No. 410,304
3 Claims. (Cl. 254—187)



3. A reel winch construction comprising a standard, a drive shaft mounted on said standard and adapted to have a wire reel mounted thereon, and friction means for driving said shaft, said last named means including a disc and wheel in frictional driving engagement with each other, means mounting said wheel for movement between the center and periphery of said disc, and means for shifting said wheel along the face of the disc to thereby vary the driving speed, said last named means including a yoke arm, roller bearing means operatively connecting said yoke arm to said wheel, a pair of spaced wheels mounted on said standard, an endless belt trained over said pair of wheels and disposed transversely of said disc, means connecting said belt to said yoke, a hand wheel remotely located with respect to one of said pair of wheels, and means including an endless belt connecting said hand wheel to said one of said pair of wheels to shift said yoke upon turning of said hand wheel to thereby vary the speed of said drive.

2,348,905
METHOD OF AND APPARATUS FOR SHAPING GLASS
John J. Hopfield, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application April 3, 1941, Serial No. 386,577
10 Claims. (Cl. 49—7)

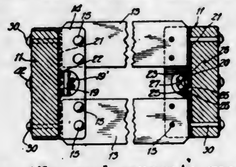


1. The method of shaping sheets or plates of glass, comprising shielding the major area of a glass sheet around a minor area consisting of a central unshielded portion and a surrounding shielded portion, heating the central portion of said minor area to the point of softening of the glass, and then unshielding and heating the portion surrounding said central portion also to the softening point of the glass and while said initially heated central portion is still in a softened condition.

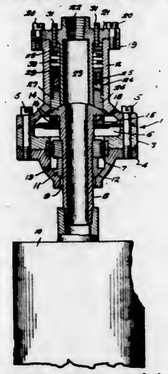
7. Apparatus for shaping sheets or plates of glass, comprising a stand for marginally supporting the glass sheet in a horizontal position, shielding means for the upper surface of the sheet including a plate having an opening therein to surround an area consisting of an unshielded central portion and a surrounding portion, and an auxiliary shield removably received within the opening in said plate for reducing the size thereof and shielding the surrounding portion of said area, and common means for heating said area to first heat the unshielded central portion of the glass sheet to cause a softening and sagging of said portion, and after said auxiliary shield is removed to heat and soften the surrounding portion to increase the size of said softened area.

2,348,906
CHAIN LADDER
Harold P. Hopp, Englewood, N. J., and Edward Kunzelman, Mount Vernon, N. Y., assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y.
Application June 30, 1943, Serial No. 492,790
13 Claims. (Cl. 228—40)

2. A ladder of the type described comprising in combination, steps, spacing ears and side stiles in the form of link chains, channel members carried by the ends of the steps, the side walls of said channel member having cut out portions to receive the side stiles therein, means for securing each of the channel members to its respective side stile, and separate means for securing each of the side stiles to its respective spacing ear upon opposite sides of the step.

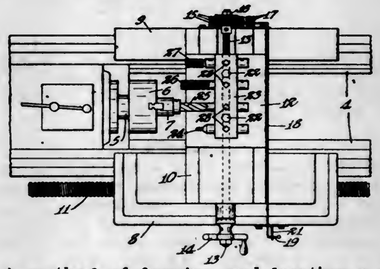


2,348,907
ROTARY SEAL JOINT
Charles Willmott Howard, Franklin, Ohio
Application June 30, 1943, Serial No. 492,927
3 Claims. (Cl. 285—97.3)



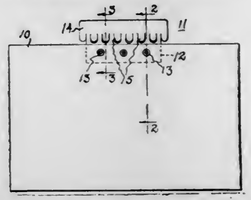
1. A rotary seal joint comprising a tube, a segmental ball seat on one end of the tube, a self-aligning bearing mounted on the tube, a housing rotatably and rockably mounted on the bearing for universal movement on the tube, a resilient ring in the housing encircling the tube, sealing rings between the first-named ring and the seat, said rings defining a lubricant chamber in the housing for the bearing, a closure on one end of the housing, said closure having an inlet therein, a tube on the closure communicating with the inlet and the first-named tube, and means for sealing the joints between the first- and second-named tubes.

2,348,908
METHOD OF MAKING MULTIPLE TOOLHOLDERS
Joseph H. Jacobs, Minneapolis, Minn.
Application August 10, 1942, Serial No. 454,283
2 Claims. (Cl. 29—54)



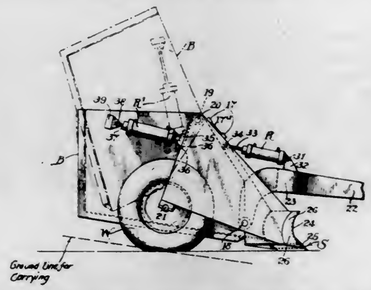
2. A method of forming and locating a tool holder for a lathe having a work holder with a fixed axis of rotation and having tool feed means movable relative to said work holder and transversely of said rotational axis, which includes moving said tool holder transversely of said rotational axis of said work holder to a pre-determined position, and forming a tool receiver in said tool holder with a forming device mounted in said work holder.

2,348,909
DATA TAB
Frank D. Jonas, East Williston, N. Y., assignor to Oxford Filing Supply Co., Brooklyn, N. Y., a partnership
Application October 2, 1941, Serial No. 413,254
3 Claims. (Cl. 40—16)



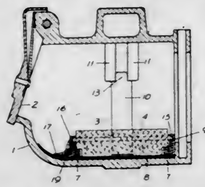
1. An index tab of the type described consisting of an integral plate of suitable material having two portions lying in angularly related planes and a plurality of ears struck out from one portion so as to lie in the plane of the other portion, and a transparent casing secured to the portion including the ears by overlapping the ears on the terminal portion in the plane of which the ears lie.

2,348,910
CARRYING SCRAPER
Harold D. Kadz, Glendale, Calif., assignor to Kay-Brunner Steel Products, Inc., a corporation of Delaware
Application March 4, 1942, Serial No. 433,283
7 Claims. (Cl. 37—129)



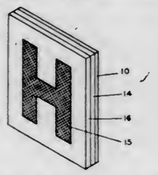
1. In a two wheel carrying scraper; a frame; a draft bar pivoted on said frame; a pair of wheels pivotally supporting said frame; a bowl pivotally supported on said frame between said wheels to occupy carrying and dumping positions; means operatively connecting said bowl with said frame for moving the bowl to and from a dumping position; means operatively connecting said frame with said bar for elevating said bowl from a loading position to a carrying position; and implements carried by said frame and extending to opposite sides of said bowl for scraping the earth in advance of said wheels, to form level paths therefor, and to guide the earth thus scraped into said bowl.

2,348,911
CAR AXLE LUBRICATOR
Waldemar H. Korn, Davenport, Iowa
Application December 7, 1940, Serial No. 369,074
3 Claims. (Cl. 308—88)



1. A journal lubricator for mounting in a journal box provided on the internal surfaces of its lateral walls with lugs and in which a journal rotates; comprising a lubricant absorber and applicator to extend lengthwise of the box when mounted therein, and a U-shaped spring extending transversely of the position occupied by a journal when in the box and supporting said absorber and holding it against the journal when positioned therein, the ends of said spring being engageable with said lugs of the journal box to be held in position thereby and said spring being resiliently flexible throughout its length.

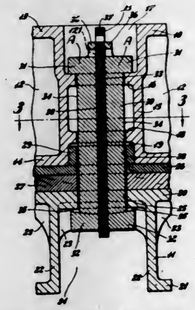
2,348,912
SELF-ANALYZING DICHROIC IMAGE
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application September 19, 1940, Serial No. 357,441
4 Claims. (Cl. 88—65)



1. In combination, a sheet of transparent material comprising dichroic material forming light-polarizing areas positioned to form a predetermined design, means providing substantially a quarter-wave retardation plate bonded to said sheet and positioned with its optical axes at angles of substantially 45° to the transmission axes of said polarizing areas, and means providing a non-depolarizing, reflecting surface bonded to said quarter-wave plate.

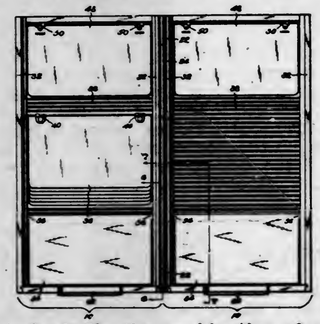
2,348,913
CAR CONSTRUCTION
Edward H. Lehman, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application November 10, 1941, Serial No. 418,434
6 Claims. (Cl. 105—200)

1. In car construction, the combination with body and truck bolsters having aligned center pin receiving openings, each of said bolsters being provided with an annular shoulder adjacent the outer end of the opening thereof; of a sectional center pin extending through said openings, said pin including a plurality of outer sections and a central filler element, said filler element and outer sections having flat engaging faces extending lengthwise of the pin, said filler element having laterally projecting lugs at the upper end adapted to overlie the annular shoulder of the body bolster, said outer sections having flanges at opposite ends thereto overlying the shoulders of said bolsters, said flanged ends of the outer sections having angular corners at the lower ends thereof adjacent the flat faces of said filler element, the inner faces of said flanges being forced against the annular shoulders of said bolsters when the latter are separated or pulled



apart, the annular shoulder of the truck bolster and the opposed faces of the cooperating flanges of said outer sections converging laterally outwardly to provide for rocking movement of the outer sections on said shoulder and thereby wedge said outer sections against said filler element and bring the corners at the lower ends of the former into binding engagement with the latter to lock the filler element to said outer sections.

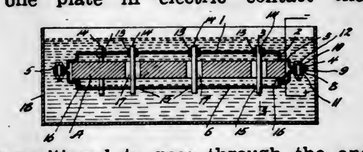
2,348,914
BOOK FILE
Hjalmer C. Lindros, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y., a corporation of Massachusetts
Application May 29, 1943, Serial No. 488,960
7 Claims. (Cl. 129—34)



1. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular frame composed of a panel bounded by four strips, one strip of each frame being provided with a cylindric surface and a cylindrical knuckle received therein and constituting a hinge piece, and pintle means received in said knuckles and joining said hinge pieces.

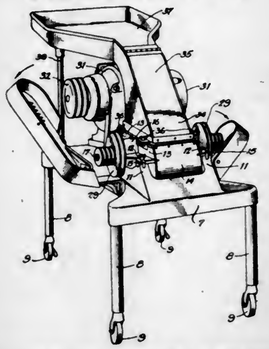
2,348,915
JIG OR FIXTURE FOR ELECTROPLATING
Axel E. Lundbye, Springfield, Ohio, assignor to The Crowell-Collier Publishing Company, Springfield, Ohio, a corporation of Delaware
Application July 3, 1942, Serial No. 449,623
6 Claims. (Cl. 204—297)

1. An electroplating fixture for an apertured article including two electrically conducting separable plates, means for clamping the same to each other and on opposite sides of said article, insulating separators between the plates where the same are clamped together, anodes secured in one plate in electric contact therewith



and positioned to pass through the apertures in the said article and extend into electrical insulators in the other plate, and insulators between the article and the plate carrying the anodes.

2,348,916
COMMINUTING MACHINE
Elmer G. Magnus, Chicago, Ill., assignor to The W. J. Fitzpatrick Company, Chicago, Ill., a corporation of Illinois
Application October 16, 1941, Serial No. 415,163
3 Claims. (Cl. 146—96)

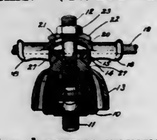


1. A comminuting machine comprising a supporting frame, a hollow body part adapted to be supported on the frame, fastening means symmetrically arranged on the body part and the frame so the body part can be supported on the frame with either end at the forward end of the machine, a rotor shaft extending through the body part, drive means on the rotor shaft, blade members carried by the rotor shaft and differently shaped on their opposite edges, drive means carried by the frame and rotatable in one direction only, and means to connect the drive means on the frame to the drive means on the rotor shaft in either position of the body part whereby the effective direction of rotation of the rotor shaft will be reversed.

2,348,917
PROCESS FOR THE MANUFACTURE OF MERCAPTOTHIAZOLINES
Roger A. Mathes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application October 4, 1940, Serial No. 359,729
6 Claims. (Cl. 260—302)

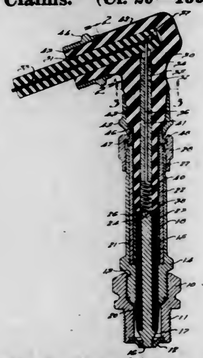
1. A process for producing a heterocyclic mercapto compound embodying a ring consisting of from three to four carbon atoms, one nitrogen atom and one sulfur atom, one carbon atom of said ring being directly between the nitrogen and sulfur atoms and joined to the sulfur of the non-nuclear mercapto group, which comprises interacting one molecular proportion of a free, three to four membered, cyclic, alkylene imine and substantially two molecular proportions of carbon disulfide in the presence of at least one molecular proportion of aqueous caustic alkali, and heating the reaction mixture to a temperature at least as high as the atmospheric pressure refluxing temperature.

2,348,918
SPAN HANGER FOR TROLLEY WIRES
Samuel S. Matthes, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application July 27, 1940, Serial No. 348,000
7 Claims. (Cl. 174—160)



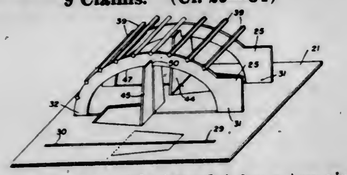
1. A trolley wire hanger comprising an insulator, means for suspending a trolley wire from said insulator and a clamp extending transversely of the axis of said insulator for connecting said insulator to a span wire, said clamp being arranged to open at one side thereof to receive a span wire and being adjustable in a vertical plane in one angular direction only from a horizontal position to insure installation of said clamp in a predetermined relation to the direction of traffic when secured to an inclined portion of a span wire at one side of a thoroughfare.

2,348,919
METHOD OF MAKING SHIELDED SPARK PLUG CONNECTORS
Thomas W. Milton, Detroit, Mich., assignor to The Flex-O-Tube Company, a corporation of Delaware
Application April 6, 1942, Serial No. 437,746
4 Claims. (Cl. 29—155.5)



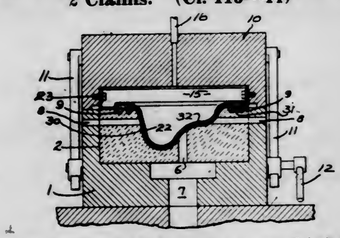
1. The method of making a radio shielded spark plug connector body which consists in molding a plastic body having ignition wire and spark plug branches, then electroplating said body, forming threads in the plastic body free end portions of said ignition wire and spark plug branches, threading fittings on said threaded branch ends of said plastic body with solder interposed between the fittings and the plating on said body, inwardly compressing the fittings at points over the solder, and completing the soldering by local applications of heat.

2,348,920
APPARATUS FOR ASSEMBLING STRUCTURES
Joseph S. Ott, Chicago, Ill., assignor to Joe Ott Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application June 23, 1941, Serial No. 399,332
9 Claims. (Cl. 29—84)



1. A layout assembly templet for a toy airplane structure and the like comprising a flat sheet of material having prearranged means therein for receiving frame former elements therein in a substantially upright position, and other means on said flat sheet to support the frame former elements in true vertical position against accidental displacement, said last named means comprising a part of said sheet to frictionally engage frame former elements independent of said first named means.

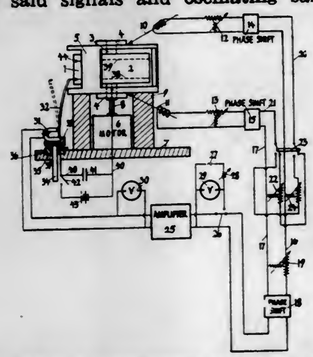
2,348,921
DRAW PRESS
Vladimir H. Pavlecka, Pacific Palisades, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application August 16, 1941, Serial No. 407,194
2 Claims. (Cl. 113—44)



1. The method of forming a work sheet in a cavity die which comprises placing said work sheet across and beyond the cavity of said die applying a pressure pad of varying width around the cavity of said die in pressure transmitting relationship to said work sheet, expanding a resilient material against said sheet to force said sheet to take the contour of said die, and simultaneously applying pressure of the expanding resilient material in varying values along the edges of the sheet extending beyond said cavity to differentially control the movement of sheet material into said cavity.

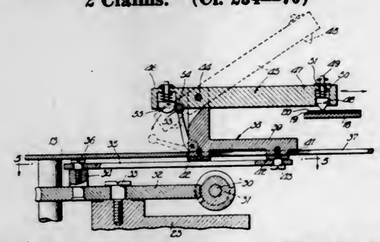
2,348,922
SYSTEM FOR INDICATING UNBALANCE OF CYCLICALLY MOVING BODIES
Albert G. Pekar, Ridgefield Park, N. J., assignor to George Sharpnack, Ridgefield Park, N. J.
Application April 7, 1943, Serial No. 482,180
7 Claims. (Cl. 73—53)

2. A device for indicating unbalance of a cyclically moving body, said device comprising a resiliently mounted cage, means to move said body cyclically in said cage at a definite frequency whereby any unbalance of said body causes vibrations of said cage, an electric circuit, means forming a part of said circuit and transforming said vibrations into electrical signals, means to measure the magnitude of said signals, a reed, means actuated by said circuit, responsive to said signals and oscillating said reed,



said reed being so positioned that said reed contacts said body at its extreme position of oscillation, but does not contact said body at any other position.

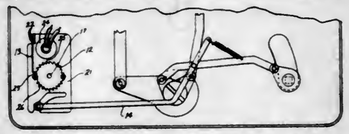
2,348,923
VEHICLE RECORDER
Joseph Perricone, Brooklyn, N. Y.
Application May 27, 1941, Serial No. 395,349
2 Claims. (Cl. 234—70)



2. In a recorder device, a table, a carriage comprising a base and an upstanding bearing, means for slidably connecting said base to said table, a stylus arm pivotally mounted on said bearing, a latch member pivoted to said carriage and disposed beneath said stylus arm for upward swinging movement into engagement therewith, a keeper member carried by said stylus arm with which the latch member engages to lock said stylus arm against swinging movement in a direction away from said table, and means for imparting reciprocating movement to said carriage.

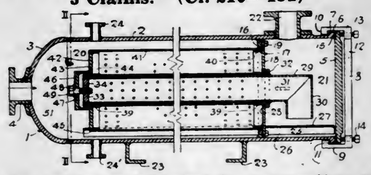
2,348,924
AUTOMATIC STOP FOR PHONOGRAPH MECHANISMS
Howard A. Roe, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application January 27, 1942, Serial No. 428,389
3 Claims. (Cl. 192—120)

1. In an automatic phonograph mechanism of the type wherein different records of a stack may be periodically individually placed upon a phonograph turntable by virtue of a record changing mechanism associated therewith, switch means adapted to be associated with said record changing mechanism for turning motor current on and off whereby said turntable is rotatably moved or stopped, a toggle lever comprising a part of said switch means, a shaft carrying a manually operable dial at one end thereof and a ratchet wheel at the other end thereof, said wheel comprising a plurality of ratchet teeth and at least one of said teeth being offset, said shaft being projected through a mounting plate for said phonograph turntable and being positioned adjacent to said switch, an indent spring having the free end thereof disposed to contact said ratchet wheel and to engage said wheel between adjacent teeth thereof, said indent spring being adapted to be



moved in either direction by reason of the movement of the ratchet wheel, a ratchet lever operatively associated with the record changing mechanism and adapted to ratchet said ratchet wheel, the toggle lever engaging said offset tooth of said ratchet wheel at a predetermined point in the rotation of said ratchet wheel, the initial setting of the dial positioning its associated ratchet wheel in such manner that when a predetermined number of records have been played the switch turns the current off.

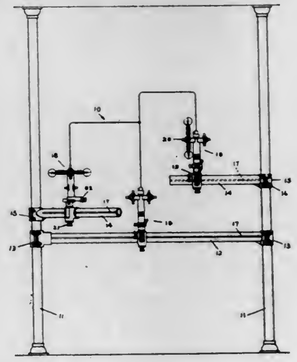
2,348,925
LIQUID FILTER
Edward Reichhelm, Old Greenwich, Conn., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application October 10, 1942, Serial No. 461,543
3 Claims. (Cl. 210—131)



1. An appliance adapted for connection with a liquid-conveying conduit for filtering said liquid, said appliance comprising an outer shell; a filter device in said shell having an end well transversely partitioning said shell into two compartments, one of said compartments being for unfiltered liquid and having an inlet orifice for connection to said conduit, said device being removably housed in said unfiltered liquid compartment, the other of said compartments being for filtered liquid and being provided with an outlet orifice for filtered liquid in the side wall of said shell and being open at its outer end for the passage of said device therethrough, said device having an outlet conduit opening downwardly into said filtered liquid compartment providing an inlet for said filtered liquid compartment disposed at a point below said filtered liquid component outlet orifice; and a detachable cover for said open end.

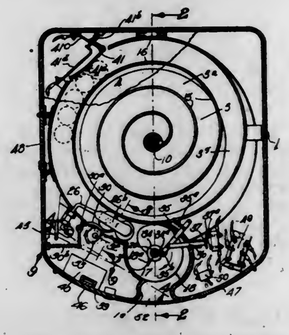
2,348,926
APPARATUS FOR DETERMINING STRESSES IN PIPE ARRANGEMENTS
David B. Rossheim, Teaneck, N. J., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application July 8, 1941, Serial No. 401,458
5 Claims. (Cl. 73—51)

1. In apparatus for determining on a scaled model reactions relative to the three coordinate axes of a three-dimensional piping system, the combination of a frame comprising a pair of spaced uprights, a vertically adjustable cross-bar connected to said uprights, and a plurality of vertically adjustable lateral bars attached at one end to said uprights, each of said lateral bars being rotatable about its respective upright in a plane perpendicular to the axis thereof; means adjustably positioned on said cross-bar and said



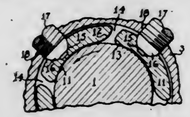
lateral bars for supporting said pipe model by its ends; means for individually deflecting the supported pipe-ends whereby with relation to a predetermined fixed end predetermined strains may be produced at the remaining ends to set up reactions at each of the supports; means for resolving said reactions into measurable components; and means for measuring said components.

2,348,927
DISPENSING AND VENDING MACHINE
Martin S. Runsvold and Harrison G. Sloane, San Diego, Calif.
Application December 27, 1940, Serial No. 371,894
8 Claims. (Cl. 312—87)



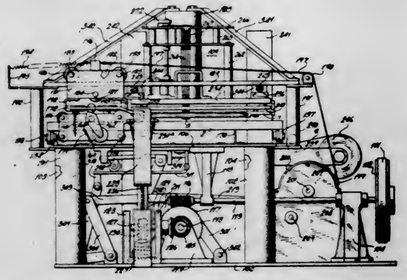
1. In a vending machine of the class described, the combination of a rotatably mounted horizontal carrier member, guide members for directing articles on said carrier member relative to the periphery thereof, an adjacent exterior delivery platform, a rotatable delivery member recessed for receiving individual articles within its outer side and means for rotating said rotatable delivery member so as to move the articles successively from such carrier and to deposit them upon such delivery platform.

2,348,928
BEARING CONSTRUCTION
Peter M. Sampatacos, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application November 13, 1941, Serial No. 418,956
7 Claims. (Cl. 308—73)



1. In a bearing construction, a rotary member having a bearing surface, means for supplying lubricant thereto, and a plurality of segmental shoes arranged in a circular series about said surface, each shoe being mounted for rocking movement to form with said bearing surface a wedge-shaped pocket for the lubricant film on said bearing surface, the leading end of each shoe overhanging the entrance to its pocket and presenting across substantially the shoe's entire thickness a convex surface in opposition to the lubricant escaping from beneath the trailing end of the preceding shoe of said series.

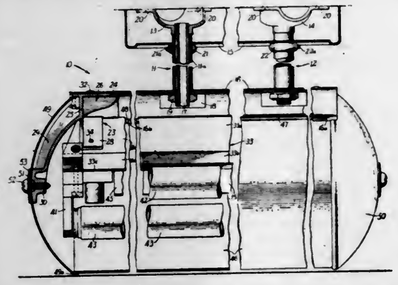
2,348,929
METHOD AND APPARATUS FOR APPLYING RADIUM-LUMINESCENT MATERIAL
Marvin R. Saxby, Pleasant Plains, Staten Island, N. Y., assignor of sixty per cent to George Murran, New York County, N. Y.
Application June 12, 1941, Serial No. 397,684
27 Claims. (Cl. 101—318)



1. The method of printing which comprises immersing a plurality of hollow-ended quills in the printing medium, rotating the quills around their individual longitudinal axes while immersed, and transferring the printing medium from the quills to a receiving surface while maintaining the quills rotating.

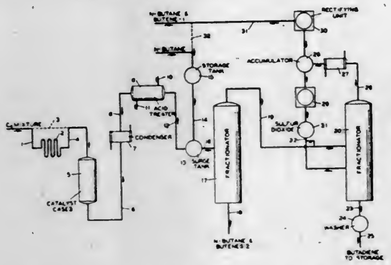
2,348,930
FLUORESCENT LIGHTING FIXTURE
Lindsley Schepmoes, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application May 6, 1942, Serial No. 441,903
4 Claims. (Cl. 240—78)

1. In a lighting fixture, the combination of, an elongated arcuate top plate adapted to be supported with its axis horizontal, a supporting bracket secured to each end of said top plate and depending therefrom, each of said brackets including a plurality of supporting surfaces, a trough-shaped member secured to some of the supporting surfaces of said brackets and forming with said top plate an elongated enclosure adapted to receive the regulating apparatus for a fluorescent light tube, a pair of sockets secured to and depending from said trough-shaped member, a fluorescent light tube mounted in said



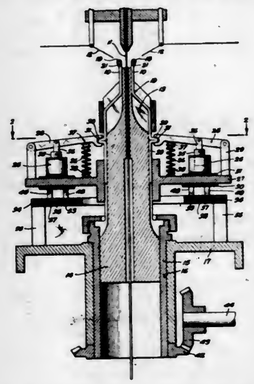
sockets, a curved translucent shade secured to said top plate and enclosing said sockets and said tube, and a translucent end cap secured to one of the other supporting surfaces of each of said brackets, said shade and top plate together forming a cylindrical section closed at its ends by said end caps.

2,348,931
PROCESS FOR THE TREATMENT OF HYDROCARBONS
Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 10, 1940, Serial No. 369,491
6 Claims. (Cl. 260—681.5)



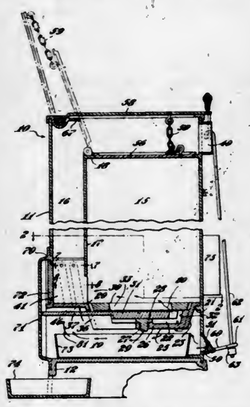
1. A process for the separation of butadiene from a C_4 hydrocarbon mixture containing isobutane, butene-1, isobutene and butadiene, which comprises fractionally distilling said mixture to separate isobutane, contacting the de-isobutanized mixture with an isomerization catalyst to convert butene-1 to butenes-2, selectively removing isobutene from the isomerized mixture, adding to the substantially isobutene-free mixture sufficient n-butane to provide a concentration of n-butane substantially in excess of the trans-butene-2 content, fractionally distilling the resulting mixture to produce an overhead fraction free from butene-2 and comprising butadiene, n-butane and unconverted butene-1 and a bottoms fraction free from butadiene and comprising n-butane and butenes-2, and fractionally distilling said overhead fraction admixed with sulfur dioxide to produce an overhead fraction comprising the sulfur dioxide azeotropes of n-butane and and butene-1, and a bottoms fraction comprising butadiene.

2,348,932
KNITTING MACHINE
De Hart G. Scrantom, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 17, 1943, Serial No. 479,442
14 Claims. (Cl. 66—9)



1. In an apparatus for knitting a covering on a strand, a knitting needle, a carrier for said needle, and electromagnetically actuated means supported on said carrier for reciprocating said needle.

2,348,933
STOVE
Lauren E. Seeley, New Haven, Conn.
Application March 7, 1940, Serial No. 322,655
2 Claims. (Cl. 126—73)



1. In a stove of the fuel magazine type, in combination, means forming upwardly extending fuel and gas combustion chambers, an upwardly extending partition between said chambers and forming a common wall therefor, said partition terminating at a point spaced from the bottom of said chambers to provide a passage therebetween for gases flowing from the fuel chamber to the gas chamber, a flue, means forming a third chamber and connecting the top of said gas chamber with said flue, said third chamber extending over the top of the fuel chamber, said fuel and third chambers having openings in the top thereof, lids hinged to said fuel and third chambers for closing the openings therein, means connecting said lids whereby raising the lid on said third chamber raises the fuel chamber lid, said fuel chamber lid being pivoted adjacent the outlet of said gas chamber and the inlet of said third chamber and being of sufficient width so that when it is opened it pivots upwardly through said third chamber into engagement with the wall of said gas chamber to close the upper end of said gas chamber, means forming a grate in the bottom of said gas chamber adjacent said opening to retain the fuel in the fuel chamber but permit the flow of gases therefrom into the bottom of said gas chamber, means forming a passageway in said grate for air to flow therethrough into said gas chamber, an ashpit beneath said compartments, and draft means for supplying air to said fuel chamber and to said passageway.

2,348,934
COOKING STOVE
Ralston M. Sherman, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut
Application March 29, 1941, Serial No. 385,879
11 Claims. (Cl. 99—400)

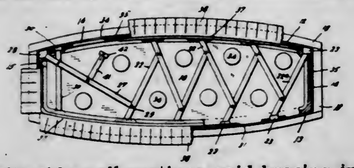


1. The combination with means forming a broiling chamber containing a source of broiling heat, of a door for said chamber, a grill mounting on said door for positioning a grill carried thereby in operative relation to said source when said door is closed, said mounting comprising a support carried by said door in movable relation thereto, which support is provided with means for movably mounting a grill thereon permitting a grill so mounted to be turned relative to said door to present either side of the grill to said source, said support having a position of movement in which it positions the grill relatively close to said door and having a position of movement far enough from said door to permit a grill mounted on said support to be so turned when said door is opened.

2,348,935
FORM
Charles D. Smith and Otho S. F. Smith, Anderson, Ind., assignors to Smaller War Plants Corporation, Chicago, Ill., a corporation of the United States
Application October 16, 1942, Serial No. 462,238
11 Claims. (Cl. 18—45)

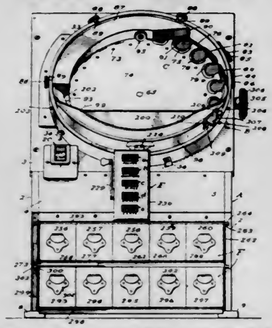
1. A core for use in the manufacture of hollow articles, said core being hollow and comprising

side-wall portions of corrugated paper and edge portions of papier-mâché, said core being provided interiorly with bracing extending between



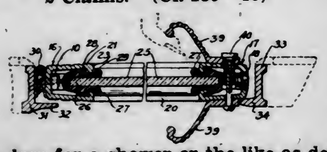
opposite side-wall portions, said bracing including a series of pivotally interconnected struts adjacent ones of which extend oppositely obliquely across the core.

2,348,936
COIN SORTING AND COUNTING MACHINE
William H. Sprenger, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application October 11, 1940, Serial No. 360,834
17 Claims. (Cl. 133—3)



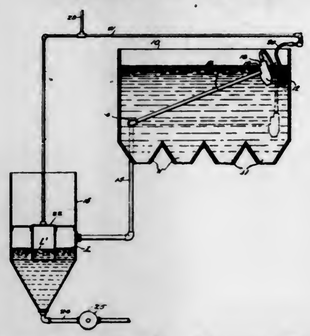
10. A coin sorting machine comprising a base member, means for sorting the coins into separate denominations, while the coins are in a position at an angle with respect to the base member, said sorting means being formed and adapted to permit coins to drop flat on the base member after being sorted, registering means in the path of movement of the coins while flat on the base member and operable by movement of the coins for registering the coins of each separate denomination, a rotatable member for conveying the coins as they are being sorted and registered, said rotatable member including a portion adapted to initially receive and convey the coins above the base member while parallel thereto and a portion to receive and convey the coins while in the angular position during sorting and while flat on the base plate and being registered.

2,348,937
SHOWER DOOR
Oscar C. Stahl, Los Angeles, Calif.
Application April 27, 1942, Serial No. 440,606
2 Claims. (Cl. 189—46)



1. A door for a shower or the like as described comprising a plurality of metallic angle members, a panel having corner portions adjacent and spaced from said angle members, a molding strip secured to said angle members having a channeled portion to receive said angle members and the edge portion of said panel, said channeled portion having a pair of flanges each provided with an inwardly presented groove, and a resilient channeled bead in the channeled portion of said molding strip adapted to receive the edge portion of said panel and having sealing grooves interfitting with said channel flanges.

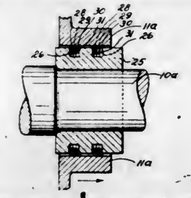
2,348,938
SKIMMING APPARATUS
Harold A. Stahl, Lansdowne, and Leo D. Jones, Philadelphia, Pa., assignors to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application January 30, 1941, Serial No. 376,596
8 Claims. (Cl. 210—51)



1. In an apparatus for skimming liquid from the surface of liquid in a container, a weir mounted for immersion beneath the surface of said liquid and for upward and downward movement in said container, a supplemental chamber mounted in position to receive liquid discharged over said weir, means for directing liquid discharged over said weir into said supplemental chamber, fluid actuated means connected with said weir to effect upward and downward movement of said weir in said container to change the vertical position of said weir relative to the surface of liquid in said container, a fluid conduit operatively connected to said weir actuating means, and means responsive to accumulation of liquid in said supplemental chamber for increasing the fluid pressure in said conduit and effecting the operation of said means for changing the position of said weir upwardly relative to said liquid surface upon accumulation of liquid beyond a predetermined amount in said supplemental chamber.

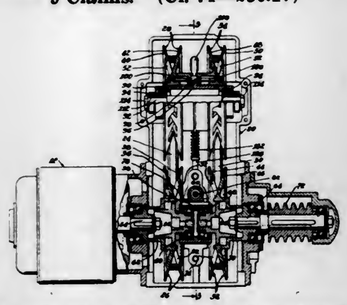
2,348,939
SHAFT SEAL
Ralph C. Thompson, Cleveland Heights, Ohio, assignor to Simplex Products Corporation, Cleveland, Ohio, a corporation of Ohio
Application September 28, 1942, Serial No. 459,908
5 Claims. (Cl. 286—7)

1. A seal for preventing leakage of fluid between a rotating shaft and a housing having an opening through which the shaft extends, the shaft being provided with an annular shoulder, said seal comprising a split ring surrounding said shaft and disposed adjacent said annular shoulder and dimensioned so that its peripheral surfaces are out of substantial frictional engagement with said housing and said shaft whereby said ring is readily rotatable with respect to both said housing and said shaft, one lateral face of said ring sealing against said shoulder, and another split ring dimensioned so that its outer pe-



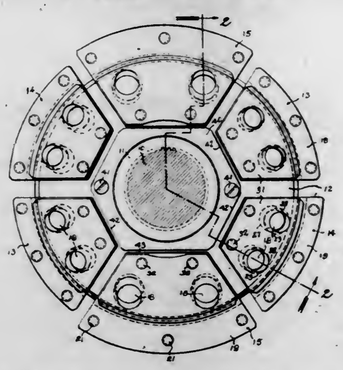
riphery is in sealing engagement with said housing and being substantially non-rotatable with respect thereto and slideable with respect thereto under the influence of fluid pressure, and having a lateral face in sealing engagement with the other lateral face of the first ring.

2,348,940
STEPLESS CHANGE SPEED TRANSMISSION
Walter Voegeli, Rio de Janeiro, Brazil
Application January 31, 1942, Serial No. 429,009
9 Claims. (Cl. 74—230.17)



1. A stepless change speed transmission comprising a rotatable incoming-power shaft, a rotatable outgoing-power shaft, four rotatable variable conical disc pulleys, each variable conical disc pulley including an auxiliary immovable and an axially movable cone, the first of said pulleys being associated with said incoming-power shaft, the axially movable and the axially immovable cones of the second and third of said pulleys being connected with each other so as to form an intermediate duplex variable conical disc pulley, a countershaft carrying said intermediate duplex pulley, the fourth of said pulleys being associated with said outgoing-power shaft, a supporting member carrying said countershaft, said supporting member being swingably arranged for a variation in the distance between the axis of the countershaft and the axes of the incoming-power shaft and outgoing-power shaft, a first wedge-shaped belt trained around said first and second pulleys, a second wedge-shaped belt trained around said third and fourth pulleys, controlling means associated with the axially movable cones of the first and fourth pulleys for a positive displacement of at least one of said movable cones for a change in the number of revolutions of the outgoing-power shaft, and connecting means associated with said supporting member and with said controlling means, said connecting means being arranged for holding said supporting member in an intermediate position with a predetermined distance between the axis of the countershaft and the axes of the incoming-power and outgoing-power shafts when the movable cones of the pulleys are in an intermediate position for a medium number of revolutions of the outgoing-power shaft, and said connecting means being arranged for a positive displacement of said swingable supporting member for a reduction of said distance simultaneously with a positive displacement of a movable cone of the first and fourth pulleys by said controlling means from its intermediate position.

2,348,941
VIBRATION DAMPING DEVICE
Marsden Ware, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 5, 1942, Serial No. 467,915
5 Claims. (Cl. 74—574)



1. A vibration damper for a shaft comprising a support member fixed to rotate with the shaft, a pendulum inertia mass, the member and the mass having similar openings therethrough, cylindrical pins mounted to extend across the openings in rolling contact with the member and the mass, said pins being smaller in diameter than the openings, and plates attached to the mass in relation to at least partially overlie the ends of the pins during the possible swing of the mass, one of said plates having openings that can be aligned with the openings in the member and the mass, through which the pins can be inserted into and removed from the openings in the member and the mass.

2,348,942
LEAF SPRING WITH FRICTION ELEMENT
John Warren Watson, Wayne, Pa., assignor to John Warren Watson Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application September 15, 1938, Serial No. 230,156. Divided and this application August 22, 1941, Serial No. 407,972
3 Claims. (Cl. 267—50)



1. In combination, two relatively movable spring leaves spaced by a paper matrix uniformly impregnated through its entire thickness with a friction-regulating, waterproofing and toughening compound; said impregnated matrix being

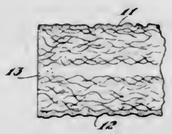
wear-resistant and sufficiently yieldable under the pressures imposed to conform closely to the surfaces of the spring leaves and exhibiting frictional properties whereof the static and dynamic coefficients of friction are substantially equalized.

2,348,943

PLANOGRAPHIC PRINTING PLATE

William B. Wescott, Dover, Mass., assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware

Application April 28, 1943, Serial No. 484,833
9 Claims. (Cl. 101—149.2)



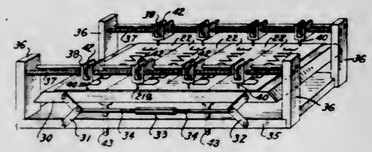
1. A parchmentized cellulose planographic printing plate, the printing surface thereof having planographic printing characteristics, and the plate being formed of two superposed sheets of parchmentized cellulose, a continuum of non-fibrous amyloid cellulose extending throughout both sheets, said continuum overlaying the fibers near each face of the plate and also constituting a fiber-free and dense stratum at the junction between the two sheets, said junction stratum integrally uniting the two constituent sheets and being free of extraneous bonding agents, the plate having a density such as corresponds in a plate of 60 pound ream weight and 0.004 inch thickness to an opacity of from 0.45 to 0.60, the sheet material which forms the printing surface being readily wet by and absorptive of water applied to the printing surface, so as to repel printing ink in the non-imaged areas under printing conditions, but the printing surface having a lateral water diffusion rate of not more than 25 millimeters in four hours.

2,348,944

METHOD OF MAKING REGISTERED DUPLICATE-IMAGE MULTIPLE COLOR PRINTING PLATES

Jesse Arnold White, Peoria, Ill., assignor to Muirson Label Co., Inc., San Jose, Calif., a corporation of California

Application December 17, 1942, Serial No. 469,298
8 Claims. (Cl. 101—401.2)



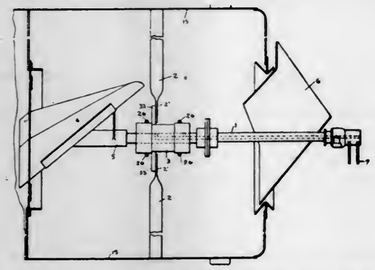
1. In preparing from a set of single original color plates a set of multiple image color printing plates where each of the latter plates contains a plurality of duplicate printing images for its particular color, a method to assure registry of each plural set of color images with each other plural set of color images, which includes the steps of marking on each original color plate a plurality of reference points positioned so they would lie on a straight line passed through the plates at right angles to their printing surface when nested with the respective complementary color printing portions in registry, making a plurality of mold plates from each of said original plates, placing on each mold plate the aforesaid reference points located in register with the original plates, placing in contiguous spaced relation and securing together each plurality of identical mold plates with the spacing and alignment of the reference points identical for each set of assembled mold plates, and making printing plates from each set of assembled mold plates.

2,348,945

PROTECTED INTERNAL BEARING FOR CONCRETE MIXERS

Joseph R. Williams, North Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a corporation of New Jersey

Application January 9, 1942, Serial No. 426,117
3 Claims. (Cl. 259—175)



1. In a device of the character indicated, a rotary drum, means for mixing, wet concrete aggregates therein, a shaft extending into said drum, bearings between said drum and shaft within the mixing zone of said drum, means fixed within the drum for supporting said bearings, a housing for said bearings and means between said housing and shaft and extending along the latter and from within to beyond the former for maintaining a seal against the wet aggregates and protecting the bearings against them, comprising a fabric of fibrous capillary material and a body of lubricant inside said housing in contact with said material.

2,348,946

METHOD OF PROTECTING TUBERS AGAINST DECAY

Margaret Wilson, Raleigh, N. C.

No Drawing. Application December 17, 1941, Serial No. 423,398
4 Claims. (Cl. 99—156)

1. The method of protecting potatoes against decay which comprises treating the surfaces of the potatoes with a chlorine-containing solvent to dissolve deleterious formations on the skin, then treating the surfaces of the skin with a dilute solution of ammonium hydroxide to soften the skins, then drying the potatoes to harden said skins.

2,348,947

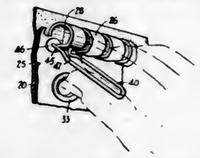
KEY HOLDER

Albert A. Zarowin, Brooklyn, N. Y., assignor to S. & Z. Hooks Co., Inc., Brooklyn, N. Y., a corporation of New York

Application January 21, 1942, Serial No. 427,559
2 Claims. (Cl. 70—456)

1. For a key holder, the combination of a supporting plate and a plurality of cylindrical

shaped heads spaced from each other integral with said plate, each of said heads having a seat



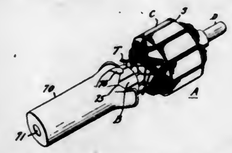
at its lower portion with an end spaced from the supporting plate forming a clearance opening.

2,348,948

ARMATURE FOR DYNAMOELECTRIC MACHINES

Ernest C. Allen, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application June 26, 1940, Serial No. 347,707, now Patent No. 2,306,855, dated December 29, 1942. Divided and this application September 7, 1942, Serial No. 457,604
3 Claims. (Cl. 242—13)



1. A machine for winding an armature having a slotted core and a commutator mounted on a shaft, said commutator having riser tang hooks located in an annular row around the shaft comprising, in combination, a head for receiving the core and covering certain slots and providing surfaces for guiding wire turns into certain spaced slots, a rotary arm for directing the wire against the wire guiding surfaces of the head so that the wire turns will be laid in the slots and will be laid against the ends of the core and on a side of the shaft, and means for supporting the shaft transversely of the axis of rotation of the rotary arm, said means including a commutator guard enclosing the commutator but provided, however, with a notch exposing that tang hook which is to be engaged by that wire portion which forms the end lead of a preceding coil and the start lead of a succeeding coil, said guard being so shaped as to permit the wire extending from the end of the preceding coil to the winding arm to be caught by the exposed tang hook as the arm turns to start the winding of the next succeeding coil, and said guard having a wire guiding surface to direct the end leads of each turn of the coil then being wound, away from the exposed tang hook.

2,348,949

INSECTICIDE AND METHOD OF MAKING SAME

Thomas C. Allen and Robert J. Dicke, Madison, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application October 14, 1942, Serial No. 461,996
7 Claims. (Cl. 167—24)

4. An insecticide comprising an extract of sabadilla seed and solvent which has been rendered toxic to a higher level than normal toxicity by the application of heat, and "Lethane."

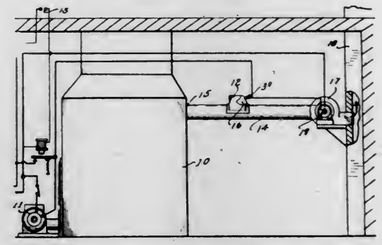
5. The herein described method of making an insecticide which consists in comminuting the seed of the sabadilla plant, and heating the comminuted seed in a solvent at a temperature sufficiently above normal temperature and for a sufficient period of time to increase the toxicity thereof to insects over the natural toxicity of the seed, and then adding sufficient "Lethane" to the solution to further enhance the toxicity thereof.

2,348,950

DRAFT CONTROL MEANS FOR FURNACES

Clayton G. Anderson, Portland, Oreg.

Original application September 30, 1941, Serial No. 412,979. Divided and this application July 4, 1942, Serial No. 449,730
6 Claims. (Cl. 236—45)



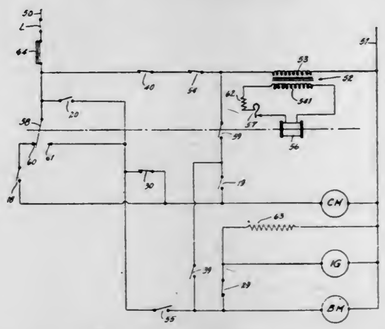
1. In draft control apparatus for a furnace, a flue, a suction fan arranged to induce sub-atmosphere pressure in the furnace and a part of the flue adjacent thereto, a variable speed electric motor connected to the fan, a draft sensitive member positioned in the sub-atmosphere area, a counterbalance therefor, said counterbalance arranged to yield proportionately to the amount of pressure drop in the flue, a speed changing rheostat connected to and movable with said draft sensitive member and operative electrical connections between the rheostat and the fan motor.

2,348,951

CONTROL MECHANISM

George D. Bower, University City, Mo., assignor to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware

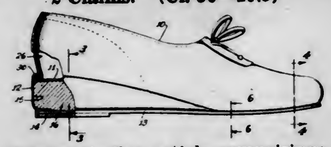
Application August 13, 1941, Serial No. 406,591
8 Claims. (Cl. 158—28)



1. In a mechanism of the kind described, a fuel supply means, a timing device for controlling the operation of the fuel supply means, an externa'

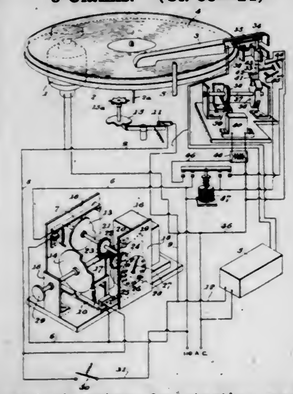
control adapted to respond to conditions influenced by the fuel supply means to initiate operation of the timing device, said timing device including means to maintain the fuel supply means in operation regardless of the condition of the external control, for a predetermined period of time, and means independent of the existence or lack of combustion to prevent unlimited operation of the fuel supply means upon failure of the timing device to move beyond the conditions of said predetermined period.

2,348,952
SHOE OR SIMILAR ARTICLE
Walter Braun, Los Angeles, Calif.
Application July 21, 1941, Serial No. 403,367
2 Claims. (Cl. 36—19.5)



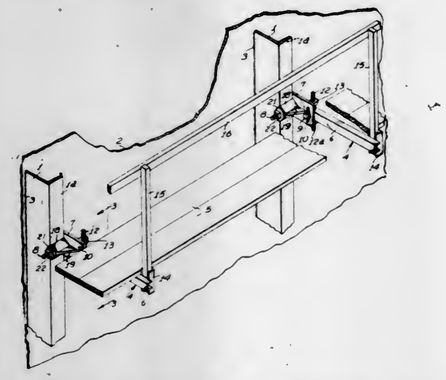
1. A shoe or similar article comprising: an insole, an upper with its lower edge portion from instep to instep around the quarter turned out and secured upon the insole with its edge flush with the corresponding underlying edge of the insole, said upper having an integral marginal strip from instep to instep around the toe enclosing the corresponding underlying edge of the insole and turned under the latter and secured to the lower surface thereof, a heel wedge cover strip having its upper edge portion lying flat upon the out-turned edge portion of the upper and secured thereto with its edge adjacent the edge of the upper and reversed over the edges of the united insole, upper and cover strip to form a pocket, a heel wedge in said pocket, the lower edge of said cover strip being turned under and secured to the lower surface of the heel wedge, and an outsole secured to the lower surfaces of the heel wedge, toe portion of the insole, and turned in edges of the cover strip and upper.

2,348,953
CONTROL SYSTEM FOR RECORD PLAYING OR LIKE DEVICES
Burton W. Briggs, Newton, Mass.
Application September 8, 1941, Serial No. 409,922
8 Claims. (Cl. 58—14)



1. A control system for starting and stopping the electric motor of a record playing device at predetermined intervals, said system comprising a synchronous electric motor, a first cam and a second cam driven by said motor so that said first cam rotates once to predetermined rotations of said second cam, an electric circuit to said device operating motor, a first normally open switch in said circuit closed by said first cam, said circuit including a pair of parallel switches each in series with said first switch, one of said pair of switches being normally open and closed by said second cam, and the other of said pair of switches being opened by said device after predetermined operation of said device playing motor, said first cam closing said first switch in advance of the time for operating said record playing device, and said second cam closing the circuit to said device operating motor momentarily at the end of a predetermined accurately timed interval to effect the closing of said circuit opening switch.

2,348,954
SCAFFOLDING BRACKET
Robert L. Brown and Dewey R. Brown, Portland, Oreg.
Application October 19, 1942, Serial No. 462,546
9 Claims. (Cl. 304—14)

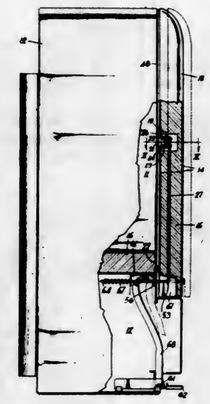


1. Scaffolding adapted to be detachably secured to a structure having vertically extending structural members, comprising a pair of laterally projecting arms adapted to be clamped to said structural members, each of said arms comprising an elongated member and a securing plate secured to one end thereof, means for holding a guard at the opposite end thereof, each of said securing plates having a vertically extending jaw adapted to be locked to a vertical structural member.

2,348,955
DOOR LATCH MECHANISM
Leslie B. M. Buchanan, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 8, 1942, Serial No. 425,954
3 Claims. (Cl. 292—255)

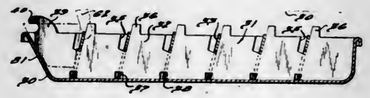
1. In a door and a jamb therefor, a latching and door-opening device for said door, said device comprising a latch bolt on said door, a keeper for said latch bolt, said keeper being secured to the door jamb, said latch being adapted for

movement to a keeper-engaging position and a keeper-releasing position, means for biasing said latch bolt to the keeper-engaging position, a push plate on said door adapted for limited movement in the general direction in which the portion of the door adjacent to the push plate moves during the initial opening movement of the door, an



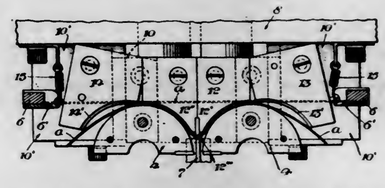
operative connection between the latch bolt and the push plate to move said latch bolt to the keeper-releasing position when the push plate is moved in said direction, and means for pushing said push plate in said direction to move said latch bolt to the keeper-releasing position and thereafter push said door from its closed position adjacent the door jamb.

2,348,956
ICE TRAY
Clifford R. Carney, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 18, 1939, Serial No. 309,742
5 Claims. (Cl. 62—108.5)



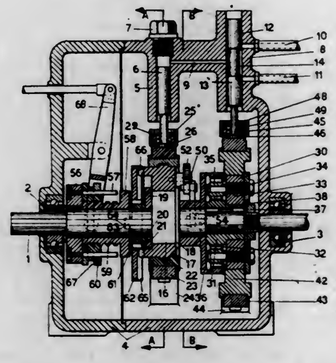
4. An ice tray grid comprising a longitudinally extending partition having a series of notches therein spaced along its length, a series of cross partitions extending across said first partition and loosely arranged in said notches in such manner that each cross partition may be moved relative to said first partition to facilitate the loosening of bonded ice from the grid, said first partition having an upstanding projection located closely adjacent the upper margin of each of said cross partitions, and a detached prying tool manually actuatable at separate operations thereof to selectively pry against and move an individual cross partition relative to said first partition, said prying tool having a portion adapted to partially embrace and fulcrum directly upon that projection closely adjacent the particular cross partition selected for movement at any one operation of said tool.

2,348,957
APPARATUS FOR AND METHOD OF MAKING CIRCULAR LOCKING BANDS FOR CAPS OR CLOSURES
Leslie R. N. Carvalho, New York, N. Y., assignor to Crown Cork & Seal Company, Inc., Brooklyn, N. Y., a corporation of New York
Application September 12, 1941, Serial No. 410,622
11 Claims. (Cl. 153—7)



1. A die for forming inertable threaded bands for caps or closures for containers and comprising a pair of members movable relatively toward each other, one carrying fixed die elements and the other carrying an elastically controlled shiftable member, a sectional die carried thereby comprising a center section fixed with respect thereto and having a pair of concave arc-shaped peripheries spaced at their inner ends to form a blank engaging portion thereby to provide a hinged connection in the blank, and a pair of shiftable wing sections pivoted to the shiftable member and also having concave arc-shaped peripheries forming continuations of the arc-shaped peripheries of the center section.

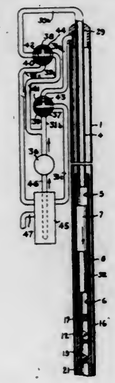
2,348,958
VARIABLE STROKE PUMP
Orlando Celio, Soleure, Switzerland, assignor to Scintilla Ltd., Soleure, Switzerland, a corporation of Switzerland
Application March 20, 1942, Serial No. 435,574
In Switzerland July 29, 1941
4 Claims. (Cl. 103—38)



1. A slide valve controlled reciprocating piston engine of variable piston stroke comprising in combination a cylinder; a piston reciprocable therein; a reciprocable slide valve serving to control admission and exhaust of fluid to and from said cylinder; a driving shaft; an inner eccentric fast on said shaft; an outer eccentric angularly adjustable relatively to said shaft by rotation on said inner eccentric; adjustable means connecting said outer eccentric in driving relation with the shaft in its various angu-

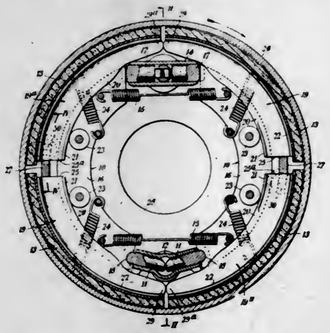
lar relations; a driving connection between said outer eccentric and said piston serving to reciprocate the piston upon rotation of the shaft; a valve-actuating eccentric angularly adjustable on said shaft; a driving connection between the valve actuating eccentric and the valve, for reciprocating the valve upon rotation of the shaft; and connecting means for coordinating the angular adjustments of said outer eccentric and of said valve-actuating eccentric comprising a planetary gear train interposed between the shaft, the outer eccentric and the valve actuating eccentric, and so arranged that the angular displacement of the outer eccentric relatively to the shaft will be twice the angular displacement of the valve actuating eccentric relatively to the shaft.

2,348,959
WELL PUMP
Walter L. Church, Houston, Tex.
Application July 5, 1941, Serial No. 401,101
2 Claims. (Cl. 103—46)



1. A pump including an outer tubing, an inner pipe within and spaced from said tubing, an operating cylinder, a displacement cylinder and a valve cage all incorporated into the inner pipe, said cylinders and cage being of substantially the same outside diameter, the operating cylinder having upper and lower inside stops and also having an inlet passageway leading into the lower end thereof from within the outer tubing, the displacement cylinder being of smaller cross-sectional area than the operating cylinder and being connected thereto and arranged therebeneath, the valve cage having an intake passageway and a passageway which discharges into the outer tubing, upper and lower valve seats in the cage, upper and lower upwardly opening valves on said seats for controlling the advance of well liquid upwardly through said intake passageway to the discharge passageway, said valve cage having a series of ducts leading from between the valves and entering the lower end of the displacement cylinder, an operating plunger fitted closely in the operating cylinder and whose range of movement is limited by said stops, a displacement plunger fitted closely in the displacement cylinder, said plungers being connected to operate as a unit, the operating plunger being exposed to the pressure of an operating fluid in the inner pipe to be operated solely by said pressure in one direction whereby the displacement plunger may be correspondingly operated to discharge liquid from the displacement cylinder through said ducts and discharge passageway, into the outer tubing, the lower end of the operating cylinder being exposed, through the inlet passageway into the operating cylinder, to the pressure of the column of liquid in the outer tubing whereby the operating cylinder will be reciprocated in the other direction solely by the column of fluid in the outer tubing.

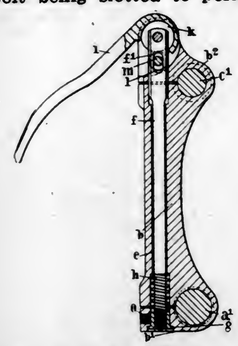
2,348,960
INTERNALLY EXPANDING BRAKE
Frederick Raymond Cowell, Leeds, England, assignor to Kirkstall Forge Limited, Leeds, England
Application August 20, 1942, Serial No. 455,488
In Great Britain September 4, 1941
5 Claims. (Cl. 188—78)



1. An internally expanding brake, comprising a brake drum, a pair of brake-shoe-carriers mounted within the drum, means for retaining the carriers in an inoperative position, an expander for moving the carriers outwardly to apply the brake, a pair of brake shoes mounted on each carrier, a pair of rollers on each carrier supporting the adjacent ends of the two shoes and permitting of circumferential movement of the shoes in relation to the carrier, a floating link on each carrier carrying the rollers at its ends and pivoted centrally to the carrier, all of the brake shoes being arranged to present one end to the brake drum before the other on outward movement of the carriers and stop means operating, on circumferential movement of the shoes when contacted by the revolving brake drum, to arrest the trailing shoe on each carrier while maintaining its front end in braking contact with the drum, and thereby causing all of the shoes to tilt, on the subsequent abutment of the front end of the leading shoe on each carrier with the rear end of the trailing shoe on the other carrier, to bring their said abutting ends into closer engagement with the brake drum.

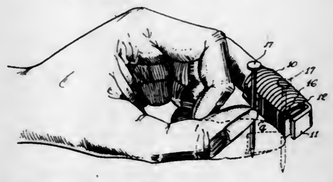
2,348,961
CLAMPING MEANS
Frank Moore Cowper, Sutton, England, assignor to The Amalgamated Dental Company, Limited, London, England
Application April 6, 1943, Serial No. 482,043
In Great Britain March 28, 1942
4 Claims. (Cl. 155—177)

1. A clamping device comprising a support, resilient clamping jaws at the opposite ends of said support, a locking bolt movable longitudinally in said support and connected at one end with one of said jaws, a hand lever pivoted to the other end of the bolt and a cam surface on said lever coacting with the other jaw, the locking bolt being slotted to permit its move-



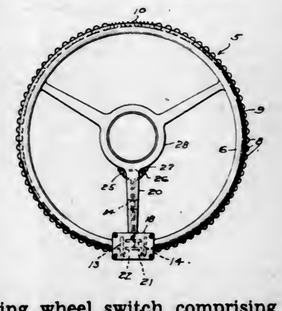
ment relative to a fixed pivot carrying a roller cooperating with the cam for effecting clamping movement of the bolt.

2,348,962
NAIL AND TACK HOLDER AND FINGER GUARD
Ira D. Davis, Avery, Tex.
Application April 18, 1942, Serial No. 439,581
5 Claims. (Cl. 1—47)



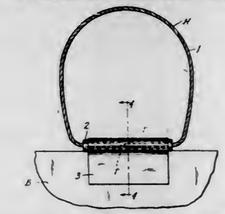
1. A combination finger protection and nail holder comprising a thimble receivable on and enclosing the end of a finger of the hand and having a flattened surface along one side parallel with its longitudinal axis, and means mounted on the end of said thimble and in alinement with said flattened surface for receiving and holding a nail for orientation relative to the work preparatory to driving.

2,348,963
AUTOMOBILE SAFETY SYSTEM
Frederick P. De Wilde, El Cajon, Calif., assignor to Verona M. De Wilde, El Cajon, Calif.
Application August 18, 1941, Serial No. 407,383
1 Claim. (Cl. 200—59)



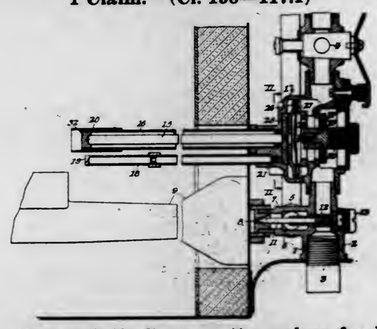
A steering wheel switch comprising a steering wheel having a hub, a spoke projecting from the hub and a rim connected to the outer end of the spoke and surrounding said hub, an expansible and contractible tensioned ring surrounding and mounted on said rim, said ring including a pair of spaced relatively movable contactors, contact means disposed between and normally spaced from both contactors, opposite sides of said ring being arranged to be manually drawn toward said contact means against the tension of the ring to engage said contactors with said contact means.

2,348,964
SHOPPING BAG
Mark Dodson, St. Louis, Mo., assignor to Edward Sebastian, University City, Mo.
Application July 25, 1942, Serial No. 452,278
4 Claims. (Cl. 229—54)



1. A shopping bag handle comprising a flap folded over to form opposing side members, a suitable adhesive on the inner surface of said flap to enable the flap to adhere to the shopping bag wall, a bail of fibrous material secured in the fold of the flap, and a reinforcing element between the flap and the bail.

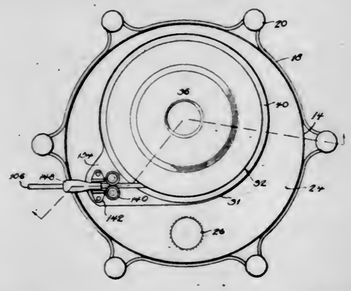
2,348,965
THERMOSTATICALLY OPERATIVE VALVE
Robert J. Dougherty, Ambler, Pa., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware
Application December 10, 1940, Serial No. 369,455
1 Claim. (Cl. 158—117.1)



In thermostatically operative valves for heating means including a main gas burner; the combination of a valve controlling the supply of gas to said main burner; a spring tending to move said valve to closed position; a pilot burner, having a flame orifice, for said main burner; a thermostatic couple composed entirely of the same material in operating relation to said valve and said pilot burner; one member of said couple being a rod and the other member of said couple being a tube completely enclosing said rod; a sleeve mounted at one end of said tubular member and interposed between said tubular member and the flame orifice of said pilot

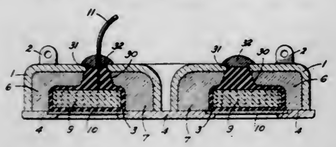
burner; said sleeve being fastened at one end to said tube and opened at its opposite end; and a snap spring between said rod of said thermostatic couple and said valve, and in operating relation to both said valve and said rod of said thermostatic couple; whereby movement of said rod in a direction away from said valve caused by expansion of the tube of said thermostatic couple when said pilot burner is lighted will permit said snap action spring to snap to convex position to move said valve to open position; and movement of said rod in a direction toward said valve caused by contraction of the tube of said thermostatic couple when said pilot burner is extinguished will cause said snap spring to snap to concave position away from said valve and permit said valve to be moved to closed position by its spring.

2,348,966
ELECTRIC APPLIANCE
Dewey M. Dow and Frederick H. Burmeister, Toledo, Ohio, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application February 12, 1942, Serial No. 430,678
4 Claims. (Cl. 230—117)



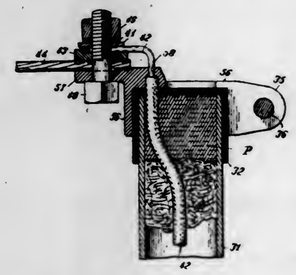
1. In a vacuum cleaner of the upright caddy type having in its lower portion a suction-blower unit chamber, a bottom wall for said chamber, means cooperating with an eccentric area of said bottom wall to form a reel casing and leaving a substantially crescent shaped area of said bottom wall lying beyond the periphery of said casing, a blower outlet formed in said bottom wall in a wider region of said substantially crescent shaped area, and a cord reel mounted in said casing.

2,348,967
PERMANENT LIFTING MAGNET
Clarence J. Duby, Youngstown, Ohio
Application December 8, 1941, Serial No. 422,087
6 Claims. (Cl. 175—367)



1. A lifting magnet construction for lifting loads of different weight and size comprising a body having poles of opposite polarity extending therefrom, said body being comprised of a material having high magnetic flux retentivity, a winding cooperating with the poles of said body and circuit means for directing a current through said winding and selectively arranged to direct the current to oppose the magnetic flux in the body and assist the magnetic flux in the body, the normal magnetic flux of said body being sufficient to retain a load upon cessation of current through said windings.

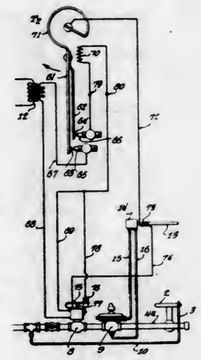
2,348,968
CONDUCTOR AND TRACK WIRE CONNECTION HOLDING MEANS
Otto S. Flath, Chicago, Ill.
Application October 17, 1941, Serial No. 415,388
2 Claims. (Cl. 174—75)



1. In wire holding means of the character described, the combination of a conductor cable receiving cylindrical upstanding conduit; a contractible sleeve provided at its top with an inturned flange extending circumferentially thereabout adapted to engage the upper end of the conduit without restricting the conduit orifice, said sleeve being split at one side from top to bottom and provided with a pair of parallelly arranged bolt receiving ears, the upper end of the sleeve diametrically opposite the split being enlarged and provided with an outwardly disposed lug, said enlarged portion extending partly inward at one side of the conduit and provided with an aperture adapted to receive the insulated end of a conductor cable, while the outer end of said lateral lug has a bolt-receiving opening and track wire receiving recesses on opposite sides of the bolt-opening; a bolt disposed through said opening; a current conducting centrally apertured plate through which said bolt extends, the plate having wire receiving recesses matching the recesses on said lateral lug for receiving the ends of a pair of track wires while the unsheathed end of the cable wire is disposed about said bolt; and means cooperating with said bolt whereby said plate, cable wire and track wires are clamped to said lug.

2,348,969
MODULATING CONTROL SYSTEM
Frank A. Gauger, Milwaukee, and Edwin A. Jones, Shorewood, Wis.; said Gauger, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 5, 1939, Serial No. 288,528
5 Claims. (Cl. 236—68)

2. In a mechanism of the kind described, a fuel flow control means operable to a maximum flow limit and to a minimum flow limit, a space thermostat operable to a cold position and a warm position, an anticipating heater for the thermostat energized only when the thermostat is in cold position, modulating means to effect operation of the fuel flow control means toward the maximum and minimum limits in accordance with the position of the space thermostat, said modulating means including the room thermostat



in cold position and the anticipating heater for causing the fuel flow control means to operate toward its maximum limit.

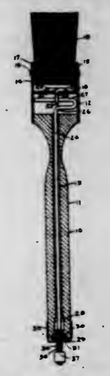
2,348,970
PROCESS FOR THE SEPARATION OF ACIDS CONTAINED IN TALL OIL
Frederick H. Gayer and Charles E. Fawkes, Chicago, Ill., assignors to Continental Research Corporation, Chicago Heights, Ill., a corporation of Illinois
No Drawing. Application April 7, 1942. Serial No. 438,005
10 Claims. (Cl. 260—97.5)

1. A process for the separation and recovery of the tall oil resin acids and fatty acids which comprises converting the fatty acids into their alkyl esters, removing excess alcohol remaining from said esterification, substantially completely neutralizing the resin acids with an aqueous alkali in dilution to provide a resin acid concentration greater than about 30% of the resin soap solution present in the mixture, and extracting the fatty acid esters from the resulting mixture with a hydrocarbon solvent.

2,348,971
PROCESS FOR THE SEPARATION OF THE CONSTITUENTS OF TALL OIL
Frederick H. Gayer and Charles E. Fawkes, Chicago, Ill., assignors to Continental Research Corporation, Chicago Heights, Ill., a corporation of Illinois
No Drawing. Application April 7, 1942, Serial No. 438,006
15 Claims. (Cl. 260—97.5)

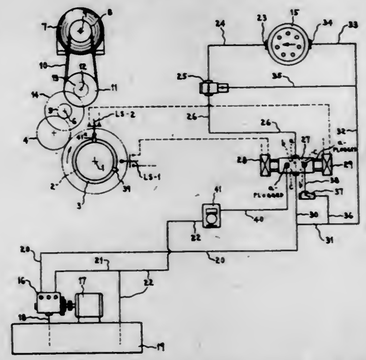
1. A process for the separation and recovery of tall oil resin acids and fatty acids which comprises converting the fatty acids into their alkyl esters, removing excess alcohol remaining from said esterification, substantially completely neutralizing the resin acids with an aqueous alkali in dilution to provide a resin acid concentration of from about 30 to about 5 percent, adding thereto a neutral salt in an amount sufficient to provide a salt concentration of from about 0.1 to about 0.4 normal and to cause incipient layer separation on addition to and saturation of the soap solution with a solvent, and extracting the fatty acid esters from the resin acid soaps of the resulting mixture with a hydrocarbon solvent.

2,348,972
ARTICULATED PAINTBRUSH
Walter K. Gray, Wilmington, Calif.
Application April 1, 1943, Serial No. 481,410
7 Claims. (Cl. 15—172)



1. An articulated paint brush comprising an elongated handle having a bore therethrough, a ferrule mounted on said handle, a brush receptacle including side walls and a bottom, means to pivotally mount the brush receptacle on the ferrule, a brush retaining collar removably seated in the brush receptacle, bristle members in said collar, said receptacle having a hole in the bottom thereof and aligned with said handle bore, an eye member having a shank passing through said hole and having a head thereon secured upon the inner face of the said receptacle bottom, an operating member slidable within said bore, said operating member having an end portion thereon engaging said eye member, and means to hold said operating member in adjusted position.

2,348,973
SPINDLE CONTROL MECHANISM
William F. Groene and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application April 3, 1941, Serial No. 386,688
8 Claims. (Cl. 82—28)



1. In a machine tool, a work spindle, a spindle driving motor for rotating said work spindle, a hydraulic braking motor connected to rotate with said spindle and driving motor, a source of fluid pressure, inlet and exhaust ports for said hy-

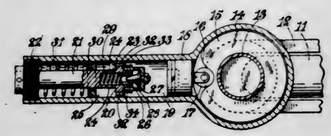
draulic braking motor, means interconnecting said ports to permit fluid discharged from said exhaust port to enter said inlet port when said hydraulic motor is being driven by rotation of said spindle and driving motor, and means for applying said source of fluid pressure to said ports during the flow of fluid from the exhaust port to said intake port, a control valve in said interconnecting means for said ports having associated means operable to prevent flow of fluid between said ports to arrest rotation of said hydraulic braking motor, and means in said valve for connecting said source of fluid pressure to a flow restricting valve when said control valve is operated to arrest said flow of fluid between said ports, and means returning discharge from said flow restricting valve to said source of fluid pressure.

2,348,974

APPARATUS FOR DAMPING MOVEMENTS OF VEHICLE AND OTHER WHEELS

Ruben Hadekel and André Albert Perriches, Warrington, England, assignors to Associated Messier Investments Limited, Farnham Common, England, a British company

Application May 9, 1942, Serial No. 442,344
In Great Britain March 3, 1941
10 Claims. (Cl. 267—1)



1. A hydraulic resilient control and vibration damper comprising in combination a damping cylinder, a piston therein, an accumulator chamber external to the damping cylinder and piston, a port opening from the space enclosed by the damping cylinder and piston into the accumulator chamber, a spring-closed sliding damping valve for said port opening under pressure in the cylinder, the valve and its seating being tapered axially relatively to one another so that the port area increases progressively with increasing valve opening at a rate determined by the taper, a passage for liquid from the accumulator chamber into the damping cylinder controlled by a non-return valve such as to prevent flow from the cylinder to the accumulator chamber and resilient means for maintaining the liquid in the accumulator chamber under pressure.

2,348,975

CABLE CLAMP

Ernest F. Hohwart, Detroit, Mich.

Application October 2, 1941, Serial No. 413,310
10 Claims. (Cl. 24—124)



8. As a new article, a pair of members threaded together and enclosing twisted-together lengths of flexible members, the flights of the twist of said flexible members having the same direction of inclination as the threads of said pair of members, whereby untwisting of said flexible members tends to screw together said pair of members.

2,348,976

INSECTICIDE

Julius Hyman, Chicago, Ill., assignor to Velsicol Corporation, Chicago, Ill., a corporation of Illinois

No Drawing. Application January 29, 1943, Serial No. 473,961
11 Claims. (Cl. 167—30)

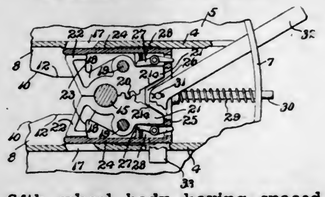
1. An insecticidal composition containing as an active ingredient 2,6-dimethyl-1,4-naphthoquinone dissolved in a solvent.

2,348,977

FIFTH WHEEL

Henry Ketel, Holland, Mich.

Application February 22, 1943, Serial No. 476,755
8 Claims. (Cl. 280—33.1)



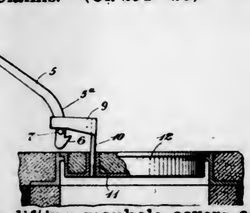
1. A fifth wheel body having spaced apart guiding ribs, each with an opening therethrough, jaws pivotally mounted on said body one adjacent each rib, each jaw having a lateral extension adapted to pass through an adjacent rib opening, a locking yoke having sides in one position obstructing said openings and preventing unclosing movement of the jaws, spring means normally moving said locking yoke into locking position, means for manually retracting the yoke to uncover said openings, means coacting between said yoke and said jaws when the yoke is retracted to a predetermined position to hold the yoke in retracted position with said openings uncovered, said holding means being automatically disengaged from the jaws when they are pivotally opened and said lateral projections passed through said openings thereby releasing the yoke, said sides of the yoke engaging against edges of said lateral extensions to the jaws and the yoke prevented from returning to position to close said openings, said jaws upon being turned to closed position disengaging from said yoke to permit it to return to position to close said openings under the influence of the spring means acting on the yoke.

2,348,978

LIFTING TOOL FOR MANHOLE COVERS

Giles W. Kinner, Mount Rainier, Md.

Application July 30, 1943, Serial No. 496,826
7 Claims. (Cl. 294—26)



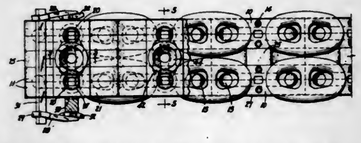
6. A tool for lifting manhole covers comprising a lever having a curved shank portion terminating in a hook, a stop member fixed in the bar above the hook, a bracket slidably mounted on said lever above said stop member, and a pin projecting downwardly from the outer end of said bracket.

2,348,979

MOLD FOR CASTING CHAIN

Elmer C. Kloss, Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application July 22, 1942, Serial No. 451,882
4 Claims. (Cl. 22—130)



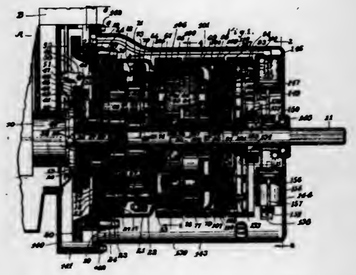
1. In combination with a mold stack for casting chain, said mold stack being formed of a plurality of rows of sets of sectional molds, spacer cores maintaining said rows a predetermined distance apart, means for clamping the sections of each set together comprising rigid plates engaging the sets of molds on each side of said mold stack and extending longitudinally thereof, each of said plates extending over substantially an entire side of its respective set, clamping means comprising members positioned above said mold stack and separable arms extending downwardly from the ends of each of said members into engagement with opposite pairs of plates, and means insertable between one of said arms and one of said plates adapted to force the plates of each pair towards each other to hold the sections of each set in laterally assembled relation.

2,348,980

TRANSMISSION

Albert L. Johnson, White Bear Lake, Minn., assignor to Johnson Power-On Transmission Corporation, St. Paul, Minn., a corporation of Minnesota

Application March 24, 1941, Serial No. 384,792
32 Claims. (Cl. 74—276)



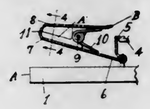
1. In a transmission, a drive shaft, a driven shaft coaxial therewith, a pair of epicyclic gear systems connecting said shafts comprising three relatively rotatable sun gears coaxial with, and rotatable with respect to, said shafts, a pair of rotatable planet gear carriers, means connecting said carriers to rotate in unison, planet gear means on one of said carriers engaging one of said sun gears, second planet gears on the other of said carriers engaging a second of said sun gears, ring gears of relatively different diameters connected together and engaging said first and second planet gear means, pinion means rotatable with said first named planet gears engaging the third of said sun gears, means connecting said second planet gears to said driven shaft to rotate said driven shaft, and means for holding said one sun gear stationary.

2,348,981

BAIT RETAINER FOR ANIMAL TRAPS

Leigh E. Johnson, Wichita, Kans.

Application March 12, 1943, Serial No. 478,930
2 Claims. (Cl. 43—81)



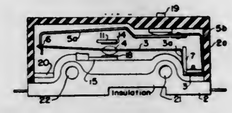
1. In a combined bait clamp and trigger for animal traps, a pair of jaws pivotally connected at their longitudinal center and a spring to rock the jaws to engagement at one of their corresponding ends, one of said jaws being rockably connected to a base plate of an animal trap, and means adjacent the rockable point of the said one jaw to retain the trap in a set position and to release the same by a rocking movement of the said one jaw, and the said one jaw having flanges turned at right angle from the same side of the jaw to form a receptacle for bait therein.

2,348,982

SNAP SWITCH

Francis W. Joyce, Chicago, Ill., assignor to Gleason Sales Co., Chicago, Ill., a corporation of Illinois

Application February 6, 1943, Serial No. 474,952
2 Claims. (Cl. 200—67)



1. In a snap switch, a thin leaf spring secured at one end by a mounting member and having an extending arm with a contact point intermediate its ends, a rigid metal arm extending parallel to said spring arm, a flexible spring secured at one end to the metal arm and secured at the other end to said mounting member at the same point as the spring arm, said flexible spring extending vertically from said point to provide endwise movement for said arm, a hook on the free end of said metal arm, the free end of said leaf spring forced into engagement with said hook, said flexible spring causing endwise tension in said arm and consequent longitudinal compression of said leaf spring and consequent bowing thereof, a movable plunger engaging said metal arm adjacent the end secured to said flexible spring, and electrical contacts above and below the contact point on said leaf spring and engaged alternately by said point as the metal arm is moved up and down.

2,348,983

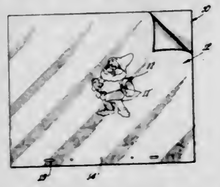
METHOD OF SIMPLIFYING ANIMATION

William B. Justice, Los Angeles, Calif., assignor to Walt Disney Productions, Burbank, Calif., a corporation of California

Application May 26, 1942, Serial No. 444,543
5 Claims. (Cl. 41—21)

2. A method of preparing colored transparencies for use in animated cartoons which comprises: making a line drawing of a pictorial representation upon a virtually opaque sheet of paper with a carbon medium capable of attaching itself to a sheet of transparent material,

pressing the reverse side of a sheet of transparent material against the line drawing to form a visible impression of said drawing on the reverse side of the transparent sheet, applying a protective film of substantially transparent fixing agent compatible with paints over said impression, and then applying opaque colored paints to desired areas of the reverse surface of said transparent sheet in accordance with the visible impression thereon whereby edges of areas bearing said paints are softened and shaded by the impression when the transparent sheet is viewed from the front thereof.



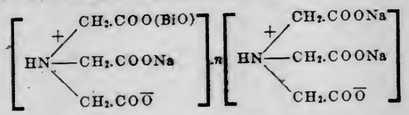
2,348,984

SODIUM BISMUTH TRIGLYCOLLAMATE

Robert A. Lehman, New York, N. Y., and Reavis C. Sproull, Pittsfield, Mass.

Application June 25, 1942, Serial No. 448,514
3 Claims. (Cl. 260—447)

1. The compounds of the formula



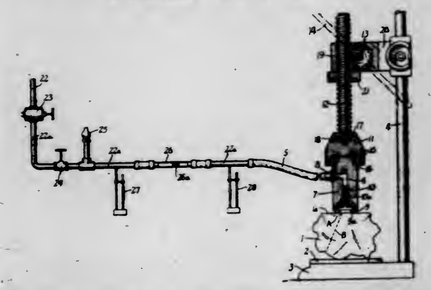
wherein n represents one of the group consisting of 0, 1, 2, 3, 4 and 5, and their crystalline hydrates.

2,348,985

METHOD FOR DETERMINING PERMEABILITY

James A. Lewis, Dallas, Tex., assignor to Core Laboratories, Inc., Dallas, Tex., a corporation of Delaware

Application April 19, 1940, Serial No. 330,496
4 Claims. (Cl. 73—51)



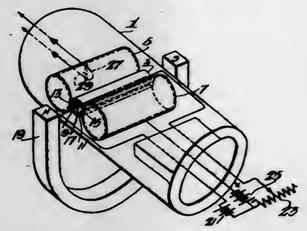
1. The method of measuring the permeability of a permeable porous material comprising the steps of supplying fluid under pressure to a predetermined restricted area of an approximately plane unrestricted surface of a sample of said material, said sample being sufficiently large with respect to said predetermined area that substantially all of the fluid entering said surface leaves said sample through the same surface at which it enters said sample but outside said restricted area whereby accurate preshaping of said sample and mounting of said sample in a fluid-tight mounting is rendered unnecessary, measuring the flow of fluid to said sample, measuring the fluid pressure of the fluid entering said surface of said sample, and correlating said two measurements to obtain the value of the permeability of said sample.

2,348,986

RESONANT CAVITY MAGNETRON

Ernest G. Linder, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application October 24, 1940, Serial No. 362,487
3 Claims. (Cl. 250—27.5)



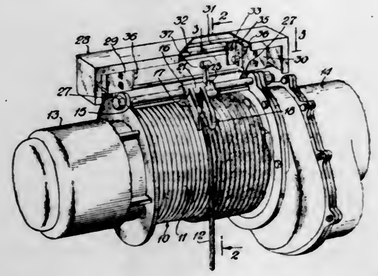
1. An ultra high frequency device including a cathode, a substantially cylindrical anode surrounding said cathode and including longitudinal slits, a pair of members including in each a cylindraceous cavity resonator closed at its ends, said cavity resonator being effectively entirely closed to standing waves which are to be established therein, each of said members including a longitudinal slit opening into said cavity resonators respectively, and each of said members secured to said anode with one of said anode slits and one of the slits in said members substantially coinciding and said cavity resonator members mounted eccentrically with respect to said anode, and means adjacent said anode for creating a magnetic field having its lines of force substantially parallel to and surrounding the axis of said cylindrical anode.

2,348,987

HOIST

Frank Lock, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut

Application January 24, 1940, Serial No. 315,355
6 Claims. (Cl. 254—173)



1. In a hoist of the class described, a rotating drum having a spiral grooved surface, a hoisting rope adapted for spiral winding in the groove

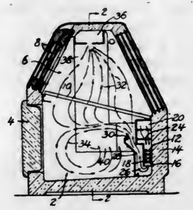
of said surface, a rope guiding member having a portion fitting into the groove of said drum, a shaft parallel to the axis of said drum and about which said member is mounted for sliding movement, which sliding movement is imparted to said member through said portion by rotation of said drum, means whereby said member guides the rope into said drum as the drum rotates, an electric switch positioned at each end of said drum, means forming part of said rope guiding member for actuating one switch when said rope guiding member moves to one end of said drum, and for actuating the other switch when said rope guiding member moves to the other end of said drum, and an eccentric sleeve imposed between said rope guiding member and said shaft, rotation of said sleeve relatively to said rope guiding member acting through said eccentric to adjust the position of said member and its groove engaging portion relatively to said shaft.

2,348,988

REFRIGERATED CASE

Floyd C. Lowell, Trenton, N. J., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey

Application February 5, 1942, Serial No 429,589
6 Claims. (Cl. 62—89.5)



1. A refrigerated display case having a lower storage chamber, an upper display chamber, article supporting means extending in a generally horizontal direction between the storage and display chambers and provided with openings for the circulation of air upward from the storage chamber to the display chamber, a downwardly opening housing in the storage chamber forming a refrigerating chamber, downwardly through the refrigerating chamber a refrigerating coil located in said refrigerating chamber, a blower for directing air over said coil and downwardly through the refrigerating chamber, a baffle positioned adjacent said housing and having the upper edge thereof located below said article supporting means so as to form a rearwardly directed outlet through which air cooled by said coil may be passed through the case adjacent said article supporting means, and an air return duct communicating with the upper portion of the display chamber for conducting air from the display chamber to said blower.

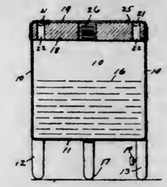
2,348,989

APPARATUS FOR ATTACHING ENVELOPES AND THE LIKE TO PACKAGES

Bert B. Lowry, Medford, Oreg.

Application April 13, 1942, Serial No. 438,698
2 Claims. (Cl. 15—134)

1. A device of the class described consisting of a closed reservoir having a wooden end, a hollow square of absorbent material secured against said wooden end, a plugged filler opening within said hollow square, said wooden end having a plurality of openings therein communicating between said absorbent material and the interior of the reservoir, a D-shaped handle on the opposite end of said reservoir, together with leg members also projecting from the handled end of said reservoir cooperating with said D-shaped handle to permit said reservoir to stand in an inverted position, one of said legs having an air inlet opening extending therethrough, a needle valve for controlling the flow of air through said opening for the purpose of controlling the dispensing of adhesive.

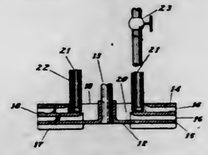


2,348,990

AERATING APPARATUS

Harry L. McNeill, Denver, Colo., assignor to The Stearns-Roger Manufacturing Company, Denver, Colo., a corporation of Colorado

Application July 1, 1940, Serial No. 343,458
3 Claims. (Cl. 261—93)



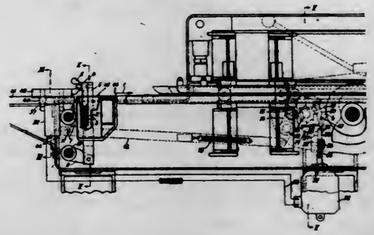
1. Aerating apparatus comprising a gas-delivery conduit having a discharge outlet adapted to be positioned in a body of matter under treatment, and a rotary member cooperative with said discharge outlet having a gas-deflecting surface positioned adjacent thereto for directing gas passing from the outlet laterally of the conduit, and a resilient extension on the conduit disposed in such close proximity to the member that gas passing therefrom is subjected to a shearing action.

2,348,991

GLUE APPLYING DEVICE IN GLUING MACHINES

Gottfried Maurer, Zurich, Switzerland, assignor to A. Müller & Cie, Maschinenfabrik und Eisengiesserei, Aktiengesellschaft, Brugg, Switzerland, a joint-stock company of Switzerland

Application December 13, 1940, Serial No. 370,058
In Switzerland April 18, 1940
6 Claims. (Cl. 91—47)



1. In a gluing machine, a service table, a glue applying device comprising a glue applying mem-

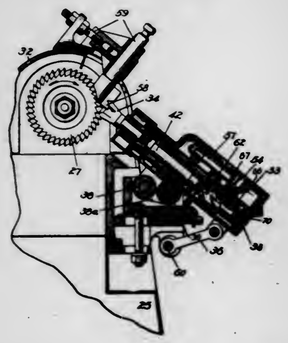
ber mounted to reciprocate above and below said service table, an interruptedly driven means in connection with said glue applying member to drive the latter, a control means alternately to release and to stop said interruptedly driven means, a movable, striking member projecting above said service table, said glue applying member and said striking member being relatively arranged whereby the striking member is operated by movement of the workpiece in one direction and glue is applied to the workpiece by movement against the glue applying member in another direction, and a controller system in relation with said control means and said movable striking member, to be controlled by said movable striking member to operate said control means.

2,348,992

HOT MILLER FOR DETACHABLE ROCK DRILL BITS

William J. Moerlin, Denver, Colo., assignor to The Mine and Smelter Supply Company, Denver, Colo., a corporation of Colorado

Application October 29, 1940, Serial No. 363,271
9 Claims. (Cl. 90—21)



8. In a machine for milling rock drill bits or the like, inclusive of a base structure and a rotary sharpening cutter journalled thereon, the improvement which comprises a toggle mounted mechanism on the base structure for presenting a bit to said sharpening cutter and comprising a rotatable and axially movable bit holder, means for angularly moving said mechanism on its toggle mounting, means for axially reciprocating said bit holder, and complementary clutch members on said bit holder and on said mechanism for rotating said bit holder to a different sharpening position upon each reciprocating movement thereof.

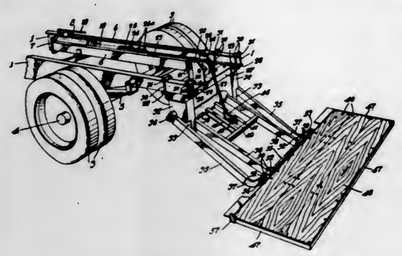
2,348,993

ELEVATING GATE

Frank A. Novotney, Streator, Ill.

Application May 7, 1943, Serial No. 485,993
16 Claims. (Cl. 214—77)

1. A tail gate assembly for automotive vehicles comprising a tail gate, a transversely extended base member, means on said member for securing it to the frame members of a truck, arm supports carried by, secured to and downwardly projecting from said base member, an outer pair of arms pivoted to said arm supports at points laterally outside of the margins of the vehicle frames, an inner pair of arms pivoted to said arm supports at points inside of the margins of said vehicle frames, the pivot points of the inner pair of arms being below and to the rear of the pivot points of the outer pair of arms, the outer pair of arms be-



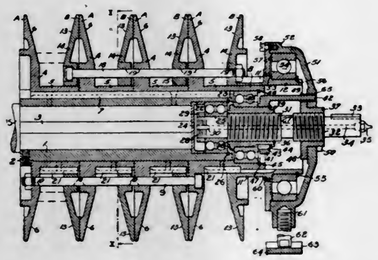
ing pivoted to the gate, and the inner pair of arms being pivoted to the gate, the pivot point of the outer pair of arms on said gate being above and forward of the pivot point of the inner pair of arms on said gate.

2,348,994

SHEAVE

Eugene J. Otto, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application February 15, 1943, Serial No. 475,901
6 Claims. (Cl. 74—230.17)



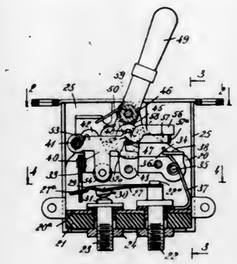
1. In a variable pitch diameter sheave construction having a main sleeve and at least two movable sheave disks mounted on concentric sheave disk sleeves thereon, a pitch diameter controlling mechanism comprising an axially extending plug member, a first bearing means rotatably connecting said main sleeve and plug and fixing said plug against axial displacement relative to said main sleeve, said plug having axially spaced oppositely threaded sections, oppositely threaded axially inner and outer members coacting with said oppositely threaded sections, means operatively connecting said threaded members to prevent relative rotation thereof, second bearing means connecting said axially inner threaded member with the radially inner of said sheave disk sleeves, said axially outer threaded member having a mushroom-shaped flange extending radially past the ends of said sheave disk sleeves and overhanging the axially outer ends of said radially outer sheave disk sleeve, third bearing means connecting said axially outer threaded member and said radially outer sheave disk sleeve in rotatable axially fixed relation, and means controlling the relative angular relationship of said plug and said threaded members.

2,348,995

CONTROL DEVICE

Malcolm K. Parkhurst, New York, and Lyndon W. Burch, Pelham, N. Y., assignors to The Wilcolator Company, Elizabeth, N. J., a corporation of Delaware

Application November 29, 1941, Serial No. 420,994
24 Claims. (Cl. 200—116)



24. A circuit breaker comprising a normally closed switch, a bimetallic actuator for operating the switch, means for connecting the actuator and the switch in series in the circuit whereby excessive current heats the actuator and causes it to flex and open the switch, a lever engageable at its free end portion with the actuator, a pivot on which the lever is movable to cause the actuator to open the switch and hold it open, a toggle connected to the lever for moving it to an inoperative position to permit closing of the switch by the actuator, the toggle including a toggle arm connected rigidly to the lever, an operating shaft, a toggle arm on the shaft, and a pin on one of the arms disposed in a slot in the other arm, biasing means acting to break the toggle and move the lever to lock the switch in its open position, a latch pivoted on the free end portion of the lever and having a notch engageable with the pin to hold the toggle in a set portion in which the lever is inoperative, the actuator being movable relative to the lever to fulcrum the latch on its pivot and thereby disengage the notch from the pin, means for urging the latch toward the pin, a latch releasing member connected to the toggle shaft and pivoted at a point remote from the shaft, and a handle for rotating the shaft to set the toggle and operable to move the toggle beyond its set position against the action of said biasing means to cause the pin to exert a turning moment on the lever through the latch and thereby move the latch bodily to close the switch against the action of the actuator, the handle being operable to move the shaft bodily to fulcrum said member on its pivot and release the latch independently of the actuator.

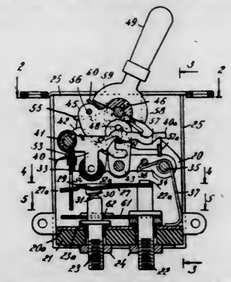
2,348,996

CIRCUIT BREAKER

Malcolm Kingsley Parkhurst, New York, and Lyndon W. Burch, Pelham, N. Y., assignors to The Wilcolator Company, Elizabeth, N. J., a corporation of Delaware

Application March 5, 1942, Serial No. 433,479
22 Claims. (Cl. 200—116)

17. A circuit breaker which comprises a switch, an actuator for opening the switch automatically to break the circuit and acting to close the switch when the circuit is broken, a member operable to lock the switch in its open position against movement by the actuator and normally urged toward its locking position, manual means for moving the locking member to an inoperative position and including an operating shaft which is rotatable and movable laterally, a latch for holding the locking member in its inoperative position and movable by the actuator to release the locking member, a lever connected to the shaft, a



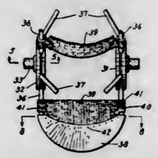
pivot spaced from the shaft and on which the lever is movable, a handle for rotating the shaft to actuate the manual means and operable to move the shaft laterally to fulcrum the lever on its pivot and thereby move the latch to release the locking member, and means operable by the handle for actuating the manual means to move the locking member to its inoperative position while maintaining the latch inoperative.

2,348,997

DAMMING ATTACHMENT FOR LISTERS AND LISTER SEEDERS

Charles T. Peacock, Lincoln County, Colo.

Application March 12, 1943, Serial No. 478,974
10 Claims. (Cl. 97—55)



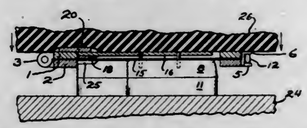
1. A scraper blade for lister damming devices, comprising, a scraping element forming the lower end thereof, a bar extending upwardly from each side edge thereof, and a flexible fibrous member connected at its ends with the bars, said flexible member forming the upper portion of the blade.

2,348,998

FLANGE FORMING DIE ASSEMBLY

Lester R. Pease, Inglewood, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application April 21, 1942, Serial No. 439,905
8 Claims. (Cl. 113—44)



1. A flanging die assembly comprising, in combination with a work sheet, a form block having a periphery of predetermined contour, and having portions of its work sheet engaging surface in different planes, a pair of draw rings having reg-

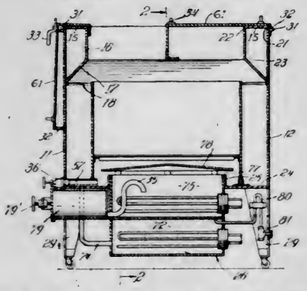
istering apertures therein, means for locking said draw rings together with a portion of said work sheet to be flanged included therebetwen, means for positioning said work sheet on said form block with one of said draw rings surrounding said form block, the inner edges of said apertures following the contour of said form block with a clearance therebetween, and a pressure plate positioned within the other of said draw rings and having a surface facing said form block and complementary thereto.

2,348,999
PHOTOGRAPHIC ENLARGING EASEL
Frans H. Peterson, Monroe, La.
Application February 16, 1943, Serial No. 476,103
1 Claim. (Cl. 88—24)



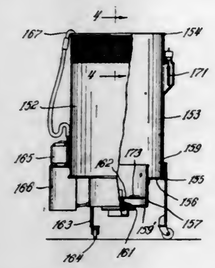
A photographic enlarging easel, comprising a body portion including a base having a recessed upper surface, an upper section hingedly connected to the base and having a cut-out portion of a size equal to the size of the recessed upper surface of the base, a rectangular frame fitted within the cut-out portion of the upper section and being of a thickness equal to the depth of the recess in the base plus the thickness of the upper hinged section, whereby said frame completely covers the inner walls of the recess of the base and wall of the cut-out portion of the upper section when the upper section is moved to engage the upper surface of the base, preventing light rays entering between the base and upper section, and removable shutter plates adapted to be positioned within the frame.

2,349,000
DEGREASER WITH TWO SUMPS
Willard D. Phillips and Ralph A. Van Fossen, Chicago, Ill., assignors to John M. Bash, Chicago, Ill.
Application February 15, 1943, Serial No. 475,914
6 Claims. (Cl. 202—170)



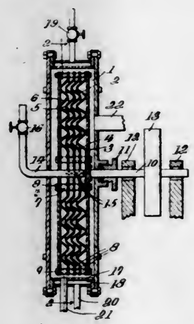
1. In a degreasing apparatus, a chest having a hollow upper rim adapted to act as a condenser, spaced inner walls within the chest below the hollow rim forming an inner vapor treating chamber and an outer condenser trap, a pair of vaporizing sumps mounted in the bottom of the treating chamber, a shed cover over the sumps to prevent dirty solvents from falling into the sumps while permitting vapors from the sumps to enter the treating chamber, a dirty solvent trap in the bottom of the treating chamber, means to deliver clean solvent from the condenser trap to one vaporizer, and means to deliver dirty solvent to the other vaporizer.

2,349,001
DEGREASING APPARATUS
Willard D. Phillips and Ralph A. Van Fossen, Chicago, Ill.
Original application August 3, 1940, Serial No. 351,018. Divided and this application February 15, 1943, Serial No. 475,917
2 Claims. (Cl. 202—170)



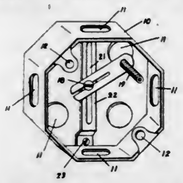
1. In a degreasing apparatus, the combination of a vapor chamber, means to supply vaporized solvent within said chamber, vapor level control devices to establish a normal solvent vapor level in said chamber, and a radiating surface on the exterior of said vapor chamber above the normal solvent vapor level, said radiating surface being characterized by heat radiating properties greater than the heat radiating properties of other portions of the vapor chamber.

2,349,002
PROCESS OF EVAPORATING LIQUIDS AND APPARATUS FOR CARRYING OUT THE SAME
Adolph Placek, Philadelphia, Pa.
Application July 23, 1940, Serial No. 347,006
6 Claims. (Cl. 159—6)



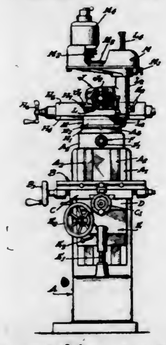
1. The process of concentrating liquids by evaporation consisting in forcing the liquid outwardly from or near an established axis at the center of a cylindrical heating surface through a radially sinuous passage of substantially uniform width, while rotating the passage to exert centrifugal force on the liquid for causing the same to move in all radial directions outwardly at an increasing velocity, said liquid when discharged from said passage being caused to contact with and move along the heated surface at substantially the same velocity as the peripheral velocity of said passage.

2,349,003
FIXTURE SUPPORT
Fred H. Renner, Milwaukee, Wis.
Application May 27, 1941, Serial No. 395,491
2 Claims. (Cl. 174—54)



1. A device of the character described comprising in combination with a conduit receptacle, a longitudinal attaching member fastened to the inner wall of said receptacle, said member being provided with a longitudinal slot, a support arm, said support arm being provided with a longitudinal slot, means for pivotally fastening said support arm to said attaching member at the intersection of the slots, and an attaching means on said support arm projecting outwardly at right angles thereto for mounting of a fixture or the like.

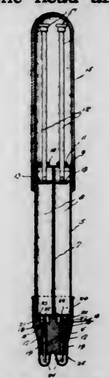
2,349,004
MILLING MACHINE
James H. Richards, Glendale, Calif., assignor to Fray Machine Tool Co.
Application June 2, 1942, Serial No. 445,466
7 Claims. (Cl. 90—17)



1. A milling machine comprising: a base, a turret head rotatable to an extent of 360 degrees thereon and including a saddle adjustable diametrically of said head, an over-arm also adjustable diametrically of said head in a direction at right angles to the direction of adjustment of said saddle, a stem longitudinally adjustable in the over-arm, a universally adjustable tool supporting attachment solely supported on said stem, and means on said base for adjustably supporting work relative to a tool carried by said attachment.

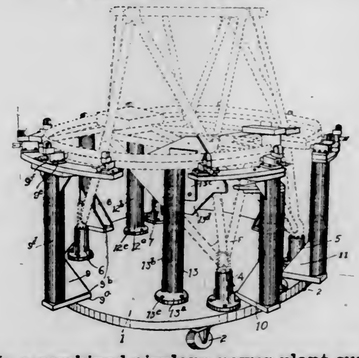
2,349,005
INK ERADICATOR APPLICATOR
Doyle L. Roe, Grand Saline, Tex.
Application May 5, 1943, Serial No. 485,783
4 Claims. (Cl. 120—36)

1. In an ink eradicator applicator, a container having a fluid compartment, a head closing one end of the container and having a passage communicating with the compartment and extending through the end of the head, a valve seat formed in said passage, an applicator element in said passage and extending outwardly therefrom at said end of the head and provided with a



roughened surface for applying fluid to an area, spring means acting on the applicator element to normally close the passage.

2,349,006
AIRPLANE POWER PLANT AND COWLING ASSEMBLY MEANS
Frederick H. Rohr, San Diego, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application April 6, 1942, Serial No. 437,778
6 Claims. (Cl. 29—89)

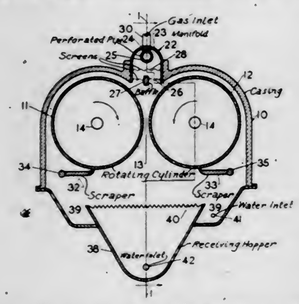


1. In a combined airplane power plant support and cowling assembly means, the combination of a rigid plate, a plurality of relatively short power plant supports removably secured to the upper side of said plate and extending upwardly therefrom in substantially vertical position arranged to support said airplane power plant on a substantially vertical axis, a plurality of relatively long cowling positioning jig supporting members readily removably positioned on the upper surface of said plate, and cowling positioning jig members adjustably positioned on the upper ends of said jig supporting members.

2,349,007
MANUFACTURE OF ACETYLENE
Jan D. Ruys, Pittsburg, and Leonard Goldstein, Concord, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 14, 1941, Serial No. 383,384
15 Claims. (Cl. 260—679)

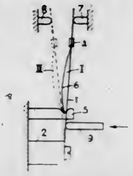
10. A method for producing acetylene which comprises subjecting a gaseous mixture contain-

ing a hydrocarbon and oxygen to incomplete combustion in a reaction zone at the ignition temperature of the gaseous mixture, conveying said mixture while maintaining flame combustion towards the locus of minimum clearance between the surfaces of two oppositely rotating cooled metallic cylindrical drums revolving on substantially parallel axes and with a relatively small clearance between said drums at said locus of minimum clearance, said incomplete combustion taking place substantially solely in a plane



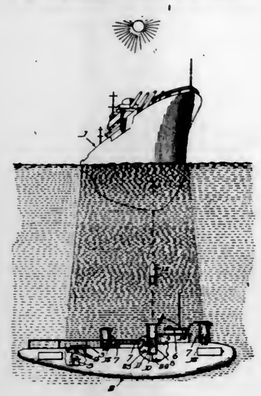
extending through said small clearance between said drums, maintaining the linear velocity of the gaseous mixture, while it passes through said locus of minimum clearance, substantially above the respective flame velocity of the gaseous mixture, whereby the resulting gaseous products after passage through said locus of minimum clearance are at a temperature below that of flame combustion, withdrawing the resulting gaseous products from a zone downstream of said locus of minimum clearance, and recovering acetylene from said resulting gaseous products.

2,349,008
SNAP-ACTION ROCKER DEVICE
Fritz Sauter, Basel, Switzerland
Application July 17, 1941, Serial No. 402,859
In Switzerland December 16, 1940
3 Claims. (Cl. 74—100)



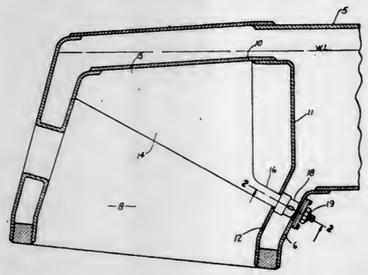
1. A snap-action rocker device, comprising a fixed support, a spring rocking tongue secured at one end to said support, abutments arranged to limit the motion of the other free end of said tongue, a fixed bearing near the secured end of said tongue, a bearing carried by said tongue near its free end, and a rocking spring held under endwise compressive load between said bearings, said fixed bearing being located between the ends of the tongue and in such position with respect to said abutments against which the tongue bears when at rest, that a very small transverse bending movement applied to said tongue by external influence causes it to move past said fixed bearing whereupon it is rocked with a snap-action from the one abutment to the other under the load of the said spring, said fixed bearing being adjustable to enable the spring load to be varied.

2,349,009
SUBMARINE
Martin C. Schwab, Chicago, Ill.
Application September 18, 1941, Serial No. 411,371
5 Claims. (Cl. 114—17)



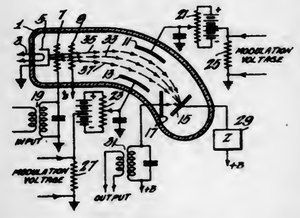
1. A submarine comprising a body portion, means for propelling said body portion, means for detecting watercraft, and at least one torpedo tube, said torpedo tube being arranged to retain a torpedo therein in vertical position when said submarine is in horizontal position, said torpedo tube comprising a torpedo chamber, an annular shoulder in said chamber for supporting said torpedo, a cover for hermetically sealing said torpedo tube, said cover being provided with a protruding portion adapted to contact said torpedo and hold it in place, the region of said cover opposite the detonating point of said torpedo being recessed to prevent contact of said detonating point with said cover, lock means for maintaining said cover in sealing relation with said torpedo chamber, control means for releasing said cover, a pressure chamber, a pass connecting said pressure chamber with said torpedo chamber, a valve-controlled pressure inlet, and a valve-controlled outlet for relieving the pressure in said torpedo tube.

2,349,010
INLET FOR SIPHONS
Lewis H. Smith, Cleveland, Ohio, and Larkin R. Williamson, Brooklyn, N. Y., assignors to H. H. Pinney, Shaker Heights, Ohio
Application December 17, 1940, Serial No. 370,518
2 Claims. (Cl. 122—68)



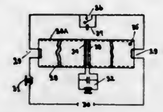
1. A locomotive boiler having incorporated therein a firebox provided with an inner throat sheet and an outer throat sheet, in combination with a siphon disposed in said firebox, said inner throat sheet being provided with an opening, a sleeve of larger inner diameter than the diameter of said opening secured to the inner side of said inner throat sheet and surrounding said opening whereby a shoulder is provided, said siphon having a portion movably projecting through said opening and into said sleeve, a washer snugly surrounding said portion, resting against said shoulder and spaced from said sleeve, and packing means interposed between said portion and said sleeve and resting against said washer whereby fluid between said throat sheets may enter said portion without seeping through said opening.

2,349,011
FREQUENCY CONTROL FOR ULTRA HIGH FREQUENCY DEVICES
Rogers M. Smith, Ashland Terrace, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1941, Serial No. 404,856
9 Claims. (Cl. 250—27)



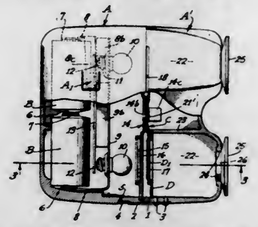
1. An ultra high frequency device including a thermionic tube having an input circuit, an output circuit, and an electron path; means for adjusting the period of said circuits to correspond approximately to the transit time required for electrons to travel said path; and means for varying the electron transit time so that said electrons have a reactive influence on said device.

2,349,012
MEANS FOR PRODUCING HIGH FREQUENCY OSCILLATIONS IN ILLUMINATING ELECTRONIC DISCHARGE LAMP DEVICES
Charles Spaeth, Mamaroneck, N. Y.
Application June 24, 1941, Serial No. 399,450
9 Claims. (Cl. 315—246)



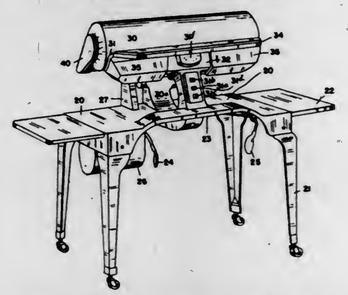
4. A light radiating electronic discharge oscillator, comprising a light transmitting gas-filled tube, a coating of luminescent material attached to said tube, spaced thermionic electrodes within said tube, spaced metal plates interposed between said electrodes, a resonant circuit connected to said metal plates, a source of electric current energizing said tube and charging and discharging said metal plates by means of the electronic discharge from said thermionic electrodes, thereby converting the current flowing through said tube into high frequency currents and causing the gaseous atmosphere and the luminescent coating to radiate light of increased efficiency.

2,349,013
STEREOSCOPIC VIEWER
Elliott W. Sparling, Los Angeles, Calif., assignor, by mesne assignments, to Milton Schwarzwald, Los Angeles, Calif.
Application July 23, 1941, Serial No. 403,690
5 Claims. (Cl. 88—29)



1. A stereoscopic viewer comprising: a case having separable front and back members, ocularly spaced eye pieces carried by the front member, a light diffusing member supported on the case at the junction of and held in position by the engagement of said separable members and having ocularly spaced light transmitting elements held thereon, illuminating means wholly supported in the back member, said case having a transverse aperture in the top thereof formed at the junction of said separable members through which a dual picture slide may be inserted and removed from operative position with respect to said light transmitting elements and said eye pieces.

2,349,014
IRONING MACHINE
Herman A. Sperlich, Highland Park, Mich.
Application April 9, 1938, Serial No. 201,048
4 Claims. (Cl. 38—59)

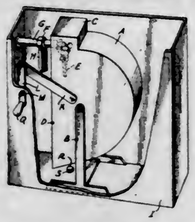


1. A support for an ironing machine consisting of a table having a small portion of its area at one side and an edge adjacent thereto elevated above the remaining portion thereof whereby to provide a low level table while avoiding interference with a seated operator's knees.

2,349,015
FLUSH TANK
Clarence F. Stalcup, Pasadena, Calif., assignor of one-half to I. M. Duvall, Arcadia, Calif.
Application June 9, 1941, Serial No. 397,160
1 Claim. (Cl. 4—32)

A device of the character described, comprising a tank, a pivoted rockarm in said tank, and having a handle portion externally thereof, a pair of brackets in said tank, a dump pan in said tank pivotally mounted on said brackets, a

link connecting said pan and said rockarm, said pan having an offset upper portion at one side whereby to retain said pan, when filled, in an upright position, a rod extending between upper edge portions of said pan, a valve having a pressure actuated closing element and an adjustable



actuating arm adapted to be engaged by said rod to close said valve when said pan is filled, said rockarm adapted to tilt said pan to discharge the contents thereof in said tank, said offset portion adapted to receive water whereby to rock said pan to firmly close said valve when said pan is filled.

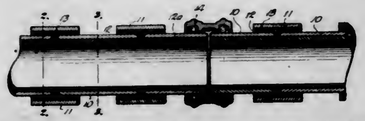
2,349,016

ARTICULATE PIPE OR CONDUIT

Joseph F. Stephens, Kansas City, Mo.

Application October 22, 1942, Serial No. 462,953

9 Claims. (Cl. 138—62)



1. A flexible articulate conduit comprising a plurality of adjoining, spaced apart pipe segments of uniform diameter forming a continuous passage, reinforcing rings surrounding the space between the pipe segments, and an integral flexible substance between the segments and beneath the reinforcing ring bonded to the pipe segments.

2,349,017

SOAP CHIP DISPENSER

Richard M. Storer, Denver, Colo.

Application March 5, 1942, Serial No. 433,483

11 Claims. (Cl. 146—62)



1. A device of the character described, comprising a container for a cake of soap, an oscillatory cutter member providing a closure for a side of the container, means associated with the container for pressing a cake of soap therein against said cutter member said soap pressing means and said cutter member cooperating to discharge cut soap from the container, said cutter member comprising a plurality of spaced-apart cutters having discharge openings for the lateral discharge of cut soap therebetween, each such cutter having forward cutting surfaces penetrating the cake of soap in each direction of travel of the cutter member, and means for changing the angular position of said cutters during each change in direction in the oscillatory cycle of the cutter member to effect the soap penetration by said forward cutting surfaces.

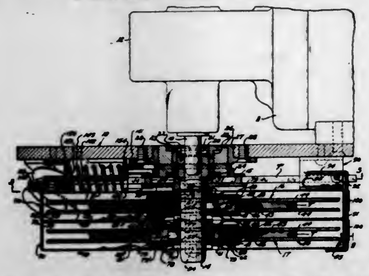
2,349,018

TAPE DRIVING SYSTEM FOR MAGNETIC SOUND RECORDING MACHINES AND THE LIKE

Homer G. Tasker, Van Nuys, Calif., assignor to Herman S. Heller, West Los Angeles, Calif.

Application October 24, 1940, Serial No. 362,701

4 Claims. (Cl. 242—55)



1. In a record tape driving means for a sound recording and/or reproducing machine, the combination of a drive shaft, a smooth periphery tape engaging tape drive pulley on said drive shaft, a pair of reels relatively rotatable on said drive shaft, means for guiding and supporting the tape between said reels to pass in driving contact with two points of said pulley, means for tensing the tape between said points of contact and over-running clutches for said reels adapted and arranged to clutch the reels to the shaft alternately as the drive shaft is driven in reverse directions.

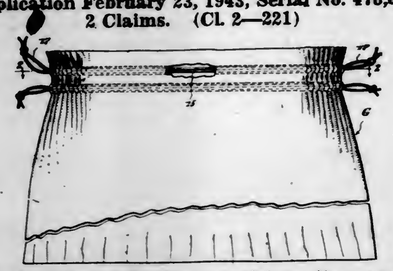
2,349,019

GARMENT

Bettie Terrell, Dallas, Tex., assignor to The Johnston Company, Inc., Dallas, Tex., a corporation of Texas

Application February 23, 1943, Serial No. 476,810

2 Claims. (Cl. 2—221)



1. A garment having a waist portion, means forming two spaced draw-string guides circumferentially of the waist portion, each guide having an opening at opposite sides of the garment, and a pair of reversely arranged looped draw-strings in each of said guides, each draw-string having portions extending through one of the guide openings to form pull means, said guide openings being disposed one above the other whereby adjacent vertically spaced pull means may be secured together.

2,349,020

CARTON

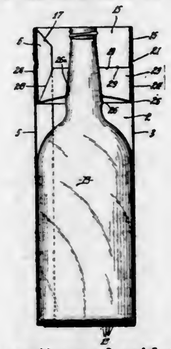
Edgerton A. Throckmorton, Dundee, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application August 15, 1941, Serial No. 406,985

5 Claims. (Cl. 229—89)

1. A carton composed of foldable sheet material of the character described for bottles and the like

comprising, a parallelepiped tubular body adapted to receive a bottle with the top of the bottle at one end and the bottom of the bottle at the other end of the carton body, the bottle top end of the carton having strips of material extending along and overlying marginal edge portions of the inside faces of one pair of opposite side walls, said strips being secured to said marginal edge portions with their lower edges providing abutments facing toward the bottle bottom end of the body, said



marginal edge portions of said pair of opposite side walls having score lines therein directed transversely of the side walls and providing projections internal of the carton end beneath said strips, a closure panel adapted to be disposed transversely of said body between said abutments and the bottle bottom end of the body, and flanges carried by said panel at an angle thereto with the free edges of the flanges directed toward said bottle top end of the body and held by said abutments.

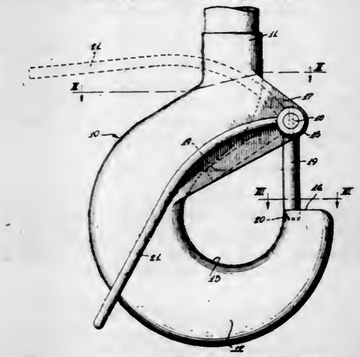
2,349,021

SAFETY CRANE HOOK

Fredrick J. Truesdale, Steubenville, Ohio, and Harry Kermit Fish, Follansbee, W. Va., assignors to National Steel Corporation, a corporation of Delaware

Application November 8, 1941, Serial No. 418,410

1 Claim. (Cl. 294—83)



A safety hook for cranes and the like comprising a body portion including a shank, the body portion being formed in the shape of a hook to define a recess opening in a mouth, a slot in the body portion presenting legs, a pin passing through the legs and rotatable relative thereto, a guard rigidly mounted on the pin between the legs movable between an operative and inoperative position and closing the mouth in operative position, an arm extending around the body portion and having rigid attachment with the pin outside each leg, the arm making an angle with the guard such that the weight of the arm maintains the guard in operative position, and a stop means limiting movement of the guard in operative position, the arm in such position being maintained out of contact with the body portion.

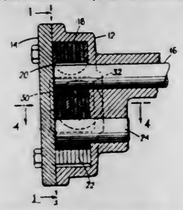
2,349,022

LAMINATED GEAR PUMP

Gustave A. Ungar, New Rochelle, and Joseph F. Keller, New York, N. Y., assignors, by direct and mesne assignments, to Equi-Flow Inc., New York, N. Y., a corporation of New York

Application March 28, 1941, Serial No. 385,618

22 Claims. (Cl. 103—126)



1. A gear pump comprising a casing, fluid inlet and discharge ports in said casing, a driving shaft, a driving gear built up of laminations keyed to said driving shaft but being axially free for slight axial movement, a driven gear meshing with said driving gear, said driven gear being built up of laminations rotatively carried in said casing, each driven lamination meshing with and having substantially the same thickness as a specific corresponding driving lamination, said driven laminations being at least slightly self-adjustably rotatable relative to one another, for best mesh with their respective mating driving laminations.

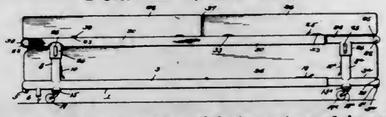
2,349,023

EMERGENCY AUTO STRETCHER COT

Vincent A. Van Der Hyde, Eau Claire, Wis.

Application April 8, 1942, Serial No. 438,183

4 Claims. (Cl. 5—110)



3. An article capable of being stowed in small compass, and including a cot frame comprising parts connected for longitudinal sliding extension and contraction, a stretcher frame comprising parts connected for longitudinal sliding extension and contraction, each of said parts of the stretcher frame being disposed above one of said parts of the cot frame, and interengaging elements on each of said parts of the stretcher frame and the cot-part therebelow and connecting the stretcher frame and the cot frame for extension and contraction as one piece, said interengaging elements supporting the stretcher frame removably above the cot frame.

2,349,024

STUFFING BOX SEAL

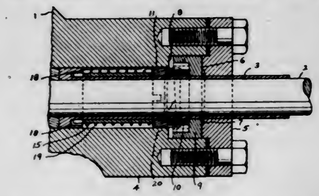
Gasper L. Waddell, Goose Creek, Tex.

Application February 2, 1942, Serial No. 429,195

2 Claims. (Cl. 286—7)

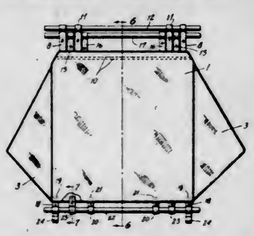
1. The combination with a housing, of a rotary element extended axially through the hous-

ing, an internal thrust seat around said element, a stuffing box inclosed within the housing and including a thrust ring with packing therein which packing closely surrounds the rotary element and tapers outwardly from the thrust ring, a packing gland fitted around the rotary element with its end adjacent the packing fitting over the tapering portion of the packing, said gland having an external groove, a blade extending radially inwardly from the thrust ring into said groove to clutch the thrust ring and packing



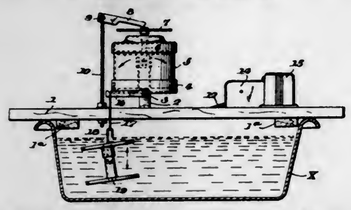
gland together, a driving sleeve around the rotary element one end of which abuts said gland, means for clutching said sleeve and gland to cause them to rotate together, the other end of said driving sleeve being clutched with the rotary element, a yieldable member around the driving sleeve which acts against said gland to constantly apply a compressive force radially inwardly to said packing, said thrust ring having a plane bearing face which fits said seat and means for applying a lubricant to said seat and face.

2,349,025
SHOPPER'S BAG
Mary Irene Wick, University City, Mo.
Application October 30, 1943, Serial No. 508,355
4 Claims. (Cl. 150—1.7)



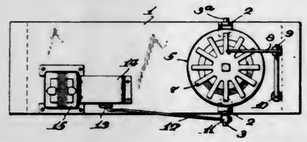
1. A shopper's bag composed of two complementary foldable and pliable end walls, two complementary foldable and pliable side walls attached to said end walls and attached together at their lower ends to close the lower end of the bag and having their upper ends unattached to form an opening at the upper end of the bag, elements attached to and projecting upwardly beyond the upper margins of said respective side walls adjacent to said end walls, two substantially inflexible handle members attached to said elements at a distance from the upper ends of said side walls forming a space for the hand grasping said two handle members and also holding said side walls stretched nearly parallel with each other, elements attached to the lower ends of said side walls, and a substantially inflexible handle member attached to said last named elements at a distance from the lower ends of said side walls forming a space for the hand grasping said three handle members while said side walls are folded to place said last named handle member adjacent to said two first named handle members.

2,349,026
PHOTOGRAPHIC DEVELOPING AND WASHING APPARATUS
Loyd A. Wildman, Charleston, W. Va.
Application June 9, 1942, Serial No. 446,370
5 Claims. (Cl. 95—99)



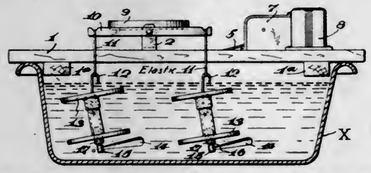
1. Photographic developing and washing apparatus comprising a base adapted to rest on and be supported by a receptacle, a horizontal rock shaft journalled on said base and extending beyond the same, a developing tank rigidly mounted on said shaft, a crank arm on that part of said shaft extending beyond said base, a film holder suspended from said crank arm in such a position as to be immersed in a liquid in the receptacle on which said base rests, and means to continuously oscillate said shaft.

2,349,027
PHOTOGRAPHIC DEVELOPING APPARATUS
Loyd A. Wildman, Charleston, W. Va.
Original application June 9, 1942, Serial No. 446,370. Divided and this application May 20, 1943, Serial No. 487,757
2 Claims. (Cl. 259—78)



1. Photographic developing apparatus comprising a tank having an upright shaft rotatably mounted therein, a holder in which the bottom of said tank is removably supported, a base on which said holder is pivotally mounted for oscillation about a horizontal axis, means on said base for continuously oscillating said holder and tank, and means operated by such oscillating movement for continuously rotating said shaft step by step, in the same direction.

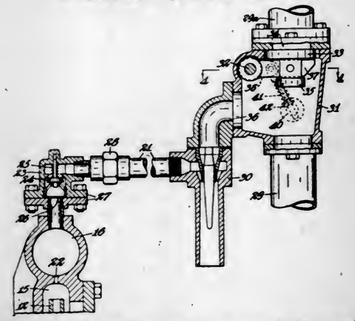
2,349,028
PHOTOGRAPHIC WASHING APPARATUS
Loyd A. Wildman, Charleston, W. Va.
Application June 1, 1943, Serial No. 489,287
5 Claims. (Cl. 95—97)



2. Apparatus of the class described comprising a base constructed to rest on and be supported in a horizontal position by any suitable receptacle containing a liquid, said base being narrower and

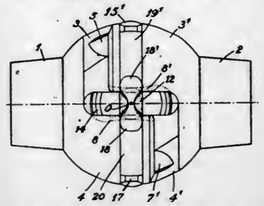
longer than said receptacle, an arm pivotally mounted on said base to swing in a vertical plane at a point beyond the side edge thereof, means on said arm for suspending a film spool below said base in such position as to be immersed in the liquid in said receptacle, said means including a flexible link, capable of being twisted, and a member depending from said link and constructed to engage said spool, whereby said spool is freely movable in all directions, and means on said base for continuously oscillating said arm and thus reciprocating said film holder in the liquid.

2,349,029
PRIMING SYSTEM FOR CENTRIFUGAL PUMPS
Edward A. Wilhelm, St. Paul, Minn.
Application March 2, 1942, Serial No. 433,013
8 Claims. (Cl. 103—113)



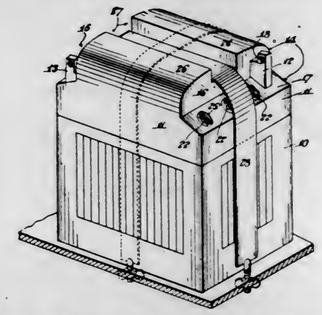
1. The combination with a centrifugal pump having a discharge passage and a wall separating said passage from an impeller chamber, of a suction pipe communicating with said discharge passage, a restricted passageway connecting the top of said impeller chamber with said discharge passageway and means for closing said suction pipe.

2,349,030
UNIVERSAL JOINT
Sven Gustaf Wingquist, Remningstorp, Skara, Sweden
Application September 28, 1940, Serial No. 358,921
In Sweden July 16, 1940
3 Claims. (Cl. 64—21)



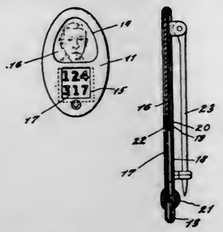
3. A universal joint comprising a driving and a driven element each provided with a plurality of axially extending projections, a plurality of rotary bodies interposed between said projections to form therewith a ring, a rotatable cross shaft having its axis passing through the center of the joint for rigidly connecting two of said bodies to each other, two relatively non-rotatable sets of equispaced tooth elements on said cross shaft disposed in two parallel planes perpendicular to the axis of said cross shaft, and a plurality of tooth elements on the adjoining projections in mesh with said first tooth elements.

2,349,031
STORAGE BATTERY COVER
Leon A. Doughty, Glenside, Pa., assignor to Carlile & Doughty, Incorporated, Conshohocken, Pa., a corporation of Pennsylvania
Application September 17, 1942, Serial No. 458,714
2 Claims. (Cl. 136—170)



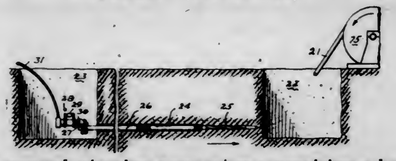
2. In a storage battery, battery terminals located respectively at opposite ends thereof, a battery case, a cover therefor formed with an upstanding transverse extension having arcuate sides and a relatively deep longitudinally disposed groove paralleling said sides, said extension being lengthwise shorter than said case to provide transverse shoulders to locate the battery terminals within all plane projections of the case, one of said shoulders having filling openings for the battery cells, and a rigid hold-down strap for anchoring said battery by passing through said groove or over the arcuate sides and top of said extension.

2,349,032
IDENTIFICATION BADGE
Harold W. Draper, West Orange, N. J., assignor to The Whitehead & Hoag Company, Newark, N. J., a corporation of New Jersey
Application February 8, 1941, Serial No. 377,956
5 Claims. (Cl. 40—1.5)



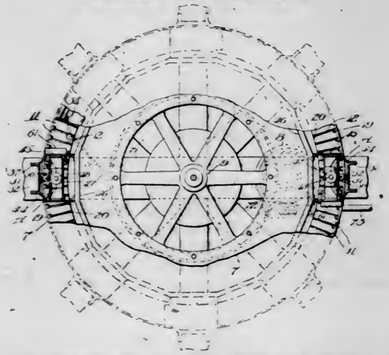
4. An identification badge comprising a face plate having an aperture therein, a peripheral flange extending around said face plate, an identifying device visible through the aperture in the face plate, a removable plate supporting the identifying device, said identifying device and removable plate lying beneath the edge of said flange at one end, said flange extending over and engaging with a portion of the removable plate at said end and semi-permanent fastening means acting in cooperation with said flange to secure said removable plate and identifying device to the face plate at the other end, said fastening means being capable of receiving identifying characteristics to prevent unauthorized removal of the fastening means.

2,349,033
BORING HEAD
Nathaniel R. Elliott, Alameda, Calif.
Application June 25, 1940, Serial No. 342,301
1 Claim. (Cl. 255—69)



A ground-piercing apparatus comprising a boring head for axial propulsion through the earth to provide a bore by earth displacement laterally thereof, and a helical thread on said head having a forward portion of uniform pitch and a rearward portion of progressively changing pitch whereby said forward thread portion is threadedly engageable with the engaged earth to effect a rotation of said head and the rear portion is progressively operative to smooth the bore thereat by reason of the propulsion of the head through the earth.

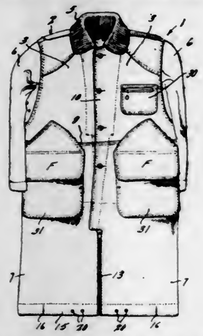
2,349,034
MACHINE FOR MAKING WOOD WOOL
Armin Elmendorf, Winnetka, Ill.
Application September 8, 1941, Serial No. 409,941
8 Claims. (Cl. 144—185)



1. A machine for cutting filaments from blocks of wood comprising a table, a series of cutters distributed in a circle upon the table, each cutter having a series of small cutting elements projecting above the table and spaced apart from each other and arranged in a row radially of said circle, means to adjust said cutters lengthwise and transversely of the plane of the table, means to adjust at least some of said cutters radially of said circle over a distance at least as great as the spacing between the small cutting elements of a cutter, means to hold blocks of wood in a circular area above and registering with that containing said cutters, means for pressing the blocks against the table, and means to rotate the table and the supporting means for the blocks relatively to each other.

2,349,035
CONVERTIBLE COAT
Joseph V. Falcon, Binghamton, N. Y., assignor to The Drybak Corporation, Binghamton, N. Y., a corporation of New York
Application April 4, 1941, Serial No. 386,909
7 Claims. (Cl. 2—94)

1. A hunting coat construction comprising an upper body portion having free vertical edges and a lower marginal edge, a one piece skirt having a lower edge and lateral edges and attached to the marginal edge of the body, said skirt being water proofed on its inner face, a fastening means carried by the lower half of the skirt along each lateral edge, a complemental fastening means carried by the upper half of said skirt along each lateral edge, said complemental fastening means



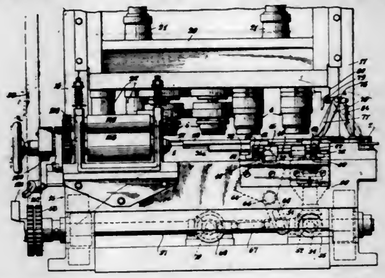
being adapted to close the lateral sides when the skirt is folded upon itself, and additional means for removably securing the lower edge of said skirt to the body when the skirt is folded upon itself for affording a looped pocket free from seams, said fastening means at the lower half of each lateral edge of the skirt also being adapted to coact to close the front of the skirt when the skirt is in its lowered position.

2,349,036
ELASTICIZED RUBBER HYDROCHLORIDE FILM
George W. Ferner, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application January 9, 1942, Serial No. 426,255
3 Claims. (Cl. 260—735)

1. A non-blooming rubber hydrohalide structure elasticized with a mixture of at least 10 and not over about 20 percent by weight of a phthalate from the group consisting of the alkyl and alkoxy-alkyl esters of phthalic acid and at least 10 and not over about 20 percent by weight of an ester of a dicarboxylic acid having the formula $COOH(CH_2)_nCOOH$ where n is at least two, from the group consisting of the alkyl, alkoxy-alkyl and aralkyl esters thereof, the latter being used in such an amount as to produce blooming in the absence of the former ester.

2,349,037
MACHINE FOR MAKING CLOSURE CAPS
John C. Gibbs, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application March 14, 1940, Serial No. 323,924
23 Claims. (Cl. 153—2)

1. In a device for the manufacture of closure caps, the combination of an expandible member for fitting into the skirt of a cap, a contractable member adapted to fit about the cap, means comprising members having tapered surfaces for expanding said expandible member against the inside of the skirt of the cap and having other surfaces conforming substantially to the outer surface of a cylinder for permitting additional relative movement of said members without additional expansion of said expandible member, said contractable member having means adapted to form container engaging means in the skirt of



the cap, and resiliently operated devices for contracting said contractable member against the outside of the skirt of the cap to form container engaging means in the skirt of the cap.
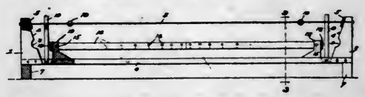
2,349,038
SOLVENT DEWAXING OF MINERAL OILS
Luke B. Goodson, Phillips, Tex., James V. Montgomery, Fort Huachuca, Ariz., and Robert W. Henry, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Original application October 28, 1940, Serial No. 363,208. Divided and this application August 10, 1942, Serial No. 454,322
3 Claims. (Cl. 196—18)

1. The process of dewaxing mineral oils including the steps of mixing the waxy oil with a dewaxing solvent comprising amyl mercaptan and a wax antisolvent in which the antisolvent is methyl ethyl ketone, chilling the mixture of oil and solvent to precipitate the wax, and removing the precipitated wax.

2,349,039
SOLVENT DEWAXING OF MINERAL OILS
Luke B. Goodson, Phillips, Tex., James V. Montgomery, Fort Huachuca, Ariz., and Robert W. Henry, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Original application October 28, 1940, Serial No. 363,208. Divided and this application August 10, 1942, Serial No. 454,323
6 Claims. (Cl. 196—18)

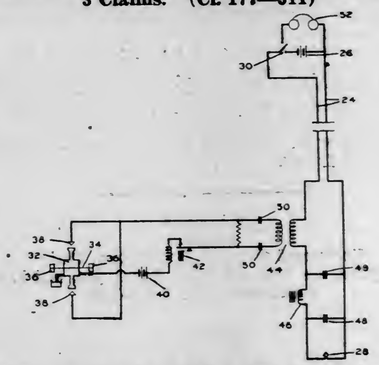
1. The process of dewaxing mineral oils including the steps of mixing the waxy oil with a dewaxing solvent comprising diamyl sulfide and a wax antisolvent, in which the antisolvent is acetone, chilling the mixture to precipitate the wax, and removing the precipitated wax.

2,349,040
GAME APPARATUS
Casper E. Grant, Portsmouth, Va.
Application September 3, 1943, Serial No. 501,164
1 Claim. (Cl. 273—108)



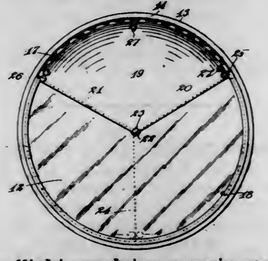
In a game apparatus a base, spaced opposed posts upstanding from the base, a guide connecting the upper end portions of the posts and constituting a tie, supports on the base and between the posts, a bar interposed between and reenforcing the supports, there being a space between each post and one of the supports, cushioning means on the posts and support and within the space, a lever pivotally mounted in said space and movable in one direction against one cushion and in the opposite direction against the other cushion, said lever having a forked end freely straddling the guide, and a game piece slidably mounted on the guide and between the respective levers.

2,349,041
SIGNALING DEVICE FOR GUN PERFORATORS
Donald G. C. Hare, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application August 29, 1941, Serial No. 408,836
3 Claims. (Cl. 177—311)



3. In combination with a gun perforator suspended in a well from a cable and connected in a firing circuit including said cable to a source of electricity at the surface, means for indicating when said perforator is moved vertically from a stationary position comprising a signaling device, a source of electricity and an inertia contactor connected in a signal circuit in said perforator, means for inductively coupling said signal circuit to said firing circuit, and a signal receiver at the surface connected in said firing circuit.

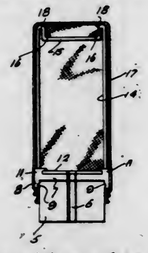
2,349,042
HEADLIGHT REGULATOR
Albert E. Holmes, Evanston, Ill.
Application April 23, 1942, Serial No. 440,215
1 Claim. (Cl. 240—48.4)



In a headlight regulator, a main sector-shaped glare shield plate having spaced indentations and notches opening through edges of said plate, means forming an integral part of said plate for mounting the latter on a headlight against movement and in a position of covering a selected area of a lens of the headlight to prevent light

rays of the headlight from being seen through said selected area of the lens from a position in front of the lens, a pair of sector-shaped slide plates having the apexes thereof pivoted to each other and to the apex of the main shield plate to cooperate therewith in covering the entire frontal area of the lens and manually movable relative to each other and slidable in telescopic relation to the main shield plate for uncovering different size areas of the lens, finger knobs secured to said slide plates for the manual movement thereof and received in the notches on said slide plates moving into full telescopic relation with the main shield plate, said slide plates having indentations to ride into and out of the indentations of the main shield plate during the manual movement thereof and acting to retain the slide plates from having movement relative to each other and the main shield plate due to vibrations and other causes tending to create accidental movement of the slide plates, said plates being curved to match a convex frontal face of the lens, one of said slide plates being offset along one edge thereof to provide a flange for overlapping a corresponding edge of the other slide plate when said slide plates move into position of cooperating with the main shield plate in covering the entire frontal area of the lens.

2,349,043
DRIER
Raymond Hyland, Barberton, Ohio
Application May 27, 1943, Serial No. 488,779
4 Claims. (Cl. 312—31)

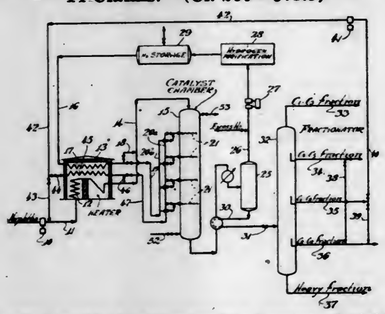


1. A drier comprising a box adapted for reception of a moisture-absorbing chemical and having imperforate bottom, side and end walls, a perforated cover for the box, means to close the perforations of the cover when desired, said cover having pairs of vertical sockets, the sockets of each pair being aligned transversely of the box, inverted U-shaped uprights, each having its lower ends received in a pair of said sockets, a tent fitting over said uprights and depending about the box, and means securing the lower portion of the tent in substantially air-tight relation to the box.

2,349,044
CORROSION PROTECTIVE COMPOSITION
Edward J. Jahn, Edwardsville, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 21, 1941, Serial No. 403,393
9 Claims. (Cl. 106—14)

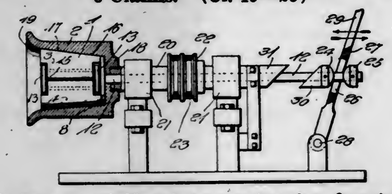
1. A corrosion-inhibiting composition comprising non-gaseous hydrocarbons containing amounts sufficient to inhibit corrosion each of a polycarboxylic acid having corrosion-inhibiting properties, and of an auxiliary oil-soluble, water-insoluble compound having but little corrosion inhibiting power selected from the group consisting of hydrocarbon monocarboxylic acids free from ether-forming hydroxyl radicals and esters thereof with monohydric alcohols.

2,349,045
DEHYDRO-AROMATIZATION
Edwin T. Layng, Jersey City, N. J., and Vanderveer Voorhees, Hammond, Ind., assignors of one-half to Standard Oil Company, a corporation of Indiana, and one-half to The M. W. Kellogg Company, a corporation of Delaware
Application September 18, 1939, Serial No. 295,500
14 Claims. (Cl. 260—673.5)



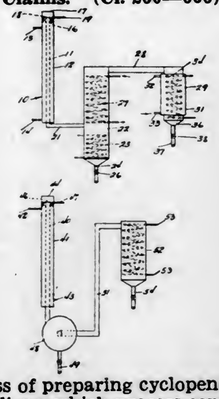
1. The method of producing increased yields of toluene from a naphtha charging stock which method comprises contacting said charging stock with a catalyst consisting essentially of a group VI metal oxide on alumina in a conversion zone at a temperature of approximately 950° F. to 1000° F., under a pressure in the general vicinity of 250 pounds per square inch in the presence of about 3 mols of hydrogen per mol of naphtha charge and at a space velocity of approximately 0.5 to 1 liquid volume of naphtha per hour per volume of catalyst in the conversion zone, separating hydrogen from the products leaving the conversion zone, heating at least a part of said separated hydrogen and returning said heated hydrogen to the conversion zone, fractionating the products after the hydrogen separation step to recover a toluene fraction and an aliphatic C_7 hydrocarbon fraction, heating said separated aliphatic C_7 hydrocarbon and returning the heated aliphatic C_7 hydrocarbon fraction to the conversion zone.

2,349,046
METHOD OF AND APPARATUS FOR FORMING AND FINISHING HOLLOW GLASS BODIES
Paul R. Luertzing, Vineland, N. J., assignor of one-half to Walter O. Luertzing, Vineland, N. J.
Application October 24, 1940, Serial No. 362,648
6 Claims. (Cl. 49—29)



1. In a centrifugal apparatus for forming a hollow glass article of a predetermined length and wall thickness and open at each end and having finished rim ends, a rotary centrifugal mold mounted on a substantially horizontal axis and provided with a forming chamber to receive a charge of glass, said chamber being open at one end and having an annular article body forming surface extending about the mold axis and of a length conforming with the length of the article to be formed, and article end forming surfaces projecting inwardly at the ends of the article body forming surface radially to the mold axis to an extent greater than the wall thickness of the article to be formed, means for rotating the mold at high speed about its horizontal axis to cause the flow of glass by centrifugal force alone against said forming surfaces to form a hollow glass body open at each end and having finished rim ends and which is of less wall thickness than the radial extent of the article end forming surfaces, whereby at the end of the centrifugal forming action portions of the article end forming surfaces lying on the inner side of the hollow body will be left free and clear of deposited glass, and a rotary finishing tool adapted to be introduced into the mold through the open end thereof for cooperation with said surfaces to modify the centrifugally formed body and give a desired finished form thereto, said tool comprising a rod or shaft and a pressing roller rotatably mounted thereon and provided with a peripheral compression surface to press the body against the forming surfaces, said shaft and roller being movable laterally toward the formed body and said roller being rotatable in contact with the inner surface of the body about the rod or shaft as the mold and body are rotated and having end portions arranged in parallel relation to the article end forming surfaces to slidably and rotatably engage said glass clear portions thereof to guide the tool in its lateral and rotational movements and to maintain said roller in said movements parallel with the mold axis and the internal surface of the hollow body.

2,349,047
PREPARATION OF MONOMERS OF CYCLOPENTADIENE
William H. Lycan and Howard L. Gerhart, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application May 24, 1941, Serial No. 395,063
5 Claims. (Cl. 260—666)



4. A process of preparing cyclopentadiene from dicyclopentadiene, which process comprises trickling dicyclopentadiene in liquid phase as a thin film down a surface of a tube heated to a temperature within the range of cracking of dicyclopentadiene to form cyclopentadiene and drawing off the vapors of cyclopentadiene from the liquid.

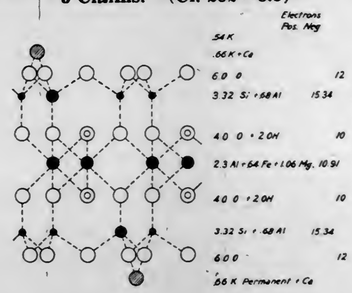
2,349,048
SMOKELESS POWDER
Bill Harry Mackey and Paul Robert Milus, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 4, 1940, Serial No. 355,308
4 Claims. (Cl. 52—5)

3. The progressive-burning smokeless powder grain of claim 1 in which the organic material of high molecular weight is butyl methacrylate.

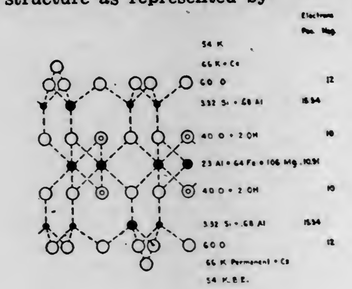
2,349,049
SALT WATER DRILLING MUD
Eldon A. Means, Wichita, Kans., assignor to Lubri-Gel Products Company, McCracken, Kans., a copartnership of Kansas
No Drawing. Application August 3, 1940, Serial No. 351,188
1 Claim. (Cl. 252—8.5)

The herein disclosed method of manufacturing an essentially non-gelling, flocculation resistant fluid for drilling through strongly saline formations, which comprises reducing the aggregated particle size of a non-expanding crystalline alumina, silicate mineral pyrophyllite, containing adsorbed sodium ions, by passing said mineral, suspended in water, through a mechanical homogenizer in the nature of a high pressure jet and under velocity sufficient to effect reduction of the particle size.

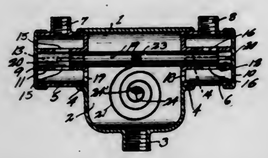
2,349,050
CONTROL AND PREVENTION OF CAVING AND SLIDING IN DRILLING OIL AND GAS WELLS
Eldon A. Means, Wichita, Kans.
Application February 28, 1942, Serial No. 432,882
3 Claims. (Cl. 252—8.5)



1. An aqueous drilling mud containing a cohesive-adhesive-ductile agent, comprising a pyrophyllitic aluminum silicate having substantially the illustrated chemical analysis and crystalline structure as represented by



2,349,051
MIXING VALVE
Victor B. Novak, Nome, Alaska
Application October 27, 1941, Serial No. 416,744
1 Claim. (Cl. 236—12)

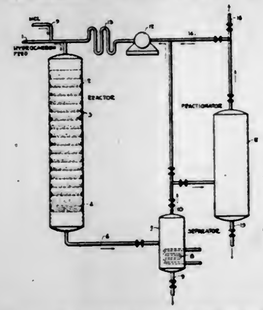


In a mixing valve, a main casing defining a mixing chamber and having an outlet at its bottom, extensions at opposite ends of said main casing spaced upwardly from the bottom thereof and defining auxiliary chambers in opposed relation to each other, said auxiliary chambers having upper inlets and at their bottoms having outlets at their inner ends establishing communication with the mixing chamber in spaced relation to the bottom thereof, tubular sleeves extending horizontally through said auxiliary chambers above the outlets thereof and open at their ends, horizontal webs between opposite sides of said sleeves and side walls of the auxiliary chambers serving to support the sleeves and constituting partitions dividing the auxiliary chambers into upper inlet portions and lower outlet portions, said sleeves being formed with upper and lower alined openings for passage of liquid through the sleeves between upper and lower portions of the auxiliary chambers, caps detachably carried by outer ends of said extensions and closing outer ends of the sleeves and upper and lower portions of the auxiliary chambers, a plunger extending horizontally through the mixing chamber with its end portions snugly received in said sleeves and slidable longitudinally therein into and out of blocking relation to openings of the sleeves, and thermostatic means in said mixing chamber for controlling movement of said plunger.

2,349,052
MANUFACTURE OF CEMENTED HARD METALS, IN PARTICULAR FOR TOOL ELEMENTS
Joseph O. Ollier, New York, N. Y.
No Drawing. Application December 15, 1941, Serial No. 423,040
3 Claims. (Cl. 75—136)

1. In a method of producing cemented hard metal compositions substantially comprising a carbide substance selected from the group consisting of carbides of boron, titanium, silicon, tantalum, columbium, vanadium, chromium, tungsten and molybdenum as a major portion and a considerably lower melting, substantially metallic binder phase as a minor portion, the steps of densely coating the particles of said selected carbide substance having an average diameter of about 8 microns to a fraction of 1 micron, with metal selected from a first group of metals essentially incapable of forming carbide and consisting of cobalt and nickel, the amount of said metal being appreciable and a fraction, about two thirds as a maximum, of said binder phase, admixing said coated carbide particles with pre-powdered components of the balance of said binder phase, said components selected from a second group of tough metallic substances capable of alloying with metal selected from said first group and consisting of iron, ferrous compositions of the type of steel including alloy steel and compositions of a tungsten-chromium-cobalt base, pressing the mixture so obtained to shape, and finally sintering it at temperatures below the prevailing melting temperature of said selected powdery components between about 1050° to about 1390° C., so as to bond the metal selected from said first group with said carbide particles and to alloy it with the powdery substance selected from said second group, and also to agglomerate the latter, so that on cooling a dense and tough body is obtained.

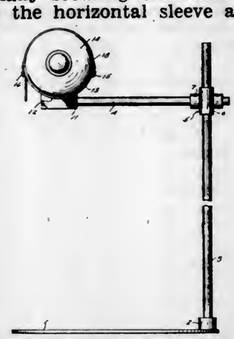
2,349,053
CONVERSION OF HYDROCARBONS
Ernest Frank Pevere, Beacon, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 21, 1941, Serial No. 384,449
3 Claims. (Cl. 260—683.4)



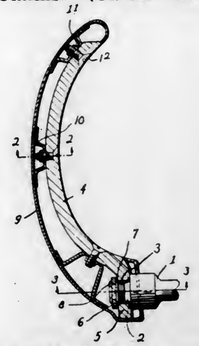
1. A process for obtaining butane and heavier hydrocarbons from propane and ethylene which comprises passing feed hydrocarbons consisting essentially of propane and ethylene to an alkylation reaction zone in the proportion of about 5 to 30 parts propane to 1 part ethylene such that propane is in substantial molecular excess over the ethylene in the reaction zone, subjecting the propane and ethylene to contact in the reaction zone with aluminum halide in the presence of a small amount of hydrogen halide, effecting said contact at a temperature of about 250 to 325° F. and under a pressure of about 2000 to 3000 pounds such that propane and ethylene react without substantial polymerization of the olefin, withdrawing from the reaction zone a hydrocarbon mixture containing butane and heavier hydrocarbons in substantial amount and separating butane and heavier hydrocarbons from the withdrawn mixture.

2,349,054
NURSING BOTTLE HOLDER
Nelson S. Phipps, Leicester, Mass.
Application November 21, 1942, Serial No. 466,448
2 Claims. (Cl. 248—106)

2. A nursing bottle holder comprising a base, a post rising from said base, a clamp adjustably mounted on the post, said clamp including integral, intersecting vertical and horizontal sleeves communicating with each other at the points where they intersect, an internally threaded neck projecting from the horizontal sleeve, a thumb screw threadedly mounted in said neck, the vertical sleeve being rotatable and slidable on the post, an arm mounted for rotary and sliding adjustment in the horizontal sleeve, the thumb screw being engageable with the arm for frictionally securing said arm in adjusted position in the horizontal sleeve and for frictionally securing the clamp in adjusted position on the post, and means for mounting a nursing bottle on the arm.



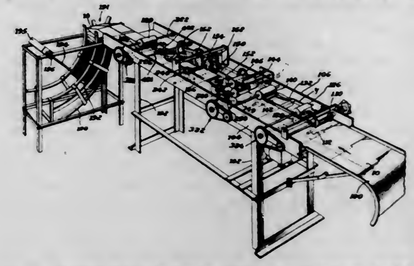
2,349,055
OUTSIDE DOOR HANDLE
Lloyd R. Rhein, Pleasant Ridge, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application February 7, 1942, Serial No. 429,848
9 Claims. (Cl. 292—347)



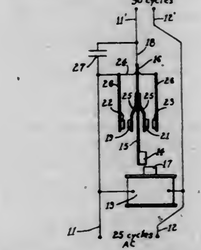
1. A handle, particularly an outer handle for an automobile door, having in combination a stem of heavy stock, one end of which can be secured to the end of the handle spindle, an outer sheet metal unit arranged to fit and conform to the heavy stock stem member and screw means inserted from the under side of the stem for fastening the two members together.

2,349,056
ENVELOPE FOLDING AND GLUING MACHINE
Kiichi Serai, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application August 8, 1942, Serial No. 454,127
9 Claims. (Cl. 93—63)

1. Apparatus for forming a strip of integrally connected envelopes from an elongated blank having along one side margin an integral row of longitudinally separated flaps each having an end portion severed from the contiguous body portion of the blank longitudinally of the blank, which includes the combination of feeding means for continuously advancing the blank in the direction of its length with said end portion of the flaps at the front thereof, means for infolding said end portion of said flaps on a line transverse to the direction of advance of the blank onto the contiguous area of said flaps, means for infolding the outer side marginal portion of said flaps on a line parallel to the direction of advance of the blank onto the contiguous area of said flaps, and means for thereafter infolding said flaps on a line parallel to the direction of advance of the blank onto the contiguous body portions of the blank and for sealing said infolded end and side marginal portions of said flaps to said body portions.



2,349,057
FREQUENCY MULTIPLIER
Herbert F. Storm, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application July 13, 1942, Serial No. 450,787
5 Claims. (Cl. 172—281)



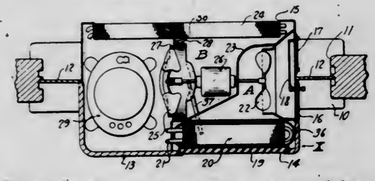
5. A frequency multiplier comprising an electromagnetic coil energized in parallel with the input voltage of an alternating current supply, a vibratory member having an armature adapted to be attracted by energization of the coil, two pairs of make and break contacts each pair including a fixed contact and a contact connected to and moving with the vibratory member, the movable contacts being arranged so that one will make contact with its complemental contact member upon movement of the vibratory member in one direction in response to magnetic pull of the coil and will break said contact when said vibratory member moves in the opposite direction, and the other movable contact member will make contact with its complemental contact member upon movement of the vibratory member in said other direction under the influence of its spring force and will break said contact when the vibratory member moves in the opposite direction, said pair of contacts being connected in parallel, whereby the vibratory member will make and break the circuit alternately with each pair of contacts for each complete cycle of its movement, thereby doubling the frequency cycle at the output end of the circuit as compared with the frequency at the input end.

2,349,058
LUBRICANT AND THE METHOD OF PREPARING THE SAME
Reuben A. Swenson, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application July 31, 1941, Serial No. 404,895
16 Claims. (Cl. 252—33)

1. A lubricant containing a complex soap of lead and a metal selected from the group consisting of alkali metals and alkaline earth metals, a glyceroxide of a metal selected from the group consisting of alkali metals and alkaline earth metals, a solubilizer selected from the group consisting of a metal soap of preferentially oil-soluble sulfonic acid and a metal soap of preferentially oil-soluble naphthenic acid and mineral oil.

16. A lubricant containing a complex soap of lead and a metal selected from the group consisting of alkali metals and alkaline earth metals, a glyceroxide of a metal selected from the group consisting of alkali metals and alkaline earth metals, and mineral oil.

2,349,059
CONDENSATE REMOVAL
Matson C. Terry and Paul Komroff, Toledo, Ohio, assignors, by mesne assignments, to Matson C. Terry, Washington, D. C.
Application April 23, 1940, Serial No. 331,082
6 Claims. (Cl. 62—140)



1. Refrigerating apparatus comprising an evaporator, a condenser, a compressor adapted to deliver heated refrigerant gas to said condenser, an annular shroud arranged at substantially right angles to said condenser and in close juxtaposition thereto, a trough associated with said shroud for receiving condensate from said evaporator, a condenser fan fitting said shroud and arranged to dip into the condensate in said shroud and throw same in spray form against the walls of the shroud, a relieved portion on the side of the shroud adjacent the condenser for enabling the fan to throw a spray of condensate against the condenser in case an excessive amount of condensate collects in said trough, and means for causing the heated gas refrigerant to thermally contact the shroud for heating same, thereby to evaporate condensate thrown thereagainst by the fan.

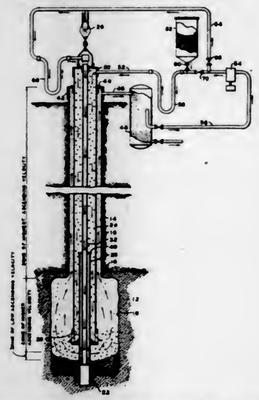
2,349,060
PREPARATION OF 4-PYRIDINE SULPHONAMIDES AND RELATED COMPOUNDS
Adolph E. Tiesler, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application December 12, 1940, Serial No. 369,803
4 Claims. (Cl. 260—290)

1. A process for producing 4-pyridine sulphonamides which comprises reacting an ester of 4-pyridine sulphonic acid with a substance selected from the group consisting of ammonia and amines.

2,349,061
PREPARATION OF MONOALKYLOL CYANAMIDE CONDENSATION PRODUCTS
Robert F. Uncles, Stamford, and Kerwin K. Kurtz, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 24, 1942, Serial No. 435,949
4 Claims. (Cl. 260—249.5)

1. A method of preparing surface-active aliphatic monocarboxylic acid-monoalkylol cyanamide condensation products which comprises heating together an aliphatic monocarboxylic acid having at least 4 carbon atoms with an aqueous solution of a monoalkylol cyanamide at temperatures within the range 80–100° C.

2,349,062
METHOD AND APPARATUS FOR GRAVELING WELLS
Lester Charles Uren, Berkeley, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 27, 1942, Serial No. 436,424
7 Claims. (Cl. 166—1)

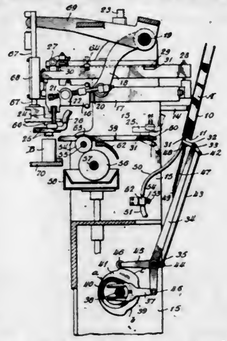


1. A method of placing granular material in a well cavity which comprises circulating a quantity of the granular material in a carrier fluid downwardly through a string of tubing and outwardly in a lateral direction into the cavity, simultaneously circulating a stream of liquid downwardly to the cavity through a second string of tubing, ejecting said liquid laterally into the cavity at a point below the entrance of the granular material and carrier fluid, so that the liquid will pick up detrital and foreign material and carry it upwardly to the surface with said carrier fluid through another string of tubing, the granular material settling into the cavity through said liquid, and maintaining the levels of ejection of the granular material and said liquid into the cavity slightly above the level of the deposited granular material while the cavity is being filled with the granular material.

2,349,063
MEANS FOR APPLYING CIRCULARS AND THEIR EQUIVALENT TO ARTICLES
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application August 14, 1941, Serial No. 406,811
14 Claims. (Cl. 216—55)

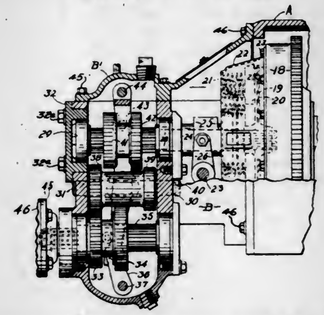
1. In an applying machine, the combination of a container for a supply of folded circulars

including external plies normally contituting loose flaps, means for removing circulars from said supply and for transferring the removed circulars into applying relation to articles for application thereto with said external plies facing said articles, means for applying adhesive to



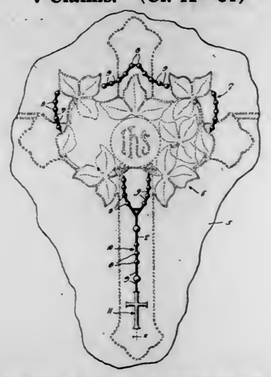
said circulars in a manner to include said external plies prior to the application of said circulars to said articles, and means effective approximately to the point of application for supporting the circulars from below to prevent sagging of said external plies during the transfer of said circulars to said point of application.

2,349,064
TRANSMISSION MECHANISM
Elverton W. Weaver, Cleveland Heights, Ohio, assignor to Towmotor Co., Cleveland, Ohio, a copartnership consisting of Lester M. Sears, Ruth P. Sears, Mary Ann Sears, and Anna L. Sears
Original application August 13, 1941, Serial No. 406,640. Divided and this application May 1, 1942, Serial No. 441,302
2 Claims. (Cl. 74—606)



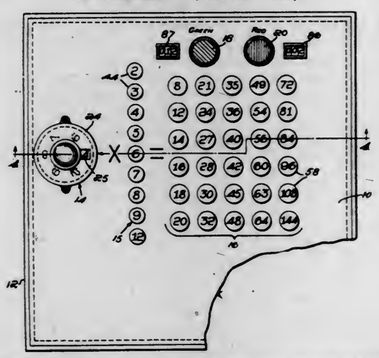
1. Transmission apparatus suitable for use in an industrial truck, the same comprising a flywheel, and a combined clutch and transmission housing including a body section secured to and extending from the flywheel housing and provided with a vertical end wall and a vertical wall located intermediately between the end wall and the flywheel, the said walls having aligned openings therein, a bearing in the opening of the intermediate wall, a bearing removably mounted in the opening of the end wall, a clutch shaft mounted in the said bearings and having transmission gears on the portion thereof intermediate of said bearings, a housing cover section removably secured to the body section, a clutch member on the said flywheel and a second clutch member cooperating with the first clutch member, both clutch members being located below the said housing cover section and the opening in the end wall being of greater diameter than the diameter of the transmission gears whereby the clutch shaft may be conveniently withdrawn from the said housing by removing the bearing from said opening and access may be had by the removal of the said housing cover section to the clutch members thereby to permit the ready removal of the same without detaching the transmission housing.

2,349,065
ORNAMENTATION
Ezra Louis White, Barre, Vt.
Application December 24, 1943, Serial No. 515,557
7 Claims. (Cl. 41—34)



1. The herein-described method of providing a stone memorial monument with a rosary design, which method consists in cutting the design in the surface of the stone so as to provide hemispherical pockets alternating with and connected by shallower narrow semi-cylindrical channels to form the necklace and pendant string of the design, and crossed channels to form the cross of the pendant, and filling said pockets and channels.

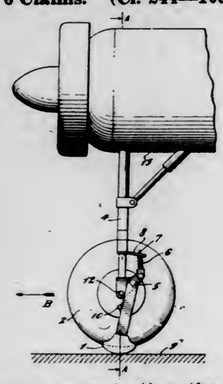
2,349,066
EDUCATIONAL DEVICE
Lawrie L. Witter, Auburndale, Mass.
Application August 26, 1942, Serial No. 456,173
10 Claims. (Cl. 35—22)



1. An electric circuit selector, comprising a body having an exposed surface, a plurality of groups of contacts on the surface, the groups being relatively spaced in one direction across the surface and the contacts in each group being

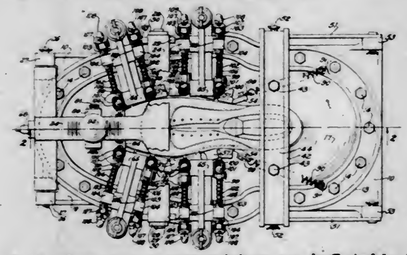
in alignment in another direction across the surface, means providing a series of electrical connections each connecting a contact in each group with a contact in each of the other groups, the contacts in each of said connections being out of alignment in said one direction, and a plurality of brushes arranged respectively to engage the contacts of the groups in sequence upon relative movement of the surface and brushes in said one direction.

2,349,067
PROTECTING DEVICE FOR LANDING WHEELS OF AIRCRAFT
Joseph Wright and Henry Trevaskis, Hampton Lane, Solihull, England, assignors to Dunlop Rubber Company Limited, London County, England, a British company
Application September 2, 1942, Serial No. 457,006
In Great Britain May 21, 1941
6 Claims. (Cl. 244—103)



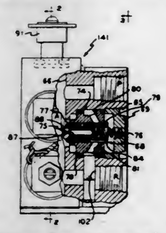
1. Apparatus for protecting the tires of aircraft landing wheels which comprises a shoe conforming to the tire and covering a short length of its perimeter, a pair of swinging arms at opposite sides of said tire to support and carry said shoe forwardly into position to engage said tire at its lowermost point and swinging rearwardly free of said tire and a spring toggle to press said arms to their forward and rearward positions.

2,349,068
SHOE PRESS
Fred Dawson, West Roxbury, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application October 9, 1942, Serial No. 461,431
36 Claims. (Cl. 12—33)



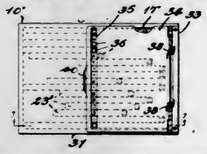
1. A shoe press comprising an inflatable sole pressing pad, a welt holddown, and means actuated by the inflation of said pad for causing said holddown to apply pressure to the welt of a shoe upon said pad.

2,349,069
HYDRAULIC PRESSURE CONTROL VALVE UNIT
Benjamin N. Ashton, Kingston, N. Y., assignor to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware
Application January 9, 1942, Serial No. 426,260
14 Claims. (Cl. 251—132)



1. In a hydraulic valve a poppet valve which is comprised of a hollow center seat member and a plunger which fits within the hollow center, said plunger also being provided with a hollow center, said seat member having drilled holes to permit the passage of fluid from end to end, also being formed to provide a peripheral groove and drilled between the groove and hollow center, said plunger being formed with a large conical head which abuts the valve seat member and a piston like body which fits the hollow center of the seat member and is also provided with an abutting point at the end of the plunger opposite the head end, the abutting point being provided with perforations communicating with the hollow center of the plunger to pass fluid therethrough, a spring mounted in the head of the plunger so that normally the valve head is held against the valve seat member, means to pass fluid under pressure from one side of the poppet valve and seal the fluid with the spring pressed plunger, means employing said perforations and hollow center under the control of the abutting point to pass fluid under pressure from one side of the poppet valve thereby to the opposite side through the open valve seat member to the hollow center of said seat member and on through the drilled holes to the peripheral groove of the seat member.

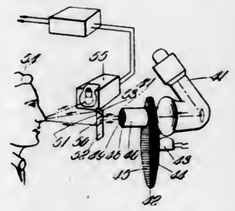
2,349,070
REGISTER DEVICE
Solomon Axelrod, Bronx, N. Y.
Application June 17, 1941, Serial No. 398,504
2 Claims. (Cl. 40—65)



1. A device of the character described consisting of a case body having a plurality of elongated slides arranged in longitudinal abutting relation movable therein and having an initial position at one part of the case, each having a series of characters in a given order thereon, and a corresponding respective series of characters for each slide on the case arranged in inverse order opposite the initial position of the slide, said slides having operating means at their ends adjacent the characters on the case, said case being constructed with a transverse slot to expose characters on all slides when moved from initial position, said operating means consisting of an opening in each

slide next the characters on the case, and each series of characters being arranged on the back material of the case in alignment with respective slides so as to be registered with said opening of the respective slide selectively, said case being open over the portion bearing said characters, and a hinged cover thereon movable to close said open portion, and having a slot thereacross arranged to expose one character on each of all the slides when the latter are moved from initial position.

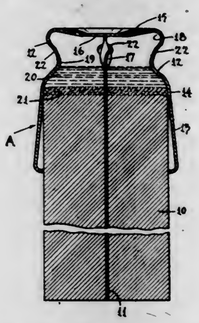
2,349,071
METHOD OF AND APPARATUS FOR PRODUCING IMAGES BY TELEVISION IN STEREOSCOPIC RELIEF
John Logie Baird, London, England
Application September 16, 1942, Serial No. 458,486
In Great Britain July 11, 1941
1 Claim. (Cl. 178—6.5)



In television apparatus means at the transmitter for scanning the object from two different positions spaced apart to correspond to left eye and right eye views respectively, a rotatable transparent disc having substantially one half of its area of one colour and the other half of a different colour, said disc being arranged so that the respective halves intercept the scanning light in sequence as the disc is rotated, a lens for focussing the light passing through the coloured disc on to the object, a second transparent disc having its respective halves coloured to correspond to the respective halves of the said rotatable disc, said disc being fixed in close proximity to the said lens between the same and the object with its respective halves covering the respective halves of the lens, a pair of mirrors arranged in close proximity to the fixed coloured disc between said disc and the object with their adjacent edges meeting on the line coinciding with the diametrical line dividing the colours in the fixed disc at right angles to the axis of the scanning beam of light projected by said lens, said mirrors facing outward at an angle to deflect the light to opposite sides, a second pair of mirrors arranged to receive the light from the respective mirrors of the first pair and direct it on to the object whereby the object will be exposed in sequence to light of one colour from one half of the aforesaid lens corresponding to a left eye view and to light of the other colour from the other half of the said lens corresponding to a right eye view.

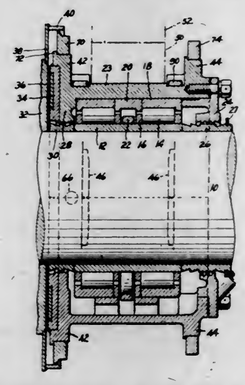
2,349,072
CANDLE FOLLOWER
Frederic Bormann, Ipswich, S. Dak.
Application March 25, 1943, Serial No. 480,475
4 Claims. (Cl. 67—21)

4. A unitary sleeve-like frusto-conical glass follower for a candle of relatively great diameter having a wick axially thereof, said follower comprising a neck and a skirt and a sealing portion therebetween, also a cap portion having a central port axially aligned with said wick for the escape of products of combustion from the flame of the lighted wick, said centrally ported cap portion annularly overreaching a substantial portion of the top of the candle inside of the innermost confines of the neck said follower serving to transfer heat from the flame to the perimeter of the candle and thus cause the formation of a uniformly deep pool of molten wax entirely across the top of the candle within the confines of the neck at the lower portion there-



of, producing a co-extensive underlying uniformly thin stratum of the semi-solid wax for perimetrical sealing contact with said sealing portion, whereby is provided an unvarying leakproof seal between the candle and follower, said neck having air inlet openings therein spaced about the same at the upper portion thereof, but substantially beneath the junction between said neck and cap portion, said inlet openings admitting combustion supporting air to the flame under restriction to induce slow-burning of the candle.

2,349,073
RAILWAY JOURNAL BOX
Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 14, 1943, Serial No. 472,345
3 Claims. (Cl. 105—79)



1. In a locomotive driving box, a pair of mating box sections, an axle journalled in the box, a wheel secured to the axle at one end of the box, a frame having pedestals at opposite sides

of the box, the pedestals being located so close to the wheel as to preclude adequate bolting together of the box sections in the intervening space, the box sections having arcuate flanges jointly forming a substantially continuous narrow circular flange projecting outwardly all around the box and passing through the narrow space between the pedestals and the wheel, those portions of the flanges at opposite sides of the box forming pedestal guides, and a holding ring surrounding the circular flange.

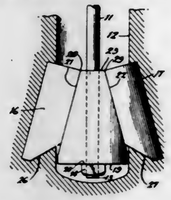
2,349,074
SANITARY SALES TUBE FOR DISPENSING ICE-CREAM CONES
Garry George Buttermann, Louisville, Ky.
Application February 8, 1940, Serial No. 317,961
1 Claim. (Cl. 206—56)



A sanitary sales-tube of the character described for packing and dispensing ice-cream cones, said tube being constructed of one piece of cardboard and having at the lower end thereof one integral uniformly tapered flap on the front side and one on the backside thereof; one integral square straight-edged flap on the right side, and one similar flap on the left side of said tube at the lower end thereof; equal notches cut in the edges of both said square flaps a certain distance from the lower ends thereof, for holding in their service position a plurality of endless thin rubber bands designed as a means for normally urging the four opposed flaps toward the axis of said tube to support the column of cones in said tube; an inverted generally V shaped scoring design on each one of said four flaps; and on a line bisecting said V at the lower part thereof a longitudinally-disposed open slit cut upward only a certain short distance from the lower end of each one of said four flaps, said short open slits and scoring designs being adapted to allow these integral lower end flaps to bend readily and hold the lower cone in said tube with a gentle, uniformly circular pressure, so that the cone will not be broken as it is drawn from said tube.

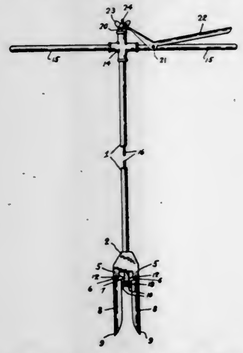
2,349,075
EXPANDING ANCHOR
Elmer K. Cole, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application January 30, 1943, Serial No. 474,082
3 Claims. (Cl. 189—92)

3. In an earth anchor, the combination of a guy rod provided with a lower threaded end and a threaded member carried by said end, with a substantially cylindrical wooden member having a pair of oppositely located plane beveled sides forming a wedge, said wooden member having an axially located bore receiving said guy rod, with a wing assembly comprising two wing portions joined by a frangible connection at the top, said connection being breakable by driving the wings against the wedge so that the wings spread into two separate parts, said assembly being slidably



mounted on said guy rod above said first wooden member, said wing assembly being formed in its lower surface with a pair of beveled surfaces engaging the upper corners of said first wooden member and adapted to initiate the spreading action of the parts of said wing assembly whereby tamping on the upper plane surface of said wing assembly causes it to spread into two parts, increasing the effective size and engagement of said anchor with the earth.

2,349,076
CURB BOX CLEANER
George Arend Cole, Waynesville, Ohio
Application July 26, 1943, Serial No. 496,202
2 Claims. (Cl. 294—115)



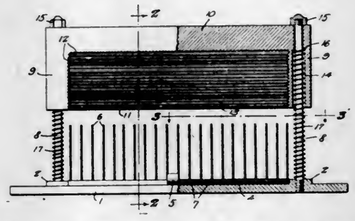
1. A tool of the character described comprising a tubular housing, a pair of coacting jaws pivotally mounted on one end of the housing, a pipe cross threadedly mounted on the other end portion of the housing, a pair of handles threadedly mounted on the cross, a bushing threadedly mounted on the cross in alignment with the tubular shaft, a rod slidable in the bushing, the cross and the tubular shaft and pivotally connected, at one end, to the jaws for actuating said jaws, a hand lever pivotally mounted on one of the handles, said lever having an opening in one end portion aligned with the bushing, the rod passing through said opening, a nut threaded on the rod and engaged with the lever for adjustably connecting the rod thereto for actuation thereby in one direction, a collar fixed on the rod within the cross, and a coil spring encircling the rod between the bushing and the collar for actuating said rod for opening the jaws.

2,349,077
FISHING POLE
Nicholas Comparelli, Philadelphia, Pa.
Application September 15, 1943, Serial No. 502,446
3 Claims. (Cl. 43—17)



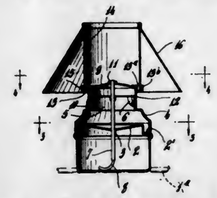
1. In a sectional fishing pole carrying a line, a tubular section formed with an aperture, a battery and bulb assembly substantially opposite to said aperture, and means for causing illumination of said bulb coincident with a tug on said line.

2,349,078
BUTTER CUTTING DEVICE
Theodore D. Crowley, Newark, and Benjamin C. Potter, Union, N. J.; Elsie Potter administratrix of said Benjamin C. Potter, deceased
Application August 11, 1942, Serial No. 454,428
4 Claims. (Cl. 31—7)



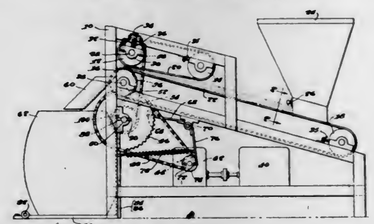
1. A cutting device for butter and the like, comprising a base, spaced parallel guide stems secured to and rising from the base, a pressing member including top, rear and end walls and an open front to provide a butter receiving chamber, said end walls being mounted on the stems for movement of the pressing member toward and away from the base, coil springs sleeved on the stems and bearing against the pressing member for normally holding the same elevated above the base, and cutting means removably mounted on the base and including a plurality of parallel equidistantly spaced blades arranged in the path of the pressing member to be received in the chamber for severing the butter into sections that remain between the blades.

2,349,079
COMBUSTION LAMP
Maria Luisa Trucco de Cazenave, Buenos Aires, Argentina
Application November 27, 1941, Serial No. 420,705
In Argentina November 30, 1940
4 Claims. (Cl. 67—53)



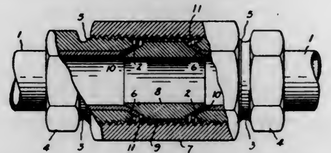
1. In a fuel burning lamp having a magazine or container for liquid fuel and a wick therefor, the combination of a concave top upon said magazine having the lowest part thereof located toward the center with a central opening therein, a generally round cover for said magazine fitted into the latter and having a top upon the upper end thereof and a wick tube projecting vertically through the center and extending down toward the central opening in the concave top of the magazine when the cover is in place thereon, a wick extending through said tube down into said magazine, a shield adjustably mounted upon and surrounding at least the upper portion of said wick tube with a central aperture for a flame upon said wick, there being additional orifices in said shield, and a ring or annular projection upon said shield for supporting a lamp chimney, shade or the like.

2,349,080
APPARATUS FOR COMPACTING POWDERED SOLID MATERIALS
Arthur D. Deck, Winchester, Mass., assignor to Wesco Waterpaints Incorporated, East Boston, Mass., a corporation of Massachusetts
Application December 14, 1940, Serial No. 370,147
7 Claims. (Cl. 100—35)



2. Apparatus for compacting powdered materials containing occluded or entrapped air or gas comprising a pair of pulleys, an endless belt extending over said pulleys, a second pair of pulleys, and a second endless belt extending over said second pair of pulleys, one of said belts overlying the other of said belts with the adjacent runs of the belts converging toward each other in their direction of travel, whereby to compress or compact the powdered material as it is conveyed therebetween, at least one of said belts having sufficient porosity to permit the passage therethrough of the air or gas occluded or entrapped in said powdered material for its full effective width but having insufficient porosity to allow the passage of said powdered material therethrough.

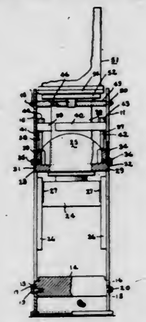
2,349,081
TUBE COUPLING
James L. Douglass, Cleveland Heights, Ohio
Application January 25, 1943, Serial No. 473,445
1 Claim. (Cl. 285—86)



A pipe coupling comprising a coupling sleeve having a bore of uniform diameter, and threaded from end to end, a pair of externally threaded clamping thimbles adapted to be screwed into

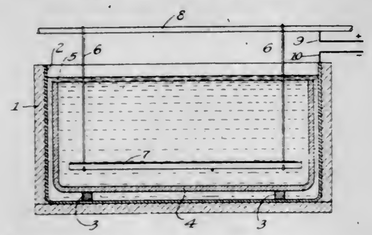
opposite ends of the sleeve, each thimble being adapted to slidably fit upon a pipe and having a flaring seat adapted to exteriorly engage a flared end of said pipe, and a tubular spacer adapted to be interposed between the ends of the pipes, said spacer having tapered seats at its ends adapted to interiorly engage the flared ends of the pipes and a body portion of an external diameter greater than that of the flared ends of the pipes but less than the internal diameter of the sleeve, whereby the coupling sleeve is free to move axially in either direction with respect to the spacer.

2,349,082
PRESS FRAME CONSTRUCTION
Walter Ernst, Ira B. Lawyer, and Bernard D. Ashbaugh, Mount Gilead, Ohio, assignors to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware
Application December 11, 1942, Serial No. 468,650
8 Claims. (Cl. 100—71)



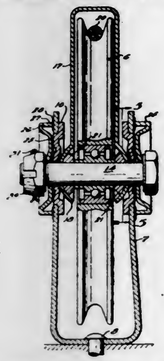
1. A press including, a pair of main supporting plates having aligned openings therein, a press head secured between said plates and having flanges engaging said openings in said plates to absorb the pressing thrust of said press, and means for continuously maintaining a unidirectional thrust of said flanges upon the edges of said openings during the complete cycle of operation of the press to prevent relative movement therebetween.

2,349,083
ELECTROLYTIC PROCESS FOR COATING ALUMINUM AND ALUMINUM ALLOYS
Michael Farr, Jr., Columbus, Ohio, assignor to The B. & T. Floor Company, Columbus, Ohio, a corporation of Ohio
Application May 13, 1940, Serial No. 334,763
4 Claims. (Cl. 204—58)



1. A process of producing on aluminum surfaces an electrolytic coating which comprises: making the aluminum to be coated an anode in an electrolyte containing about 10% by weight of sulphuric acid, surrounding the aluminum anode with an inner tank composed of a dielectric with said tank completely immersed in said electrolyte, supporting said inner tank within an outer tank comprising an electrical conductor in which the electrolyte is contained at a level above that of the inner tank, said outer tank forming the cathode connection of the electrolytic cell, applying to the electrolytic cell an electric current having a voltage of from six to twelve volts, maintaining the electrolyte at a temperature not in excess of 30° C., and continuing the application of said current for a period of approximately thirty minutes, said inner tank being located between the anode and the outer tank.

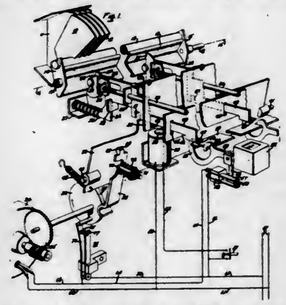
2,349,084
ADJUSTABLE BEARING MOUNTING
Howard J. Findley, Shaker Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 1, 1942, Serial No. 441,268
6 Claims. (Cl. 308—61)



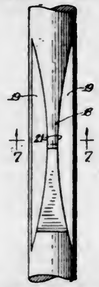
1. In an adjustable bearing for a non-rotatable shaft which mounts a part rotatable thereon, a base having spaced upstanding arms with tapered apertures therethrough, apertured bearings overlying the axially outer edges of the apertured arms of said base, a second set of apertured bearings having tapered flanges receivable in the axially inner edges of the tapered apertures of the arms of said base, eccentrically disposed apertures through each of said outer and inner bearings in line with the apertures in said base arms, and said shaft journalled in the eccentrically disposed apertures of said bearings and the apertures of said base arms and secured against rotation therein, whereby upon release of said non-rotatable shaft the eccentrically apertured bearings journalling the same may be rotated to displace the shaft and rotatable part thereon within the range of eccentricity provided.

2,349,085
TUNING ARRANGEMENT FOR SIGNALING SYSTEMS
Edward W. Forstrom, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application June 22, 1939, Serial No. 280,565
4 Claims. (Cl. 74—10)

1. The combination, in a tuning system, of a plurality of parallel members arranged for reciprocation longitudinally thereof, each member being arranged upon reciprocation to tune said system to a corresponding frequency, an actuator common to all of said members and having motion when actuated in a direction longitudinal of said members, a motor to drive said actuator, a plurality of keys, each key corresponding to one of said members, and a plurality of longitudinally reciprocating rocker members each positioned between a respective key and a corresponding one of said parallel members and arranged when moved longitudinally to engage the corresponding one of said first members to actuate it to tune said system, each key being arranged upon operation thereof to rock its corresponding rocker member into engagement with said actuator and to energize said motor, whereby said motor operates said actuator and drives said rocker member longitudinally of itself to engage one of said first members thereby to tune said system to a frequency corresponding to the actuated key.



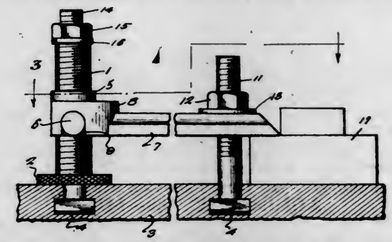
2,349,086
FELTING NEEDLE
Edson P. Foster, Manitowoc, Wis.
Application February 25, 1943, Serial No. 477,091
14 Claims. (Cl. 28—4)



1. As a new article of manufacture, a felting needle comprising a body provided with a recess therein, and a spur formed by downwardly directed side walls lying within the outline defined by said body, and an end wall extending transversely of the body intersecting said side walls forming a working surface for the spur extending inwardly of said body above said recess.

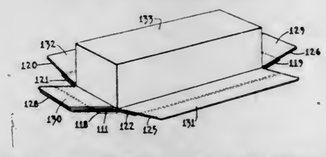
2,349,087
WORK CLAMP
John Hartley Fraser, Hamilton, Ontario, Canada
Application November 17, 1942, Serial No. 465,878
2 Claims. (Cl. 90—59)

1. A clamp for securing pieces of work in position on a metal working machine table, said clamp including a threaded post adapted to be mounted on the table, a nut threaded for adjustment on said post, pins projecting from the nut, a jaw engageable at one end with the work,



a yoke on the other end of the jaw straddling the nut and journaled on the pins, and a clamping bolt adapted to be mounted on the table and operatively connected to the jaw for tightening same on the work.

2,349,088
CARTON
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application May 13, 1940, Serial No. 334,749
1 Claim. (Cl. 229—23)



A carton comprising a sleeve having lateral walls and open at both the top and the bottom, said sleeve being weakened by perforations at all of the corners thereof to permit ready severance of the walls thereof, a closure having a bottom and lateral walls connected thereto, said walls being securely connected at the meeting edges thereof, said closure fitting over one open end of the tray and telescoping relative thereto, a liner within the sleeve and closure and open at the top to receive the substance to be packaged, said sleeve and closure forming a mold for the substance, the free ends of the liner being closed in upon the exposed surface of the substance, a tray comprising a bottom and lateral walls hingedly connected thereto, said walls terminating in free cut edges at the corners of the tray with the adjacent ends of said walls being disconnected at said corners, said tray fitting over the other open end of the sleeve and covering the folded-in free ends of the liner, said sleeve being of a height at least as great as the combined heights of the lateral walls of the closure and tray, the lateral walls of the tray being secured along the inner surfaces thereof to the contacting surfaces of the sleeve, said closure on filling of the carton forming a bottom for the carton and holding the sleeve in erect position, said tray after filling forming a cover for the carton, said tray upon inversion of the carton serving as a tray, the lateral walls, said sleeve and tray upon severance of the walls of the sleeve at the corners thereof folding downwardly into the plane of the bottom of the tray to expose the contents of the carton, the bottom of the tray serving as a cutting board for facilitating the

dispensing of the contents of the carton, said closure when the carton is inverted serving as a closure both before and after severance of the walls of the sleeve and holding the folded parts of the sleeve and tray in reclosing position.

2,349,089

STABILIZED DIAZONIUM DERIVATIVE OF PHTHALOCYANINE COMPOUNDS

Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 30, 1941, Serial No. 408,931. In Great Britain May 25, 1939
2 Claims. (Cl. 260—141)

1. A tetra-diazonium derivative of the phthalocyanine series, stabilized in solid form by salt formation with an aromatic sulfonic acid.

2,349,090

STABILIZED POLYDIAZO-PHTHALOCYANINES

Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 19, 1942, Serial No. 443,668. In Great Britain May 25, 1939
5 Claims. (Cl. 260—141)

1. A polydiazonium compound of the phthalocyanine series, stabilized in dry form by reaction with an inorganic compound selected from the group consisting of polyvalent-metal halides and fluoroboric acid, said polydiazonium compound being characterized by its solubility in water and its direct dissociation therein to liberate a phthalocyanine polydiazonium cation.

2,349,091

STABILIZED POLYDIAZO-PHTHALOCYANINES

Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Original application May 19, 1942, Serial No. 443,668. Divided and this application May 19, 1942, Serial No. 443,669. In Great Britain May 25, 1939
9 Claims. (Cl. 260—140)

1. A stabilized derivative of a polydiazonium compound of the phthalocyanine series, formed by reaction with a member of the group consisting of strong alkalis, amines containing water-solubilizing groups and capable of forming diazo-amino compounds, and sodium bisulfite; said derivative being characterized by its solubility in water without forming therein a diazonium cation.

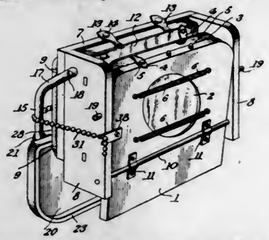
2,349,092

FOLDABLE SEATING DEVICE FOR CHILDREN

Nathan Hammer, New York, N. Y.

Application August 25, 1942, Serial No. 456,051
4 Claims. (Cl. 155—79)

1. A seating device for a child, comprising a seat member, a back rest for the seat member, side members extending forwardly from the back rest, eyebolts securing the side members to the back rest and having the eyes thereof bearing against the rear face of the back rest, inverted substantially U-shaped brackets for attaching the device to supporting means, each bracket including a long limb and a short limb, the long limbs being rotatably mounted in the eyes for swinging movement of the short limbs in a horizontal plane toward and away from the rear face of the back rest to adjust the brackets to fit supporting means of various thickness, a cap sleeve having a transverse bore through its lower end portion rotatably and detachably connected



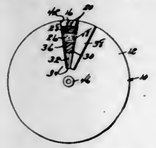
to the lower end of the short limb of each U-shaped bracket, a chain adapted to be extended between the cap sleeves of the bracket and through the bores thereof, and means for releasably fastening the chain in the bores of the cap sleeves.

2,349,093

MATCH PACKAGE

Nathan Hammer, New York, N. Y.

Application February 3, 1943, Serial No. 474,563
1 Claim. (Cl. 206—29)



In a match package, a pivot element, a pair of complementary front and rear cover disks of corresponding diameter, said disks being concentrically mounted to turn about said pivot, a match disk concentrically mounted on said pivot between and parallel with said cover disks, said match disk being of smaller diameter than the cover disks and slitted radially inward from its peripheral edge to form match sticks, the outer ends of the match sticks having striking heads, said front cover having a slit extending radially inward from its peripheral edge to a point short of its center with its inner end opening into a circumferential slit, said slits in conjunction with a radial fold line defining a flap which is adapted to swing outward along the fold line to provide an opening slightly wider than each match for individual removal of said matches.

2,349,094

FROTH FLOTATION

Thorbjørn Heilmann, Copenhagen, Denmark, assignor to Separation Process Company, Catasauqua, Pa., a corporation of Delaware

No Drawing. Application April 4, 1941, Serial No. 386,848. In Great Britain April 10, 1940
3 Claims. (Cl. 209—166)

1. In the flotation of lime-bearing minerals, the process of controlling the frothing action of collecting reagents which in water give surface active ions, and which comprise the products resulting from the reaction of the waste products remaining after the distillation of impure fatty acid oils produced in the refining of a member from the group consisting of animal and fixed vegetable oils and fats for the recovery of refined fatty acid, with a strong mineral acid,

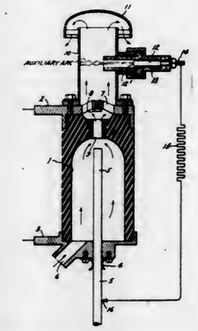
the compounds resulting from the sulphonation of such products and the compounds resulting from the saponification of such products, by using together with them hydrogen-saturated fatty acids of high molecular weight containing not less than 16 and not more than 18 carbon atoms.

2,349,095

ELECTRIC CIRCUIT BREAKER

John A. Henley, Sale, England, assignor to Metropolitan-Vickers Electrical Company Limited, a company of Great Britain

Application February 9, 1943, Serial No. 475,234
In Great Britain January 17, 1942
6 Claims. (Cl. 200—148)



1. An electric circuit breaker of the gas blast type comprising relatively movable interrupting contacts, means for directing a blast of interrupting gas through the arc formed upon separation of said contacts for interrupting the arc at a current zero, a resistance connected to one terminal of said breaker, an auxiliary electrode connected to said resistance and located in proximity to but spaced from conducting structure electrically connected to the opposite terminal of said breaker, and means forming a recess in communication only with the flow of exhaust gas from the interrupting arc, said auxiliary electrode being located a material distance within said recess so that an auxiliary arc can strike between said terminal conducting structure and said electrode for establishing a current shunt path through said resistance across said breaker terminals, said auxiliary arc in turn being interrupted and the circuit completely opened by said interrupting gas.

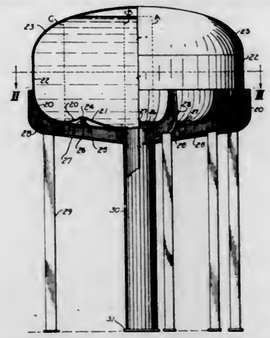
2,349,096

ELEVATED TANK

James O. Jackson, Crafton, Pa., assignor to Pittsburgh-Des Moines Company, a corporation of Pennsylvania

Application August 4, 1941, Serial No. 405,287
5 Claims. (Cl. 220—69)

1. A sheet metal tank comprising an upright portion, an arched roof portion and a composite bottom portion including a circular supporting member, at least two toroidal shells located in concentric relationship with the adjacent edges of two such shells secured to said support member and so formed and positioned with relation to each other that the load vertically above the first such shell and included between the lines of connection with said support and the lowest level of the first such shell multiplied by the co-tangent of the angle formed between two lines lying in a plane normal to such connection, one such line being horizontal and the other being tangent to said shell at the line of connection thereof to said support is substantially equal



to the product of the corresponding vertical load and the corresponding cotangent for the connection of the second curved bottom plate on the other side of said support.

2,349,097

SOCKET

Jeremiah D. Kennelly, Oak Park, Ill.

Application December 5, 1941, Serial No. 421,708
7 Claims. (Cl. 173—328)

4. In a structure of the character set forth, an outer shell having an end wall provided with arcuate openings adapted to receive the posts of a light bulb, spring-locking members carried by said wall for confining said posts, an inner shell rotatably supported within said outer shell and having an apertured rear wall, a pair of socket terminals extending through the apertures of said rear wall and aligned with the apertures of said end wall for receiving said light posts, a resilient body adjacent said inner shell and receiving said terminal sockets, a cable-supporting plate apertured to receive said terminal sockets, means confining said terminal sockets within said cable plate and resilient body, and means releasably locking said cable plate to said outer shell.

2,349,098

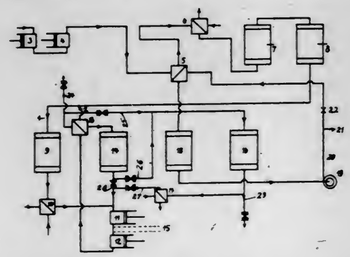
PROCESS OF ADSORBING GASES AND VAPORS

Siegfried Kiesskalt, Erich Kruta, Herbert Quednau, and Franz Patat, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian

Application January 3, 1941, Serial No. 373,012
In Germany January 27, 1940
5 Claims. (Cl. 183—114.2)

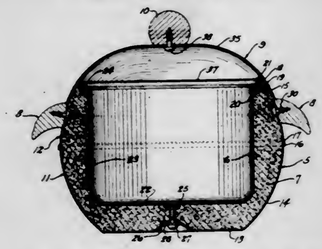
1. The method of removing desired constituents from a mixture of gases and vapors containing the same which comprises subjecting said

mixture to the steps of compression and cooling at least one of said steps being performed in a plurality of stages, withdrawing a portion of said mixture at an intermediate stage in said compression and cooling steps and flowing the same as a first current through a preliminary adsorption zone, wherein said desired constituents are removed from said mixture, withdrawing a current of residual gas freed of said desired constituents from said preliminary adsorption zone; flowing a second current of said mixture from the final stage of said compression and cooling steps through a secondary adsorption zone which has previously been saturated as a preliminary adsorption zone, whereby said secondary adsorption zone removes said desired constituents from



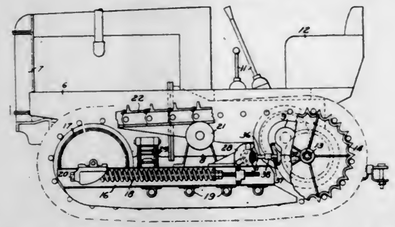
additional amounts of said mixture, withdrawing a current of residual gas freed of said desired constituents from said secondary adsorption zone, expanding said currents of residual gas in an expansion machine to thereby cool said gas and generate power, and flowing the thus cooled gas in heat exchange relation with said mixture in the cooling step specified, removing said desired constituent from said secondary adsorption zone when said constituent is no longer removed from said mixture therein, using said preliminary adsorption zone as a secondary adsorption zone when said desired constituent is no longer removed from said first current therein, and using said secondary adsorption zone as said preliminary adsorption zone after removal of said desired constituents therefrom.

2,349,099
SERVING BOWL
Ralph N. Kircher, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application May 19, 1941, Serial No. 394,182
1 Claim. (Cl. 220—15)



A serving bowl comprising a lower section having a bottom and an outwardly flaring upwardly extending bowl-like body portion, an upper section having an outwardly flaring downwardly extending bowl-like body portion and an integral gasket seat offset inwardly and downwardly from the upper rim of the body portion of said upper section, the upper edge of said lower section and the lower edge of said upper section being telescopically interfitted, means limiting the extent of said interfit, a soft sealing gasket positioned in and snugly engaged by said seat, said gasket having a top portion inclining inwardly and downwardly, an inner receptacle having a cylindrical body portion provided with a closed bottom and open top, an outturned flange around the margin of the top of said receptacle and having a top portion sloping inwardly and downwardly, said receptacle being positioned within said bowl with the top margin of said body portion being snugly engaged by said gasket and said flange being seated on said gasket so that the top portion of said gasket and the top of said flange form a drain to the interior of said inner receptacle, the sides and bottom of said receptacle being spaced from said sections and single threaded means extending between the bottom of said inner receptacle and the bottom of said lower section and adjustable from the exterior of said bowl to pull and maintain the inner receptacle in tight sealing engagement with said gasket and thereby to simultaneously clamp said upper section tightly to said lower section.

2,349,100
FINAL DRIVE CASING BRACE
John T. Liggett, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 23, 1942, Serial No. 435,797
5 Claims. (Cl. 305—9)

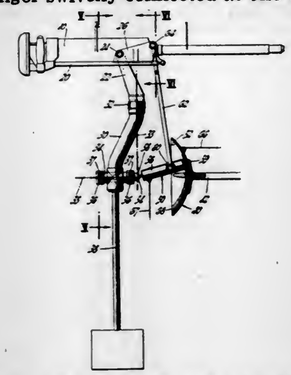


5. In a tractor of the crawler type, a main frame, a transmission casing mounted on said main frame, a track frame, an axle extending from said casing and forming a support for said track frame, a track supported on said track frame, a sprocket wheel for driving said track, a final drive casing extending from said main frame and forming a support for said sprocket, and a brace located in the space between said main frame and said sprocket and extending between said supports.

2,349,101
GUNFIRE CONTROL
Robert N. Lesnick, Brooklyn, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application April 7, 1941, Serial No. 387,245
8 Claims. (Cl. 89—37.5)

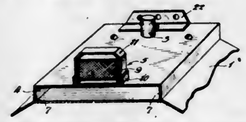
1. An aircraft, a gun adjustably mounted thereon for aiming purposes, said aircraft having a positionally fixed structure facing said gun under certain conditions of gun aim adjustment, said gun being mounted upon a shaft extending substantially toward said fixed structure, said shaft being rotatable about its longitudinal axis and said gun being pivotally mounted relative to said shaft about an axis intersecting said shaft

longitudinal axis and about another axis disposed transversely of said second mentioned axis, a tracer finger swivelly connected at one end to an



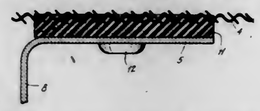
end portion of said shaft and extending therefrom toward said fixed structure, a templet fixed upon said aircraft and having an inner surface portion of spherical form engaging the free end of said finger in abutting relation and centered upon the position of intersection of said shaft longitudinal axis and said second mentioned axis, link means connecting at one of its ends with said gun at a position spaced from the axes of said pivotal mountings and connecting at the other of its ends with said finger at a position spaced from said swivel connection so as to cause said finger to move relative to said templet in accord with movements of said gun relative to the direction of said fixed structure, said templet being provided with complementing electrically conducting and electrically insulative surface portions contoured to correspond to the outline of said fixed structure as viewed from the position of said gun and adapted to register with said finger to provide in cooperation therewith electrical circuit make and break means arranged to control the firing of said gun.

2,349,102
LIGHTING FIXTURE CONSTRUCTION
Merton H. Levenberg, Chicago, Ill.
Application May 22, 1942, Serial No. 444,071
1 Claim. (Cl. 240—78)



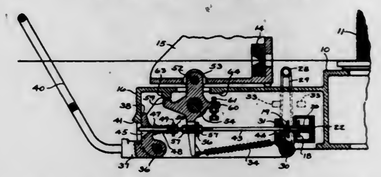
In a gaseous tube lighting construction, an elongated concave downwardly facing reflector member, sockets for supporting an elongated light tube in said reflector, an enclosed ballast unit, a housing hood member to and above which said ballast unit is secured in close juxtaposed relation having a plate-like portion extending underneath said ballast unit and spaced a substantial distance from said reflector member and a plate-like portion extending beyond said ballast unit and above said reflector member from said ballast unit to said sockets, spaced from the upper part of the reflector member and forming therewith and therebetween an enclosed wireway for the wiring between the ballast and sockets, said plate-like portions also forming an enclosed heat insulating space between said ballast unit and reflector member.

2,349,103
MEANS OF FLUSH FABRIC ATTACHMENT
Charles F. Marschner and Charles D. Johnson, Kirkwood, Mo., assignors to McDonnell Aircraft Corporation, Robertson, Mo., a corporation of Maryland
Application July 2, 1941, Serial No. 400,804
5 Claims. (Cl. 244—132)



1. An aircraft comprising a framework having a strip of solid preformed plastic mechanically secured to an outer surface thereof, a fabric mounted on said framework and bonding means independent of the securing means for said strip for bonding said fabric to said plastic strip.

2,349,104
WIRE-DRAWING MACHINE
Weld Morgan, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application August 29, 1941, Serial No. 408,765
13 Claims. (Cl. 205—16)

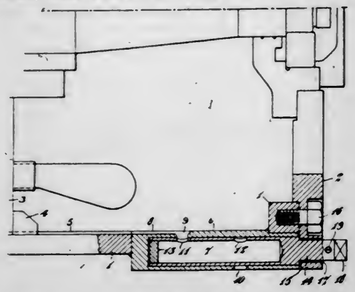


1. A wire drawing machine comprising a die, a rotatable block arranged to draw wire through the die, means supporting the die for a limited movement in the general direction of the wire travel therethrough, biasing means yieldably urging the die in a direction opposite to the direction of wire travel therethrough but with a force insufficient to overcome the pull of the wire leaving the die, a safety stop switch for the block, means to actuate the switch when the die is moved by the biasing means, a movable snarl loop in a position to be engaged by snarls in the wire approaching the die, a substantially horizontal safety bar located adjacent the die and movable transversely in a direction toward the block, and connections whereby both the snarl loop and the safety bar may actuate the stop switch independently of die movement.

2,349,105
FLAMEPROOF ELECTRIC MOTOR
Paul Alphonse Hubert Mossay, Norwich, England
Application June 5, 1943, Serial No. 489,871
In Great Britain June 1, 1942
4 Claims. (Cl. 172—36)

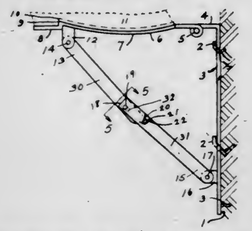
1. A flame-proof electric motor having a drain in the lower part thereof for the discharge of water of condensation accumulating in the motor casing, and a movable trap fitted in a housing adjacent to the motor drain, the trap being adapted, as it is moved in its housing from one position to another, alternately to receive water from the motor drain through a port in the housing and to deliver it through a delivery port in the housing, the trap and its housing being such that the port in the housing for receiving water from the motor is always closed when

the delivery port of the housing is open, and vice versa, and an uninterrupted connection be-



tween the interior and exterior of the motor through the trap is impossible in whatever position the trap may be left.

2,349,106
SHOE POLISHING APPARATUS
Joseph Mullan, Baltimore, Md.
Application December 15, 1941, Serial No. 422,931
1 Claim. (Cl. 15—265)



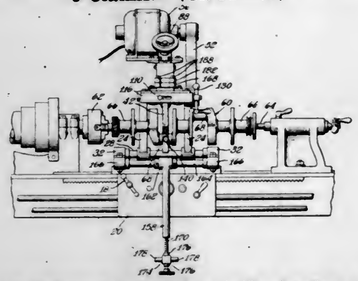
A shoe polishing holder of the class described for wall mounting, comprising in combination, a flat wall plate adapted for wall attachment with its upper end portion bent angularly thereto to extend at right angles to the wall and with its end formed into a hinge member, a shoe rest plate with its wall-approaching end formed into a hinge member and coacting with the first mentioned member so as to hinge therewith and with its outer end portion depressed to engage the heel of a shoe facing towards the wall and horizontally placed on the plate, the middle portion of the plate being shoe-formed and arcuately depressed to receive the sole of the shoe thereon spaced away from the first mentioned hinge member, a lip element extending downwardly from the plate inwardly from the shoe heel engaging portion, a brace section of flat material having one end portion pivoted to the said lip element and its other end portion formed into a ledge laterally bent and with a pin spaced away from the ledge and out of line therewith, another brace section composed of two parallel pieces of flat material having one end portion pivoted to the said wall plate adjacent but spaced away from the lower end thereof with its other end portion slotted to receive said pin slidably therein and permit the adjustment of the ledge therein to coact with the pin to lock the brace sections together into one rigid unit for supporting the rest plate underneath and braced from the wall plate, in position for shoe polishing, all of the said portions of the structure of the holder being arranged to permit the ready folding and closing of the same into a compact unit substantially as described.

2,349,107
CARTRIDGE CARRIER
Michael E. Murtaugh, Chicago, Ill.
Application December 10, 1942, Serial No. 468,537
1 Claim. (Cl. 224—14)



A waist belt carried cartridge holder comprising a sheet of flexible material, a strip of material stitched on three sides to the back of the sheet to form a cartridge-receiving upwardly opening pocket at one end of the sheet, a safety tab extending from the back of the pocket, said sheet being adapted to extend downwardly in front of the belt with the end of the sheet remote from the pocket end inserted under the belt and upwardly between the belt and the body of the belt wearer and extending over the open pocket, coacting fastening elements at the opposite ends of the sheet, said safety tab being adapted for disposition over the belt and downwardly between the belt and sheet to prevent accidental dumping of the pocket when the ends of the sheet are unfastened.

2,349,108
CRANKSHAFT GRINDER
William Howard Myers, Glasgow, Mont.
Application February 25, 1941, Serial No. 380,535
9 Claims. (Cl. 51—72)



1. In combination with a lathe having a carriage and means for supporting and rotating a crankshaft, oscillating links mounted on said carriage, a beam pivotally connected with said oscillating links intermediate its ends, a rotary grinding stone carried by said beam, an arm adjustably connected with said beam and having contacting faces engageable with a crank pin of the crankshaft, resilient means acting on said crank pin for holding said contacting surfaces in engagement with the crank pin to oscillate said links and said beam and move said grinding stone in conformity with the travel of the crank pin, a motor mounted on said beam in a position thereon to pivot the beam and the grinding element away from the crank pin and operatively connected with said grinding stone, and means acting on said arm and said beam for adjusting the arm relatively to the beam to position the grinding element in grinding proximity to the crank pin.

2,349,109
AUTO SAFETY BELT
David O'Keeffe, Buffalo, N. Y.
Application August 27, 1942, Serial No. 456,421
1 Claim. (Cl. 155—189)

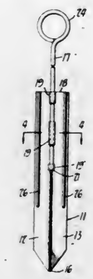
A safety device for a vehicle having a seat and frame members at each side of the seat,

comprising a disk adapted for connection with each frame member in a vertical position above the front top marginal portion of the seat, an annular series of teeth formed on the outer face of the disk, said disk being provided with an interiorly threaded transverse bore in its center, an arm pivotally connected with each disk for swinging movement in a plane parallel with the disk, said arm being arcuately curved at its inner end so as to assume a vertically depending position in front of the seat, the inner curved end of the arm having an opening registering



with the bore of the disk, a pivot pin extending through said opening and threadedly engaging the bore in the disk, a tubular casing projecting laterally outward of the arm in registration with an opening therein, a cylindrical pawl slidably mounted in the casing and engageable with the teeth of the disk, a stem secured to the pawl and extending outwardly of the casing for manually retracting said pawl, a spring in the casing bearing against the pawl to yieldingly maintain the latter in engagement with the teeth of the disk, and strap means attached to the outer ends of said arms.

2,349,110
GROUND STAKE
George Potstada, Oakland, Calif.
Application October 15, 1940, Serial No. 361,225
2 Claims. (Cl. 189—28)



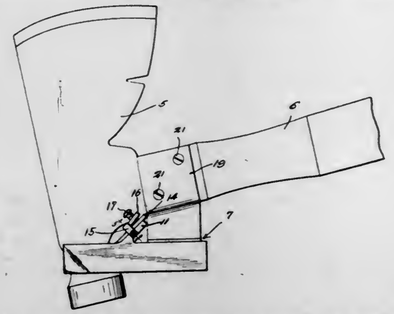
1. A ground stake comprising, an elongated strip of sheet metal formed to be completely embedded in the ground and being bent about the longitudinal center portion thereof to provide substantially right angularly related side portions intersecting said center portion, a plurality of longitudinally spaced ferrules extending from the upper end to substantially the middle of the strip and stamped out of said center portion for receipt of a rod, the lower of said ferrules having a closed end to seat the end of said rod, and the upper of said ferrules having its opposite ends open to permit the rod to extend completely through the ferrule, and the alternate ferrules being formed by depressing said center portion in opposite directions.

2,349,111
METHOD OF MAKING FLEXIBLE BAGS
Adolf Rambold, Dresden, Germany; vested in the Alien Property Custodian
Original application May 3, 1940, Serial No. 333,243. Divided and this application May 31, 1941, Serial No. 396,114. In Germany May 30, 1939
9 Claims. (Cl. 93—35)



2. A method of manufacturing a bag comprising folding a blank of material into substantially U-shape over a hollow core to form a smooth continuous bottom and opposed sidewalls, said bottom having portions thrust between adjacent end portions of the walls and positioned near the edge thereof, said end portions of the walls, together with the bottom added thereto, being folded over and over to form a self-closing seam, and then thrusting the bag thus formed through the hollow core so as to turn the bag inside out and dispose the seam on the inside of the bag.

2,349,112
PLANE ATTACHMENT
Joseph A. E. Romanoski, Huntington, N. Y.
Application December 22, 1942, Serial No. 469,832
1 Claim. (Cl. 7—8.1)

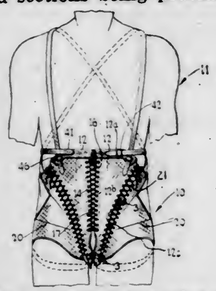


A plane for attachment to the front end of a tool handle comprising an elongated channeled work straddling body provided with a laterally flaring front end to prevent the plane from binding against the work, a flat top having a transverse blade accommodating slot therein substantially midway of the ends of the body, a blade backing lip integral with and inclining upwardly and rearwardly from said top in the rear of the slot, and means to attach the body to said handle to depend therefrom comprising a right angled plate having one leg secured to said flat top in the rear of said lip, and the other leg rising from one side of the body for attachment to said handle and curved edgewise to incline the body of the plane relative to the handle when attached.

2,349,113
COMBINATION GIRDLE AND HERNIA TRUSS
Julius Rosenzweig, New York, N. Y.
Application January 12, 1943, Serial No. 472,117
14 Claims. (Cl. 128—96)

1. An article of the character described, comprising a pair of sections, a gusset interconnect-

ing said sections, said gusset and the adjacent edges of said sections being provided with eye-



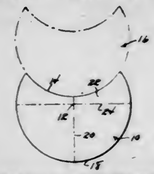
lets, lacing for said eyelets and a pressure pad within said gusset.

2,349,114
DOUBLE CORD FASTENER
Theodore Russell, Naugatuck, Conn.
Application November 21, 1942, Serial No. 466,453
14 Claims. (Cl. 24—136)



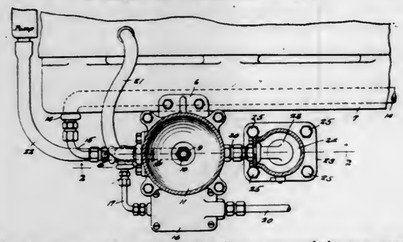
1. In a detachable cord fastener, a slide having an elongated base member provided with a pair of flat side wings bent at right angles thereto, each of said wings having a slot inclined to said base, said slots being parallel to each other, and a knurled wedging roller extending crosswise through said slots for automatically clamping a pair of parallel cords when the cord portions are pulled in one direction, said cords being unclamped when said wedging roller is pulled in the opposite direction.

2,349,115
FILTER BLANK
John M. Sanford, Terre Haute, Ind.
Application August 11, 1942, Serial No. 454,443
1 Claim. (Cl. 210—204)



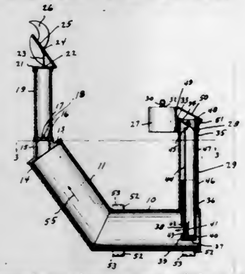
A filter comprising a substantially semicircular shaped filter paper having a flange extending from the straight edge thereof, the flange gradually increasing in width in both directions from the center line of the sheet and flange, the sheet and flange being folded upon said line, and the flange being folded onto the folded sheet to provide the filter when opened with a closure flap gradually increasing in width in an upward direction.

2,349,116
CHARGE FUMING DEVICE
Fred H. Sharar, Williamsport, Pa.
Application March 1, 1943, Serial No. 477,619
5 Claims. (Cl. 123—133)



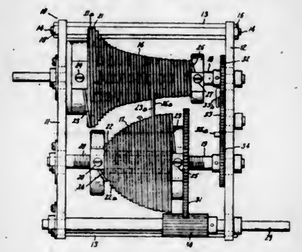
1. A charge forming device comprising a water chamber adapted to be secured to the exhaust manifold of an internal combustion engine, and through which hot water is circulated, a vertical coil mounted within the water chamber, means for delivering fuel to said coil, an air inlet pipe extending through the exhaust manifold of the engine, and adapted to feed heated air to said coil where the fuel is converted into fumes as it passes through the coil, a fume storage tank mounted on the water chamber, a pipe extending from the discharge end of the coil and adapted to discharge fumes into said fume storage tank, a mixing chamber adapted to be secured to the intake manifold of the internal combustion engine, and being in communication therewith, a pipe leading from said fume storage tank and adapted to supply fumes to the mixing chamber in the path of travel of air passing into the mixing chamber, mixing with the air providing a higher combustible fuel mixture.

2,349,117
CONVERTIBLE COAL AND OIL BURNER
Claude Siebring, George, Iowa
Substituted for abandoned application Serial No. 270,362, April 27, 1939. This application February 10, 1943, Serial No. 475,593
1 Claim. (Cl. 126—360)



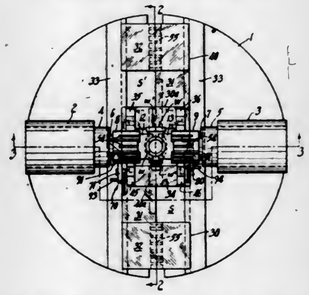
A fuel burning stove comprising a horizontal combustion chamber, vertical flues connected at the ends thereof, one of said flues including a cylindrical casing suspended therein, means for supporting said cylindrical casing from said flue, said casing having a forward opening communicating with said combustion chamber, said casing including a closed bottom for receiving wick material therein, a spade member having a plurality of openings adapted to rest upon said wick material, a vertical rod attached to the spade member to allow removal thereof, the other of said flues including a lengthened stack extension, the upper ends of both flues having openings of equal diameter so that either will fit said extension.

2,349,118
FUNCTION CAM
William Simpson, Schnectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 15, 1943, Serial No. 479,189
7 Claims. (Cl. 74—393)



1. A function cam comprising a driving spool and a driven spool, said spools having surfaces generated by the revolutions of predetermined curves, and said surfaces further being provided with threaded slots, and flexible cords wound in said slots respectively but in the reverse sense, and said cords having their ends connected to the two spools respectively so that the cords constitute a positive driving connection means between said driving and driven spools.

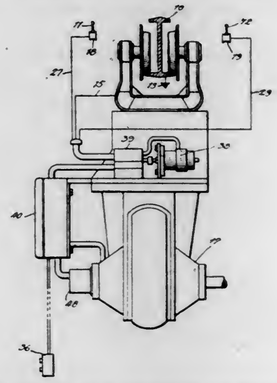
2,349,119
INDEXING CHUCK
George M. Soule, Medina, Ohio, assignor of one-half to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio, and one-half to Fred Hunziker, Cleveland, Ohio
Application May 24, 1943, Serial No. 488,171
19 Claims. (Cl. 279—5)



1. An indexing chuck comprising a rotary head provided with work supporting means indexable on an axis extending at right angles to the rotational axis of the head, and two parallel slides movable simultaneously relatively outwardly and inwardly across one main face of the head one being arranged to index the work supporting means and to lock the same against rotation after indexing.

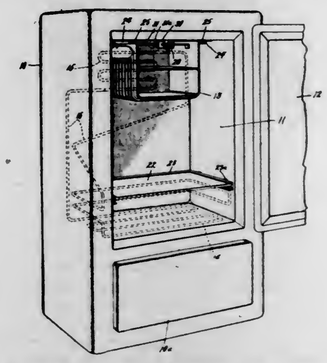
2,349,120
MONORAIL CONTROL SYSTEM
Ralph W. Spafford, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a corporation of Iowa
Application January 16, 1943, Serial No. 472,561
4 Claims. (Cl. 212—132)

1. In a monorail conveyor system of the type having a trolley operable on a track and energizable from bus bars which extend along the track and form two conductors of a polyphase alternating current system, said trolley including collector contacts respectively engaging said bus bars and adapted to engage said bus bars in reverse phase relation when said trolley is turned around on said track, the combination of a polyphase alternating current motor on said trolley, a reversing switch operable between two positions selectively to connect said motor to said collector contacts for operation in either of two directions, control means in circuit with said



reversing switch and operable between two positions for selectively energizing said reversing switch to operate said switch between said two switch positions, and a reverse phase relay energizable from said collector contacts for automatically changing the circuit connections between said control means and said reversing switch when said collector contacts are turned around, whereby operation of said control means between its said two positions effects operation of said motor in corresponding directions regardless of the phase relation of said collector contacts.

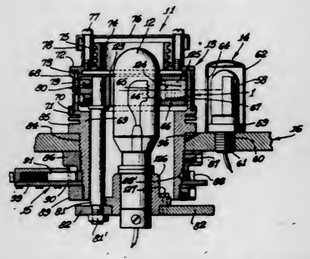
2,349,121
REFRIGERATOR
Christian Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 30, 1940, Serial No. 326,919
8 Claims. (Cl. 62—99)



1. A refrigerator comprising a cabinet having a food storage compartment, a primary refrig-

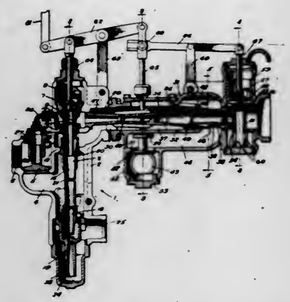
erating system including a cooling element located in one region of said compartment, a secondary refrigerating system comprising a cooling portion constructed and arranged for cooling another region of said compartment and a condensing portion located in the vicinity of said cooling element, said condensing portion and said cooling element being arranged for relative movement therebetween for varying the distance between said cooling element and said condensing portion to change the relative effect produced thereon by said cooling element.

2,349,122
SOUND FILM APPARATUS
Leo R. Streeter, Los Angeles, Calif.
Application October 9, 1942, Serial No. 461,504
1 Claim. (Cl. 88—24)



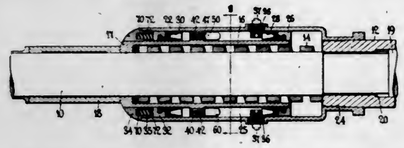
A lens assembly comprising the combination of a support, a lamp socket secured to said support, a post arising from said support at one side of said socket, said post extending to a position adjacent the filament of the lamp for said socket, a ring coil with said socket and having a central opening to receive the lamp, means for securing said ring to said post at one side of the lamp, and a lens assembly carried by said ring at the other side of the lamp.

2,349,123
STEAM INJECTOR
Walter Howard Tinker, Boston, Mass.
Application June 18, 1942, Serial No. 447,579
17 Claims. (Cl. 103—265)



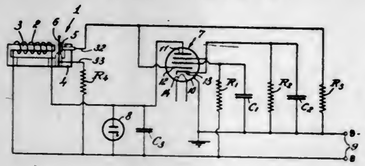
1. Steam injector comprising a main venturi having live steam jet producing means at its anterior end and water entraining means operatively related to said steam jet producing means, a conduit from a water supply leading directly to said entraining means, a branch conduit from said water supply to said main Venturi entraining means comprising an auxiliary venturi having exhaust steam jet producing means at its anterior end and a pressure nozzle at its posterior end communicating directly with said main Venturi entraining means, said nozzle venturi having water entraining means operatively related to said exhaust steam jet producing means in communication with said conduit, whereby, when exhaust steam is operating said auxiliary venturi, the latter by-passes a portion of the water from said water supply to said main venturi to the extent of the capacity of said auxiliary Venturi entraining means, at constant volume, temperature and pressure for a given head of exhaust steam.

2,349,124
ORDNANCE
John C. Trotter, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application February 9, 1942, Serial No. 429,987
7 Claims. (Cl. 89—43)



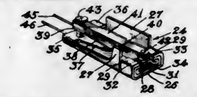
1. A gun recoil control device for use in combination with a gun portion reciprocable relative to a gun support portion in response to recoil forces of said gun, said device comprising a primary recoil force resisting spring interconnecting said movable gun portion and said gun support portion to elastically resist gun recoil forces and to urge said movable gun portion into normal position relative to said support portion, a tube carried by said movable portion, a sleeve carried by said gun support portion to extend telescopically of said tube and enclosing the latter in concentrically spaced relation therewith to provide a fluid chamber therebetween, a pair of chamber sealing glands disposed at opposite ends of said chamber and carried by said sleeve, a valve gland carried by said tube intermediately of the ends of said chamber to provide a partition dividing said chamber into two sections, check valve means carried by said valve gland for restricting flow of fluid through said gland to and from opposite sections of said chamber, and means adjustably mounting one of said sealing glands upon said sleeve so that said gland is elastically urged to slide longitudinally of said sleeve to automatically reduce the length of said fluid chamber in accord with leakage of fluid therefrom.

2,349,125
ELECTROMECHANICAL VIBRATOR SYSTEM
Frank T. Turner, Brooklyn, N. Y., assignor to King Features Syndicate, Inc., New York, N. Y., a corporation of New York
Application November 30, 1942, Serial No. 467,471
7 Claims. (Cl. 88—61)



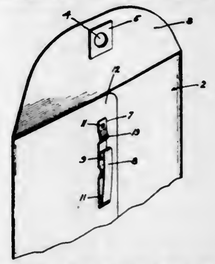
1. A vibrator unit including in combination: a closed magnetic circuit comprising in series an electromagnet core, a magnetic field source, magnetic means supporting said core and magnetically coupling said core to said field source, and a vibrating reed of magnetic material positioned to magnetically couple said field source to said core, said reed being fixed at one end and having a first flexible portion spaced at vibrating distance from a face of said core; a condenser electrode positioned in electrostatic spacial relation to a second flexible portion of said reed, means for adjusting the spacing between said face and said first portion of said reed, and means for adjusting the spacing between said electrode and said second portion of said reed.

2,349,126
THERMOSTATIC ELEMENT
David W. Abernathy, Chicago, Ill., assignor to Products Development, Inc., Chicago, Ill., a corporation of Illinois
Application June 9, 1942, Serial No. 446,332
3 Claims. (Cl. 200—138)



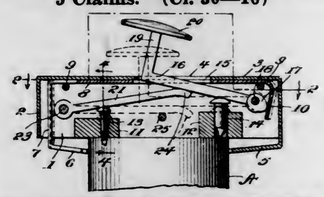
1. A thermostatic switch adapted to open an electrical circuit at a predetermined temperature, comprising a base member, a resilient fixed contact supporting member attached to said base at one end thereof and having a contact provided thereon, resilient movable contact supporting means attached to the base member at the opposite end thereof and comprising a strip bent upon itself to form a substantially U-shaped spring, one end thereof being fixed to the base member, a bi-metal strip and a resilient contact carrying strip having a contact on the free end thereof for engagement with said fixed contact, the end of said bi-metal strip being connected to the second end of said spring, whereby said spring may control the pressure between the contacts.

2,349,127
ENVELOPE CLASP
Eugene F. Ahlquist, Minneapolis, Minn., assignor to Quality Park Envelope Company, St. Paul, Minn., a corporation of Minnesota
Application August 28, 1941, Serial No. 408,626
3 Claims. (Cl. 229—78)



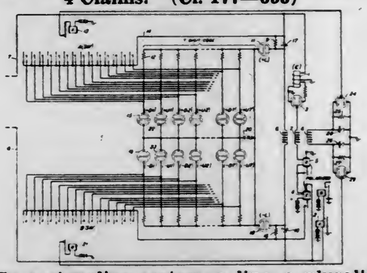
1. An envelope having a flap and a clasp therefor, said clasp being formed from a piece of strap metal bent upon itself to provide a base portion and a resilient tongue which overlies the base, raised ribs formed in the intermediate portion of said base and disposed transversely thereof and spaced apart lengthwise of the base to provide a relatively wide gap therebetween, an inwardly facing hook formed at the free end of the tongue and disposed between said ribs and resiliently held in contact with said base portion, said flap having a preformed aperture therein for receiving the hook, said hook constantly engaging the base when in flap-securing position, and said ribs supporting the envelope flap in spaced relation to the base whereby it cannot accidentally become disengaged from the hook when in closed position.

2,349,128
CAN PUNCHING DEVICE
John M. Akers, Charleston, W. Va.
Application July 29, 1943, Serial No. 496,651
5 Claims. (Cl. 30—16)



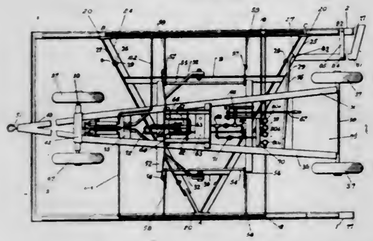
1. A can punching device comprising a casing, a pair of blocks secured within the casing in spaced relation to each other, penetrating means mounted for slidable movement through the blocks, handled means associated with the penetrating means for moving the same to penetrating position, and clamping means included in the device and having the handled means associated therewith for moving the same in engagement with the can simultaneously with the movement of the penetrating means to piercing position.

2,349,129
DIALING SYSTEM
Walter P. Albert, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1942, Serial No. 449,257
4 Claims. (Cl. 177—353)



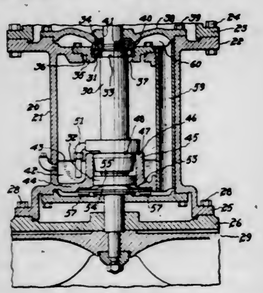
1. In a signaling system, a line, a plurality of differently poled varistors at one end of said line, a plurality of keys thereat, each said key having means constructed and arranged on its operating stroke to transiently open said line circuit and to then selectively insert therein said varistors in one combination and on its return stroke to transiently open said line circuit and to then selectively insert therein said varistors in the same or another combination, and means at the other end of said line responsive to an open circuit condition established at said one end to transmit testing current to said one end for determining the presence and polarity of said selectively inserted varistors and to register at said other end the nature of the connection established by the said selective insertion of said varistors in said line, said means responding to both the operating and return stroke operations of said keys.

2,349,130
ROAD SURFACING MACHINE
Morris F. Allen, Canton, Ohio
Application March 18, 1937, Serial No. 131,695
Renewed August 4, 1940
20 Claims. (Cl. 37—150)



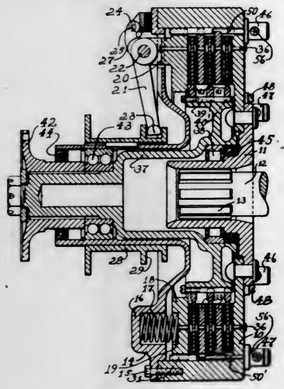
18. In an earth-working machine having a frame supported from the ground through ground-engaging elements and a vertically adjustable earth-working implement carried by said frame, mechanism for raising and lowering said implement, two independently operable control devices for said mechanism, said mechanism at all times being responsive to joint control by said two control devices, one of said control devices being manually operable to establish a normal elevation for said implement relative to said ground-engaging elements and the other being responsive to rearward earth-reaction on said implement as the machine moves over the ground to raise the implement from such normal elevation when such earth-reaction exceeds a predetermined value and to return it to its normal elevation when the earth-reaction is below such predetermined value, said last mentioned control device comprising a draft element through which draft-effort resulting from earth-reaction on said implement is transmitted, said draft element being longitudinally movable relative to said frame, yielding means resiliently urging said draft element rearwardly of said frame, and an abutment limiting rearward draft-element movement under the influence of said yielding means.

2,349,131
OILING DEVICE
James H. Anderson, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application April 20, 1943, Serial No. 483,732
6 Claims. (Cl. 308—134.1)



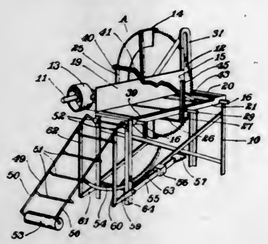
1. An oiling device, comprising a casing having a passageway in the form of a Venturi tube and said passageway having an annular outlet, means for delivering oil into the throat of the passageway, a shaft in the casing, bearing means for the shaft, and rotary pump means to pump air through the passageway for admixtion with the oil and to deliver such air and oil to the bearing means.

2.349,132
CLUTCH
Donald A. Baird, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 27, 1942, Serial No. 432,567
7 Claims. (Cl. 192—111)



1. In a clutch having a driving disc and a driven disc, means for engaging and disengaging said discs; means operably associated with one of said discs for separating it from the other disc in response to operation of said disengaging means comprising a rod disposed in engagement with said one disc; resilient means surrounding said rod for urging the latter in the direction tending to separate said discs; and abutment means for said resilient means carried by said rod and shiftable relative thereto as an incident to engagement of said discs for adjustably predetermining the movement of said rod.

2,349,133
CIRCULAR SAW DEVICE
Roy H. Benton, South St. Paul, Minn.
Application September 5, 1942, Serial No. 457,430
9 Claims. (Cl. 143—48)

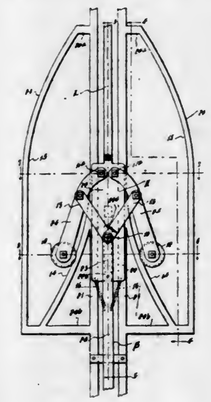


9. A circular saw device comprising a circular saw, a table movable transversely toward or away from said saw, a track mounted longitudinally of said table, and lever means engageable with material on the table to lift the same and move the same longitudinally, said lever means including roller means engageable with said track.

2,349,134
ETHYL CELLULOSE MOLDING COMPOSITION
Russell R. Bradshaw, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 31, 1940, Serial No. 348,836
6 Claims. (Cl. 106—196)

1. A molding lubricant for use with ethyl cellulose plastics consisting essentially of from about 10 to about 75 per cent by weight of paraffin wax and correspondingly from about 90 to about 25 per cent of a blending agent comprising a major proportion of a paraffin soluble resin and 12-hydroxy stearin.

2,349,135
MOTION-TRANSMITTING MECHANISM
Bryan Brassell, Puerto de Luna, N. Mex.
Application July 16, 1941, Serial No. 402,652
14 Claims. (Cl. 103—205)

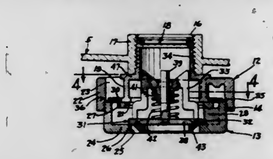


1. In motion transmitting mechanism, a reciprocatory drive member, a power source operative to provide and control the timing and length of reciprocation of such drive member, a reciprocatory driven member in general alinement with the drive member, and a leverage unit operatively connecting the reciprocatory drive and driven members, said unit having a direct drive connection with such drive member to thereby bodily reciprocate the unit in synchronism with the drive member and having direct connection with the driven member to thereby drive the latter, said unit including means operative to vary the drive relation between the members by varying the leverage angularity of lever elements to thereby control the movement of the driven member, said drive and driven members and said unit being co-related in operation to provide the following sequence of reactions by the driven member to the reciprocation movements of the drive member: during approach of the drive member to its extremes of reciprocation the driven member approach to its extreme of reciprocation is concurrent therewith and at a definite speed ratio thereto; during the succeeding change in direction of stroke of the drive member, the beginning of the stroke of the driven member is delayed with respect to the beginning of the drive member stroke to permit dissipation of kinetic energy of the driven member; then begin the driven member stroke under the conditions of a predetermined percentage speed ratio relation with the drive member; and thereafter completing the driven member stroke by varying the speed ratio between the drive and driven members until the ratio becomes that of the approach period.

2,349,136
POLYMERIZATION OF VINYL AROMATIC COMPOUNDS
Edgar C. Britton and Walter J. Le Fevre, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 18, 1942, Serial No. 439,564
10 Claims. (Cl. 260—91)

1. In a method wherein a polymerizable organic liquid comprising a vinyl aromatic compound is polymerized, the step which consists in carrying out the polymerization in the presence of mesityl oxide, whereby a polymeric product is formed which is of lower molecular weight than is obtainable when the polymerization is carried out in the absence of mesityl oxide under otherwise similar conditions.

2,349,137
SAFETY VALVE FOR TANKS
Walter V. Brown, Minneapolis, Minn., assignor to Brown Steel Tank Company, Minneapolis, Minn., a corporation of Minnesota
Application February 12, 1942, Serial No. 430,626
2 Claims. (Cl. 277—61)



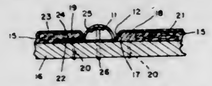
1. In a safety valve of the class described, a body composed of upper and lower portions, the upper portion having an exteriorly threaded extension adapted to be received in threaded engagement with a wall of a tank, a passage in said extension for establishing communication between the atmosphere and the interior of the valve body, the lower portion of the valve body being secured to the upper portion thereof and cooperating therewith to provide the completed valve body, the upper body portion having an interior wall spaced inwardly from the outer wall thereof and cooperating therewith to provide an annular valve chamber which is open to the exterior of the valve body, an annulus in the lower body portion having its upper face abuttingly engaging the bottom face of said interior wall and offset with respect thereto, thereby to provide an upwardly facing valve seat, located within said annular valve chamber, and a downwardly facing valve seat located within the central portion of the valve body, a ring-like valve member in said annular valve chamber engaging said upwardly facing valve seat to normally shut off communication between the interior of the tank and the interior of the valve body, said lower body portion having a central opening in its lower wall surrounded by an annular valve seat axially aligned with said downwardly facing valve seat and spaced therefrom, a breather exhaust valve normally engaging said annular valve seat

and movable into engagement with said downwardly facing valve seat by pressure within the tank, thereby to prevent liquid flow from the tank, and an emergency pressure release valve carried by said breather exhaust valve adapted to be opened by excessive pressure within the tank, subsequent to the breather exhaust valve engaging said downwardly facing valve seat, thereby to automatically release excessive pressure from the tank which may be caused by expansion of the liquid therein.

2,349,138
PREPARATION OF PECTIC ACID
Edwin F. Bryant, Corona, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
No Drawing. Application March 1, 1941, Serial No. 381,409
7 Claims. (Cl. 260—209.5)

7. A process for the preparation of pectic acid from a pectin-metal composition comprising first reacting the said pectin-metal composition in substantially non-hydrated form with a basic substance to convert the said pectin-metal composition to a substantially non-hydrated pectate and then reacting said pectate with an acid to form substantially non-hydrated pectic acid.

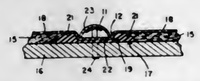
2,349,139
TRIM PANEL
Edward P. Bolen and Edward R. Detrick, Detroit, Mich., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Original application June 16, 1941, Serial No. 398,324. Divided and this application November 30, 1942, Serial No. 467,406
13 Claims. (Cl. 45—138)



2. A trim panel having a panel board, padding material spaced apart on said panel board and cooperating therewith to provide an outwardly opening recess, riser elements within said recess at opposite sides thereof, trim fabric extending over the padding material and riser element at one side of said recess and having a portion upon the bottom of said recess, trim fabric extending over the padding material and riser element at the other side of said recess and having a portion folded around the inner edge of the last mentioned riser element and overlying the portion aforesaid of the first mentioned fabric, means securing the last mentioned riser element and fabric portions to the panel board, and molding within said recess upon the first mentioned fabric portion and secured to the panel board.

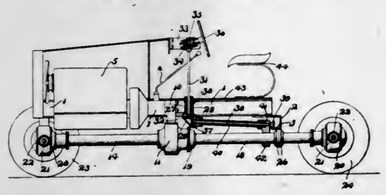
2,349,140
TRIM PANEL
Edward P. Bolen and Edward R. Detrick, Detroit, Mich., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Original application June 16, 1941, Serial No. 398,324. Divided and this application November 30, 1942, Serial No. 467,407
3 Claims. (Cl. 45—138)

1. A trim panel having a panel board, padding material spaced apart on said panel board and cooperating therewith to provide an outwardly opening channel shaped recess, a formed strip of plastic material within and extending longitudinally of said recess, said strip having a thin flat base in surface to surface relation with the bottom of said recess and having at opposite longitudinal side edges of said base relatively thick riser portions cooperating with the flat base to provide an outwardly opening channel, the riser portions being at opposite sides of the recess aforesaid and substantially flush with the outer surface of the padding material, a single trim fabric extending over the padding material up-



on opposite sides of said recess and extending over said riser portions, said trim fabric having a depressed portion within said channel in surface to surface relation with the bottom and sides thereof, an arched molding strip within said channel opening toward and having its longitudinal side edges bearing against the depressed portion of the trim fabric adjacent the riser portions, and attaching means for the molding strip fixed to the underside thereof and extending through the depressed portion of the fabric and the base of the formed strip and anchored to the panel board.

2,349,141
TRACTOR
Leon Champion, Marne, Mich.
Application June 4, 1942, Serial No. 445,710
10 Claims. (Cl. 180—50)

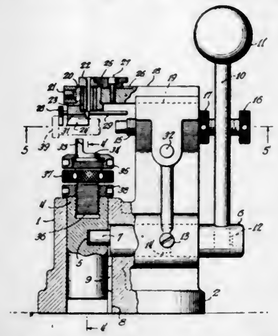


1. In a tractor, front and rear driven axles with wheels thereon, alined front and rear propeller shafts for driving said axles, a universal joint connecting said propeller shafts, a frame connected in rigid relationship with the front propeller shaft, steering means having a pivotal mount on said frame and extending to and connected with the rear propeller shaft including a vertical shaft adapted to be manually turned, the axis of which is in vertical alinement with the center of said universal joint, a second shaft driven by the vertical shaft provided at its rear end with gearing connection with said frame, and means holding said second shaft against swinging movement with respect to the rear propeller shaft, for the purposes specified.

2,349,142
DRILL JIG
Harry Nels Christenson, Racine, Wis., assignor to Racine Screw Works, Racine, Wis., a corporation of Wisconsin
Application March 14, 1942, Serial No. 434,699
4 Claims. (Cl. 77—62)

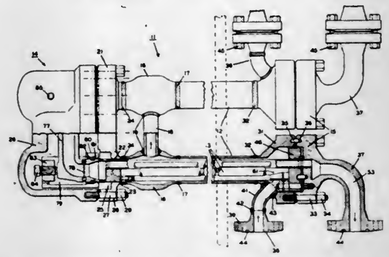
1. A drill jig comprising a body portion having an overhanging upper part provided with means for the reception of a plurality of interchangeable drill guiding bushings, means for

clamping a drill guiding bushing to said overhanging portion, a work positioning member carried by said overhanging portion and having a work engaging surface directed downwardly, whereby chips from drilling will not collect on said work engaging surface, reciprocable clamping means for engaging the under portion of the work and holding the work clamped to the under



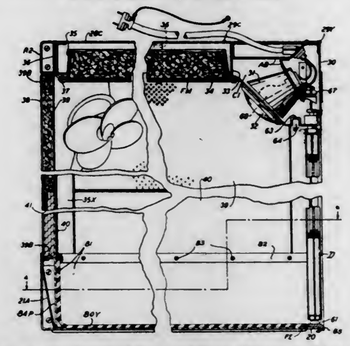
surface of said work positioning member, said work positioning member including means for positively positioning the work and preventing lateral shifting of the work, means for moving said clamping means into and out of clamping engagement with the under side of the work, and separate means for adjusting the initial position of said clamping means to accommodate work of different sizes.

2,349,143
HEAT EXCHANGER
Stanley J. Chute, Ridgewood, N. J., and Herman F. Buschow, Flushing, N. Y., assignors to The M. W. Kellogg Co., New York, N. Y., a corporation of Delaware
Application July 17, 1940, Serial No. 345,888
3 Claims. (Cl. 257—234)



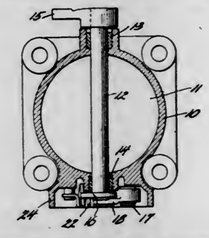
1. In a heat exchanger, a nest of tubes; a shell encasing said nest of tubes; a connecter attached to the end of said shell, said connecter having a diaphragm integral therewith extending across the end adjacent said shell provided with a plurality of passages corresponding to said tubes and replaceable linings within said plurality of passages; a tube-sheet having partly threaded tube holes, the ends of said tubes being expanded within the threaded portions thereof; and annuli of deposited weld metal uniting the ends of said tubes to said tube-sheet and lining the remaining portions of said tube holes; said tube-sheet being secured within said shell to said connecter with said tube-nest passages and said diaphragm passages joined in fluid-tight connection.

2,349,144
TELEPHONE BOOTH
Frank S. Corso, Beechhurst, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 4, 1941, Serial No. 421,561
6 Claims. (Cl. 189—2)



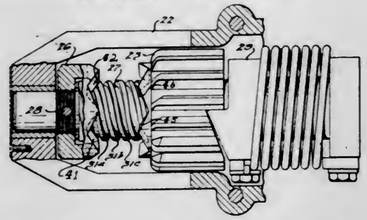
1. A telephone booth comprising a base having upwardly extending flanges at three sides thereof metallic plates secured to said base and said flanges diagonally thereof for reenforcing said flanges, a plurality of corner posts, a plurality of means for securing said corner posts at their lower ends to said base and said flanges, two side walls and a rear wall for said booth, means formed with said metallic plates for supporting said rear wall and said side walls, and means for securing said rear wall and said side walls to said corner posts in assembled relation to each other.

2,349,145
GOVERNOR
Rex C. Darnell, Dexter, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application October 12, 1942, Serial No. 461,823
4 Claims. (Cl. 137—152)



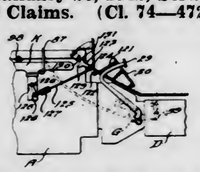
1. In a governor for prime movers, a conduit, a spindle mounted transversely of said conduit and intersecting the longitudinal axis thereof, a butterfly valve mounted on said spindle and adapted to control the passage of fluid through said conduit, and torque balancing means associated with said spindle for counterbalancing the parasitic torque of said valve, said last means comprising a member secured on said spindle externally of said conduit, resilient means carried by said governor, and means connected to said resilient means and bearing on said member, said last means and said member being so constructed and arranged as to transmit the force of said resilient means to said spindle in the required amount depending upon the angular position of said valve in said conduit.

2,349,146
ENGINE STARTING GEARING
John B. Dickson, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 10, 1943, Serial No. 486,327
6 Claims. (Cl. 74—7)



1. In the combination of a screw having a stop abutment and an internally threaded runner member mounted on and adapted to travel lineally of the screw into and out of engagement with the stop abutment, a stop abutment and a runner member formed with complementary surfaces engaging each other with sliding contact as the runner member advances against the abutment, said surfaces forming an angle with a tangent to the trace of the screw greater than the helix angle of the screw.

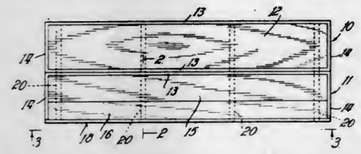
2,349,147
POWER TRANSMISSION
William T. Dunn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 26, 1942, Serial No. 428,159
14 Claims. (Cl. 74—472)



1. In a power transmission for driving a motor vehicle having an engine provided with an ignition system; an ignition control switch adapted when closed to render the ignition system operative and when open to render the ignition system inoperative; a speed ratio varying transmission; transmission control means including a motor operable to control said transmission for step-up and step-down change in the speed ratio drive from the engine to the vehicle; electrically operated means for controlling operation of said motor having a control circuit therefor including said ignition switch; a second switch connected in said circuit in parallel with said ignition switch; and means comprising a differential pressure actuated member operable independently of said ignition system for controlling said second switch whereby said control circuit may be maintained in energized condition when said ignition switch is open.

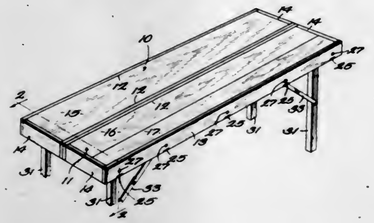
2,349,148
PAPERHANGER'S FOLDING BOX AND TABLE
Fred E. Edgren, Chicago, Ill.
Application November 4, 1942, Serial No. 464,549
3 Claims. (Cl. 164—78)

1. A paperhanger's folding box-table composed of two sections hingedly connected at their adjacent longitudinal sides to permit folding into back-to-back relation and be disposed in the same horizontal plane when in opened-up condition, the sections comprising top boards and surrounding frame forming rails extending beneath the top boards, to which the latter are secured, so that the rails of one section will be superposed on the rails of the other section when in back-to-back relation to provide an implement holding compartment; the top of at least one section involving an immovably secured board at the inner longitudinal side of said section and a reversible self-sustaining trimming strip constituting the outer longitudinal portion of the



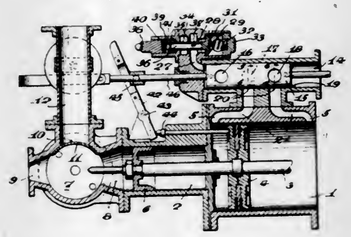
top of said section, said strip being arranged in the plane of the immovably secured board and both longitudinal edges of said strip having predetermined uniform off-set surfaces adapted to effect interengaging relation with the outer longitudinal edge of the immovable board of said section, the outside rail of said section being formed to engage the outer longitudinal edge of said trimming strip and thereby hold the trimming strip against horizontal movement and in interengaging relation with the immovable board; and adjustable means carried by said outside rail, adapted to engage said trimming strip for removably holding the latter in place against vertical movement.

2,349,149
PAPERHANGER'S TABLE
Fred E. Edgren, Chicago, Ill.
Application May 15, 1943, Serial No. 487,406
4 Claims. (Cl. 164—78)



1. A paperhanger's table composed of two sections hingedly connected at their longitudinal sides to permit back-to-back folding and to extend in the same horizontal plane when in opened-up condition, the sections comprising top-boards and surrounding frame forming rails to which the top-boards are immovably secured, at least one of the sections at the outer longitudinal side having a removable trimming board or strip whose longitudinal edges have similar offset surfaces, the outer longitudinal edge of the top-board of the last mentioned section being provided with a complementary surface adapted to effect interengaging relation with a longitudinal edge of the removable strip; the outer side rail, of at least one section, at its upper longitudinal edge being formed to effect interengaging relation with the offset surface of the adjacent longitudinal edge of said trimming board; reenforcing means secured to the lower side of the top-board and hingedly supporting said side rail; and adjustable means whereby said side rail is held in upright position and in interengaging relation with the trimming board.

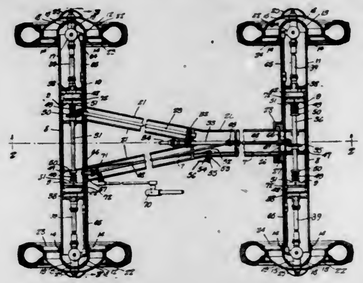
2,349,150
HYDRAULIC CONTINUOUS PRESS FOR CONCRETE AND THE LIKE
Alberto Falasconi, Fermignano, Italy; vested in the Alien Property Custodian
Application June 22, 1940, Serial No. 341,835
In Italy July 4, 1939
7 Claims. (Cl. 103—51)



1. In a continuous operation press, particularly adapted for the transportation and the application of mortars, concrete, and like building materials, and having three coaxial cylinders, a piston rod and three coaxial pistons fixed on said piston rod and reciprocable respectively in said cylinders, one piston being the driving piston, and the other two being smaller driven pistons for pumping the mortar, thereby increasing the pressure of discharge above the pressure of the driving fluid, the combination of a cylindrical distributor controlling the reciprocation of the larger piston, said cylindrical distributor including a piston reciprocating in said cylindrical distributor and being traversed by three channels bent through an angle of 90° which are all of equal diameters and spaced apart longitudinally at a distance equal to two diameters of one channel, the cylinder of the driving piston having admission ports, the lower orifices of the distributor piston being directed downwards and aligned in the direction of the admission ports of the cylinder of said driving piston of the press, the inlet openings of said channels being dephased at both ends of said cylinder.

2,349,151
FOUR-WHEEL VEHICLE DRIVE
Reuben L. Farnsworth, Hazel Park, Mich.
Application January 20, 1942, Serial No. 427,522
5 Claims. (Cl. 180—18)

1. A four wheel drive comprising transverse front and rear axle housings, a longitudinal housing connected to the front and rear housings, steering knuckles in the front and rear housings, driven stub axles projecting from the respective steering knuckles, vehicle wheels fixed to the stub axles, driven axles in the front and rear housings, friction disk clutches on the axles for respective wheels, brake means assembled with the clutches, spring means on the driven axles normally holding the clutches in clutched position, means for declutching the clutches, steering means in the housings connected to the steering knuckles, means connected to the steering means for declutching both clutches of one pair of front and rear wheels while the clutches of the

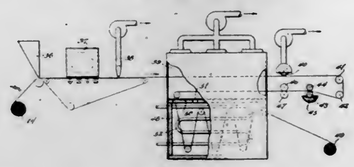


other pair of front and rear wheels remain clutched, and driving means in the housings connected to the driven axles.

2,349,152
IMPREGNATING GAUZE
Wolffe Harry Feinstone, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 10, 1941, Serial No. 410,293
3 Claims. (Cl. 167—84)

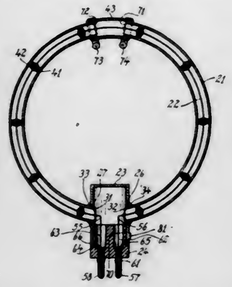
1. The processs of treating gauze which comprises heating the gauze in contact with an aqueous emulsion containing dispersed sulfadiazine and a greasy substance selected from the group consisting of petroleum jelly and lanolin, the heating being carried out at a temperature and for a time sufficient to sterilize the gauze and to melt the greasy substance so that it is dispersed substantially uniformly throughout the gauze, together with the sulfadiazine.

2,349,153
METHOD OF PRODUCING FLOCKED SHEET MATERIAL
John Ferrante, Johnstown, N. Y., assignor to Kenlea Mfg. Corporation, a corporation of New York
Application November 23, 1940, Serial No. 366,908
7 Claims. (Cl. 117—29)



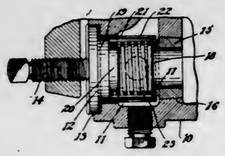
2. The process of flocking sheet material with fibers to produce a suede-like finish, which comprises applying a base coating of Hevea rubber cement to one face of the material; subjecting the base coating to drying heat; then applying a thin coating of plasticized "neoprene" cement to the base coating; applying flock to the "neoprene" coating; again subjecting the material to drying heat and removing excess flock; wetting the flocked surface with a "neoprene" solvent and subjecting the flock fibers to penetrating pressure; immediately subjecting the wetted surface to drying heat; and finally vulcanizing the said coatings.

2,349,154
COAXIAL CABLE LOOP ANTENNA
William G. H. Finch, Newtown, Conn., and James M. Wakefield, Waldwick, N. J., assignors to Finch Telecommunications, Inc., Passaic, N. J., a corporation of Delaware
Application August 13, 1941, Serial No. 406,576
2 Claims. (Cl. 250—33)



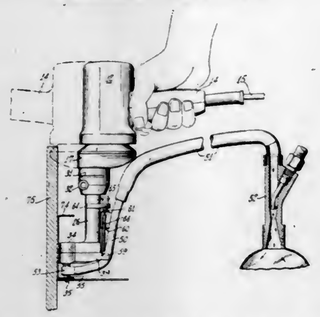
1. A shielded loop antenna comprising a preformed wire, said wire having an inner conductor and an outer cylindrical metallic hollow circular shield, equidistantly spaced insulation washers for supporting said inner conductor concentrically with respect to said outer conductor, a metallic cup for supporting said shield having concentric perforations at its sides for securing the ends of said shield and through which the ends of the inner conductor pass into said cup, an insulation cap for closing said cup and having conductor prongs embedded therein, said ends of said inner conductor being secured to said conductor prongs.

2,349,155
FLAT DISK VALVE
Karl L. Finley, Donald D. Smith, and Warren M. Spreng, Ashland, Ohio, assignors to The F. E. Myers & Bro. Co., Ashland, Ohio, a corporation of Ohio
Application May 13, 1942, Serial No. 442,784
4 Claims. (Cl. 251—119)



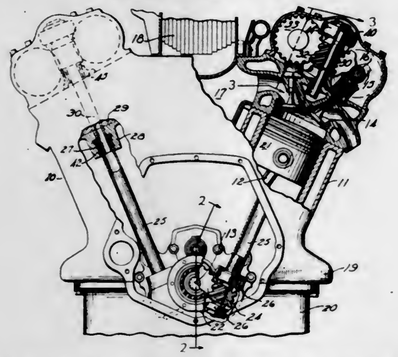
1. In a valve for use in a spray pump, for handling abrasive spray solutions, a casing having a valve chamber therein provided with inlet and discharge ports, a circular valve seat surrounding the inlet port, a cap in the opposite end of the valve chamber and having a boss thereon, a smaller boss mounted on the first mentioned boss, a perforate guide cage mounted upon the first mentioned boss, a flexible, thin, sheet metal disk located within the guide cage for seating upon said seat and a coil spring having one end mounted upon the smaller boss and the other end contacting the disk for normally urging the disk into sealing contact with the seat, the diameter of the disk being substantially greater than the seat and substantially less than the cage, so that the disk may move laterally to seat freely at each operation.

2,349,156
OFFSET DRILLING ATTACHMENT
Howard R. Fischer, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application March 13, 1942, Serial No. 434,511
8 Claims. (Cl. 77—55)



1. A tool for drilling and the like comprising a motor housing, a transmission case secured to the front end thereof, an attachment body secured to the front end of the transmission case, a driving spindle projecting from the transmission case into the attachment body, said body having an elongated portion in line with said spindle and an offset portion at its front end at right angles thereto, a bit supported in the offset portion for rotation about an axis parallel to the axis of the spindle and projecting beyond the front end of the attachment body, transmission means between the spindle and bit, a bushing surrounding the bit and normally positioned at the front end of the bit, a support on which the bushing is carried, said support and bushing being movable rearwardly to expose the front end of the bit, and resilient means urging the support and bushing forwardly toward normal position, whereby said bushing may be pressed against the work.

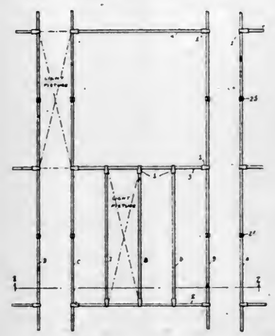
2,349,157
INTERNAL-COMBUSTION ENGINE
Henry Ford, Dearborn, and Charles E. Sorensen, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application April 20, 1942, Serial No. 439,632
1 Claim. (Cl. 123—90)



In combination, in an internal-combustion engine of the V type, a camshaft drive, comprising,

a pair of overhead camshafts rotatably mounted on each cylinder bank of said engine, a worm wheel disposed at one end of each camshaft, a main shaft having a worm wheel disposed at its corresponding end, a pair of intermediate shafts having worm gears disposed at each end thereof, means on said bank providing a camshaft bearing on each side of said worm wheel thereon and a facing plate in proximity thereto, said intermediate shafts being so arranged that the lower worm gears thereon mesh with said main shaft worm wheel on opposite sides thereof, and extending therefrom divergently to said camshaft pairs, the upper worm gears thereon each disposed between and meshing with one of said worm wheel pairs, providing a drive means between said main shaft and said camshafts without obstruction at the ends of said camshafts permitting the attachment of auxiliaries thereto, said camshaft drive being substantially in one plane.

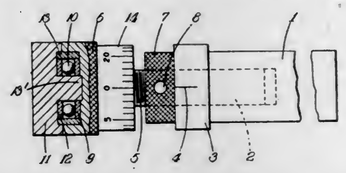
2,349,158
CEILING SYSTEM
Gilbert L. Fowles, Lakewood, and Charles J. Nocar, Cleveland, Ohio, assignors to The E. F. Hauserman Company, Cleveland, Ohio, a corporation of Ohio
Application June 6, 1941, Serial No. 396,944
8 Claims. (Cl. 189—88)



1. In a ceiling construction, the combination of a multiplicity of furring strips supported in fixed position, and other furring strips extending at right angles to such fixed furring strips, with means connecting said other furring strips with such fixed furring strips, said means comprising a clip member having parallel rebent flanges, forming longitudinal recesses, and another rebent flange forming a transverse recess, said other furring strips having spaced parallel edges slidably adjustably seated in said longitudinal recesses and said fixed furring strip having one edge slidably adjustably seated in said transverse recess, whereby said other furring strips may be moved along said fixed furring strips.

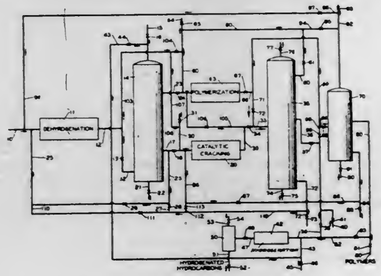
2,349,159
STOP FOR LATHES
Harry Howard Freeman, Teddington, England
Application June 23, 1942, Serial No. 448,137
In Great Britain June 19, 1941
1 Claim. (Cl. 33—164)

An adjustable stop for a lathe, comprising a supporting member to be secured in a lathe, said member being formed with an axial bore having a micrometer thread, a micrometer screw co-operating with the micrometer thread in said bore, an adjusting member secured directly to that end of the micrometer screw remote from said supporting member, the end of the adjusting member towards said supporting member having a peripheral scale marking indicating rotative adjustments of said micrometer screw, a lock nut



on said micrometer screw between said supporting member and said adjusting member, said lock nut cooperating with said supporting member to lock said micrometer screw in adjusted position, means on said supporting member to cooperate with said scale for reading purposes, and a freely rotatable head on said adjusting member remote from the scale marking.

2,349,160
PROCESS FOR CONVERTING HYDROCARBONS
Frederick E. Frey, and Robert D. Snow, Bartlesville, Okla., and Walter F. Huppke, Lomida, Calif., assignors to Phillips Petroleum Company, a corporation of Delaware
Application April 29, 1940, Serial No. 332,392
9 Claims. (Cl. 196—49)



5. A process for converting paraffinic hydrocarbons boiling above the lower part of the gasoline boiling range into hydrocarbons of a smaller number of carbon atoms per molecule and in the gasoline boiling range, which comprises subjecting such a paraffinic hydrocarbon material to dehydrogenation in the presence of a solid dehydrogenation catalyst to produce olefins and free hydrogen without substantial cracking, subjecting a fraction comprising olefins so produced in the presence of a solid depolymerization catalyst to conditions of time, temperature and pressure adapted to crack said olefins to produce a substantial portion of hydrocarbons of a smaller number of carbon atoms per molecule and in the gasoline boiling range along with lighter olefins having at least three carbon atoms per molecule, passing the effluent to a separating zone, removing from said separating zone a fraction comprising said lighter olefins having at least three carbon atoms per molecule, subjecting said lighter olefins to catalytic poly-

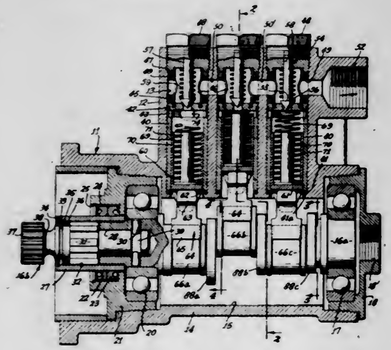
merization to form hydrocarbons in the gasoline boiling range and above the gasoline boiling range, passing effluents of said polymerization to said separating zone, removing from said separating zone an olefinic fraction above the gasoline boiling range comprising olefin polymers produced in said polymerization and subjecting said fraction to said depolymerization catalyst in admixture together with said olefin fraction resulting from dehydrogenation, and removing also from said separating zone an olefinic hydrocarbon fraction comprising hydrocarbons in the gasoline boiling range resulting from said cracking of olefins and from said polymerization.

2,349,161

HYDRAULIC PUMP

Hobart F. Frimel, West Los Angeles, Calif., assignor to Interstate Aircraft and Engineering Corp., a corporation of California

Application August 15, 1941, Serial No. 406,958
9 Claims. (Cl. 103—5)



1. In a pump, a housing having a plurality of cylinders and a crank case chamber and having an inlet communicating with said crank case chamber, said housing having exhaust passages for said cylinders, valves controlling said exhaust passages, pistons in said cylinders, a crank shaft in said housing, means for operating the pistons by rotation of said shaft, means providing liquid intake passages connecting each cylinder with said crank case chamber, valves controlling said inlet passages, and means for raising the pressure of the liquid in said crank case chamber above atmospheric.

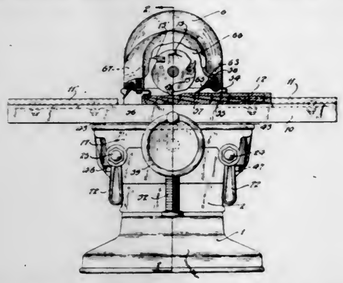
2,349,162

WOOD-PLANING MACHINE

Walter L. Gaskell, Ypsilanti, and Otto P. Haisch, Ann Arbor, Mich., assignors to Central Specialty Company, Ypsilanti, Mich., a corporation of Michigan

Application December 27, 1940, Serial No. 371,886
1 Claim. (Cl. 144—117)

In a wood planing machine, including a frame, a rotatable cutter and a table below the cutter on which material may be passed to the cutter, means at the forward and rear sides of the cutter for holding the stock in contact with the table during movement thereof through the machine, comprising a U shaped spring metal plate secured on the head at each of the opposite sides of the cutter for engaging the stock under tension to maintain the same in contact with the table during the planing operation and a kick-back prevention device pivotally attached to each of the spring metal plates, and a spring for each



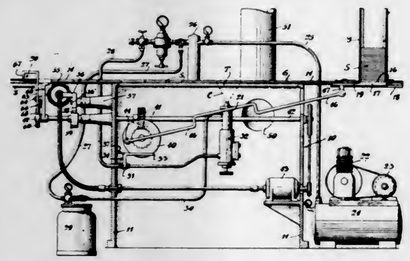
of said kick-back preventive devices tending to hold the same in contact with the surface of the stock as it passes through the machine.

2,349,163

MECHANISM FOR COLORING ADDRESS PLATES

John Henry Gibbs, Jamaica, N. Y., assignor to The Reader's Digest Association, Inc., Pleasantville, N. Y., a corporation of New York

Application July 9, 1942, Serial No. 450,266
4 Claims. (Cl. 91—18)



1. In mechanism for coloring impressed plates in combination with a guide for the plates, of means for feeding the plates along said guide with their impressed surfaces facing downward, color spraying means forming a wet coating on said surfaces of said plates, means conveying said coated plates and permitting said coating to dry, rotary means for engaging the surfaces of said plates to remove the dry coating from around the impressions while leaving the coating fixed within said impressions, and means for delivering said plates with the impressions colored.

2,349,164

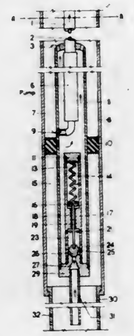
BOTTOM HOLE INTERMITTER FOR PUMPING WELLS

Walton E. Gilbert, Los Angeles, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application July 20, 1942, Serial No. 451,641
2 Claims. (Cl. 103—203)

1. A bottom hole pressure intermitter system comprising a packer adapted to be set in a well, means comprising a pump for continuously withdrawing well fluid from the space above the packer, a conduit extending through the packer and adapted to deliver the fluid from the space below the packer to the space above the packer, a cylindrical valve chamber within said conduit,

ports in communication between said chamber and said conduit, means comprising an orifice forming a valve seat for admitting fluid from the space below the packer into said chamber the diameter of said orifice being substantially smaller than that of said chamber, a valve plunger comprising an enlarged diameter member adapted for loose sliding reciprocation within said chamber and a reduced diameter member



adapted to close said valve seat, and adjustably pre-set loading means adapted to urge the reduced member of said plunger into closure with said valve seat against fluid pressure differentials acting across the valve, whereby the ratio of the pressure differentials at which said valve opens and closes is substantially equal to the ratio of the diameters of the enlarged member of said plunger and of said orifice, respectively.

2,349,165

COMPOSITION CONTAINING RESINOUS TYPE PRODUCTS

Rudolph R. Grant, Los Angeles, Calif., assignor of one-fourth to Max Isaacson, Dayton, Ohio, and Sol Shappirio, Washington, D. C.

No Drawing. Application April 5, 1940, Serial No. 328,149
28 Claims. (Cl. 106—8)

1. A composition containing a non-gaseous hydrocarbonaceous component and an exothermic heat reaction product of true resinous character from a component selected from the group of glyceride oils and the acids derived therefrom, and an oxide selected from the group consisting of the alkaline earth metal and magnesium oxides.

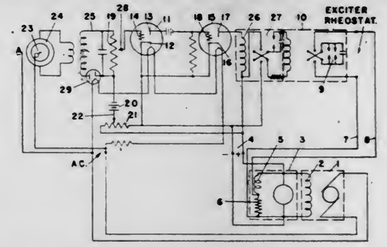
2,349,166

VOLTAGE REGULATOR

William Christian Grabau, Boston, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine

Application September 17, 1940, Serial No. 357,132
4 Claims. (Cl. 171—119)

1. A system for regulating the voltage under load operation of an alternating current machine having a field winding and a direct current exciter for energizing said field winding, a circuit having a field winding for said exciter and connected across said exciter, means for varying the current in said exciter field winding circuit including a vacuum tube control circuit having an initial control tube with cathode, anode and grid control electrodes, and a second control tube having an output circuit with the cathode and anode thereof energized by said exciter means for applying to said grid control electrodes of said vacuum tube control circuit in series opposing relationship, potentials relating to the terminal exciter voltage and rectified potentials proportional to the alternating current load, re-



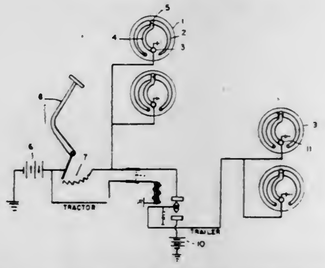
lay means operatively connected in the output of said vacuum tube control circuit for shorting in and out a portion of the impedance in said exciter field winding circuit, whereby the current therein varies and voltage regulation is obtained.

2,349,167

TRACTOR-TRAILER BRAKE SYSTEM

Ralph R. Gunderson, Detroit, Mich.

Application September 21, 1942, Serial No. 459,169
5 Claims. (Cl. 188—3)



1. In a tractor-trailer brake system of the type wherein the tractor is equipped with a source of electric energy and the trailer is equipped with a brake and a normally idle source of electric energy for operating the trailer brake, an automatic switch having a contact movable to a position to close a circuit including the trailer brake and the tractor source of electric energy and also movable to a position to close a circuit including the trailer brake and the trailer source of electric energy, electrically operated means in circuit with the tractor source of electric energy for holding said contact in said first mentioned position, and means for moving said contact to said second mentioned position when said electrically operated means is deenergized.

2,349,168

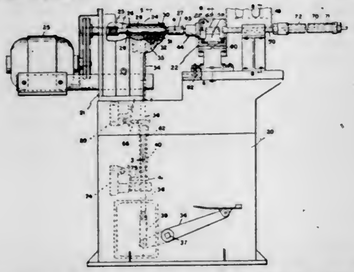
METALWORKING MACHINE

Walter P. Hill, Detroit, Mich., assignor, by mesne assignments, to Calumet and Hecla Consolidated Copper Company, Calumet, Mich., a corporation of Michigan

Application February 23, 1942, Serial No. 432,070
5 Claims. (Cl. 153—81)

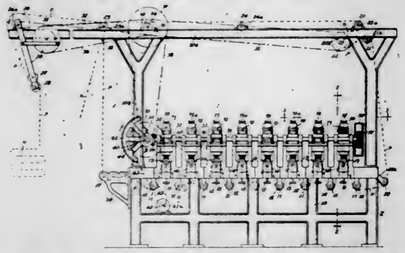
1. A metal working machine having a revoluble tool, a work clamp comprising a pair of separable

jaws for engaging the work intermediate the ends thereof, a stationary rigid positioning abutment for one of said jaws adapted to hold the work when engaged therewith in axial alignment with and in operative relation to said revoluble tool,



means for feeding the work between said jaws in a position out of alignment with said tool, and means for moving the other one of said jaws to carry the work into operative position and to rigidly clamp the same against the first jaw and the latter against said stationary rigid abutment.

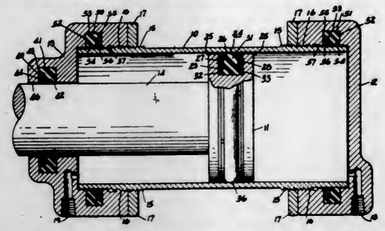
2,349,169
APPARATUS FOR TREATING PILE FABRICS
Alexander T. Herron, Utica, N. Y.
Application December 15, 1942, Serial No. 469,075
16 Claims. (Cl. 26—29)



1. In apparatus of the character described, means for moving pile fabric through said apparatus, means for brushing said fabric in a direction transverse to its motion through said apparatus, and means for brushing said fabric in an opposite direction to that of said first-named brushing means, supporting roller means in vertical alignment with each said brushing means and around which said pile fabric is curved in its movement through said apparatus, said first and second-named brushing means being positioned in alternation and comprising endless bands and brushing members carried by said bands, each brushing member being curved on its brushing surface approximately to conform to the curve of the fabric passing thereunder, whereby said pile fabric is alternately brushed while supported by said roller means in opposite directions in its movement through said apparatus.

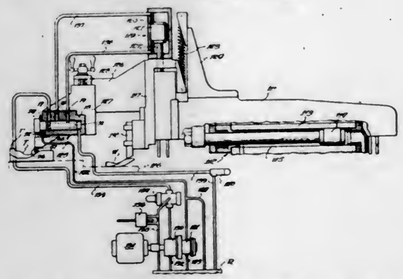
2,349,170
SEALING DEVICE
Elmer F. Jackman, Lakewood, Ohio, assignor to George V. Woodling and said Jackman, co-trustees, as joint assignee
Application January 23, 1942, Serial No. 427,965
16 Claims. (Cl. 309—23)

1. In a fluid seal for a confining wall structure defined by a member having a groove and an annular wall covering same with a clearance between the member and the wall and with non-extrusion annular blocking means substantially closing said clearance, the improvement of an annular sealing member of relatively soft material positioned in the groove and cooperatively functioning with the blocking means to seal said clearance, said annular sealing member having a sealing portion of less width than the groove engaging the annular wall and providing a sealing engagement therewith and having a radially disposed body portion resting upon the bottom of the groove for supporting the sealing portion against the annular wall to provide an initial sealing engagement therewith, said body portion having a width at least as wide as the sealing portion and having a side wall against which the



pressure of the fluid being sealed presses, said body portion under the action of the pressure of the fluid against said side wall flowing radially and providing an expansible support for the sealing portion to effect an increased sealing engagement over that of the initial sealing engagement, said blocking means being adapted to be radially urged by the said body portion against the annular wall to substantially block off extrusion of the soft material into said clearance, said soft material being initially spaced from the annular wall in the region next adjacent the blocking means to provide a space for the soft material to flow and thereby allow the soft material to urge the blocking means against the annular wall before the soft material distortably fills said space.

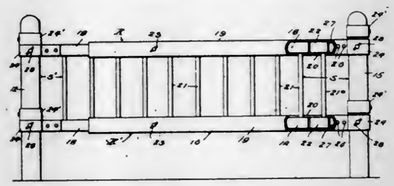
2,349,171
MACHINE TOOL
Paul S. Jackson, Rockford, Ill., assignor to Rockford Machine Tool Company, Rockford, Ill., a corporation of Illinois
Original application August 3, 1940, Serial No. 350,996. Divided and this application June 13, 1941, Serial No. 397,849
6 Claims. (Cl. 90—24.3)



1. In a template controlled machine, a template, a work support, a reciprocable main slide, means for driving said slide through a cutting and a return stroke relative to said template and to said work support, a tool slide mounted on said main slide for movement transversely

thereof, a hydraulic motor for actuating said tool slide, a tracer mechanism mounted on said tool slide and having a tracer finger adapted to ride on the template and a valve controlled by said finger, a hydraulic circuit including said motor and said valve, and means carried by said tracer mechanism operable upon engagement with an abutment at the end of the cutting stroke to move said tracer finger out of engagement with the template to effect a corresponding movement of the tool slide.

2,349,172
ADJUSTABLE BEDFRAME
Clarence Verne Johnson, Yates Center, Kans.
Application April 28, 1942, Serial No. 440,835
3 Claims. (Cl. 5—184)



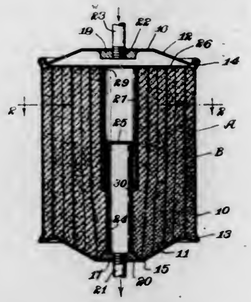
2. In a bed frame, two corner posts; upper and lower telescopic rails extending between said posts; each of said rails comprising one inner rail section attached to one post, a second inner rail section attached to the other post, and an outer tubular rail section receiving the two inner rail sections and slidably engaged with at least one of said inner rail sections; each of said outer tubular rail sections having a longitudinal slot, the slot of the upper rail being disposed downwardly and the slot of the lower rail being disposed upwardly; and spaced vertical rungs extending between and secured to said inner rail sections and extending slidably through said slots.

2,349,173
MANUFACTURE OF ALICYCLIC COMPOUNDS
Lloyd M. Joshel, Hyattsville, Md., assignor to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Original application October 16, 1941, Serial No. 415,263. Divided and this application March 31, 1944, Serial No. 528,927
2 Claims. (Cl. 260—666)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of manufacturing cyclohexene, comprising heating ethylene and 1,3-butadiene at a temperature below about 300° C. and at a pressure above 1000 pounds per square inch until the cyclohexene is formed, and thence recovering the cyclohexene.

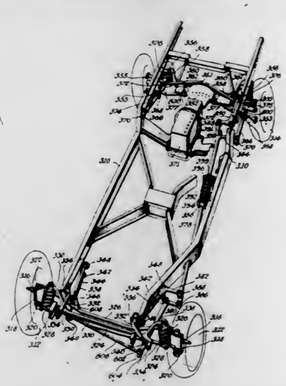
2,349,174
OIL CLEANER
Henry A. Klinkhamer, St. Paul, Minn.
Application October 6, 1941, Serial No. 413,782
6 Claims. (Cl. 210—131)

1. An oil cleaner comprising a casing having an inlet at the top thereof and an outlet at the bottom thereof, an imperforate tubular element projecting upwardly from the bottom of said casing in communication with said outlet to a point spaced from the casing top, a second imperforate tubular element in telescoping relation to said first tubular element and having a closed



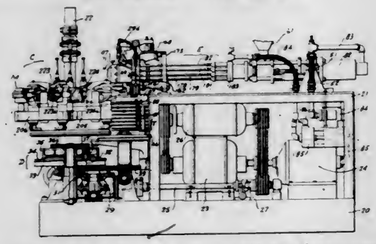
upper end, the diameters of said tubular elements being such as to space the same to provide a passage therebetween, and filter material within said casing encircling said tubular elements.

2,349,175
MOTOR VEHICLE
Joachim Kolbe, Detroit, Mich.
Application February 17, 1941, Serial No. 379,148
14 Claims. (Cl. 280—124)



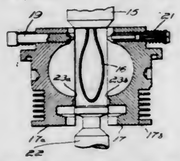
1. In a vehicle having wheel supporting means, road engaging wheels carried by said wheel supporting means, a superstructure, resilient means associated with the wheel supporting means to absorb vertical shock to which the wheels are subjected, a member carried by the resilient means, paired angularly inclined links between said member and superstructure whereby the superstructure may shift laterally relative to the wheel supporting means and assume an angularly inclined or banked position relative to the wheel supporting means under the influence of lateral forces as the vehicle rounds a curve, and means comprising a generally transversely extending member connecting the wheel supporting means and one of said links to cause movement of the member carried by the resilient means laterally against the direction of the lateral force to limit lateral shifting of the superstructure on the resilient means as the vehicle rounds a curve.

2,349,176
MACHINE FOR EXTRUDING AND BLOWING PLASTICS
William H. Kopitke, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application February 12, 1941, Serial No. 378,551
18 Claims. (Cl. 18—5)



1. A machine for forming articles from organic plastic material comprising an elongate, unitary extruder, said extruder including a heating cylinder, a head at the front end of said extruder, means for forcing plastic material through said extruder to cause said material to be heated and extruded through said head, means including a pivot near the rear end of said extruder for supporting it in horizontal position, a mold carrier having a plurality of molds mounted thereon, means for driving said mold carrier step-by-step to move the molds in an endless path and into and out of a stationary position beneath the head of said extruder to receive plastic material therefrom, and means for periodically tilting said extruder on said horizontal pivot to move said head vertically into and out of a position for cooperation with the molds on said mold carrier.

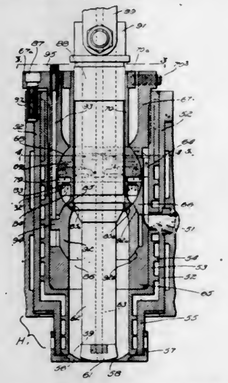
2,349,177
METHOD OF AND APPARATUS FOR MAKING BLOWN PLASTIC ARTICLES
William H. Kopitke, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application May 9, 1941, Serial No. 392,660
6 Claims. (Cl. 18—5)



5. Apparatus for forming hollow articles from organic plastic materials comprising a mold wherein a bubble of plastic material connected to tubular material is expanded by a fluid pressure medium, means for opening and closing said mold, means for sealing the tubular material connected to said bubble to entrap gaseous pressure medium in an article formed in said mold by the admission of the medium into said bubble, means for opening the mold before the article has rigidified sufficiently to prevent bloating thereof by the pressure medium, a liquid cooling spray, and means for shooting the article into the cooling spray upon the opening of the mold to rigidify the article sufficiently to prevent bloating thereof.

6. The process of forming hollow articles from organic plastic material by blowing such material in a sectional mold which comprises, forming said material into an end-closed tube, developing and suspending said end-closed tube in the form of a bubble and elongating the bubble so that an exterior portion of the bottom thereof projects beyond the cavity of the mold when the mold is closed about the bubble, closing the mold about the bubble and pinching in the joint thereof the exteriorily projecting bottom portion of the bubble and welding together the material of the bubble just inside the mold joint where said bottom portion of the bubble is pinched, and blowing the bubble into the shape of the mold cavity.

2,349,178
METHOD OF AND APPARATUS FOR EXTRUDING AND BLOWING ORGANIC PLASTIC MATERIALS
William H. Kopitke, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application August 4, 1941, Serial No. 405,310
19 Claims. (Cl. 18—5)

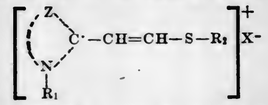


11. In the art of forming organic plastic material into hollow articles by extruding and blowing such material, the steps comprising imparting tubular form to said plastic material in extruding apparatus, extruding said material in the desired tubular form through an orifice in said apparatus, regulating the flow of the tubular material through said orifice by holding the end of a valve member in close proximity to the inner side of said orifice, discontinuing the extrusion of said material, retracting the said valve member, and applying an impulse to the plastic material ahead of said orifice simultaneously with the retraction of said valve member to cause the plastic material to flow toward said orifice and to flow toward the center of said orifice to close the tubular material, extruding a small amount of surplus material, severing said surplus material from the material remaining in the apparatus, and extruding the end-closed tubular material.

19. Apparatus for extruding a tube of organic plastic material comprising means for subjecting such material to heat and pressure and for forming it into a solid stream, an orifice having an internal forming member associated therewith for the extrusion of the material in the shape of tube desired, a passageway for the solid stream out of axial alignment with said orifice, means for transforming said solid stream into tubular material in axial alignment with said orifice comprising separate groups of arcuate passageways of progressively increasing number arranged lengthwise of the axis of said orifice, a port for conducting the solid stream from the first-named passageway to the first group of arcuate passageways, ports leading from the ends of arcuate passageways of one group into the middle of arcuate passageways of an adjacent group, whereby said material is progressively divided into streams, some at least of the ports and arcuate passageways being of progressively diminishing size to reduce the size of the streams formed therein until capable of merging without appreciable weld marks, annular flow passage means axially aligned with said orifice for receiving said streams and merging them into tubular material and for conducting said tubular material toward said orifice, and means for heating said apparatus to heat said passageways and flow passage means and the material therein.

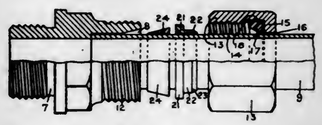
2,349,179
PRODUCTION OF NITROGENOUS HETEROCYCLIC COMPOUNDS
Karl Kumetat, Wolfen, Kreis Bitterfeld, and Oskar Riester, Dessau-Haideburg, Germany; vested in the Alien Property Custodian
No Drawing. Application February 17, 1942, Serial No. 431,264. In Germany August 9, 1940
10 Claims. (Cl. 260—240)

2. A compound of the following formula:



wherein Z means a group of molecules necessary to complete a ring usual in cyanine dye art, said ring being selected from the class consisting of 5- and 6-membered rings, R_1, R_2 mean an alkyl, and X means an anionic acid radical.

2,349,180
PIPE COUPLING
James Hunter Lamont, Edinburgh, Scotland; Mary Somerville Stables or Lamont, Russel Patrick, and John Waugh, executors of said James Hunter Lamont, deceased, all of Edinburgh, Scotland, assignors to James H. Lamont and Company, Limited, Edinburgh, Scotland, a corporation of Great Britain
Application November 16, 1942, Serial No. 465,661
6 Claims. (Cl. 285—87)

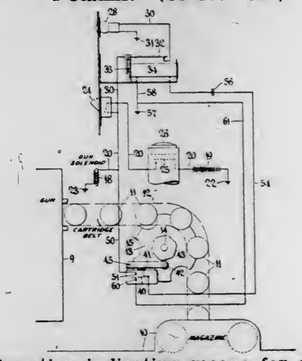


1. A pipe coupling device comprising a tubular member having an end portion counterbored to receive the end of a pipe to be coupled thereto and having an external screw-thread formed on said end portion, a coupling nut internally screw-threaded to fit the external thread on the end portion of said member, an inturned shoulder on said nut apertured to revolubly fit on the pipe, an internally coned solid metal sleeve revolubly mounted in said nut between the thread of the nut and said shoulder, said sleeve presenting an abrupt end face at the wider end of its internally coned surface which tapers towards said shoulder, a solid or unsplit ring of deformable metal revoluble on the pipe and adapted to enter and coact with said internally coned surface, an external flange on said ring and integral therewith and adapted for abutment against said abrupt end face, and a packing element revoluble on the pipe and adapted to be compressed between said flange and the end portion of said member when the coupling nut is screwed upon said end portion to cause said coned surface to contact the ring upon the pipe.

2,349,181
METHOD OF SEALING OR FIXING CASING TUBES IN WELLS
William Bruce Lerch, Clyde H. Mathis, and Eugene J. Gatchell, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application May 19, 1938, Serial No. 208,932
6 Claims. (Cl. 166—22)

1. A method of plugging and sealing the space between the well bore and casing in a well which comprises the step of introducing a liquid resin forming material into the space which consists of a mixture of furfural and thiourea and then allowing the same to solidify.

2,349,182
GUN OPERATION SIGNAL MECHANISM
Robert N. Lesnick, Brooklyn, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application May 14, 1941, Serial No. 393,373
4 Claims. (Cl. 177—311)

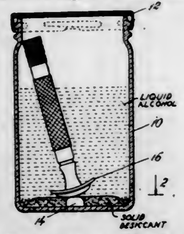


2. Cessation indicating means for a normally movable member having a direct current operating circuit and motive means therein for moving said member, said indicating means comprising a lamp in said circuit in parallel with said motive means, a normally closed switch in said lamp circuit and an electromagnet for opening said switch, said electromagnet being connected in parallel with said motive means and said lamp, a switch and a condenser connected in series with said electromagnet, and means operated by said movable member for continuously opening and closing said switch during movement of said movable member to provide continuous alternating current energization of said electromagnet while said movable member is operating, whereby said lamp is illuminated only when said direct current operating circuit is closed and said movable member is not moving.

2,349,183
SAFETY RAZOR ACCESSORY
John S. Mahler, East Orange, N. J.
Application October 2, 1942, Serial No. 460,503
4 Claims. (Cl. 21—87)

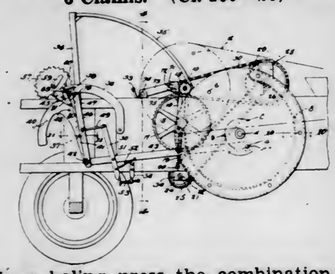
1. An accessory for preventing the dulling of razor blades in the intervals between uses com-

prising a container adapted to receive the razor, said container having in it an anhydrous liquid



alcohol in sufficient quantity to permit the immersion of the razor, and, admixed with the alcohol, a solid desiccant.

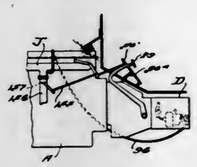
2,349,184
BALING PRESS
Ivan Z. Martin, Ephrata, Pa., assignor of one-half to Noah N. Burkholder, Ephrata, Pa.
Application August 26, 1942, Serial No. 456,232
6 Claims. (Cl. 100—20)



1. In a baling press the combination with a baling chamber and means for compressing material within and forcing it longitudinally of said chamber, of a needle mounted for oscillation, a coupling element movable with the needle, yielding means for holding said element in either of two positions, a notched sweep, means operating with said compressing means for oscillating the sweep, a wheel positioned for actuation by material moving under compression within the baling chamber, and tripping means actuated by the wheel during the completion of each rotation thereof for shifting the coupling element into engagement with the notched sweep, thereby to couple the needle to the oscillating sweep, and means for automatically uncoupling said element from the sweep and resetting the tripping mechanism upon the completion of each movement of the needle in one direction, said means including a lever carried by the sweep, means controlled by the movement of the sweep for swinging the lever relative to the sweep, and a deflecting element, said lever being positioned to direct the coupling element against the deflecting element and out of engagement with the sweep when the needle reaches that limit of its movement where it is to be uncoupled.

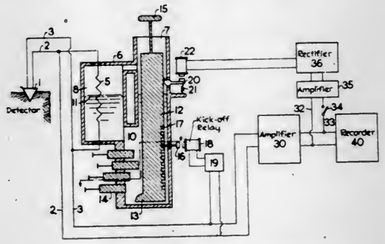
2,349,185
POWER TRANSMISSION
Victor E. Matulaitis, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 8, 1941, Serial No. 405,948
14 Claims. (Cl. 74—472)

1. A power transmission for driving a vehicle having an engine provided with an ignition system and a throttle; a transmission drive-controlling element operable from a first position to a second position for effecting a step-up change in the transmission drive speed ratio and from said second position to said first position when operation of said ignition system is interrupted to relieve thrust at said element; a reciprocatory thrust member movable in a direction of thrust transmission from a first position to a second position thereby to effect operation of said element from its said second position to its said first position, said thrust member being movable in a return direction from its said second position to its said first position to accommodate movement of said element to its said second position; means biasing said element from its said first position to its said second position; means providing a lost-motion connection between said thrust member and said element such that said thrust member is capable of limited movement, relative to said element, from its said first position toward its said second position to a position intermediate its said first and second positions when said element is in its said second position; power operating means for moving said thrust member from its said second position to its said first position; means biasing said thrust member from its said first position to its said second position; electromagnetic means comprising a flux-generating holding coil adapted, when energized, to releasably hold said thrust member in its said first position and, when de-energized, to release said thrust member for movement thereof to its said intermediate position; a governor switch; means for controlling opening and closing of said governor switch as a function of vehicle drive speed such that said governor switch will open in response to bringing the vehicle to rest and



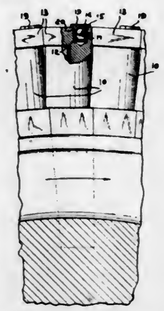
will close in response to predetermined speed of drive of the vehicle; a kickdown switch biased to closed position; an accelerator pedal for controlling operation of said throttle; means controlled by said pedal for opening said kickdown switch in response to movement of said pedal in throttle-opening direction; an ignition interrupter switch comprising three terminals adapted to be bridged and unbridged for switch closed and opened functions; means operable as a function of movement of said thrust member for controlling said interrupter switch such that said interrupter switch is open when said thrust member is in its said first and second positions but is closed as an incident to movement of said thrust member from its said first position to its said intermediate position; a time-delay relay comprising a set of relay points biased to open position; a relay coil adapted to effect closing of said points; an electrical circuit for controlling energization of said holding coil, including said governor switch and said kickdown switch in series with said holding coil; said circuit including a source of electrical energy; a ground for one of said interrupter switch terminals; a ground for one end of said relay coil; conductor means including a resistance interposed therein connecting the other end of said relay coil to said circuit so as to receive current from said energy source when said kickdown and governor switches are open; a ground circuit for interrupting said ignition system, including said relay points in series with another of said interrupter switch terminals, and including said one interrupter switch terminal; and means for electrically connecting the third of said interrupter switch terminals with said relay coil conductor means between said resistance and said relay coil.

2,349,186
SENSITIVITY CONTROL FOR SEISMIC RECORDING
Eugen Merten, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 31, 1942, Serial No. 456,842
6 Claims. (Cl. 177—352)



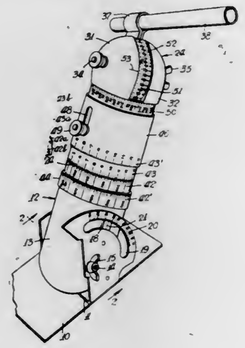
1. In a seismograph system comprising in circuit a detector adapted to generate electric impulses, an amplifier adapted to amplify said impulses and a recorder adapted to record said impulses, a variable resistance shunting said circuit between the detector and the amplifier, time-responsive means for changing the value of said resistance between an initial and a final value during the period of recording of said impulses, and means responsive to the magnitude of the impulses originating in the detector for varying the rate of change of said resistance during said period of recording.

2,349,187
VIBRATION DAMPENER
Charles A. Meyer, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 8, 1941, Serial No. 382,320
4 Claims. (Cl. 253—77)



1. In combination, a blade carried by rotor structure and extending radially with respect to the axis of rotation of the latter, and means for damping vibrations of the blade; said damping means comprising a cavity formed in the outer end portion of the blade and provided with a concave seat facing the axis of rotation, a roller of less radius than that of the seat and cooperating with the latter, and damping medium in the cavity and cooperating with the roller and the seat to provide damping between the roller and the blade.

2,349,188
ASTRONOMICAL INSTRUMENT
John A. Millar, East Orange, N. J.
Application March 9, 1943, Serial No. 478,512
11 Claims. (Cl. 35—43)

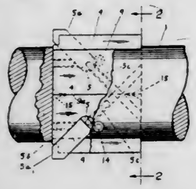


1. A universal astronomical instrument comprising a base having a bracket, a generally cylindrical body having a horizontal pivot mount in said bracket for latitude adjustment in a vertical plane, the upper end of said body having a rotary dome adjustable about the axis of the body, an associated scale therebelow, said dome including a declination ring adjustable in a plane at right angles to that for adjusting the dome, said cylindrical body having a first scale thereabout, and including a rotatable sleeve having a second scale thereabout and adjoining said first scale, a collar encompassing said sleeve and having a scale thereabout complementary to that on the sleeve, said collar being affixed with respect to said sleeve for rotary displacement in unison therewith but longitudinally slidable thereon, said collar in one setting exposing the scale on the body and the associated scale on the sleeve and in the other adjustment concealing said scales, and a scale about said body complementary to the first scale and coacting in the latter adjustment with the scale on the collar.

2,349,189
BLADE HOLDING BLOCK FOR BORING BARS
Clay E. Murray, near Davenport, Iowa
Application April 5, 1943, Serial No. 481,950
14 Claims. (Cl. 77—56)

1. A cutter-blade holding-block for use in a boring bar provided with one or more diametrical openings extending longitudinally of the bar, comprising a rigid block of a size to substantially fit the length of the opening in the bar and be slidable therethrough and having two opposite faces stepped so that shoulders are formed on said opposite faces adjacent opposite ends, the

shoulders being capable of resting simultaneously against the external surface of the bar whereby



to prevent sliding of the block through the bar when the shoulders are in engagement with the surface of the bar.

2,349,190
RECOVERY OF FINELY DIVIDED MAGNESIUM SCRAP
William Clifford Newhams, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 2, 1942, Serial No. 449,514
3 Claims. (Cl. 75—67)

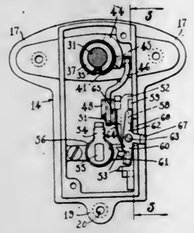
1. In a method of recovering finely-divided magnesium and magnesium-base alloy scrap, the steps which comprise: introducing the scrap into a molten body of a flux maintained at a temperature below the melting point of the scrap and stirring the resulting mixture while still at said temperature to coat the individual scrap particles with a film of flux; thereafter heating the mixture to a temperature above the melting point of the scrap and agitating to effect coalescence of the molten scrap particles; and recovering the coalesced metal.

2,349,191
MANUFACTURE OF SULPHUR DERIVATIVES OF ORGANIC COMPOUNDS
John F. Olin and Thomas E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., a corporation of Delaware
No Drawing. Application January 21, 1941, Serial No. 375,366
4 Claims. (Cl. 260—608)

1. In the manufacture of polysulphide compounds of the type represented by the formula RSSR, wherein R represents an aralkyl radical, the process comprising reacting the corresponding aralkyl halide with an alkali metal hydrosulphide in the presence of a quantity of said alkali metal hydrosulphide in excess of a stoichiometric equivalent of the quantity of aralkyl halide treated to produce a mercaptan and thereafter oxidizing the mercaptan of the resulting reaction mixture in the presence of sulphur and unreacted alkali metal hydrosulphide of said reaction mixture to produce the desired polysulphide.

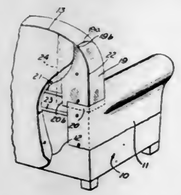
2,349,192
LOCK FOR AIRPLANE DOORS OR THE LIKE
Samuel Oxhandler, Flushing, N. Y., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut
Application December 7, 1942, Serial No. 468,051
16 Claims. (Cl. 70—208)

6. A door lock comprising a casing, bolt-operating means carried by said casing, means for actuating said bolt-operating means comprising rotatable handles at the outside and inside of the door respectively, one of said handles having a spindle thereon and the other of said handles carrying a sleeve telescopically receiving said spindle, means in said casing for effecting axial



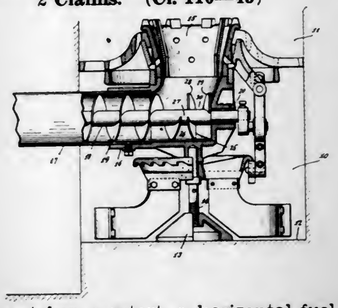
movement of one of said handles with respect to the other, and key-operated means at the outside of the door for actuating said last-named means to positively effect axial movement of said handle.

2,349,193
FURNITURE SLIP COVER
Sam Pass, Chicago, Ill.
Application September 13, 1941, Serial No. 410,708
2 Claims. (Cl. 155—182)



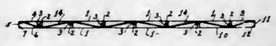
1. A furniture slipcover for an article having arms, a seat and a back rest, comprising cooperating cover portions for the arms and seat and a section for the back rest comprising front and rear panels for the front and rear surfaces respectively of the back rest, and a pair of shoulder cover sections for the shoulders of the back rest, said shoulder cover sections each comprising a generally triangular portion having convex vertical edges converging at the apex of the triangle and secured at one vertical edge thereof to the upper portion of the adjacent vertical edge of said front panel, and a portion having one vertical edge secured to said triangular portion along the opposite vertical edge of the latter and having a free vertical opposite edge extending inwardly of the back of the article into underlapping relation with respect to the rear panel and being secured at the upper edge thereof to the upper portion of the back rest cover section, said shoulder cover sections having free lower edges whereby the second mentioned portions of said shoulder cover sections can be drawn inwardly of the rear of a back rest into said underlapping relation with respect to the rear panel an extent required in adjusting the shoulder sections transversely of the shoulders and the lateral walls of a back rest into snug fitting relation therewith, the extent of the underlapping of said shoulder sections with respect to said rear panel being dependent on the dimensions of the back rest of the article, said shoulder sections being sufficiently long as to provide surplus material adapted to be overlapped at the lower portions thereof by said arm cover sections.

2,349,194
STOKER
Floyd J. Palmer, Cleveland, Ohio
Original application August 28, 1939, Serial No. 292,164. Divided and this application March 13, 1941, Serial No. 383,097
2 Claims. (Cl. 110—45)



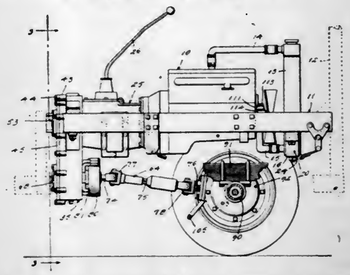
1. In a stoker, a retort, a horizontal fuel-feed tube communicating with said retort near the bottom thereof, and a feed screw in said feed tube, said feed screw extending into the lower portion of the retort and being there provided with a plurality of axially overlapping and angularly spaced pockets positioned to receive fuel fed into said retort by said feed screw, each of said pockets having opposed helical side walls of opposite hand diverging from each other in the direction of screw rotation.

2,349,195
METAL DOOR CONSTRUCTION
James F. Peelle, Richmond, Ind.
Application February 5, 1942, Serial No. 429,596
1 Claim. (Cl. 189—46)



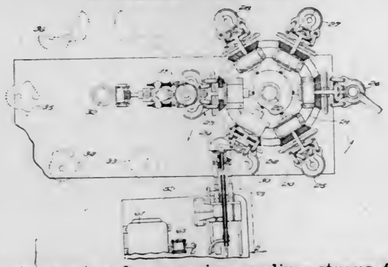
In a metal door having a pair of opposed sides, each side being composed of preformed sections having inwardly-projecting nesting edges, a sheet of fire-resistant material positioned between the sides and secured in fixed position between the nesting members of one side and the inner face of the opposite side, and with screws extending through each side into the nesting members of the opposite side and securing the sheet of fire-resistant material therebetween.

2,349,196
POWER PLANT ASSEMBLY
Arthur R. Perkins, Oneonta, N. Y.
Application July 23, 1941, Serial No. 403,733
2 Claims. (Cl. 180—12)



1. A closely coupled front drive assembly for the main frame of vehicles comprising in combination with an internal combustion engine, a power plant frame formed of a pair of parallel channel members having a length less than the total length of the main frame, said engine being disposed between and extending lengthwise of said channel members, the channels of said members being disposed in confronting relation, a pair of opposed engine supporting brackets fixed in said channels, a second pair of brackets fixed in said channels rearwardly of said first brackets, means securing the forward end of said engine to said first pair of brackets, a transmission connected to and extending from the rear end of said engine, a drive shaft below said engine, a drive connection extending downwardly from said transmission and connecting the latter with the rear end of said drive shaft, a housing about said drive connection, laterally projecting arms fixed to said housing, means securing said arms to said second pair of brackets, a transverse driven shaft beneath the forward end of said engine, and a coupling means between the forward end of said drive shaft and said transverse shaft.

2,349,197
SEAL APPLYING MACHINE
Earl R. Rehfeld, Chicago, Ill.
Application July 5, 1939, Serial No. 282,932
27 Claims. (Cl. 49—1)



1. Apparatus for severing sealing straps from a flat tape comprising a plurality of identical sealing straps and supplying them to holding means on a member adapted to move to and away from a mold to insert a strap in a recess in each mold of a plurality of molds successively presented to the member, including: means for moving the tape in steps equal to the length of a strap; means for severing the end strap from the tape at each movement thereof; and means for bending a portion of the severed strap at an angle to the remainder thereof.

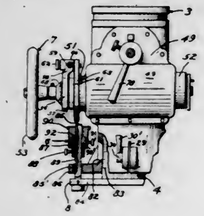
6. Apparatus of the character described for successively inserting at least a portion of a sealing element in a desired position in each of a plurality of molds, including: means for supporting a plurality of molds; means for moving said supporting means to successively bring said molds to a desired position; a member movable toward and away from said position; means on the member for releasably holding an element; and means for moving the member toward each mold as it is brought to said position to deposit the element therein.

2,349,198
PLASTIC COMPOSITION AND METHOD OF MAKING THE SAME
Orland M. Reiff and Alfred P. Kozacik, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 17, 1942, Serial No. 435,078
2 Claims. (Cl. 260—62)

1. The process which comprises polymerizing styrene in the presence of at least 10% by weight

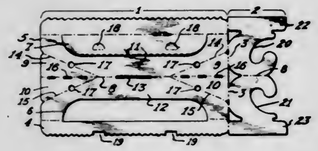
of a substance obtained by alkylating phenol with chlorinated petroleum wax of about 10% to 25% chlorine content in the presence of a Friedel-Crafts catalyst and in a mol ratio of combined chlorine to phenol not less than about 2 to 1.

2,349,199
ALL-ANGLE MILLING MACHINE ATTACHMENT
James H. Richards, Glendale, Calif., assignor to Fray Machine Tool Co., a corporation
Application February 16, 1940, Serial No. 319,290
2 Claims. (Cl. 90—16)



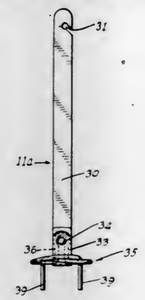
1. A milling machine attachment comprising: a spindle housing, a quill movable axially of and in said housing, a spindle rotatably supported in the quill so as to be bodily moved therewith whereby a tool on the spindle may be fed to the work, an extension on said quill, an apertured extension on said housing, a screw fixed to the quill and extending freely through the aperture in the extension of the housing and a stop member adjustable on the screw and disposed to engage the extension on the housing for controlling the feeding of the quill and spindle, said stop member being splined to said screw, and an adjusting nut threadedy engaged with said screw and rotatably coupled with said stop member for moving said member along said screw.

2,349,200
COAT HANGER
William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio
Application May 28, 1942, Serial No. 444,819
9 Claims. (Cl. 223—87)



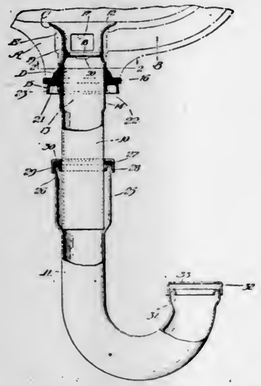
1. A paperboard coat hanger comprising a medially folded blank, a cut-out portion intermediate its length when folded, means for holding the blank in doubled position, and shoulder portions for the blank formed by fold lines converging to the central folding line, whereby the blank may be reversely folded inwardly at the shoulder portions forming four thicknesses of material at the resulting sloping structure, and a handle portion for the hanger formed of a separate piece of paperboard folded double and cut when so folded to form a hook portion and a basal projecting portion, said blank having a slot in its medial fold line for passage of the hook portion but not the basal portion.

2,349,201
SNOW GUARD FOR ROOFS
Martin Schweda, St. Albans, N. Y.
Application December 29, 1941, Serial No. 424,717
1 Claim. (Cl. 108—27)



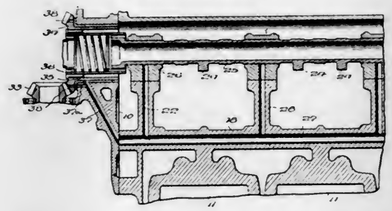
A snow guard comprising a flat elongated strip of uniform width having an inclined notch at one side and adjacent one end thereof, the opposite end of said strip having a short reversely bent portion forming a loop, a rivet securing said looped end to said strip, a unitary wire barrier member having a U-shaped loop in the plane of the strip encircling said rivet, the arms of said loop member each having outwardly and upwardly extending continuing portions and a downwardly extending continuing portion crossing each other and a forwardly extending end, said ends being spaced from each other and being in a plane parallel with that of said strip.

2,349,202
DRAIN FITTING
John Slezak, Sycamore, Ill., assignor to Turner Brass Works, Sycamore, Ill., a corporation of Illinois
Application August 3, 1942, Serial No. 453,333
5 Claims. (Cl. 4—288)



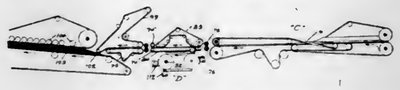
1. A drain fitting comprising a unitary, tubular member having one end flared to form a flange and having an intermediate portion slightly expanded beyond the original diameter of the tube and externally threaded to receive a clamping nut for cooperation with the flange in securing the fitting in place, said expanded portion having a smooth, internal wall and the adjacent lower portion being of the original diameter of the tube and of substantial length.

2,349,203
INTERNAL-COMBUSTION ENGINE
Louis R. Spencer, West Hartford, Conn., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn., a corporation of Connecticut
Application January 5, 1942, Serial No. 425,686
3 Claims. (Cl. 184—6)



1. In a lubricating system for the valve stems of an internal combustion engine and the cam shaft, including the intermeshing driving gears, for actuating said stems, a main lubricant passage extending parallel to said shaft with a plurality of branch ducts leading therefrom, said branch ducts terminating at the bearings for said stems and shaft and at one of said intermeshing gears, the last-mentioned gear having passages therein intermittently movable into registry with the associated branch duct for supplying lubricant to the second of said intermeshing gears.

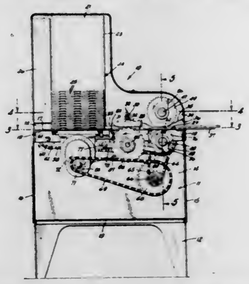
2,349,204
PAPER BOX MACHINE
Edwin G. Staude, Minneapolis, Minn.
Application August 4, 1941, Serial No. 405,325
19 Claims. (Cl. 93—49)



1. In a paper goods blank gluing and folding machine; including means for feeding a blank, means for applying adhesive to said blank, means for folding the side walls of said blank over upon the body thereof on a crease line parallel with the direction of travel, comprising gripping means traveling with the blank for gripping and holding down the four corners of the partly folded blank, oscillating means traveling with the blank for folding the leading and trailing flaps over upon the end walls of the blank, means for applying pressure over said adhesive to insure adhesive juncture, and means for delivering said blank in collapsed condition.

2,349,205
MACHINE FOR MANUFACTURING LIDS FOR MULTIPLE BOXES
Glenn E. Stilwell and Gerald C. Paxton, Riverside, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application April 3, 1940, Serial No. 327,580
1 Claim. (Cl. 144—2)

In a machine for treating unitary lids to weaken the same both longitudinally and transversely to prepare said lids for application to multiple boxes, the combination of: magazine means for receiving a store of blank lids, each of such lids having slats joined together by end cleats and a central cleat; means for feeding said lids one at a time from said magazine means along a given path and expelling said lids from said machine; means operating in timed relation with said feed means for weakening each such lid along its longitudinal axis and its lateral axis as



said lid moves between said magazine and the point of discharge thereof from said machine; and control means engaged by said lid to stop said machine when said lid has been so processed, said control means starting said machine when said lid is removed.

2,349,206
BAG
William D. Stohlman, St. Louis, Mo., and Thomas H. Ashton, Omaha, Nebr., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application September 28, 1942, Serial No. 459,928
7 Claims. (Cl. 28—78)

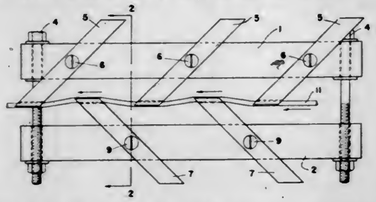


1. A bag comprising a main body portion of relatively large area of plain woven fabric composed of filling and warp threads, the filling threads running longitudinally of the bag and the warp threads running around the bag, and a basket-weave stripe woven continuously with the plain weave and running completely around the bag adjacent to the mouth, the position of said stripe being such as normally to receive piercing spikes and the like from which the bag is supported for filling, and to receive the fastening means by which the bag is ordinarily closed.

2,349,207
POLISHING APPARATUS
Joseph Stuart, II, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application December 19, 1940, Serial No. 370,801
8 Claims. (Cl. 91—53)

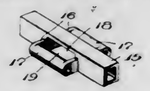
7. A wire polishing device comprising a pair of stationary support members, means intercon-

necting said members and disposed in a plane including said members, a plurality of polishing elements secured to one of said support members, and a plurality of polishing elements se-



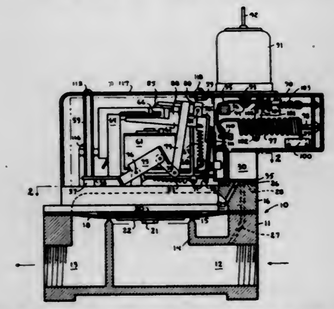
cured to the other of said support members in staggered and over-lapped relation to the polishing elements on said first support member, whereby a wire passed between said polishing elements has exerted thereon a polishing pressure.

2,349,208
CONVEYER CHAIN LINK
Jarrette A. Sudduth and Devereaux B. Lay, Port St. Joe, Fla., assignors to St. Joe Paper Company, Port St. Joe, Fla., a corporation of Florida
Application June 10, 1942, Serial No. 446,502
3 Claims. (Cl. 198—176)



1. A conveyer chain link having an elongated, hollow body of rectangular cross-section having an unbroken, plane upper surface and openings formed in two opposite side walls, lugs projecting from the sides of the body at each end of each opening, said lugs being formed with their upper surfaces below the upper surface of the body, transverse reinforce webs in the interior of said body in registry with said lugs, and coupling pin bearings between the lugs at each side of said body.

2,349,209
CONTROL DEVICE
Daniel G. Taylor, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 26, 1941, Serial No. 390,553
15 Claims. (Cl. 137—139)



1. In a control device, a first rotatably mounted member, a second rotatably mounted member pivotally connected to and adapted to be rotated by said first member, means biasing said members for rotation to a first position, said first member being rotatable over center with respect to said second member to a second position, means opposing said biasing means to prevent the return of said members to said first position, and electromagnetic means which when energized renders said opposing means inoperative whereby said biasing means returns said members to their first position.

2,349,210
PROCESS FOR IMPROVING THE COLOR OF RESINOUS COPOLYMERS OF TERPENES
William N. Traylor, Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 21, 1941, Serial No. 399,209
18 Claims. (Cl. 260—86)

4. A process for refining a terpene resinous copolymer of a pinene and styrene which comprises mixing said copolymer resin, dissolved in a solvent, with sodium acid sulfate and zinc in the presence of at least a small amount of water.

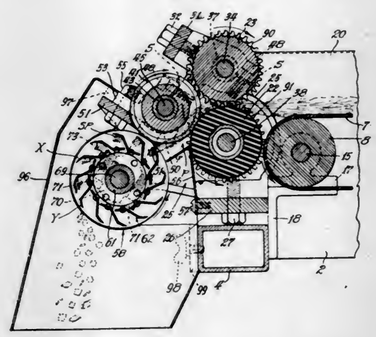
2,349,211
ALKYLATION PROCESS
Anton Johan Tulleners, Long Beach, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 11, 1941, Serial No. 414,690
6 Claims. (Cl. 260—683.4)

6. A process of alkylating an organic compound by reaction with an olefin polymer in the presence of a liquid alkylation catalyst which comprises distilling a mixture of olefin polymers containing polymers boiling above about 115° C. and lower boiling polyems to separate therefrom a polymer fraction boiling below about 115° C. characterized by being substantially free from peroxides and a fractioin of higher boiling polymer characterized by having a substantial amount of peroxides present therein, treating said fraction of higher boiling peroxide-containing polymer with a reducing agent to substantially reduce the peroxide content thereof, adding sufficient of an anti-oxidant to the thus treated higher boiling polymer to prevent substantial development of peroxides therein during storage prior to alkylation therewith and contacting the resulting mixture of low peroxide content and an excess of the organic compound to be alkylated with said alkylation catalyst under alkylating conditions whereby the yield of desirable alkylation products and the effective life of the catalyst in the alkylation are increased.

2,349,212
DICING MACHINE
William E. Urschel and Joe R. Urschel, Valparaiso, Ind.
Application August 25, 1941, Serial No. 408,160
4 Claims. (Cl. 146—78)

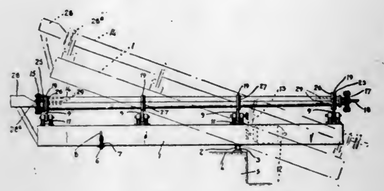
1. In a cutting machine for dividing a cuttable material initially constituting a compressible body of loosely associated parts, a feeding throat for advancing a stream of the compressible material therethrough while compressing the same into a web, means for shaping loosely associated parts of the material into said stream and directing the same into said throat, said throat comprising parallel rollers spaced apart to present axially extending portions in opposed relation for forming opposite side wall portions thereof, one of said rollers being provided with narrow rib-

like formations spaced apart circumferentially and extending axially thereof, the other of said rollers being a cutting-block roller, means for rotating said rollers in the direction to advance the material therebetween through the throat, a knife roller at the discharge end of said throat and in spaced parallelism with the cutting-block roller to provide a space between said rollers for receiving the web as it is discharged from the throat, a gang of knives rotatively fixed upon the knife roller and having circular cutting edges



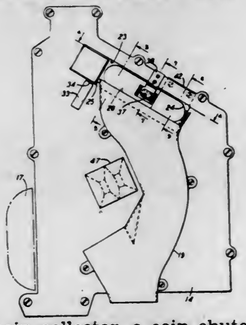
circumscribing such roller and spaced apart axially thereof, said knives being sufficiently large in diameter to bridge the space between said roller for placing their cutting edges in complemental cutting relation with the periphery of the cutting-block roller, and means for rotating the knife roller oppositely to the cutting-block roller whereby said roller and the knives thereon cooperate with the cutting-block roller in cutting the web into strips and in advancing the material through said space between these rollers.

2,349,213
CENTRIFUGAL MOLDING OF CONCRETE PRODUCTS
Russell Juan van Niekerk, Florida, Transvaal, Union of South Africa
Application August 20, 1942, Serial No. 455,513
In the Union of South Africa October 7, 1941
4 Claims. (Cl. 25—155)



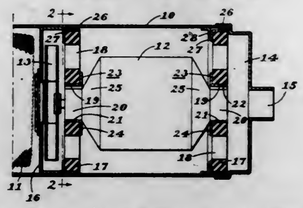
1. A method of molding a hollow tapering concrete product, consisting in inclining and slowly rotating an appropriate mold with its larger end uppermost while charging the same with material, and then subjecting the mold and material to a rapid rotation while maintaining the inclination of the mold at a degree to cause an incident gravital influence on the material sufficient to overcome the tendency of the material to creep toward the larger end of the mold under the centrifugal operation.

2,349,214
COIN OPERATED DEVICE
Leonard Vieth, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1941, Serial No. 406,793
3 Claims. (Cl. 194—101)



1. In a coin collector, a coin chute comprising spaced front and rear plates lying in substantially vertical planes and a downwardly inclined coin track down which a deposited coin rolls under the influence of gravity, said rear plate having an elongated opening above said track, and means for rejecting from said chute slugs containing magnetic material, said rejecting means comprising a first magnetic means for directing through said opening a first type of slug having a periphery of magntic material while permitting a second type of slug having a center of magnetic material and a periphery of non-magnetic material to continue rolling down said track, said rejecting means comprising a second magnetic means spaced from said first magnetic means for directing through said opening a slug of said second type.

2,349,215
VACUUM CLEANER
Karl John Wahlborg, Stockholm, Sweden, assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application July 13, 1939, Serial No. 284,203
In Germany July 13, 1938
14 Claims. (Cl. 248—26)

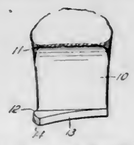


1. An electric motor support including a motor, a casing surrounding said motor, a ring of resilient material interposed between said motor and said casing, an outer ring of substantially rigid material surrounding said ring of resilient material, and an inner ring of substantially rigid material located between said motor and said ring of resilient material, said inner ring having relatively free radial play with respect to said motor.

10. A motor comprising a stationary member and a horizontal rotor, a member for mounting the motor, a resilient body interposed between said members supporting the motor on the

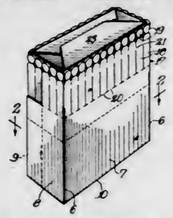
mounting member against movement perpendicular to the axis of rotation of the rotor, a face on the surface of one of said members having a substantial projected area in a plane perpendicular to the axis of rotation of the rotor, a plurality of projections on the surface of said body abutting said face to transmit the axial thrust of the motor to the mounting member, said projections being easily deformable in the direction of the motor thrust compared to the deformability of the main portion of said resilient body.

2,349,216
FOOTWEAR
Curry Ora Walper, Kitchener, Ontario, Canada
Application May 10, 1943, Serial No. 486,358
20 Claims. (Cl. 36—70)



1. In an article of footwear which includes a shank portion and a heel, a pointedly tipped elastic tongue on the heel and extending in advance of the breast thereof and spaced from the shank portion, said tongue beginning from the heel breast with its bottom surface substantially even with the plane of the tread surface of the heel and from there to its tip said tongue being normally twisted to form a forwardly and inwardly directed declivity extending from the breast of the heel to said pointed tip.

2,349,217
MATCH STRIP CIGARETTE PACKAGE WRAPPER
Harold Warp, Chicago, Ill.
Application October 5, 1940, Serial No. 359,822
5 Claims. (Cl. 206—48)



1. A wrapper for a package of cigarettes or the like comprising an elongated strip having a length slightly greater than the circumference of the package and a width substantially equal to the height of the package, a plurality of matches formed along one longitudinal edge of the strip, and flaps secured to the longitudinal edge of the strip opposite the matches to provide a closure for one end of the package.

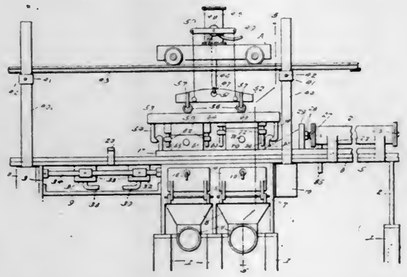
2,349,218
HEADBAND FOR WELDERS' HELMETS
James W. Welsh, Providence, R. I., assignor to Welsh Manufacturing Company, a corporation of Rhode Island
Application February 27, 1941, Serial No. 380,836
2 Claims. (Cl. 2—8)

1. In a welder's helmet, a tubular member having an inner surface to contact the wearer's head, a headband having its end portions reduced in width and telescoped within said tubular member, one extending along and in the same plane with the other, the adjacent faces of the opposed walls of the tubular member being spaced in conformity with the thickness of the said end portions and one of the walls of the tubular member having an opening therein, a



threaded member having a head non-rotatably supported in said opening with its outer surface flush with inner surface of the tubular member and having a shank extending between said reduced end portions and through the opposite and outer wall of said tubular member, and a nut on said shank to draw the head to bind the reduced portions against relative movement.

2,349,219
MOLDING MACHINE
Howard S. Wood, Lansdale, Pa.
Application May 21, 1942, Serial No. 443,999
3 Claims. (Cl. 22—9)

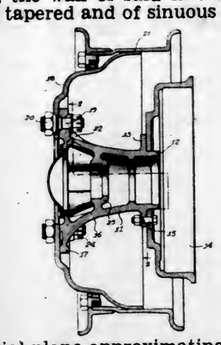


1. In a molding machine, a support, squeeze mechanisms carried by the support and spaced apart longitudinally thereof, a carriage mounted for reciprocation on the support and having openings spaced apart as are the squeeze mechanisms, a drag and a cope on the carriage and communicating with the openings, respectively, a vertically movable frame constituting a closure for the upper ends of the cope and the drag, means for coupling the frame releasably to the carriage, patterns on the frame and indivdual to the cope and the drag, means for advancing the carriage to bring the openings thereof into registration with the squeeze mechanisms, respectively, means for raising the frame to cause the patterns to clear the cope and the drag, respectively, and means for discharging molding material through the openings and into the cope and the drag, before the carriage is advanced.

2,349,220
WHEEL HUB
Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 21, 1943, Serial No. 495,591
5 Claims. (Cl. 301—105)

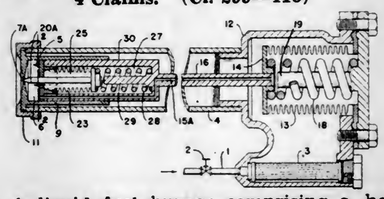
1. A cast wheel hub having a tapered body portion provided with a bolting on flange at the large

end thereof, the wall of said hub adjacent said flange being tapered and of sinuous cross-section



in a transaxial plane approximating a succession of channel bars in alternately reversed arrangement.

2,349,221
LIQUID FUEL BURNER
Harvard H. Gorrie, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 3, 1940, Serial No. 368,379
4 Claims. (Cl. 299—118)



1. A liquid fuel burner comprising a hollow member having tangential openings therethrough and forming a whirling chamber, a discharge orifice in one end of said chamber, said tangential openings admitting fluid into the chamber, valve means for varying the area of the discharge orifice, said means being responsive to variations in the pressure across said discharge orifice, and valve means to control the area of said tangential openings, said last-mentioned means being responsive to variations in the pressure across said tangential openings.

2,349,222
MANUFACTURE OF AMINES
Roland H. Goshorn, Trenton, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware
No Drawing. Original application September 26, 1940, Serial No. 358,426. Divided and this application April 2, 1942, Serial No. 437,355
4 Claims. (Cl. 260—585)

1. In the manufacture of amines, the process favoring production of mono-alkyl amines comprising passing a compound of the formula ROR′, in which R represents an alkyl radical having from one to five carbon atoms and R′ represents a member chosen from the group consisting of hydrogen and alkyl radicals having from one to five carbon atoms, together with ammonia through a conduit containing a catalyst consisting of granular alumina coated with a compound chosen from the class consisting of the oxides of chromium, nickel and cobalt, while heating the mixture to a temperature between the initial reaction temperature and the decomposition temperature of the formed amine.

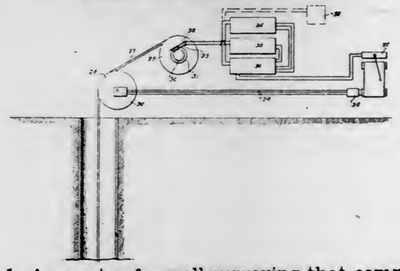
2,349,223
TREATMENT OF GARNIERITE ORES
Norman Hedley and John Joseph Kress, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 20, 1942, Serial No. 443,691
6 Claims. (Cl. 75—119)

1. A method of recovering the nickel content of garnierite ores which contain iron, which comprises subjecting the ore to a reducing roast under conditions which reduce substantially all of the nickel oxide component of the nickel silicate in the ore, leaching with an aqueous solution of sulfur dioxide containing an amount of sulfur dioxide at least theoretically sufficient to unite with all of the nickel present in the ore, precipitating nickel sulfide from the leach liquor by the addition of an amount of sodium sulfide sufficient to react chemically with substantially all of the nickel in the leach liquor without precipitating a major portion of the iron content of the leach liquor.

2,349,224
LUBRICATING COMPOSITION
Edward A. Nill, Detroit, Mich., assignor to The H. A. Montgomery Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application November 22, 1940, Serial No. 366,695
12 Claims. (Cl. 252—35)

1. A readily flowable, oily lubricating composition for internal combustion engines, comprising mineral oil, .1% to .5% of sulphur dissolved in mineral oil, a heavy metal soap in the amount of .1% to .5%, and an alcohol having at least twelve carbon atoms in a chain in the amount of .05% to .3%.

2,349,225
WELL LOGGING INSTRUMENT
Serge Alexander Scherbatskoy, Gilbert Swift, Robert Earl Fearon, and Jacob Neufeld, Tulsa, Okla., assignors to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application September 15, 1941, Serial No. 410,954
21 Claims. (Cl. 250—83.6)



1. Apparatus for well surveying that comprises an instrument adapted to be lowered into a well, a cable for supporting said instrument in the well and connecting it electrically to surface equipment, surface equipment responsive to measurements made by said instrument and a recorder operated by said surface equipment, the instrument in the well including an ionization chamber responsive to radioactive radiations, connected into a null system circuit the balance of which is adapted to be adjusted by the surface equipment, and means for sending signals of a plurality of frequencies to the surface for indicating whether or not the null system is in balance and if not, the direction of unbalance.

2,349,226
ROLLABLE WINDOW SCREEN
Harry W. Thomas, Miami Beach, Fla.
Application March 16, 1940, Serial No. 324,395
5 Claims. (Cl. 160—273)



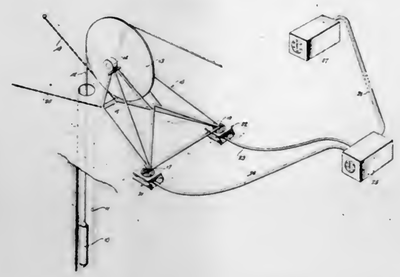
5. A rollable window screen comprising single filament resilient warp and weft strands of a synthetic resinous material; intersecting strands being complementarily crimped into resilient mesh-defining relationship, and a longitudinal flexible non-metallic binding for said screen, said binding being rollable with the screen, one end of said screen being secured to a roller, and rollable on said roller, said roller being mounted in a window frame, guides in said window frame, and means on said longitudinal binding for slidably engaging the edges of said screen with said guides, said last mentioned means comprising spaced cooperating elements secured to and extending from the binding out of the plane thereof.

2,349,227
PROCESS FOR PREPARING CONDENSED LOW LACTOSE SKIM MILK FOR STORAGE AND RECOVERY OF LACTOSE THEREFROM
Keith Cartledge Thorneloe, Wilton Woods, Va.; Ava S. Thorneloe executrix of said Keith Cartledge Thorneloe, deceased
No Drawing. Application November 20, 1940, Serial No. 366,502
6 Claims. (Cl. 99—56)

1. In a process, of recovering lactose and preparing low-lactose concentrated milk from normal skim milk, which includes adding to the normal skim milk a water-soluble sugar having substantially higher solubility than lactose; concentrating the skim milk in a concentrating apparatus; then allowing the resulting concentrate to stand over quiescent conditions to effect the crystallization of the major portion of the lactose in the form of relatively coarse crystals approximating 0.11 m. m. or larger; subsequently diluting the concentrated mixture to reduce its viscosity to render it fluid for separation; and then separating the crystallized lactose from the concentrated milk, thus obtaining a low-lactose concentrated milk; said concentrating and standing quiescent stages being preceded and maintained by precautions against spontaneous seeding.

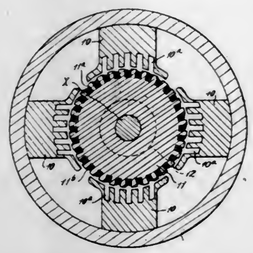
2,349,228
WEIGHING DEVICE
Paul A. Wolff, Hoboken, N. J., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporatioin of Delaware
Application February 25, 1942, Serial No. 432,343
2 Claims. (Cl. 265—47)

1. In a force measuring device adapted for use in measuring the downward pull of the suspended portion of a cable in a drill hole and anything that may be attached to it wherein the cable passes over a wheel carried by a frame, the improvement which comprises force responsive means for supporting the frame at at least one point to respond to the downward component of force exerted by the frame at said point, said means comprising a base, means carried by said base defining a chamber in the top face thereof, a diaphragm forming a closure for said chamber, a fluid in said chamber, a remotely positioned pressure indicator, means defining a passageway connecting said chamber to said remotely positioned



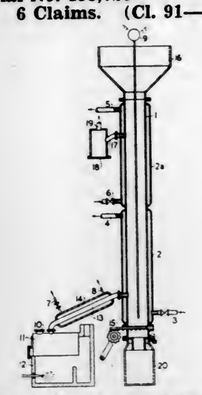
pressure indicator whereby change in pressure of the fluid in the chamber can be communicated to the indicator, means pivotally secured at one side to said base and floatingly supported by said diaphragm for engaging the frame whereby changes in downward force exerted on the frame will produce changes in pressure on the fluid in the chamber which will be indicated by the indicator.

2,349,229
METHOD OF AND APPARATUS FOR PRODUCING PULSATING CURRENT
Edward S. Hebeler, Williamsville, N. Y., assignor, by mesne assignments, to Unit Rays, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 16, 1942, Serial No. 431,050
2 Claims. (Cl. 171—252)



1. A direct current generator for producing a pulsating current suitable for arc welding purposes, said generator consisting of a plurality of pole pieces, an armature rotatably mounted in the space between the said pole pieces, and a shaft for said armature, the said armature being provided with slots extending the full length thereof, the longitudinal center of each of said slots being located in a radial plane including the axis of said shaft, and one or more electrical conductors mounted in each of said slots and extending the full length thereof, the said pole pieces each having slots extending thereinto from the faces thereof and being so spaced and arranged that they register successively and simultaneously with the outer ends of the armature slots during the rotation of the armature.

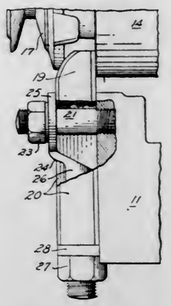
2,349,230
APPARATUS FOR THE PREPARATION OF CATALYSTS
Samuel Benson Thomas, Wilmington, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Original application April 15, 1940, Serial No. 329,698. Divided and this application April 13, 1942, Serial No. 438,723
6 Claims. (Cl. 91—18)



6. Apparatus for the preparation of catalysts by the impregnation of adsorptive solids with vapors of catalytic promoters comprising an elongated adsorption chamber, a vaporizing chamber communicating therewith at a point along the length thereof, a plurality of separately controlled heating means adapted to maintain a temperature gradient in the adsorption chamber, means for passing adsorptive solids through the adsorption chamber at a desired rate countercurrent to the flow of vapors therein, and a condenser communicating with the upper part of said adsorption chamber at a point below the point of introduction of said adsorptive solids.

2,349,231
ENGINE CONSTRUCTION
John J. Gierthy, Detroit, Mich.
Application August 12, 1942, Serial No. 454,582
4 Claims. (Cl. 74—242.13)

2. An internal-combustion engine having belt-driven accessories, one of said accessories being movable with respect to said engine to vary the effective driving length of said belt, a bracket plate upon which said movable accessory is secured, a stud on said engine, said bracket having extending forks and said stud being received therebetween and extending therebeyond, a hang-



er bolt having an offset head portion engaging said stud and a shank portion received within said fork, carrier means slidably mounted on said hanger bolt and engaging the lower end of said fork, threaded means in the lower part of said hanger bolt and engaging said carrier to vary the relative positions of said stud and bracket.

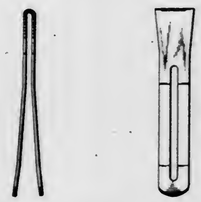
2,349,232
MANUFACTURE OF ALICYCLIC COMPOUNDS
Lloyd M. Joshel, Hyattsville, Md., assignor to the United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Application October 16, 1941, Serial No. 415,263
4 Claims. (Cl. 260—666)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process comprising heating ethylene and a 1,3-diene at a temperature below about 300° C. and at a pressure above 1000 pounds per square inch until an alicyclic compound is formed having one more six-membered ring than the original diene, and thence recovering said alicyclic compound.

DESIGNS

MAY 16, 1944

137,894
DESIGN FOR A CLOTHESPIN
Walter J. Martin, Pittsburgh, Pa.
Application April 5, 1944, Serial No. 113,149
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothespin, as shown.

137,895
DESIGN FOR A HEELPLATE FOR BOOTS AND SHOES
William E. Strobel, Maplewood, N. J., assignor to Sacks-Barlow Foundries, Inc., Newark, N. J., a corporation of New Jersey
Application March 1, 1944, Serial No. 112,760
Term of patent 14 years
(Cl. D7—5)



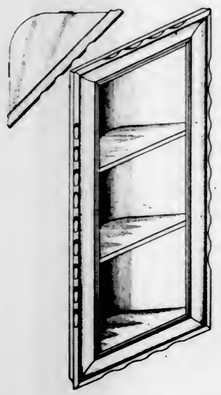
The ornamental design for a heelplate for boots and shoes, as shown.

137,896
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,190
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for an embroidered trimming or the like, as shown.

137,897
DESIGN FOR A CORNER DISPLAY CABINET
James Veltheer and Thomas C. Glenn, Toronto, Ontario, Canada
Application December 17, 1942, Serial No. 109,059
In Canada June 30, 1942
Term of patent 7 years
(Cl. D33—19)



The ornamental design for a corner display cabinet, as shown.

137,898
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,191
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for an embroidered trimming or the like, as shown.

137,899
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,192
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for an embroidered trimming or the like, as shown.

137,900
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,194
Term of patent 3½ years
(Cl. D92—1)



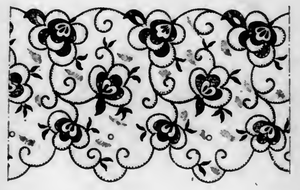
The ornamental design for an embroidered trimming or the like, as shown.

137,901
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,195
Term of patent 3½ years
(Cl. D92—1)



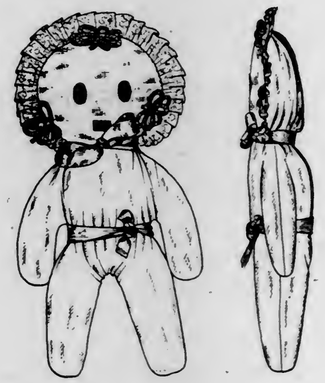
The ornamental design for an embroidered trimming or the like, as shown.

137,902
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,196
Term of patent 3½ years
(Cl. D92—1)



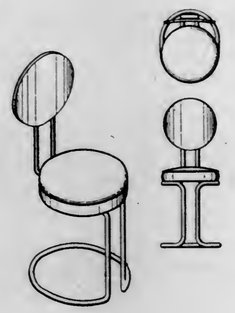
The ornamental design for an embroidered trimming or the like, as shown.

137,903
DESIGN FOR A DOLL OR SIMILAR ARTICLE
Leonard C. Asch, New York, N. Y.
Application March 3, 1944, Serial No. 112,772
Term of patent 7 years
(Cl. D34—4)



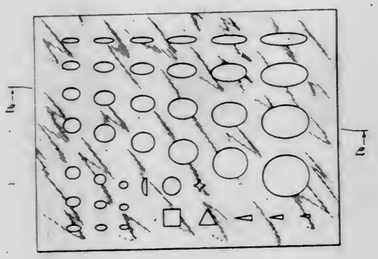
The ornamental design for a doll or similar article, substantially as shown.

137,904
DESIGN FOR A CHAIR
Walter G. Dieter, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application October 21, 1943, Serial No. 111,443
Term of patent 14 years
(Cl. D15—8)



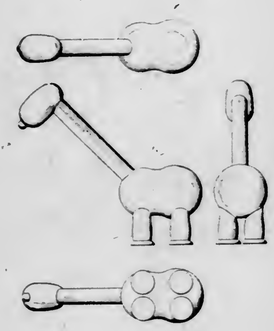
The ornamental design for a chair, substantially as shown.

137,905
DESIGN FOR A TEMPLATE
Gordon E. Kardux, Burbank, Calif.
Application February 21, 1944, Serial No. 112,652
Term of patent 7 years
(Cl. D52—1)



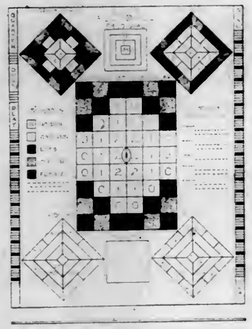
The ornamental design for a template, substantially as shown.

137,906
DESIGN FOR AN ANIMAL FIGURE
Valiquette M. Rundle, New York, N. Y.
Application March 6, 1944, Serial No. 112,786
Term of patent 7 years
(Cl. D34—2)



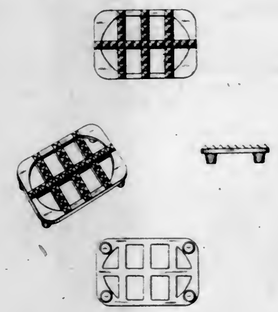
The ornamental design for an animal figure, as shown.

137,907
DESIGN FOR A DART GAME BOARD
John S. Tremper, Bethlehem, Pa.
Application February 25, 1944, Serial No. 112,719
Term of patent 14 years
(Cl. D34—5)



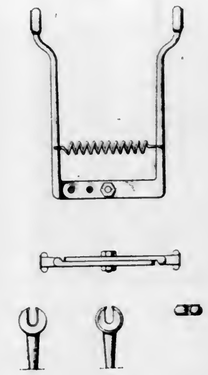
The ornamental design for a dart game board, as shown.

137,908
DESIGN FOR A SOAP HOLDER
Theola Benoto, St. Louis, Mo.
Application March 17, 1944, Serial No. 112,940
Term of patent 7 years
(Cl. D4—3)



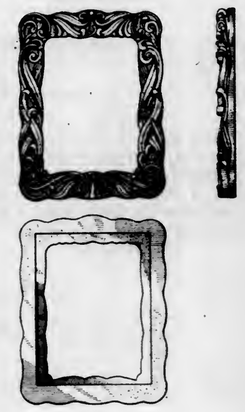
The ornamental design for a soap holder, as shown.

137,909
DESIGN FOR A TURNBUCKLE WRENCH
Irvin H. Blanchard, Wichita, Kans., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Application March 9, 1944, Serial No. 112,828
Term of patent 14 years
(Cl. D54—16)



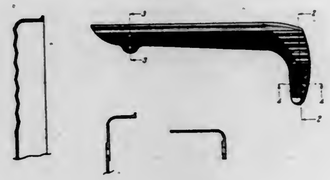
The ornamental design for a turnbuckle wrench, substantially as shown.

137,910
DESIGN FOR A FRAME FOR MIRRORS, PICTURES, AND THE LIKE
Doris M. Blanchette, Chicago Heights, Ill., assignor to Bradley Manufacturing Co., Chicago, Ill., a partnership
Application March 2, 1944, Serial No. 112,764
Term of patent 3½ years
(Cl. D29—20)



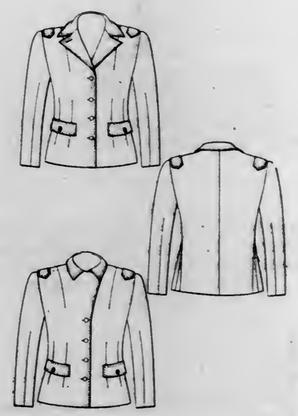
The ornamental design for a frame for mirrors, pictures, and the like, substantially as shown.

137,911
DESIGN FOR A BICYCLE CHAIN GUARD
Lawrence Blazey, Bay Village, Ohio, assignor to Central Plastic Products Corporation, Cleveland Heights, Ohio, a corporation of Ohio
Application December 23, 1943, Serial No. 112,081
Term of patent 14 years
(Cl. D90—5)



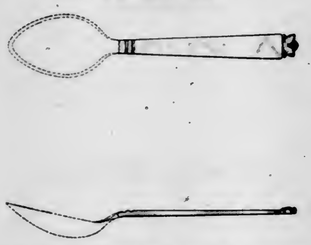
The ornamental design for a bicycle chain guard, as shown.

137,912
DESIGN FOR A JACKET
Helen C. Cookman, New York, N. Y.
Application March 9, 1943, Serial No. 109,702
Term of patent 7 years
(Cl. D3—4)



The ornamental design for a jacket, as shown.

137,913
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Knut L. Gustafson, Chicago, Ill.
Application March 27, 1944, Serial No. 113,047
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or other article of flatware, as shown.

137,914
DESIGN FOR A COMBINED CUTTER AND EJECTOR FOR BISCUITS, COOKIES, OR THE LIKE
Frank A. Johnson, San Francisco, Calif.
Application March 22, 1943, Serial No. 109,787
Term of patent 14 years
(Cl. D44—29)



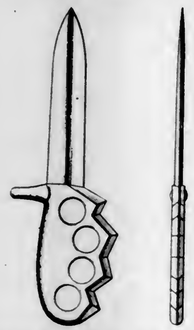
The ornamental design for a combined cutter and ejector for biscuits, cookies, or the like, as shown.

137,915
DESIGN FOR A TACK HAMMER
Charles W. Kegg, Huntington, Ind.
Application November 9, 1943, Serial No. 111,634
Term of patent 7 years
(Cl. D93—4)



The ornamental design for a tack hammer, as shown.

137,916
DESIGN FOR A KNIFE
Rudolph Mrazek, Robstown, Tex.
Application February 1, 1944, Serial No. 112,398
Term of patent 14 years
(Cl. D22—3)



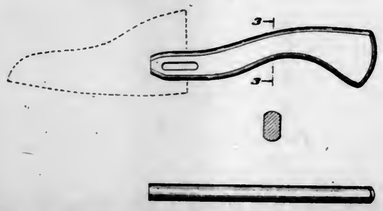
The ornamental design for a knife, as shown.

137,917
DESIGN FOR AN INSIGNIA PIN
Cleo Anne Osborn, Alexandria, Va., assignor to Felch & Co., Providence, R. I., a partnership consisting of James P. Felch and Victor Primavera
Application August 24, 1943, Serial No. 110,988
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for an insignia pin, substantially as shown.

137,918
DESIGN FOR A SHOE TREE
Louis W. Reinhardt, Brockton, Mass., assignor to George E. Belcher Company, Stoughton, Mass., a corporation of Massachusetts
Application October 15, 1943, Serial No. 111,373
Term of patent 3½ years
(Cl. D7—3)



The ornamental design for a shoe tree, as shown and described.

137,919
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 24, 1944, Serial No. 113,029
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a liturgical fabric or similar article, substantially as shown.

137,920
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 24, 1944, Serial No. 113,030
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a liturgical fabric or similar article, substantially as shown.

137,921
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 24, 1944, Serial No. 113,031
Term of patent 7 years
(Cl. D92—1)



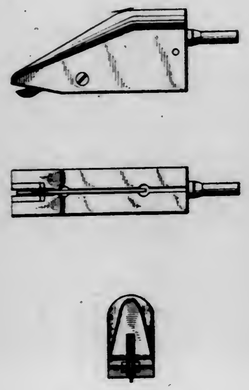
The ornamental design for a liturgical fabric or similar article, substantially as shown.

137,922
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 24, 1944, Serial No. 113,032
Term of patent 7 years
(Cl. D92—1)



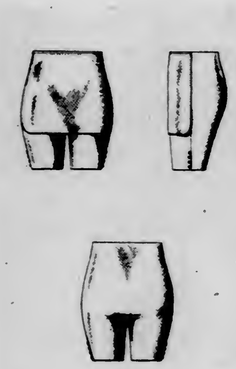
The ornamental design for a liturgical fabric or similar article, substantially as shown.

137,923
DESIGN FOR A METAL CUTTER
Charles L. Beard, Lancaster, Pa.
Application August 23, 1943, Serial No. 110,978
Term of patent 3½ years
(Cl. D54—13)



The ornamental design for a metal cutter, as shown.

137,924
DESIGN FOR A WOMAN'S PANTS
Joe Brodigan, Brooklyn, N. Y.
Application January 11, 1944, Serial No. 112,213
Term of patent 7 years
(Cl. D3—17)



The ornamental design for a woman's pants, as shown.

137,925
DESIGN FOR AN EMBROIDERED TRIMMING
Milton Jarlien, New York, N. Y.
Application February 28, 1944, Serial No. 112,737
Term of patent 3½ years
(Cl. D92—1)



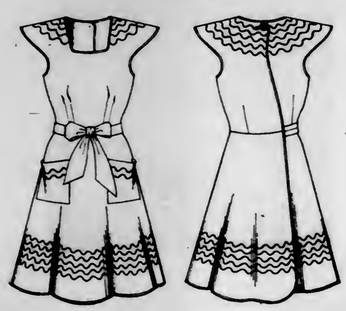
The ornamental design for an embroidered trimming, as shown.

137,926
DESIGN FOR AN APRON
Joseph Nachman and Jack Nachman, Philadelphia, Pa.
Application March 22, 1944, Serial No. 112,991
Term of patent 14 years
(Cl. D3—26)



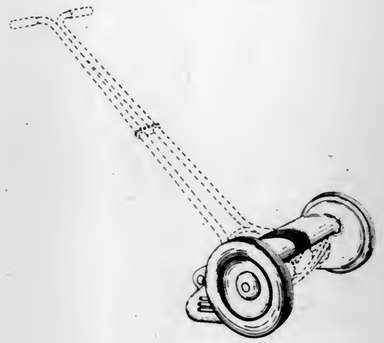
The ornamental design for an apron, substantially as shown.

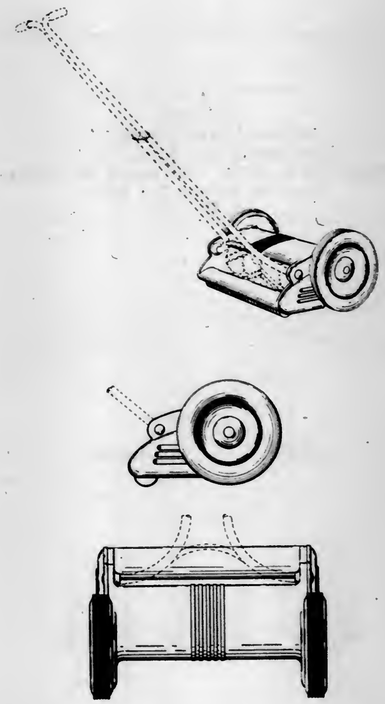
137,927
DESIGN FOR AN APRON
Joseph Nachman and Jack Nachman, Philadelphia, Pa.
Application March 22, 1944, Serial No. 112,992
Term of patent 14 years
(Cl. D3—26)



The ornamental design for an apron, substantially as shown.

137,928
DESIGN FOR A LAWN MOWER
Earl L. Schofield, Auburn, Ind., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Application May 26, 1943, Serial No. 110,302
Term of patent 14 years
(Cl. D40—1)





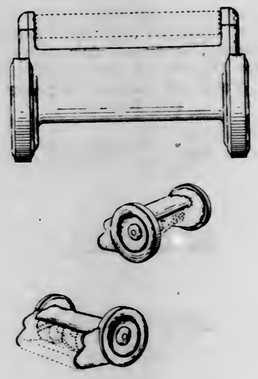
The ornamental design for a lawn mower, substantially as shown and described.

137,929
DESIGN FOR A HANDLE FOR A LAWN MOWER
Earl L. Schofield, Auburn, Ind., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Application May 26, 1943, Serial No. 110,303
Term of patent 14 years
(Cl. D40—1)



The ornamental design for a handle for a lawn mower, substantially as shown.

137,930
DESIGN FOR A HEAD FOR A LAWN MOWER
Earl L. Schofield, Auburn, Ind., assignor to Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Application October 9, 1943, Serial No. 111,325
Term of patent 14 years
(Cl. D40—1)



The ornamental design for a head for a lawn mower, substantially as shown and described.

137,931
DESIGN FOR A DRESS
Texie Tilton, Webster Groves, Mo.
Application April 5, 1944, Serial No. 113,147
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, as shown.

137,932
DESIGN FOR A TEXTILE FABRIC
Adolph M. Kemper, Larchmont, N. Y.
Application March 16, 1944, Serial No. 112,922
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown.

137,933
DESIGN FOR A CIGARETTE HOLDER
Edward F. Needham, Alhambra, Calif.
Application October 9, 1943, Serial No. 111,320
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a cigarette holder, as shown.

137,934
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 24, 1944, Serial No. 113,341
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,935
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 24, 1944, Serial No. 113,342
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

137,936
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application April 24, 1944, Serial No. 113,344
Term of patent 3½ years
(Cl. D3—26)



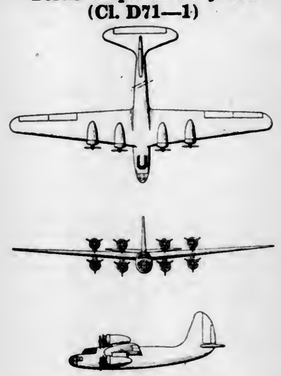
The ornamental design for a dress, substantially as shown.

137,937
DESIGN FOR A MOUNTING CORNER
Albert W. Engel, Chicago, Ill.
Application February 23, 1943, Serial No. 109,611
Term of patent 14 years
(Cl. D61—1)

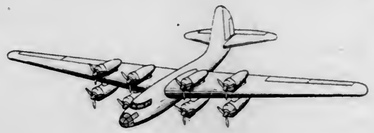


The ornamental design for a mounting corner, substantially as shown and described.

137,938
DESIGN FOR AN AIRPLANE
Othmar F. Maycen, New York, N. Y.
Application June 16, 1943, Serial No. 110,467
Term of patent 7 years
(Cl. D71—1)



137,938—Continued



The ornamental design for an airplane, substantially as shown and described.

137,939
DESIGN FOR A COMBINATION STAPLE REMOVER AND LETTER OPENER
Fridolin Polzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Application October 7, 1943, Serial No. 111,290
Term of patent 14 years
(Cl. D74—1)

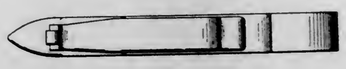




The ornamental design for a combination staple remover and letter opener, substantially as shown and described.

137,940
DESIGN FOR A STAPLE REMOVER
Fridolin Polzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Application October 7, 1943, Serial No. 111,291
Term of patent 14 years
(Cl. D74—1)





The ornamental design for a staple remover, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Isopropyl alcohol rubbing compound. Serial No. 462,436; May 16. Class 6.

Aircraft-Marine Products Inc., Harrisburg, Pa. Electrical condensers. Serial No. 467,553; May 16. Class 21.

Arbogast, Fred, Akron, Ohio. Artificial bait. Serial Nos. 467,799–800; May 16. Class 22.

Berkshire Knitting Mills, Wyomissing, Reading, Pa. Hosiery. Serial No. 468,223; May 16. Class 39.

Bloomingdale Bros., Inc., New York, N. Y. Ready-mixed paints. Serial No. 467,511; May 16. Class 16.

Brown-Forman Distillers Corporation, Louisville, Ky. Rum. Serial No. 468,277; May 16. Class 49.

Clark Door Company, Inc., Newark, N. J. Motor-operated automatic folding door. Serial No. 465,224; May 16. Class 12.

Cleveland Tungsten, Inc., Cleveland, Ohio. Tungsten ingots, tungsten rods, tungsten strips, etc. Serial No. 463,313; May 16. Class 14.

Collins, Ashton B., doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Circulars, booklets, and printed advertising material. Serial No. 467,959; May 16. Class 38.

Columbia-Walescraft Co., New York, N. Y. Billfolds, wallets, key cases, etc. Serial No. 464,476; May 16. Class 3.

Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes and structural parts thereof. Serial No. 464,811; May 16. Class 19.

Continental-Diamond Fibre Company, Newark, Del. Built-up mica plate. Serial No. 463,775; May 16. Class 1.

Continental Motors Corporation, Detroit and Muskegon, Mich. Power and lighting plant assemblies. Serial No. 463,414; May 16. Class 21.

Crest Fabrics Corp., New York, N. Y. Textile fabrics in the piece. Serial No. 467,596; May 16. Class 42.

Crown Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. Serial No. 467,649; May 16. Class 42.

De Long Hook and Eye Company, The, Philadelphia, Pa. Bob pins. Serial No. 467,488–9; May 16. Class 40.

De Valls, Maria G., St. Croix, Virgin Islands. Internal compounded medicine. Serial No. 466,727; May 16. Class 6.

Dow, Jones & Company, New York, N. Y. Daily newspaper. Serial No. 467,335; May 16. Class 38.

Ehrsam, Marthe H., doing business as The Victor Tool Company, Reading, Pa. Edge cutting implements of the machete type. Serial No. 458,876; May 16. Class 23.

Eisenstadt Manufacturing Company, St. Louis, Mo. Pocket knives and electric razors. Serial No. 463,479; May 16. Class 23.

Etkin-Banner Co., Inc., The, New York, N. Y. Women's and misses' coats, suits, dresses and jackets. Serial No. 468,193; May 16. Class 39.

Everfast Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 467,603; May 16. Class 42.

Everfast Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 467,659; May 16. Class 42.

Farrington, Eliot G., doing business as Farrington Products Co., Detroit, Mich. Brushless and lather shaving creams. Serial No. 460,094; May 16. Class 4.

Farrington Products Co. (See Farrington, Eliot G.)

Filtrol Corporation, Los Angeles, Calif. Chemically treated colloidal clay. Serial No. 468,019–22; May 16. Class 6.

Fisher Scientific Company, iPttsburgh, Pa. Inert chemical compound. Serial No. 468,073; May 16. Class 6.

Forstmann Woolen Co., The, Passaic, N. J. Woolen piece goods. Serial No. 467,563; May 16. Class 42.

Freedman-Nicolelli, Inc., Jacksonville, Fla. Nurses' and maids' uniforms. Serial No. 465,984; May 16. Class 39.

Freedom Oil Company, Freedom, Pa. Paint thinner. Serial No. 468,412; May 16. Class 16.

General Desserts Corporation, New York, N. Y. Fruit concentrate. Serial No. 467,432; May 16. Class 45.

Goodyear Tire & Rubber Company, Akron, Ohio. Thermal and sound insulating material. Serial No. 466,794–5; May 16. Class 12.

Harris, J. E., Company, The, Wooster, Ohio, and Atlanta, Ga. Flat wall paint. Serial No. 464,781; May 16. Class 16.

Haythornthwaite & Sons Limited, Burnley, England. Raincoats, trousers, jackets, etc. Serial No. 463,671; May 16. Class 39.

Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparation. Serial No. 468,029; May 16. Class 6.

Johns-Manville Corporation, New York, N. Y. Impregnated, chemically resistant asbestos cement sheets or slabs. Serial No. 462,994; May 16. Class 12.

Jonat Candy Corp., Brooklyn, N. Y. Candy. Serial No. 463,022; May 16. Class 46.

Jonthay, New York, N. Y. Perfumes. Serial No. 468,117; May 16. Class 6.

Katz, Joseph M., Pittsburgh, Pa. Stationery. Serial No. 467,525; May 16. Class 37.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Children's and infants' furnishings. Serial No. 467,036; May 16. Class 42.

Lehman-Baer Co. Inc., Baltimore, Md. Boys' suits, sun suits, overalls, and shorts. Serial No. 468,145; May 16. Class 39.

Les Parfums De Dana, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. Serial No. 465,040; May 16. Class 6.

Manchester (Home & Export) Limited, Manchester, England. Children's coats. Serial No. 465,716; May 16. Class 39.

Meyerhoff, Arthur, & Company, Chicago, Ill. Radio script issued periodically. Serial No. 468,119; May 16. Class 38.

Morris White Fashions, Inc., New York, N. Y. Ladies' handbags. Serial No. 468,359; May 16. Class 3.

National Telephone Supply Company, The, Cleveland, Ohio. Electrical connecting units. Serial No. 468,467; May 16. Class 21.

Nutone, Incorporated, Cincinnati, Ohio. Hydraulic dish washing machines. Serial No. 465,717; May 16. Class 23.

Old Dutch Industrial Products Co., Inc., Kearny, N. J. Leather dyes. Serial No. 467,534; May 16. Class 6.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Electroplating solutions, electroplating electrolyte, etc. Serial No. 466,709; May 16. Class 6.

Phillips Petroleum Company, Bartlesville, Okla. Carbon compounding material. Serial No. 466,101; May 6. Class 1.

Phillips Petroleum Company, Bartlesville, Okla. Carbon black. Serial No. 466,102; May 16. Class 1.

Piezoelectric Corporation, Flemington, N. J. Power transmission machineries, drives, and mechanisms. Serial No. 466,620; May 16. Class 23.

Radio Development & Research Corporation, New York, N. Y. Electronic equipment and accessories. Serial No. 459,084; May 16. Class 21.

Reddy Kilowatt. (See Collins, Ashton B.)

Schultz, Lightfoot, Co., New York, N. Y., and Hoboken, N. J. Soaps and shaving cream. Serial No. 468,487; May 16. Class 4.

Sears, Roebuck and Co., Chicago, Ill. Power boats and row boats. Serial No. 459,638; May 16. Class 19.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Piece goods of rayon or cotton and/or combinations thereof. Serial No. 467,382; May 16. Class 42.

Smart Maid Coat Co., Inc., New York, N. Y. Girls' and misses' cloth coats. Serial No. 461,573; May 16. Class 39.

Smit, J. K., & Sons, Inc., New York, N. Y. Diamond bits. Serial No. 467,983; May 16. Class 23.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Heating and illuminating oils. Serial No. 467,624; May 16. Class 15.

Stein, Fred, Laboratories, The, Atchison, Kans. Apparatus for testing the amount of moisture in materials. Serial No. 467,412; May 16. Class 26.

Street & Smith Publications, Inc., New York, N. Y. Cartoon strips and illustrated fictional stories. Serial Nos. 468,173–4; May 16. Class 38.

Street & Smith Publications, Inc., New York, N. Y. Cartoon strips and illustrated fictional stories. Serial No. 468,176; May 16. Class 38.

Tremco Manufacturing Company, The, Cleveland, Ohio. Paint enamels. Serial No. 466,182; May 16. Class 16.

Tuff-Hard Corporation, Detroit, Mich. Machine tools, tool bits, cutting tools. Serial No. 453,450; May 16. Class 23.

United Conveyor Corporation, Chicago, Ill. Plastic pipe joint cement. Serial No. 459,797; May 16. Class 12.

Universal Zonolite Insulation Co., Chicago, Ill. Poultry litter. Serial No. 467,628; May 16. Class 1.

Vegetable Ivory Button Institute, Inc., New York, N. Y. Vegetable ivory buttons. Serial No. 465,163; May 16. Class 40.

Velso Products Company, Burlington, Iowa. Soap impregnated paper. Serial No. 468,401; May 16. Class 4.

Victor Tool Company, The. (See Ehrsam, Marthe H.)

Walker, Leonard, doing business as Walker Remedy Mfg. Co., Chicago, Ill. Preparation in liquid form. Serial No. 467,704; May 16. Class 6.

Walker Remedy Mfg. Co. (See Walker, Leonard.)

Wamsutta Mills, New Bedford, Mass. Cotton piece goods, sheets, and pillow cases. Serial No. 468,055; May 16. Class 42.

Wean Engineering Company, Inc., The, Warren, Ohio. Steel-mill machinery. Serial No. 467,504; May 16. Class 23.

Woodworth, N. A., Company, Ferndale, Mich. Gage for measuring comparative sizes of machined parts or the like. Serial No. 467,636; May 16. Class 26.

Xylon Closure Corporation, New York, N. Y. Bottle caps. Serial No. 467,933; May 16. Class 50.

Youngstown Alloy Casting Corporation, Youngstown, Ohio. Steel and steel alloy castings. Serial No. 467,740; May 16. Class 14.

Zendman, I., Inc., New York, N. Y. Lace and netted fabrics in the piece. Serial No. 467,637; May 16. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Products Company, New Orleans, and De Quincy, La., assignor, by mesne assignments, to Newport Industries, Inc., Pensacola, Fla. Products from the distillation of pine wood. 184,818; renewed June 3, 1944.

Alabama Packing Company, Birmingham, Ala. Cured hams, boiled hams, and bacon. 187,734; renewed Aug. 12, 1944.

Amalgamated Mercantile Corporation, New York, N. Y. Ladies' and misses' coats, suits, skirts, etc. 407,140; May 16. Class 39.

American Bleached Goods Company, Inc., New York, N. Y. Piece goods. 407,060–1; May 16; Serial Nos. 464,866–7; published Feb. 1, 1944. Class 42.

American Breddo Corporation, New York, N. Y. Compound, powder or mix for use in the manufacture of frozen desserts. 407,092; May 16; Serial No. 465,856; published Mar. 7, 1944. Class 46.

American Chewing Products Corp., doing business as Pleasant Products Co., Newark, N. J. Chewing gum. 407,093; May 16; Serial No. 465,857; published Mar. 7, 1944. Class 46.

American Chewing Products Corp., Newark, N. J. Chewing gum. 407,094; May 16; Serial No. 465,860; published Mar. 7, 1944. Class 46.

American Shear Knife Company, West Homestead, Pa. Shear knives and finished die blocks. 407,023; May 16; Serial No. 461,834; published Feb. 22, 1944. Class 23.

American Thread Company, The., New York, N. Y. Cotton thread. 188,359; renewed Aug. 26, 1944.

Amerspun Company. (See Rosen, Saul.)

Anderson, Harry G., doing business as 4-in-1 Product Co., New York, N. Y. Scalp cream preparation. 407,062; May 16; Serial No. 464,868; published Feb. 29, 1944. Class 6.

Anheuser-Busch, Inc., St. Louis, Mo., Ginger ale. 188,362; renewed Aug. 26, 1944.

Art Steel Sales Corporation, New York, N. Y. Filing cabinets. 407,039; May 16; Serial No. 463,742; published Mar. 7, 1944. Class 32.

Audubon Wire Cloth Corporation, Philadelphia, Pa. Wire fabric. 407,129–31; May 16. Class 13.

Beaunit Mills, Inc., New York, N. Y. Knitted fabrics in the piece. 407,099; May 16; Serial No. 465,973; published Feb. 22, 1944. Class 42.

Bell Brothers, Lake Monroe, Fla., to Bell Celery Company, Sarasota, Fla. Fresh vegetables. 185,280; renewwed June 10, 1944.

Bell Celery Company. (See Bell Brothers.)

Bibby, J., & Sons Limited, Liverpool, England. Food for cattle. 182,347; renewed Apr. 8. Class 46.

Big Boy, Inc., Winston-Salem, N. C. Non-alcoholic, maltless, carbonated, beverages, and the ingredients for making the same. 407,038; May 16; Serial No. 463,641; published Feb. 8, 1944. Class 45.

Boyle, John, & Company, Incorporated, New York, N. Y. Awning stripes and ticking. 188,693; renewed Sept. 2, 1944.

Boyle, John, & Company, Incorporated, New York, N. Y. Awning strips and ticking. 189,100; renewed Sept. 9, 1944.

Boyle, John, & Company, Incorporated, New York, N. Y. Awning stripes and ticking. 189,106; renewed Sept. 9, 1944.

Bradford Dyers' Association, Limited, Bradford, England. Dyed cotton piece goods, silk piece goods, woolen piece goods, etc. 187,141; renewed July 29, 1944.

Bray, Geo., & Co., Limited, Leeds, England. Gas burners. 186,280; renewed July 8, 1944.

Bristol-Myers Company. (See Lewis Bros., Inc., assignor.)

British Needle Company Limited, The, Redditch, England. Hand sewing needles, crochet hooks, knitting pins and hat pins. 407,021; May 16; Serial No. 460,827; published Feb. 8, 1944. Class 40.

Brown Durrell Co., Boston, Mass., to Brown Durrell Co., Boston, Mass. and New York, N. Y. Knitted and woven underwear. 189,188; renewed Sept. 16, 1944.

Browning King & Co., Inc., Philadelphia, Pa. Men's and young men's suits, topcoats, and overcoats. 407,145–6; May 16. Class 39.

Bryant Products, Inc., Brooklyn, N. Y. Steel wool paste for cleaning and polishing aluminum, tin, brass, etc. 407,085; May 16; Serial No. 465,704; published Mar. 7, 1944. Class 4.

Buston, J. G., doing business as The Sun Rise Bottling Co., Tazewell, Va. Non-alcoholic maltless beverages and syrups for making the same. 407,081; May 16; Serial No. 465,472; published Feb. 8, 1944. Class 45.

C-Thru Ruler Company, Hartford, Conn. Ruling and calculating instruments. 407,143; May 16. Class 26.

Canby, Ach & Canby Co., The, Dayton, Ohio, assignor to Wm. S. Scull Company, Camden, N. J. Salad mustard. 184,998; renewed June 3, 1944.

Cartwright, W. B., Limited, Rawdon, near Leeds, England. Compressed tablets, lozenges and pastilles. 407,019; May 16; Serial No. 459,161; published July 13, 1943. Class 6.

Castilla Products, Inc., New York, N. Y. Perfumes and toilet water. 407,086–7; May 16; Serial Nos. 465,705–6; published Feb. 29, 1944. Class 6.

Castle, Eugene W., doing business as Castle Films, San Francisco, Calif., assignor to Castle Films, Inc., New York, N. Y. Motion-picture films. 188,963; renewed Sept. 9, 1944.

Castle Films. (See Castle, Eugene W.)

Castle Films, Inc. (See Castle, Eugene W., assignor.)

Cella, K., Co., New York, N. Y. Candy. 407,113; May 16; Serial No. 466,253; published Mar. 7, 1944. Class 46.

Chalmers Chemical Company, Newark, N. J. Cleansing preparation. 182,661; renewed Apr. 15, 1944.

Cheramy, Inc., New York, N. Y. Toilet soap. 407,119; May 16; Serial No. 466,323; published Mar. 7, 1944. Class 4.

Chicago Blow Pipe Co., Chicago, Ill. Shavings and dust-collecting systems and apparatus. 188,955; renewed Sept. 9, 1944.

Chromat-O-Scope Company, Los Angeles, Calif. Viewer for viewing slides and films, etc. 407,014; May 16; Serial No. 456,934; published Mar. 7, 1944. Class 26.

Clear Weave Hosiery Stores, Inc., Boston, Mass. Women's and girls' hosiery and underwear. 407,015; May 16; Serial No. 457,028; published Mar. 7, 1944. Class 39.

Coates, James E., and Company, Chicago, Ill. Men's cosmetics. 407,030; May 16; Serial No. 463,143; published Feb. 29, 1944. Class 6.

Cohen, Goldman & Co., Inc., New York, N. Y. Men's and children's outer garments, and women's and children's outer garments. 186,934; renewed July 22, 1944.

Cohen, Goldman & Co., Inc., New York, N. Y. Outer garments. 188,092; renewed Aug. 19, 1944.

Cohen, Goldman & Co., Inc., New York, N. Y. Knitted fabric. 187,112; renewed July 29. 1944.

Cohen, Goldman & Co., Inc., New York, N. Y. Knitted fabric. 187,236; renewed July 29, 1944.

Cohen, Goldman & Co., Inc., New York, N. Y. Men's and children's overcoats. 187,583; renewed Aug. 5, 1944.

Comet Rice Mills, Inc. (See Seaboard Rice Milling Company, assignor.)

Consolidated Textile Co., Inc. (See Consolidated Textile Corporation, assignor.)

Consolidated Textile Corporation, assignor to Consolidated Textile Co., Inc., New York, N. Y. Sheeting. 184,098; renewed May 20, 1944.

Cope Brothers and Company, Limited, Liverpool and London, England. Smoking tobacco. 187,771; renewed Aug. 12, 1944.

Cornibert, Charles A., New York, N. Y. Ladies' and misses' scarfs, dickeys, collars, etc. 407,133; May 16. Class 39.

Cornibert, Charles A., New York, N. Y. Ladies' and misses' Windsor ties. 407,135; May 16. Class 39.

Corning Glass Works, Corning, N. Y. Rotating seal rings for centrifugal pumps, etc. 407,007; May 16; Serial No. 453,710; published Mar. 7, 1944. Class 35.

Crawford, McGregor and Canby Company, The, Dayton, Ohio, assignor, by mesne assignments, to Sport Products, Inc., Cincinnati, Ohio. Golf clubs. 188,932; renewed Sept. 9, 1944.

Curtice Brothers Co., Rochester, N. Y. Preparation for seasoning chili sauce, tomato juice cocktail, etc. 407,025; May 16. Serial No. 462,335; published Oct. 19. Class 46.

David Crystal Inc., New York, N. Y. Ladies' and misses' dresses, coats, suits, etc. 407,101; May 16. Serial No. 466,005; published Mar. 7, 1944. Class 39.

David Crystal Inc., New York, N. Y. Ladies' and misses' dresses, coats, suits, etc. 407,102; May 16; Serial No. 466,006; published Feb. 29, 1944. Class 39.

Deering Milliken & Co., Inc. (See Garner Print Works & Bleachery, assignor.)

Desmond's, Los Angeles, Calif. Smoking tobacco. 407,076; May 16; Serial No. 465,251; published Mar. 7, 1944. Class 17.

Detroit Tomato and Produce Company. (See Detroit Tomato Company.)

Detroit Tomato Company, by change of name to Detroit Tomato and Produce Company, Detroit, Mich. Fresh tomatoes. 185,882; renewed June 24, 1944.

Dick, A. B., Company. (See Gestetner, D., Limited, assignor.)

Distribution and Warehousing Publications, Inc., New York, N. Y. Section of a periodical. 407,059; May 16; Serial No. 464,812; published Feb. 22, 1944. Class 38.

Ditman, Joshua A., Laurel, Md. Milky disease spore dust. 407,108; May 16; Serial No. 466,195; published Feb. 29, 1944. Class 6.

Donnybrook Coat and Suit Co., New York, N. Y. Ladies' and misses' coats, suits, and jackets. 407,147–8; May 16. Class 39.

Eagle Chemical Co. (See Schlesinger, Joseph H.)

Eagle Grocery Co., Pittsburgh, Pa., assignor to The Kroger Grocery & Baking Co., Cincinnati, Ohio. Canned vegetables and eggs. 182,406; renewed Apr. 8, 1944.

Eastern Trouser Company. (See Orlovitz, Martin.)

Eavenson, Howard N., W. W. Goldsmith, and J. J. Moore, receivers for the Elk Horn Coal Corporation, Charleston, W. Va. Bituminous coal. 407,126; May 16. Class 1.

Electrical Development Company, Los Angeles, Calif. Electrical motors, generators, transformers, etc. 407,080; May 16; Serial No. 465,452; published Mar. 7, 1944. Class 21.

Elk Horn Coal Corporation. (See Eavenson, H. N., Goldsmith, and Moore.)

Eyeful Magazine, Inc., New York, N. Y. Quarterly pictorial humorous periodical. 407,033; May 16; Serial No. 463,484; published Feb. 29, 1944. Class 38.

F-R Publishing Corporation, The, New York, N. Y. Magazine column. 407,096; May 16; Serial No. 465,914; published Feb. 29, 1944. Class 38.

Fairbanks, Morse & Co., Chicago, Ill. Self propelled and manually propelled rail cars. 407,064–5; May 16; Serial Nos. 464,917–18; published Feb. 29, 1944. Class 19.

Fedden Brothers Company, Inc., New York, N. Y. Hosiery. 407,117; May 16; Serial No. 466,272; published Mar. 7, 1944. Class 39.

Fellom, Roy, Jr., San Francisco, Calif. Magazine published bi-monthly. 407,027; May 16; Serial No. 462,474; published Feb. 29, 1944. Class 38.

Ferro Enamel Corporation, Cleveland, Ohio. Mixture of finely divided fusible materials. 407,024; May 16; Serial No. 461,922; published Jan. 11, 1943. Class 16.

First Texas Chemical Manufacturing Company, Dallas, Tex. Preparation for the treatment of infant bowel disorders. 185,989; renewed July 1, 1944.

First Texas Chemical Manufacturing Company, Dallas, Tex. Internal medicine for the treatment of amenorrhea, dysmenorrhea, etc. 187,990; renewed Aug. 12, 1944.

First Texas Chemical Manufacturing Company, Dallas, Tex. Internal medicine for digestive and stomach troubles. 187,991; renewed Aug. 12, 1944.

First Texas Chemical Manufacturing Company, Dallas, Tex. Ointment for the treatment of skin infections. 187,992; renewed Aug. 12, 1944.

Flint & Walling Mfg. Co. Inc., Kendallville, Ind. Concrete machinery. 407,053; May 16; Serial No. 464,570; published Feb. 29, 1944. Class 23.

Fores, John O., Los Angeles, Calif. Fresh avocados. 407,097; May 16; Serial No. 465,949; published Mar. 7, 1944. Class 46.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 181,988; renewed Apr. 1, 1944.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 182,412; renewed Apr. 8, 1944.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 183,090; renewed Apr. 22, 1944.

Forstmann Woolen Co. (See Forstmann & Huffmann Company, assignor.)

4-in-1 Product Co. (See Anderson, Harry G.)

Foy Paint Company, Inc., The. (See Johnston, R. F., Paint Company, The, assignor.)

Frackville Manufacturing Company, New York, N. Y. Men's and boys' pajamas and nightshirts. 407,109; May 16; Serial No. 466,197; published Mar. 7, 1944. Class 39.

Franklin Hardware Co. Inc., New York, N. Y. Twist drills, taps and dies, milling cutters, etc. 189,353; renewed Sept. 16, 1944.

Gadman, A. W., Manufacturing Company, Pittsburgh, Pa. Bearing metals. 188,970; renewed Sept. 9, 1944.

Gannett Co. Inc., Rochester, N. Y. Column in a series of daily newspapers. 407,050; May 16; Serial No. 464,481; published Feb. 22, 1944. Class 38.

Garner Print Works & Bleachery, assignor, by mesne assignments, to Deering Milliken & Co., Inc., New York, N. Y. Cotton piece goods. 189,046; renewed Sept. 9, 1944.

General Tire & Rubber Company, The, Akron, Ohio. Pneumatic vehicle tires. 407,011; May 16; Serial No. 454,908; published Mar. 7, 1944. Class 35.

Gestetner, D., Limited, London, England, assignor to A. B. Dick Company, Chicago, Ill. Inks. 181,804; renewed Mar. 25, 1944.

Gestetner, D., Limited, London, England, assignor to A. B. Dick Company, Chicago, Ill. Inks. 182,188; renewed Apr. 1, 1944.

Gestetner, D., Limited, London, England, assignor to A. B. Dick Company, Chicago, Ill. Stencil papers. 182,776; renewed Apr. 15, 1944.

Goldsmith, W. W. (See Eavenson, H. N., Goldsmith, and Moore.)

Gossard, H. W., Co., The, Chicago, Ill. Corsets and girdles. 188,107; renewed Aug. 19, 1944.

Grennan Bakeries, Inc. (See Grennan Cake Corporation.)

Grennan Cake Corporation, Detroit, Mich., by change of name to Grennan Bakeries, Inc., Chicago, Ill. Cakes, cookies, fried cakes, etc. 183,784; renewed May 6, 1944.

Grey, Dessa. (See Ridme Chemical Co.)

Haas & Johnston, to Otto C. Haas, New York, N. Y., successor. Hosiery. 182,702; renewed Apr. 15, 1944.

Haas, Otto C. (See Haas & Johnston.)

Hamilton Rubber Manufacturing Company, Trenton, N. J. Steam hose and air hose. 189,052; renewed Sept. 9, 1944.

Hearst Corporation, The. (See King Features Syndicate, Inc.)

Hettrick Manufacturing Company, The, Toledo, Ohio. Glider couch swings. 407,118; May 16; Serial No. 466,289; published Mar. 7, 1944. Class 32.

Hillman Periodicals, Inc., New York, N. Y. Magazine or publication. 407,041; May 16; Serial No. 463,972; published Feb. 29, 1944. Class 38.

Hirsch, Fred S., Los Angeles, Calif. Herb-vegetable compound. 184,157; renewed May 20, 1944.

Holbrook, W. H., Company, Boston, Mass., assignor, by mesne assignments, to Myron B. Levy Co. Inc., New York, N. Y. All-wool textile piece goods. 188,641; renewed Sept. 2, 1944.

Holley Carburetor Company, Detroit, Mich. Carburetors. 188,941; renewed Sept. 9, 1944.

Imco Company, The. (See Kohn, Julius.)

Indian Arts and Crafts Board, Washington, D. C. Traveling bags, suitcases, valises, etc. 407,046; May 16; Serial No. 464,261; published Feb. 22, 1944. Class 3.

Indian Arts and Crafts Board, Washington, D. C. Dolls. 407,120; May 16; Serial No. 466,390; published Mar. 7, 1944. Class 22.

Inland Asphalt Corporation, Chicago, Ill. Bitumen-coated paving aggregate. 407,067; May 16; Serial No. 464,998; published Feb. 29, 1944. Class 12.

International Nickel Company, Inc., The, New York, N. Y. Alloy castings in the form of pigs. 407,051; May 16; Serial No. 464,483; published Mar. 7, 1944. Class 14.

Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 407,128; May 16. Class 39.

J. M. S. Trading Corp., New York, N. Y. Men's and women's lined and unlined jackets, shirts, pants, etc. 407,071; May 16; Serial No. 465,109; published Feb. 29, 1944. Class 39.

Jablow, I., & Co., Philadelphia, Pa. Boys' shorts, pajamas, sportswear, etc. 407,018; May 16; Serial No. 459,113; published Feb. 22, 1944. Class 39.

Jarrett, Rainsford & Laughton, Birmingham, England. Pins, hair curlers, thimbles, etc. 182,780; renewed Apr. 15, 1944.

Johnson, Aaron E., doing business as Aaron E. Johnson Jewelry Manufacturing Company, Minneapolis, Minn. Finger rings. 188,767; renewed Sept. 2, 1944.

Johnson, Aaron E., Jewelry Manufacturing Company. (See Johnson, Aaron E.)

Johnston, R. F., Paint Company, The, assignor to The Foy Paint Company, Inc., Cincinnati, Ohio. Varnish. 184,595; renewed May 27, 1944.

Johnston, R. F., Paint Company, The, assignor to The Foy Paint Company, Inc., Cincinnati, Ohio. Lacquer. 187,993; renewed Aug. 12, 1944.

Joseph, Irving N., Evanston, Ill. Shoes, slippers, and boots. 407,124; May 16. Class 39.

Kaul Lumber Company, Tuscaloosa, and Birmingham, Ala. Rough and finished lumber. 189,669; renewed Sept. 23, 1944.

King Feature Syndicate, Inc., by merger to The Hearst Corporation, New York, N. Y. Cartoons. 182,666; renewed Apr. 15, 1944.

Knox Glass Bottle Company, Knox, Pa. Glass bottles. 188,175; renewed Aug. 19, 1944.

Kohn, Julius, doing business as The Imco Company, New York, N. Y. Pyrophoric lighters for cigars, cigarettes, and pipes, etc. 407,068–9; May 16; Serial Nos. 465,031–2; published Feb. 29, 1944. Class 34.

Kroger Grocery & Baking Co., The. (See Eagle Grocery Co., assignor.)

L. & B. Hosiery Co., Inc., New York, N. Y. Hosiery. 407,020; May 16; Serial No. 459,756; published Sept. 21, 1943. Class 39.

Lady West Products Co. (See Martin Brothers Co.)

Laros Textiles Company, Bethlehem, Pa. Women's slips. 407,123; May 16. Class 39.

Laurel Hosiery Company. (See Weinerth Knitting & Machine Co. Inc., assignor.)
Levy, Harold M., New York, N. Y. Gloves. 407,141; May 16. Class 39.
Levy, Myron B., Co. Inc. (See Holbrook, W. H., Company, assignor.)
Lewis Bros., Inc., assignor, by mesne assignments, to Bristol-Myers Company, New York, N. Y. Hair tonic. 181,584; renewed Mar. 25, 1944.
Lincoln Park Tool and Gage Company, The, Lincoln Park, Mich. Precision gauge blocks. 406,066; May 16; Serial No. 464,947; published Mar. 7, 1944. Class 26.
Liska, Rudolph, & Sons, Inc., Chicago, Ill. Nonalcoholic maltless beverages. 407,056; May 16; Serial No. 464,706; published Feb. 8, 1944. Class 45.
Lo Bue Bros. Lindsay, Calif. Fresh citrus fruits. 407,111; May 16; Serial No. 466,225; published Mar. 7, 1944. Class 46.
Lyons-Magnus, Inc., San Francisco, Calif. Fountain syrups and bottled root beer. 407,022; May 16; Serial No. 461,821; published Feb. 15, 1944. Class 45.
Macfarlane, Lang & Company Limited, Glasgow, Scotland. Biscuits, cakes, and bread. 184,279; renewed May 20, 1944.
Macrae Sportswear, New York, N. Y. Men's, boys', ladies', and misses' sport jackets. 407,144; May 16. Class 39.
Majestic Manufacturing Co. Inc., Atlanta, Ga. Women's wash dresses, housecoats, playsuits, etc. 407,137; May 16. Class 39.
Marcus, E. N., & Co., Boston, Mass. Women's and misses' dresses and suits. 407,127; May 16. Class 39.
Marcus, E. N., & Co., Boston, Mass. Women's and misses' dresses and suits. 407,132; May 16. Class 39.
Martin Brothers Co., doing business as Lady West Products Co., Denver, Colo. Food preparation. 407,070; May 16; Serial No. 465,041; published Mar. 7, 1944. Class 46.
Master Combustor Company, Albert Lea, Minn. Hollow auxiliary grate having apertured walls, etc. 407,063; May 16; Serial No. 464,895; published Mar. 7, 1944. Class 34.
Matthews-Riseman, Inc., Boston, Mass. Misses' and women's dresses. 407,134; May 16. Class 39.
Mayer, Frank, doing business as Sunset Valley Orange Co., Chicago, Ill. Beverages. 407,072; May 16; Serial No. 465,142; published Feb. 8, 1944. Class 45.
McKnight-Keaton Grocery Company, Cairo, Ill. Canned fruits and vegetables. 189,063; renewed Sept. 9, 1944.
Metasap Chemical Company, Harrison, N. J. Metallic soap composition. 407,055; May 16; Serial No. 464,657; published Feb. 29, 1944. Class 6.
Miller, J. E., Chicago, Ill. Lubricants. 189,003; renewed Sept. 9, 1944.
Milsted, Erwin E., Kew Gardens, Long Island, N. Y. Hosiery, underwear, girdles, etc. 407,017; May 16; Serial No. 458,813; published Feb. 29, 1944. Class 39.
Modulok, Inc., Baltimore, Md. Prefabricated building materials. 407,034–6; May 16; Serial Nos. 463,544–6; published Mar. 7, 1944. Class 12.
Moore, J. J. (See Eavenson, H. N., Goldsmith, and Moore.)
Moss & Lowenhaupt Cigar Co., St. Louis, Mo. Cigars, cigarettes, and smoking tobacco. 189,043; renewed Sept. 9, 1944.
Movado Watch Agency, Inc., New York, N. Y. Watches. 407,090; May 16; Serial No. 465,815; published Mar. 7, 1944. Class 27.
Moxie Company, The, Portland, Maine, and Boston, Mass., assignor to The Moxie Company, Boston, Mass. Nonalcoholic, maltless carbonated beverage and sirup for making the same. 189,066; renewed Sept. 9, 1944.
Nathanson, Abner E., New York, N. Y. Shoes. 407,142; May 16. Class 39.
National Milling & Chemical Company, The, Philadelphia, Pa. Alkalis for the laundry and textile trade. 407,074; May 16; Serial No. 465,230; published Feb. 29, 1944. Class 6.
National Oil Products Company, Harrison, N. J. Water-dispersible oil for use in leather sponging compositions, etc. 407,054; May 16; Serial No. 464,666; published Mar. 7, 1944. Class 4.
Naz-Dar Company, assignor to Naz-Dar Company, Chicago, Ill. Sizing varnish, oil stencil paste, stencil process japan, etc. 187,929; renewed Aug. 12, 1944.
Nemco Electric Company, Seattle, Wash. Junction boxes, cabinets, electric hoists, etc. 407,004; May 16; Serial No. 452,024; published Mar. 7, 1944. Class 21.
Neuburger, C. A., Company, Oshkosh, Wis. Women's dresses. 407,114; May 16; Serial No. 466,264; published Mar. 7, 1944. Class 39.
Newport Industries, Inc. (See Acme Products Company, assignor.)
Nicholson, H. R., Company, The. (See Ver-Vac Company, The, assignor.)
Northern Iowa Oil Company, Cresco, Iowa. Lubricating oils and greases. 189,033; renewed Sept. 9, 1944.
Oneida Community, Ltd., by change of name to Oneida Ltd., Oneida, N. Y. Table knives and carving knives. 188,650; renewed Sept. 2, 1944.
Oneida Ltd. (See Oneida Community, Ltd.)
Orlovitz, Martin, doing business as Eastern Trouser Company, Philadelphia, Pa. Trousers and outer shirts. 407,139; May 16. Class 39.
Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y. Soap. 407,047; May 16; Serial No. 464,353; published Mar. 7, 1944. Class 4.
Paramet Chemical Corporation, New York, N. Y., assignor to Paramet Corporation, Long Island City, N. Y. Varnish gum. 183,500; renewed Apr. 29, 1944.
Paramet Corporation. (See Paramet Chemical Corporation, assignor.)
Pemco Corporation, Baltimore, Md. Pigment colors and dyes. 407,058; May 16; Serial No. 464,758; published Feb. 29, 1944. Class 6.
Permo Products Corporation, Chicago, Ill. Phonograph styli. 407,006; May 16; Serial No. 453,556; published Oct. 6, 1942. Class 36.
Pierce, S. S., Co., Boston, Mass. Pipes. 184,790; renewed June 3, 1944.
Pinaud, Incorporated, New York, N. Y. Eau de cologne and dusting powder. 407,042; May 16; Serial No. 464,066; published Feb. 29, 1944. Class 6.
Plastic Products Company, Detroit, Mich. Putty or filling compound. 407,122; May 16. Class 16.
Pleasant Products Co. (See American Chewing Products Corp.)
Pocahontas Guano Co., Inc., Lynchburg, Va. Fertilizer. 188,950; renewed Sept. 9, 1944.
Prescription Laboratory, Lubbock, Tex. Preparation for the treatment of nasal congestion. 407,012; May 16; Serial No. 455,736; published Feb. 29, 1944. Class 6.
Red Salmon Canning Co., San Francisco, Calif. Canned fish. 407,005; May 16; Serial No. 453,401; published Mar. 7, 1944. Class 46.
Rich Guild Shirt Company, New York, N. Y. Men's, women's, and youths' shirts, sport shirts, slacks, etc. 407,136; May 16. Class 39.
Richmond Fireproof Door Co., The, Richmond, Ind. Fireproof doors. 187,372; renewed Aug. 5, 1944.
Ridme Chemical Co., to Dessa Grey, doing business as Ridme Chemical Company, Parsons, Kans., successor. Poultry insecticide. 182,706; renewed Apr. 15, 1944.
Rodriguez Flavoring Syrups, Inc., Baltimore, Md. Syrups, concentrates, and extracts, etc. 407,091; May 16; Serial No. 465,830; published Feb. 22, 1944. Class 45.
Röhm & Haas Company, Philadelphia, Pa. Synthetic organic chemical compounds and preparations. 407,049; May 16; Serial No. 464,446; published Feb. 29, 1944. Class 6.
Rosen, Saul, doing business as Amerspun Company, Paterson, N. J. Printed textile fabrics in the piece, and made of rayon, cotton, etc. 407,048; May 16; Serial No. 464,374; published Feb. 22, 1944. Class 42.
Rosenfelder, S., & Son, Inc., New York, N. Y. Loose animal and artificial fibers used for making textiles and fabrics. 407,029; May 16; Serial No. 462,973; published Mar. 7, 1944. Class 1.
Roth Fabrics Corporation, New York, N. Y. Rayon fabrics in the piece. 407,043; May 16; Serial No. 464,186; published Feb. 1, 1944. Class 42.
Rubberset Company, Newark, N. J. Paint brushes and shaving brushes. 407,115–16; May 16; Serial Nos. 466,265–6; published Mar. 7, 1944. Class 29.
Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour, wheat feed, hog feed supplement with minerals, etc. 407,104; May 16; Serial No. 466,126; published Mar. 7, 1944. Class 46.
S. E. & M. Vernon, Inc., New York, N. Y. Exercise, composition, memorandum, and note books. 189,301; renewed Sept. 16, 1944.
S. S. S. Co. (See Swift Specific Co., The.)
Sanford Ink Company, Chicago, Ill. Paste, mucilage, glue, and adhesive cement. 407,037; May 16; Serial No. 463,634; published Mar. 7, 1944. Class 5.
Sapolin Co. Inc., New York, N. Y. Ready-mixed paints and paint enamel. 407,031; May 16; Serial No. 463,213; published Mar. 7, 1944. Class 16.
Sarco Company, Inc., New York, N. Y. Temperature regulators, recording thermometers, and indicating thermometers, and parts thereof. 187,188; renewed July 29, 1944.
Sauer, A. F., Company, Milwaukee, Wis. Water-proof crib sheets and water-proof crib mattress covers. 407,078; May 16; Serial No. 465,435; published Mar. 7, 1944. Class 50.
Schlesinger, Joseph H., doing business as Eagle Chemical Co., New York, N. Y. Liquid adapted for neutralization of acids. 407,026; May 16; Serial No. 462,462; published Feb. 29, 1944. Class 6.
Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' chemises, pajamas, bloomers, etc. 407,105–6; May 16; Serial Nos. 466,176–7; published Mar. 7, 1944. Class 39.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Massaging roller apparatus. 407,052; May 16; Serial No. 464,522; published Mar. 7, 1944. Class 44.
Scull, Wm. S., Company. (See Canby, Ach & Canby Co., The, assignor.)
Seaboard Rice Milling Company, Galveston, Tex., assignor to Comet Rice Mills, Inc., Beaumont, Tex. Rice. 189,265; renewed Sept. 16, 1944.
Smith, James, & Son (Redditch) Limited, Redditch, England. Hand sewing needles, knitting needles, crochet hooks, etc. 407,013; May 16; Serial No. 456,780; published Feb. 8, 1944. Class 40.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating greases and oils. 407,121; May 16; Serial No. 466,516; published Mar. 7, 1944. Class 15.
Southern Hosiery and Apparel Company. (See Southern Hosiery Company, Inc., assignor.)
Southern Hosiery Company, Inc., Fort Worth, Tex., assignor to Southern Hosiery and Apparel Company, Dallas, Tex. Hosiery. 182,101; renewed Apr. 1, 1944.
Southern Lead Co., Dallas, Tex. Zinc, base aluminum, copper and magnesium metal alloy pigs. 407,016; May 16; Serial No. 457,288; published Mar. 7, 1944. Class 14.
Spartan Industrial Corporation, New York, N. Y. Sheets, blocks, and rods made of solid transparent material, and plaques from such material. 407,040; May 16; Serial No. 463,764; published Mar. 7, 1944. Class 50.
Spartan Saw Works, assignor to Spartan Saw Works, Inc., Springfield, Mass. Metal-cutting saws. 188,979; renewed Sept. 9, 1944.
Sport Products, Inc. (See Crawford, McGregor and Canby Company, The, assignor.)
Stamsvik Manufacturing Corporation, Pittsburgh, Pa. Milk filters and milk filter pads. 407,112; May 16; Serial No. 466,233; published Mar. 7, 1944. Class 31.
Standard Brands Incorporated, New York, N. Y. Baking powder. 407,079; May 16; Serial No. 465,439; published Mar. 7, 1944. Class 46.
Starcross, Inc., Greenville, S. C. Textile diapers. 407,098; May 16; Serial No. 465,965; published Feb. 29, 1944. Class 39.
Star Electric Motor Company, Bloomfield, N. J. Electric motors. 407,100; May 16; Serial No. 465,992; published Mar. 7, 1944. Class 21.
Street & Smith Publications, Inc., New York, N. Y. Articles published at intervals, etc. 407,083; May 16; Serial No. 465,674; published Feb. 29, 1944. Class 38.
Stuart, D. A., & Co., assignor, by mesne assignments, to D. A. Stuart Oil Co., Limited, Chicago, Ill. Base oil. 188,993; renewed Sept. 9, 1944.
Stuart, D. A., Oil Co. (See Stuart, D. A., & Co., assignor.)
Style Form Brassiere Co. Inc., New York, N. Y. Bandeaux, brassières, garter belts, etc. 407,125; May 16. Class 39.
Sun Rise Bottling Co., The. (See Buston, J. G.)
Sunnyside Milling Company, Evansville, Ind. Wheat flour. 181,058; renewed Mar. 11, 1944.
Sunset Valley Orange Co. (See Mayer, Frank.)
Superior Garment Co., New York, N. Y. Ladies' and misses' coats, suits, capes, etc. 407,103; May 16; Serial No. 466,110; published Feb. 29, 1944. Class 39.
Swanston, C., & Son, to Swanston Packing Company, Sacramento, Calif., successor. Smoked meats, boiled ham, and lard. 180,985; renewed Mar. 11, 1944.
Swanston Packing Company. (See Swanston, C., & Son.)
Swift and Company, Chicago, Ill. Sherbet and ice stabilizer having a gelatin base. 407,095; May 16; Serial No. 465,882; published Mar. 7, 1944. Class 46.
Swift Specific Co., The, by change of name to S. S. S. Co., Atlanta, Ga. Medicinal preparation. 188,546; renewed Aug. 26, 1944.
Syrup Products Co., The. (See Ver-Vac Company, The.)
Textron, Inc., Providence, R. I. Shower curtains. 407,075; May 16; Serial No. 465,235; published Feb. 29, 1944. Class 13.
Thoshinsky, William, San Francisco, Calif. Mattresses. 186,503; renewed July 22, 1944.
Tinius Olsen Testing Machine Co., Philadelphia, Pa. Testing machines to test plastic materials, etc. 407,084; May 16; Serial No. 465,686; published Mar. 7, 1944. Class 26.
Traub, Lyons, Oppenheim, Inc., New York, N. Y. Cotton and rayon piece goods. 407,077; May 16; Serial No. 465,303; published Feb. 1, 1944. Class 42.
Tremco Manufacturing Company, The, Cleveland, Ohio. Mastic compound. 407,138; May 16. Class 12.
Tubular Garment Hangers, Inc., Milwaukee, Wis. Garment hangers. 407,082; May 16; Serial No. 465,493; published Mar. 7, 1944. Class 50.
Uday, Sheldon R., Denver, Colo. Newspaper column. 407,088; May 16; Serial No. 465,750; published Feb. 29, 1944. Class 38.
United Gilsonite Laboratories, Scranton, Pa. Preparation for cleaning floors and walls. 407,089; May 16; Serial No. 465,767; published Mar. 7, 1944. Class 4.
Varniton Company, The, Los Angeles, Calif. Lubricating greases. 407,107; May 16; Serial No. 466,185; published Mar. 7, 1944. Class 15.
Ver-Vac Company, The, doing business as The Syrup Products Co., assignor, by mesne assignments, to The H. R. Nicholson Company, Baltimore, Md. Nonalcoholic, maltless, concentrated, and nonconcentrated fruit sirup. 181,902; renewed Apr. 1, 1944.
Wappler Electric Company, Inc., Long Island City, N. Y., assignor, by mesne assignments, to Westinghous Electric & Manufacturing Company, Bloomfield, N. J. High-frequency electric machines. 188,953; renewed Sept. 9, 1944.
Ward Baking Company, New York, N. Y. Bread. 189,002; renewed Sept. 9, 1944.
Ward Baking Company, New York, N. Y. Cakes and doughnuts. 188,520; renewed Aug. 26, 1944.
Webster Thomas Company, Boston, Mass. Grape juice and non-alcoholic, maltless concentrates, etc. 407,057; May 16; Serial No. 464,736; published Feb. 22, 1944. Class 45.
Webster, William A., Company, The, Memphis, Tenn. Dental cream. 189,312; renewed Sept. 16, 1944.
Weck, Edward, & Company, Inc., Brooklyn, N. Y. Razors. 407,073; May 16; Serial No. 465,166; published Feb. 29, 1944. Class 23.
Weinerth Knitting & Machine Co. Inc., Reading, assignor to Laurel Hosiery Company, West Reading, Pa. Ladies' hosiery. 189,263; renewed Sept. 16, 1944.
West Bend Aluminum Co., West Bend, Wis. Aluminum cooking and table hollow ware. 407,044–5; May 16; Serial Nos. 464,235–6; published Feb. 29, 1944. Class 13.
Westinghouse Electric & Manufacturing Company. (See Wappler Electric Company, Inc., assignor.)
Williams, R. C., & Company, Inc., New York, N. Y. Cocoa. 407,008; May 16; Serial No. 454,091; published Jan. 19, 1943. Class 46.
Williams, R. C., & Company, Inc., New York, N. Y. Hot chocolate mix. 407,010; May 16; Serial No. 454,092; published Jan. 19, 1943. Class 46.
Williams, R. C., & Company, Inc., New York, N. Y. Sweet chocolate coating and chocolate liquor. 407,009; May 16; Serial No. 454,094; published Jan. 19, 1943. Class 46.
Wilson Brothers, Chicago, Ill. Men's and boys' underwear and pajamas. 407,028; May 16; Serial No. 462,531; published Mar. 7, 1944. Class 39.
Winter Garden Citrus Growers Association, Winter Garden, Fla. Fresh citrous fruits. 183,966; renewed May 13, 1944.
Wright's Underwear Company, New York, N. Y. Knitted and textile garments. 189,381; renewed Sept. 16, 1944.
Yachting Incorporated, assignor to Yachting Publishing Company, New York, N. Y. Monthly magazine. 184,906; renewed June 3, 1944.
Yachting Publishing Company. (See Yachting Incorporated, assignor.)
Youngstown Alloy Casting Corporation, Youngstown, Ohio. Pneumatic hammer handles, draw bench grips, etc. 407,032; May 16; Serial No. 463,283; published Feb. 29, 1944. Class 23.
Ziv Steel & Wire Co., Chicago, Ill. Tool steel and tool steel alloys. 407,110; May 16; Serial No. 466,208; published Mar. 7, 1944. Class 14.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Bituminous. H. N. Eavenson, W. W. Goldsmith, and J. J. Moore. 407,126; May 16.
Products from the distillation of pine wood. Acme Products Company. 184,818; renewed June 3, 1944.
Textiles and fabrics, Loose animal and artificial fibers used for making. S. Rosenfelder & Son, Inc. 407,029; May 16; Serial No. 462,973; published Mar. 7, 1944.

CLASS 3

Bags, suitcases, valises, etc., Traveling. Indian Arts and Crafts Board. 407,046; May 16; Serial No. 464,261; published Feb. 22, 1944.

CLASS 4

Cleansing preparation. Chalmers Chemical Company. 182,661; renewed Apr. 15, 1944.
Oil for use in leather sponging compositions, etc., Water-dispersible. National Oil Products Company. 407,054; May 16; Serial No. 464,666; published Mar. 7, 1944.
Paste for cleaning and polishing aluminum, tin, brass, etc., Steel wool. Bryant Products, Inc. 407,085; May 16; Serial No. 465,704; published Mar. 7, 1944.
Preparation for cleaning floors and walls. United Gilsonite Laboratories. 407,089; May 16; Serial No. 465,767; published Mar. 7, 1944.
Soap. Packers Tar Soap, Inc. 407,047; May 16; Serial No. 464,353; published Mar. 7, 1944.
Soap, Toilet. Cheramy, Inc. 407,119; May 16; Serial No. 466,323; published Mar. 7, 1944.

CLASS 5

Paste, mucilage, glue, and adhesive cement. Sanford Ink Company. 407,037; May 16; Serial No. 463,634; published Mar. 7, 1944.

CLASS 6

Alkalis for the laundry and textile trade. National Milling & Chemical Company. 407,074; May 16; Serial No. 465,230; published Feb. 29, 1944.

Chemical compounds and preparations, Synthetic organic. Röhm & Haas Company. 407,049; May 16; Serial No. 464,446; published Feb. 29, 1944.
Cosmetics, Men's. James E. Coates and Company. 407,030; May 16; Serial No. 463,143; published Feb. 29, 1944.
Cream preparation, Scalp. H. G. Anderson. 407,062; May 16; Serial No. 464,868; published Feb. 29, 1944.
Dental cream. William A. Webster Company. 189,312; renewed Sept. 16, 1944.
Eau de cologne and dusting powder. Pinaud, Incorporated. 407,042; May 16; Serial No. 464,066; published Feb. 29, 1944.
Hair tonic. Lewis Bros., Inc. 181,584; renewed Mar. 25, 1944.
Herb-vegetable compound. F. S. Hirsch. 184,157; renewed May 20, 1944.
Insecticide, Poultry. Ridme Chemical Co. 182,706; renewed Apr. 15, 1944.
Liquid adapted for neutralization of acids. J. H. Schlesinger. 407,026; May 16; Serial No. 462,462; published Feb. 29, 1944.
Medicine for digestive and stomach troubles, Internal. First Texas Chemical Manufacturing Company. 187,991; renewed Aug. 12, 1944.
Medicine for the treatment of amenorrhea, dysmenorrhea, etc., Internal. First Texas Chemical Manufacturing Company. 187,990; renewed Aug. 12, 1944.
Medicinal preparation. Swift Specific Co. 188,546; renewed Aug. 26, 1944.
Metallic soap composition. Metasap Chemical Company. 407,055; May 16; Serial No. 464,657; published Feb. 29, 1944.
Ointment for the treatment of skin infections. First Texas Chemical Manufacturing Company. 187,992; renewed Aug. 12, 1944.
Perfumes and toilet water. Castilla Products, Inc. 407,086–7; May 16; Serial Nos. 465,705–6; published Feb. 29, 1944.
Pigment colors and dyes. Pemco Corporation. 407,058; May 16; Serial No. 464,758; published Feb. 29, 1944.
Preparation for the treatment of infant bowel disorders. First Texas Chemical Manufacturing Company. 185,989; renewed July 1, 1944.
Preparation for the treatment of nasal congestion. Prescription Laboratory. 407,012; May 16; Serial No. 457,736; published Feb. 29, 1944.
Spore dust, Milky disease. J. A. Ditman. 407,108; May 16; Serial No. 466,195; published Feb. 29, 1944.
Tablets, lozenges, and pastilles, Compressed. W. B. Cartwright, Limited. 407,019; May 16; Serial No. 459,161; published July 13, 1943.
Vitamin product used as a dietary supplement. Harrower Laboratory, Inc. 407,018; May 16; Serial No. 459,112; published May 4, 1943.

CLASS 8

Pipes. S. S. Pierce Co. 184,790; renewed June 3, 1944.

CLASS 10

Fertilizer. Pocahontas Guano Co. 188,950; renewed Sept. 9, 1944.

CLASS 11

Inks. D. Gestetner Limited. 181,804; renewed Mar. 25, 1944.
Inks. D. Gestetner Limited. 182,188; renewed Apr. 1, 1944.

CLASS 12

Bitumen-coated paving aggregate. Inland Asphalt Corporation. 407,067; May 16; Serial No. 464,998; published Feb. 29, 1944.
Doors, Fireproof. Richmond Fireproof Door Co. 187,372; renewed Aug. 5, 1944.
Lumber, Rough and finished. Kaul Lumber Company. 189,669; renewed Sept. 23, 1944.
Mastic compound. Tremco Manufacturing Company. 407,138; May 16.
Prefabricated building materials. Modulok, Inc. 407,034–6; May 16; Serial Nos. 463,544–6; published Mar. 7, 1944.

CLASS 13

Aluminum cooking and table hollow ware. West Bend Aluminum Co. 407,044–5; May 16; Serial Nos. 464,235–6; published Feb. 29, 1944.
Curtains, Shower. Textron, Inc. 407,075; May 16; Serial No. 465,235; published Feb. 29, 1944.
Fabric, Wire. Audubon Wire Cloth Corporation. 407,129–31; May 16.

CLASS 14

Alloy castings in the form of pigs. International Nickel Company. 407,051; May 16; Serial No. 464,483; published Mar. 7, 1944.
Metal alloy pigs, zinc, base aluminum, copper, and magnesium. Southern Lead Co. 407,016; May 16; Serial No. 457,288; published Mar. 7, 1944.
Metals, Bearing. A. W. Gadman Manufacturing Company. 188,970; renewed Sept. 9, 1944.
Steel and tool steel alloys, Tool. Ziv Steel & Wire Co. 407,110; May 16; Serial No. 466,208; published Mar. 7, 1944.

CLASS 15

Lubricants. J. E. Miller. 189,003; renewed Sept. 9, 1944.
Lubricating greases. Varniton Company. 407,107; May 16; Serial No. 466,185; published Mar. 7, 1944.
Lubricating greases and oils. Socony-Vacuum Oil Company. 407,121; May 16; Serial No. 466,516; published Mar. 7, 1944.
Oil, Base. D. A. Stuart & Co. 188,993; renewed Sept. 9, 1944.
Oils and greases, Lubricating. Northern Iowa Oil Company. 189,033; renewed Sept. 9, 1944.

CLASS 16

Gum, Varnish. Paramet Chemical Corporation. 183,500; renewed Apr. 29, 1944.
Lacquer. R. F. Johnston Paint Company. 187,993; renewed Aug. 12, 1944.
Mixture of finely divided fusible materials. Ferro Enamel Corporation. 407,024; May 16; Serial No. 461,922; published Jan. 11, 1943.
Paints and paint enamel, Ready-mixed. Sapolin Co. Inc. 407,031; May 16; Serial No. 463,213; published Mar. 7, 1944.
Putty or filling compound. Plastic Products Company. 407,122; May 16.
Varnish. R. F. Johnston Paint Company. 184,595; renewed May 27, 1944.
Varnish, oil stencil paste, stencil process japan, etc. Sizing. Naz-Dar Company. 187,929; renewed Aug. 12, 1944.

CLASS 17

Cigars, cigarettes and smoking tobacco. Moss & Lowenhaupt Cigar Co. 189,043; renewed Sept. 9, 1944.
Tobacco, Smoking. Cope Brothers and Company Limited. 187,771; renewed Aug. 12, 1944.
Tobacco, Smoking. Desmond's. 407,076; May 16; Serial No. 465,251; published Mar. 7, 1944.

CLASS 19

Rail cars, Self propelled and manually propelled. Fairbanks, Morse & Co. 407,064–5; May 16; Serial No. 464,917–8; published Feb. 29, 1944.

CLASS 21

Boxes, cabinets, electric hoists, etc., Junction. Nemco Electric Company. 407,004; May 16; Serial No. 452,024; published Mar. 7, 1944.
Motors, Electric. Star Electric Motor Company. 407,100; May 16; Serial No. 465,992; published Mar. 7, 1933.
Motors, generators, transformers, etc., Electrical. Electrical Development Company. 407,080; May 16; Serial No. 465,452; published Mar. 7, 1944.

CLASS 22

Dolls. Indian Arts and Crafts Board. 407,120; May 16; Serial No. 466,390; published Mar. 7, 1944.
Golf clubs. Crawford, McGregor and Canby Company. 188,932; renewed Sept. 9, 1944.

CLASS 23

Carburetors. Holley Carburetor Company. 188,941; renewed Sept. 9, 1944.
Concrete machinery. Flint & Walling Mfg. Co. Inc. 407,053; May 16; Serial No. 464,570; published Feb. 29, 1944.
Drills, taps and dies, milling cutters, etc., Twist. Franklin Hardware Co. Inc. 189,353; renewed Sept. 16, 1944.
Hammer handles, draw bench grips, etc., Pneumatic. Youngstown Alloy Casting Corporation. 407,032; May 16; Serial No. 463,283; published Feb. 29, 1944.
Knives and carving knives, Table. Oneida Community, Ltd. 188,050; renewed Sept. 2, 1944.
Knives and finished die blocks, Shear. American Shear Knife Company. 407,023; May 16; Serial No. 461,834; published Feb. 22, 1944.
Razors. Weck, Edward, & Company 407,073; May 16; Serial No. 465,166; published Feb. 29, 1944.
Saws, Metal-cutting. Spartan Saw Works. 188,979; renewed Sept. 9, 1944.
Shavings and dust-collecting systems and apparatus. Chicago Blow Pipe Co. 188,955; renewed Sept. 9, 1944.

CLASS 26

Gauge blocks, Precision. Lincoln Park Tool and Gage Company. 406,066; May 16; Serial No. 464,947; published Mar. 7, 1944.
Motion-picture films. E. W. Castle. 188,963; renewed Sept. 9, 1944.
Ruling and calculating instruments. C-Thru Ruler Company. 407,143; May 16, 1944.
Temperature regulators, recording thermometers, and indicating thermometers and parts thereof. Sarco Company. 187,188; renewed July 29, 1944.
Testing machines to test plastic materials, etc. Tinius Olsen Testing Machine Co. 407,084; May 16; Serial No. 465,686; published Mar. 7, 1944.
Viewer for viewing slides and films, etc. Chromat-O-Scope Company. 407,014; May 16; Serial No. 456,934; published Mar. 7, 1944.

CLASS 27

Watches. Movado Watch Agency, Inc. 407,090; May 16; Serial No. 465,815; published Mar. 7, 1944.

CLASS 28

Rings, Finger. A. E. Johnson. 188,767; renewed Sept. 2, 1944.

CLASS 29

Brushes and shaving brushes, Paint. Rubberset Company. 407,115–6; May 16; Serial No. 466,265–6; published Mar. 7, 1944.

CLASS 31

Filters and milk filter pads, Milk. Stamsvik Manufacturing Corporation. 407,112; May 16; Serial No. 466,233; published Mar 7, 1944.

CLASS 32

Cabinets, Filing. Art Steel Sales Corporation. 407,039; May 16; Serial No. 463,742; published Mar. 7, 1944.
Couch swings. Glider. Hettrick Manufacturing Company. 407,118; May 16; Serial No. 466,289; published Mar. 7, 1944.
Mattresses. W. Thoshinsky. 186,503; renewed July 22, 1944.

CLASS 33

Bottles, Glass. Knox Glass Bottle Company. 188,175; renewed Aug. 19, 1944.

CLASS 34

Gas burners. Geo. Bray & Co., Limited. 186,280; renewed July 8, 1944.
Grate having apertured walls, etc., Hollow auxiliary. Master Combustor Company. 407,063; May 16; Serial No. 464,895; published Mar. 7, 1944.
Lighters for cigars, cigarettes and pipes, etc., Pyrophoric. J. Kohn. 407,068–9; May 16; Serial No. 465,031–2; published Feb. 29, 1944.

CLASS 35

Hose and air hose, Steam. Hamilton Rubber Manufacturing Company. 189,052; renewed Sept. 9, 1944.
Rings for centrifugal pumps, etc., Rotating seal. Corning Glass Works. 407,007; May 16; Serial No. 453,710; published Mar. 7, 1944.
Tires, Pneumatic vehicle. General Tire & Rubber Company. 407,011; May 16; Serial No. 454,908; published Mar. 7, 1944.

CLASS 36

Phonograph styli. Permo Products Corporation. 407,006; May 16; Serial No. 453,556; published Oct. 6, 1942.

CLASS 37

Books, Exercise, composition, memorandum, and note. S. E. & M. Vernon, Inc. 189,301; renewed Sept. 16, 1944.
Stencil papers. D. Gestetner Limited. 182,776; renewed Apr. 15, 1944.

CLASS 38

Articles published at intervals, etc. Street & Smith Publications, Inc. 407,083; May 16; Serial No. 465,674; published Feb. 29, 1944.
Cartoons. King Features Syndicate, Inc. 182,666; renewed Apr. 15, 1944.
Magazine column. F-R Publishing Corporation. 407,096; May 16; Serial No. 465,914; published Feb. 29, 1944.
Magazine, Monthly. Yachting Incorporated. 184,906; renewed June 3, 1944.
Magazine or publication. Hillman Periodicals, Inc. 407,041; May 16; Serial No. 463,972; published Feb. 29, 1944.
Magazine published bi-monthly. R. Fellom, Jr. 407,027; May 16; Serial No. 462,474; published Feb. 29, 1944.
Newspaper column. S. R. Uday. 407,088; May 16; Serial No. 465,750; published Feb. 29, 1944.
Newspapers, Column in a series of daily. Gannett Co. Inc. 407,050; May 16; Serial No. 464,481; published Feb. 22, 1944.
Periodical, Quarterly pictorial humorous. Eyeful Magazine, Inc. 407,033; May 16; Serial No. 463,484; published Feb. 29, 1944.
Periodical, Section of a. Distribution and Warehousing Publications, Inc. 407,059; May 16; Serial No. 464,812; published Feb. 22, 1944.

CLASS 39

Bandeaux, brassières, garter belts, etc. Style Form Brassiere Co. Inc. 407,125; May 16, 1944.
Chemises, pajamas, bloomers, etc., Ladies'. I. Schneierson & Sons, Inc. 407,105–6; May 16; Serial Nos. 466,176–7; published Mar. 7, 1944.
Coats, suits, and jackets, Ladies' and misses'. Donnybrook Coat and Suit Co. 407,147–8; May 16, 1944.
Coats, suits, capes, etc., Ladies' and misses'. Superior Garment Co. 407,103; May 16; Serial No. 466,110; published Feb. 29, 1944.
Coats, suits, etc., Ladies' and misses' dresses. David Crystal Inc. 407,101; May 16; Serial No. 466,005; published Mar. 7, 1944.
Coats, suits, skirts, etc., Ladies' and misses'. Amalgamated Mercantile Corporation. 407,140; May 16.
Corsets and girdles. H. W. Gossard Co. 188,107; renewed Aug. 19, 1944.
Diapers, Textile. Starcross, Inc. 407,098; May 16; Serial No. 465,965; published Feb. 29, 1944.
Dresses and suits, Women's and misses'. E. N. Marcus & Co. 407,127; May 16.
Dresses and suits, Women's and misses'. E. N. Marcus & Co. 407,132; May 16.
Dresses, coats, suits, etc., Ladies' and misses'. David Crystal Inc. 407,102; May 16; Serial No. 466,006; published Feb. 29, 1944.
Dresses, housecoats, playsuits, etc., Women's wash. Majestic Manufacturing Co. Inc. 407,137; May 16.
Dresses, Misses' and women's. Matthews-Riseman, Inc. 407,134; May 16.
Dresses, Women's. C. A. Neuburger Company. 407,114; May 16; Serial No. 466,264; published Mar. 7, 1944.
Garments, Knitted and textile garments. Wright's Underwear Company. 189,381; renewed Sept. 16, 1944.
Gloves. H. M. Levy. 407,141; May 16.
Hosiery. Fedden Brothers Company. 407,117; May 16; Serial No. 466,272; published Mar. 7, 1944.
Hosiery. Haas & Johnston. 182,702; renewed Apr. 15, 1944.
Hosiery. Interwoven Stocking Company. 407,128; May 16.
Hosiery. L. & B. Hosiery Co. 407,020; May 16; Serial No. 459,756; published Sept. 21, 1943.
Hosiery, Southern Hosiery Company. 182,101; renewed Apr. 1, 1944.
Hosiery and underwear, Women's and girls'. Clear Weave Hosiery Stores, Inc. 407,015; May 16; Serial No. 457,028; published Mar. 7, 1944.
Hosiery, Ladies'. Weinerth Knitting & Machine Co. Inc. 189,263; renewed Sept. 16, 1944.
Hosiery, underwear, girdles, etc. E. E. Milsted. 407,017; May 16; Serial No. 458,813; published Feb. 29, 1944.
Jackets, shirts, pants, etc., Men's and women's lined and unlined. J. M. S. Trading Corp. 407,071; May 16; Serial No. 465,109; published Feb. 29, 1944.
Outer garments, and women's and children's outer garments, Men's and children's. Cohen, Goldman & Co. 186,934; renewed July 22, 1944.
Outer garments. Cohen, Goldman & Co. 188,092; renewed Aug. 19, 1944.
Overcoats, Men's and children's. Cohen, Goldman & Co. 187,583; renewed Aug. 5, 1944.
Pajamas and nightshirts, Men's and boys'. Frackville Manufacturing Company. 407,109; May 16; Serial No. 466,197; published Mar. 7, 1944.
Scarfs, dickeys, collars, etc., Ladies' and misses'. C. A. Cornibert. 407,133; May 16.
Shirts, sport shirts, slacks, etc., Men's, women's, and youths'. Rich Guild Shirt Company. 407,136; May 16.
Shoes. A. E. Nathanson. 407,142; May 16.
Shoes, slippers, and boots. I. N. Joseph. 407,124; May 16.
Slips, Women's. Laros Textiles Company. 407,123; May 16.
Sport jackets, Men's, boys', ladies', and misses'. Macrae Sportswear. 407,144; May 16.
Suits, topcoats, and overcoats, Men's and young men's. Browning King & Co. 407,145–6; May 16.
Trousers and outer shirts. M. Orlovitz. 407,139; May 16.
Underwear and pajamas, Men's and boys'. Wilson Brothers. 407,028; May 16; Serial No. 462,531; published Mar. 7, 1944.
Underwear, Knitted and woven. Brown Durrell Co. 189,188; renewed Sept. 16, 1944.
Windsor ties, Ladies' and misses'. C. A. Cornibert. 407,135; May 16.

CLASS 40

Needles, crochet hooks, knitting pins, and hat pins, Hand sewing. British Needle Company Limited. 407,021; May 16; Serial No. 460,827; published Feb. 8, 1944.
Needles, knitting needles, crochet hooks, etc., Hand sewing. James Smith & Son (Redditch) Limited. 407,013; May 16; Serial No. 456,780; published Feb. 8, 1944.
Pins, hair curlers, thimbles, etc. Jarrett, Rainsford & Laughton. 182,780; renewed Apr. 15, 1944.

CLASS 42

Awning stripes and ticking. John Boyle & Company. 188,693; renewed Sept. 2, 1944.
Awning stripes and ticking. John Boyle & Company. 189,100; renewed Sept. 9, 1944.
Awning stripes and ticking. John Boyle & Company. 189,106; renewed Sept. 9, 1944.
Fabric, Knitted. Cohen, Goldman & Co. 187,112; renewed July 29, 1944.
Fabric, Knitted. Cohen, Goldman & Co. 187,236; renewed July 29, 1944.
Fabrics in the piece, and made of rayon, cotton, etc., Printed textile. S. Rosen. 407,048; May 16; Serial No. 464,374; published Feb. 22, 1944.

Fabrics in the piece, Knitted. Beaunit Mills, Inc. 407,099; May 16; Serial No. 465,973; published Feb. 22, 1944.
Fabrics in the piece, Rayon. Roth Fabrics Corporation. 407,043; May 16; Serial No. 464,186; published Feb. 1, 1944.
Piece goods. American Bleached Goods Company. 407,060–1; May 16; Serial Nos. 464,866–7; published Feb. 1, 1944.
Piece goods, Cotton. Garner Print Works & Bleachery. 189,046; renewed Sept. 9, 1944.
Piece goods, All-wool textile. W. H. Holbrook Company. 188,641; renewed Sept. 2, 1944.
Piece goods, Cotton and rayon. Traub, Lyons, Oppenheim, Inc. 407,077; May 16; Serial No. 465,303; published Feb. 1, 1944.
Piece goods, silk piece goods, woolen piece goods, etc., Dyed cotton. Bradford Dyers' Association, Limited. 187,141; renewed July 29, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 181,988; renewed Apr. 1, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 182,412; renewed Apr. 8, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 183,090; renewed Apr. 22, 1944.
Sheeting. Consolidated Textile Corporation. 184,098; renewed May 20, 1944.

CLASS 43

Thread, Cotton. American Thread Company. 188,359; renewed Aug. 26, 1944.

CLASS 44

Electric machines, High-frequency. Wappler Electric Company. 188,953; renewed Sept. 9, 1944.
Massaging roller apparatus. Scholl Mfg. Co. Inc. 407,052; May 16; Serial No. 464,522; published Mar. 7, 1944.

CLASS 45

Beverage and sirup for making the same, Nonalcoholic, maltless carbonated. Moxie Company. 189,066; renewed Sept. 9, 1944.
Beverages. F. Mayer. 407,072; May 16; Serial No. 465,142; published Feb. 8, 1944.
Beverages and syrups for making the same, Nonalcoholic, maltless. J. G. Buston. 407,081; May 16; Serial No. 465,472; published Feb. 8, 1944.
Beverages, and the ingredients for making the same, Non-alcoholic, maltless, carbonated. Big Boy, Inc. 407,038; May 16; Serial No. 463,641; published Feb. 8, 1944.
Beverages, Nonalcoholic maltless. Rudolph Liska & Sons, Inc. 407,056; May 16; Serial No. 464,706; published Feb. 8, 1944.
Extracts, etc., Syrups, concentrates and. Rodriguez Flavoring Syrups, Inc. 407,091; May 16; Serial No. 465,830; published Feb. 22, 1944.
Ginger ale. Anheuser-Busch, Inc. 188,362; renewed Aug. 26, 1944.
Non-alcoholic, maltless concentrates, etc., Grape juice and. Webster Thomas Company. 407,057; May 16; Serial No. 464,736; published Feb. 22, 1944.
Sirup, Nonalcoholic, maltless, concentrated and nonconcentrated fruit. Ver-Vac Company. 181,902; renewed Apr. 1, 1944.
Syrups and bottled root beer, Fountain. Lyons-Magnus, Inc. 407,022; May 16; Serial No. 461,821; published Feb. 15, 1944.

CLASS 46

Avocados, Fresh. J. O. Fores. 407,097; May 16; Serial No. 465,949; published Mar. 7, 1944.
Baking powder. Standard Brands Incorporated. 407,079; May 16; Serial No. 465,439; published Mar. 7, 1944.
Biscuits, cakes, and bread. Macfarlane, Lang & Company Limited. 184,279; renewed May 20, 1944.
Bread. Ward Baking Company. 189,002; renewed Sept. 9, 1944.
Cakes and doughnuts. Ward Baking Company. 188,520; renewed Aug. 26, 1944.
Cakes, cookies, fried cakes, etc. Grennan Cake Corporation. 183,784; renewed May 6, 1944.
Candy. G. Cella Co. 407,113; May 16; Serial No. 466,253; published Mar. 7, 1944.
Canned fish. Red Salmon Canning Co. 407,005; May 16; Serial No. 453,401; published Mar. 7, 1944.
Canned fruits and vegetables. McKnight-Keaton Grocery Company. 189,063; renewed Sept. 9, 1944.
Canned vegetables and eggs. Eagle Grocery Co. 182,406; renewed Apr. 8, 1944.
Chewing gum. American Chewing Products Corp. 407,093; May 16; Serial No. 465,857; published Mar. 7, 1944.
Chewing gum. American Chewing Products Corp. 407,094; May 16; Serial No. 465,860; published Mar. 7, 1944.
Chocolate coating and chocolate liquor, Sweet. R. C. Williams & Company. 407,009; May 16; Serial No. 454,094; published Jan. 19, 1943.
Cocoa. R. C. Williams & Company. 407,008; May 16; Serial No. 454,091; published Jan. 19, 1943.
Compound, powder or mix, for use in the manufacture of frozen desserts. American Breddo Corporation. 407,092; May 16; Serial No. 465,856; published Mar. 7, 1944.
Flour, Wheat. Sunnyside Milling Company. 181,058; renewed Mar. 11, 1944.
Flour, wheat feed, hog feed supplement with minerals, etc., Wheat. Russell-Miller Milling Co. 407,104; May 16; Serial No. 466,126; published Mar. 7, 1944.
Food for cattle. J. Bibby & Sons Limited. 182,347; renewed Apr. 8, 1944.
Food preparation. Martin Brothers Co. 407,070; May 16; Serial No. 465,041; published Mar. 7, 1944.
Fruits, Fresh citrus. Lo Bue Bros. 407,111; May 16; Serial No. 466,225; published Mar. 7, 1944.
Fruits, Fresh citrous. Winter Garden Citrus Growers Association. 183,966; renewed May 13, 1944.
Hams, boiled hams, and bacon, Cured. Alabama Packing Company. 187,734; renewed Aug. 12, 1944.
Hot chocolate mix. R. C. Williams & Company. 407,010; May 16; Serial No. 454,092; published Jan. 19, 1943.
Meats, boiled ham, and lard, Smoked. C. Swanston & Son. 180,985; renewed Mar. 11, 1944.
Preparation for seasoning chile sauce, tomato juice cocktail, etc. Curtice Brothers Co. 407,025; May 16; Serial No. 462,335; published Oct. 19, 1943.
Rice. Seaboard Rice Milling Company. 189,265; renewed Sept. 16, 1944.
Salad mustard. Canby, Ach & Canby Co. 184,998; renewed June 3, 1944.
Sherbet and ice stabilizer having a gelatin base. Swift and Company. 407,095; May 16; Serial No. 465,882; published Mar. 7, 1944.
Tomatoes, Fresh. Detroit Tomato Company. 185,882; renewed June 24, 1944.
Vegetables, Fresh. Bell Brothers. 185,280; renewed June 10, 1944.

CLASS 50

Crib sheets and water-proof crib mattress covers, Waterproof. A. F. Sauer Company. 407,078; May 16; Serial No. 465,435; published Mar. 7, 1944.
Hangers, Garment. Tubular Garment Hangers, Inc. 407,082; May 16; Serial No. 465,493; published Mar. 7, 1944.
Sheets, blocks, and rods made of solid transparent material, and plaques from such material. Spartan Industrial Corporation. 407,040; May 16; Serial No. 463,764; published Mar. 7, 1944.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Briktex, Incorporated. (See Kaye, Robert L., assignor.)
Burroughs Adding Machine Company. (See Racz, Ernest, assignor.)
Dobscha, Herman F., North Braddock, Pa. Blast furnace cinder notch stopper. Re. 22,479; May 16.
Evans Products Company. (See Schueder, G. M., and Farrell, assignors.)
Farrell, Eugene F. (See Schueder, G. M., and Farrell.)
Kaye, Robert L., assignor to Briktex, Incorporated, Newark, N. J. Building unit. Re. 22,481; May 16.
Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Printing machine. Re. 22,480; May 16.
Schueder, George M., and Eugene F. Farrell, assignors to Evans Products Company, Detroit, Mich. Space heater. Re. 22,482; May 16.

LIST OF DESIGN PATENTEES

Adler, Paul, New York, N. Y. Dress. 137,934; May 16.
Adler, Paul, New York, N. Y. Dress. 137,935; May 16.
Adler, Paul, New York, N. Y. Dress. 137,936; May 16.
Asch, Leonard C., New York, N. Y. Doll or similar article. 137,903; May 16.
Atwood Vacuum Machine Company, The. (See Schofield, Earl L., assignor.)
Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 137,919; May 16.
Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 137,920; May 16.
Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 137,921; May 16.
Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 137,922; May 16.
Beard, Charles L., Lancaster, Pa. Metal cutter. 137,923; May 16.
Beech Aircraft Corporation. (See Blanchard, Irvin H., assignor.)
Belcher, George E., Company. (See Reinhardt, Louis W., assignor.)
Benoto, Theola, St. Louis, Mo. Soap holder. 137,908; May 16.
Blanchard, Irvin H., assignor to Beech Aircraft Corporation, Wichita, Kans. Turnbuckle wrench. 137,909; May 16.
Blanchette, Doris M., Chicago Heights, assignor to Bradley Manufacturing Co., Chicago, Ill. Frame for mirrors, pictures, and the like. 137,910; May 16.
Blazey, Lawrence, Bay Village, assignor to Central Plastic Products Corporation, Cleveland Heights, Ohio. Bicycle chain guard. 137,911; May 16.
Bradley Manufacturing Co. (See Blanchette, Doris M., assignor.)
Brodigan, Joe, Brooklyn, N. Y. Woman's pants. 137,924; May 16.
Central Plastic Products Corporation. (See Blazey, Lawrence, assignor.)
Cookman, Helen C., New York, N. Y. Jacket. 137,912; May 16.
Dieter, Walter G., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Chair. 137,904; May 16.
Engel, Albert W., Chicago, Ill. Mounting corner. 137,937; May 16.
Felch & Co. (See Osborn, Cleo A., assignor.)
Glenn, Thomas C. (See Veltheer, J., and Glenn.)
Gustafson, Knut L., Chicago, Ill. Spoon or other article of flatware. 137,913; May 16.
Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)
Jarlien, Milton, New York, N. Y. Embroidered trimming. 137,925; May 16.
Johnson, Frank A., San Francisco, Calif. Combined cutter and ejector for biscuits, cookies, or the like. 137,914; May 16.
Kardux, Gordon E., Burbank, Calif. Template. 137,905; May 16.
Kegg, Charles W., Huntington, Ind. Tack hammer. 137,915; May 16.
Kemper, Adolph M., Larchmont, N. Y. Textile fabric. 137,932; May 16.
Libbey-Owens-Ford Glass Company. (See Dieter, Walter G., assignor.)
Martin, Walter J., Pittsburgh, Pa. Clothespin. 137,894; May 16.
Maycen, Othmar F., New York, N. Y. Airplane. 137,938; May 16.
Mrazek, Rudolph, Robstown, Tex. Knife. 137,916; May 16.
Nachman, Jack. (See Nachman, Joseph and Jack.)
Nachman, Joseph and J., Philadelphia, Pa. Apron. 137,926; May 16.
Nachman, Joseph and J., Philadelphia, Pa. Apron. 137,927; May 16.
Needham, Edward F., Alhambra, Calif. Cigarette holder. 137,933; May 16.
Osborn, Cleo A., Alexandria, Va., assignor to Felch & Co., Providence, R. I. Insignia pin. 137,917; May 16.
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Combination staple remover and letter opener. 137,939; May 16.
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple remover. 137,940; May 16.
Reinhardt, Louis W., Brockton, assignor to G. E. Belcher Company, Stoughton, Mass. Shoe tree. 137,918; May 16.
Rundle, Valiquette M., New York, N. Y. Animal figure. 137,906; May 16.
Sacks-Barlow Foundries, Inc. (See Strobel, William E., assignor.)
Schofield, Earl L., Auburn, Ind., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Lawn mower. 137,928; May 16.
Schofield, Earl L., Auburn, Ind., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Handle for a lawn mower. 137,929; May 16.
Schofield, Earl L., Auburn, Ind., assignor to Atwood Vacuum Machine Company. Head for a lawn mower. 137,930; May 16.
Strobel, William E., Maplewood, assignor to Sacks-Barlow Foundries, Inc., Newark, N. J. Heelplate for boots and shoes. 137,895; May 16.
Tilton, Texie, Webster Groves, Mo. Dress. 137,931; May 16.
Tremper, John S., Bethlehem, Pa. Dart game board. 137,907; May 16.
Veltheer, James, and T. C. Glenn, Toronto, Ontario, Canada. Corner display cabinet. 137,897; May 16.
Weiner, Jack, New York, N. Y. Embroidered trimming or the like. 137,896; May 16.
Wiener, Jack, New York, N. Y. Embroidered trimming or the like. 137,898; May 16.
Wiener, Jack, New York, N. Y. Embroidered trimming or the like. 137,899; May 16.
Wiener, Jack, New York, N. Y. Embroidered trimming or the like. 137,900; May 16.
Wiener, Jack, New York, N. Y. Embroidered trimming or the like. 137,901; May 16.
Wiener, Jack, New York, N. Y. Embroidered trimming or the like. 137,902; May 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abernathy, David W., assignor to Products Development, Inc., Chicago, Ill. Thermostatic element. 2,349,126; May 16.

Adams Clay Co. Inc. (See Mathis, Waddy T., assignor.)

Adams, Elmer Wade, Hammond, Ind., and G. W. Flint, assignors to Standard Oil Company, Chicago, Ill. Slushing composition. 2,348,715; May 16.

Adams, Frederick W., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Treatment of glass surfaces. 2,348,704; May 16.

Addressograph-Multigraph Corporation. (See Wescott, William B., assignor.)

Adelson, Samuel L. (See Gillard, H. W., and Adelson.)

Agriculture, of the United States of America, as represented by Claude R. Wickard, and his successors in office, Secretary of. (See Joshel, Lloyd M., assignor.)

Ahlquist, Eugene F., Minneapolis, assignor to Quality Park Envelope Company, St. Paul, Minn. Envelope clasp. 2,349,127; May 26.

Airway Electric Appliance Corporation. (See Dow, D. M., and Burmeister, assignors.)

Akers, John M., Charleston, W. Va. Can punching device. 2,349,128; May 16.

Albert, Walter P., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Dialing system. 2,349,129; May 16.

Alderman, Van Vernon, Arden, and W. E. Hanford, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Ethylenesulphonyl polymer. 2,348,705; May 16.

Allen Property Custodian. (See Bessire, Jean J.)

Allen Property Custodian. (See Bollée, P. and M.)

Allen Property Custodian. (See de Király, P., and Kucher.)

Allen Property Custodian. (See Dornier, Claude.)

Allen Property Custodian. (See Dybberg, Carl.)

Allen Property Custodian. (See Endres, Günther.)

Allen Property Custodian. (See Falasconi, Alberto.)

Allen Property Custodian. (See Friz, Adolf.)

Allen Property Custodian. (See Henares, Hilarion G.)

Allen Property Custodian. (See Herriger, Felix.)

Allen Property Custodian. (See Jacobson, Johan S.)

Allen Property Custodian. (See Kiesskalt, S., Kruta, Quednau, and Patat.)

Allen Property Custodian. (See Kirchheim, André G. C.)

Allen Property Custodian. (See Kratky, Anton.)

Allen Property Custodian. (See Krause, E., and Schröder.)

Allen Property Custodian. (See Kumetat, K., and Riester.)

Allen Property Custodian. (See Mauch, K., and Pauer.)

Allen Property Custodian. (See Nyrop, Johan E.)

Allen Property Custodian. (See Rabl, Alfred.)

Allen Property Custodian. (See Rambold, Adolf.)

Allen Property Custodian. (See Reygagne, Leonce.)

Allen Property Custodian. (See Rotheim, Erik.)

Allen Property Custodian. (See Scharfnagel, Rudolf.)

Allen Property Custodian. (See Schlesinger, Kurt.)

Allen Property Custodian. (See Schreiber, August.)

Allen Property Custodian. (See Vulliet-Durand, Gaston H.)

Allen Property Custodian. (See Wuppermann, T., and Koenig.)

Allen, Ernest C., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Armature for dynamo-electric machines. 2,348,948; May 16.

Allen, Morris F., Canton, Ohio. Road surfacing machine. 2,349,130; May 16.

Allen, Thomas C., and R. J. Dicke, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Insecticide and making same. 2,348,949; May 16.

Allied Chemical & Dye Corporation. (See Clark, Charles R., assignor.)

Allis-Chalmers Manufacturing Company. (See Liggett, John T., assignor.)

Allis-Chalmers Manufacturing Company. (See Otto, Eugene J., assignor.)

Allis-Chalmers Manufacturing Company. (See Ray, James L., assignor.)

Amalgamated Dental Company, The. (See Cowper, Frank M., assignor.)

Amatnick, Ernest. (See Samburg, M., and Amatnick.)

American Bosch Corporation. (See Gibson, R. H., and Crocker, assignors.)

American Brake Shoe Company. (See Olson, Walter J., assignor.)

American Can Company. (See Peck, Carl F., assignor.)

American Cyanamid Company. (See Bradley, Theodore F., assignor.)

American Cyanamid Company. (See Caryl, C. R., Thurston and Kaiser, assignors.)

American Cyanamid Compny. (See Feinstone, Wolffe H., assignor.)

American Cyanamid Company. (See Hedley, N., and Kress, assigners.)

American Cyanamid Company. (See Uncles, R. F., and Kurtz, assignors.)

American Locomotive Company. (See Reichhelm, Edward, assignor.)

American Smelting and Refining Company. (See Blumenthal, Bernhard, assignor.)

American Type Founders, Incorporated. (See Kauffeld, Theodore J., assignor.)

Anchor Cap & Closure Corporation. (See Gibbs, John C., assignor.)

Anderson, Clayton G., Portland, Oreg. Draft control means for furnaces. 2,348,950; May 16.

Anderson, James H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Oiling device. 2,349,131; May 16.

Andreasson, Rudolf W., Detroit, Mich. Oil hole drill. 2,348,874; May 16.

Anthes, Clifford C., Union, N. J., assignor to Union Carbide and Carbon Corporation. Blowpipe. 2,348,774; May 16.

Art Metal Construction Company. (See Lindros, Hjalmer C., assignor.)

Ashbaugh, Bernard D. (See Ernst, W., Lawyer, and Ashbaugh.)

Ashton, Benjamin N., assignor to Electrol Incorporated, Kingston, N. Y. Hydraulic pressure control valve unit. 2,349,069; May 16.

Ashton, Ralph. (See Behen, George L., assignor.)

Ashton, Thomas H. (See Stohlman, W. D., and Ashton.)

Associated Box Corporation. (See McIlwraith, J. W., and Miller.)

Associated Meisser Investments Limited. (See Hadekel, R., and Perriches, assignors.)

Atlantic Gear Works, Incorporated. (See Dahlerup, Christian G., assignor.)

Automatic Control Corporation. (See Bower, George D., assignor.)

Axelrod, Solomon, Bronx, N. Y. Register device. 2,349,070; May 16.

B. & T. Floor Company, The. (See Farr, Michael, Jr., assignor.)

Bailey Meter Company. (See Gorrie, Harvard H., assignor.)

Baird, Donald A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Clutch. 2,349,132; May 16.

Baird, John L., London, England. Method of and apparatus for producing images by television in stereoscopic relief. 2,349,071; May 16.

Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Presser foot lock for shoe sewing machines. 2,348,775; May 16.

Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Change-speed gearing for aircraft propellers. 2,348,716; May 16.

Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Quiet-ratcheting jaw clutch. 2,348,717; May 16.

Bash, John M. (See Phillips, W. D., and Van Foseen, assignors.)

Batchelor, Frederick K., and S. E. Becker, Huntington Park, Calif. Muffler. 2,348,706; May 16.

Beard, Charles L., Lancaster, Pa. Punch and die. 2,348,875; May 16.

Beard, Charles L., Lancaster, Pa. Metal cutter. 2,348,876; May 16.

Beard, Charles L., Lancaster, Pa. Rivet cutter. 2,348,877; May 16.

Becker, Sidney E. (See Batchelor, F. K., and Becker.)

Behen, George L., assignor of one-half to R. Ashton, Arvada, Colo. Center locating device. 2,348,878; May 16.

Bell Aircraft Corporation. (See Trotter, John C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Albert, Walter P., assignor.)

Bell Telephone Laboratories, Incorporated. (See Corso, Frank S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Vieth, Leonard, assignor.)

Bemis Bro. Bag Company. (See Stohlman, W. D., and Ashton, assignors.)

Bendix Aviation Corporation. (See Chappell, Ralph R., assignor.)

Bentley, Clarence H., South Gate, assignor, by mesne assignments, to Modern Faucet Co., Los Angeles, Calif. Shower head. 2,348,776; May 16.

Benton, Roy H., South St. Paul, Minn. Circular saw device. 2,349,133; May 16.

Berg, Egon G., and M. Overstrud, assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn. Hydraulic level control for mixing machines. 2,348,879; May 16.

Berg, Egon G., and M. Overstrud, assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn. Binder feeding attachments for mixing machines. 2,348,880; May 16.

Bessire, Jeon J., Imperia, Italy; vested in the Alien Property Custodian. Escape boat for submarines. 2,348,777; May 16.

Bethune, Samuel A., U. S. Army, and E. G. Comstock, Prince George County, Va. Shuttle case bearing. 2,348,718; May 16.

Black, Mike, assignor to H. H. Nieberding, Cincinnati, Ohio. Patient's lift attachment for beds. 2,348,778; May 16.

Black, Mike, assignor to H. H. Nieberding, Cincinnati, Ohio. Patient's lift attachment for beds. 2,348,779; May 16.

Blaker, David G., Webb City, and M. P. Matuszak, Bartlesville, Okla., assignors to Phillips Petroleum Company. Improving catalysts. 2,348,780; May 16.

Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Method of and apparatus for the generative formation of surfaces of ovate section. 2,348,881; May 16.

Bludworth, Joseph E., Cumberland, Md., assignor to Celanese Corporation of America. Laminating fabric. 2,348,781; May 16.

Blumenthal, Bernhard, Perth Amboy, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Separating impurities from metals or alloys. 2,348,719; May 16.

Bobo, Stephen N., assignor to R. P. Sniffen, New York, N. Y. Adjustable broiler grid holding rack. 2,348,720; May 16.

Boehm, Irwin G., Dayton, Ohio. Timing device. 2,348,722; May 16.

Bolen, Edward P., and E. R. Detrick, assignors to National Automotive Fibres, Inc., Detroit, Mich. Trim panel. 2,349,139; May 16.

Bolen, Edward P., and E. R. Detrick, assignors to National Automotive Fibres, Inc., Detroit, Mich. Trim panel. 2,349,140; May 16.

Bollée, Marcel. (See Bollée, P. and M.)

Bollée, Pièrre and M., Le Mans, France; vested in the Alien Property Custodian. Testing hardness of materials. 2,348,782; May 16.

Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch operating apparatus. 2,348,707; May 16.

Boosey, Edward W. N., Detroit, Mich. Oil interceptor. 2,348,723; May 16.

Bormann, Frederic, Ipswich, S. Dak. Candle follower. 2,349,072; May 16.

Bower, George D., University City, assignor to Automatic Control Corporation, St. Louis, Mo. Control mechanism. 2,348,951; May 16.

Bradley, Theodore F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of drying oils. 2,348,708; May 16.

Bradshaw, Russell R., assignor to The Dow Chemical Company, Midland, Mich. Ethyl cellulose molding composition. 2,349,134; May 16.

Brandt Automatic Cashier Company. (See Sprenger, William H., assignor.)

Brassell, Bryan, Puerto de Luna, N. Mex. Motion transmitting mechanism. 2,349,135; May 16.

Braun, Walter, Los Angeles, Calif. Shoe or similar article. 2,348,952; May 16.

Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Safety control for liquid fuel burners. 2,348,709; May 16.

Breese, James L., and B. Hayter, assignors to Oil Devices, Santa Fe, N. Mex. Horizontal hydroxylating burner. 2,348,721; May 16.

Brewster Aeronautical Corporation. (See Lesnick, Robert N., assignor.)

Briggs, Burton W., Newton, Mass. Control system for record playing or like devices. 2,348,953; May 16.

Brittain, Richard J., Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Railway journal box. 2,349,073; May 16.

Britton, Edgar C., and W. J. Le Fevre, assignors to The Dow Chemical Company, Midland, Mich. Polymerization of vinyl aromatic compounds. 2,349,136; May 16.

Brown and Sharpe Manufacturing Company. (See Gigger, Walter A., assignor.)

Brown, Dewey R. (See Brown, R. L. and D. R.)

Brown, Robert L. and D. R., Portland, Oreg. Scaffolding bracket. 2,348,954; May 16.

Brown Steel Tank Company. (See Brown, Walter V., assignor.)

Brown, Walter V., assignor to Brown Steel Tank Company, Minneapolis, Minn. Safety valve for tanks. 2,349,137; May 16.

Brunt, John, Kenilworth, N. J. Marine vessel. 2,348,783; May 16.

Bryant, Edwin F., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Preparation of pectic acid. 2,349,138; May 16.

Buchanan, Leslie B. M., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Door latch mechanism. 2,348,955; May 16.

Budd Wheel Company. (See Eksergian, Carolus L., assignor.)

Buhler, Carl, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,348,784; May 16.

Bullock, Ellis W., Birmingham, Ala., assignor to Fly Ash Arrestor Corporation. Fly ash collector. 2,348,785; May 16.

Burch, Lyndon W. (See Parkhurst, M. K., and Burch.)

Burkholder, Noah N. (See Martin, Ivan Z., assignor.)

Burmeister, Frederick H. (See Dow, D. M., and Burmeister.)

Buschow, Herman F. (See Chute, S. J., and Buschow.)

Butler, Edgar M., New Orleans, La. Electrolytic water correction device. 2,348,882; May 16.

Buttermann, Garry G., Louisville, Ky. Sanitary sales tube for dispensing ice-cream cones. 2,349,074; May 16.

California Fruit Growers Exchange. (See Bryant, Edwin F., assignor.)

Calumet and Hecla Consolidated Copper Company. (See Hill, Walter P., assignor.)

Carey, Philip, Manufacturing Company, The. (See Greider, H. W., and MacArthur, assignors.)

Carey, Philip, Manufacturing Company, The. (See MacArthur, R. A., and Greider, assignors.)

Carlile & Doughty, Incorporated. (See Doughty, Leon A., assignor.)

Carney, Clifford R., assignor to General Motors Corporation, Detroit, Mich. Ice tray. 2,348,956; May 16.

Carpenter, Miles H., Severna Park, Md. Flooring. 2,348,724; May 16.

Carvalho, Leslie R. N., New York, assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., Brooklyn, N. Y. Apparatus for and method of making circular locking bands for caps or closures. 2,348,957; May 16.

Caryl, Coleman R., Riverside, J. T. Thurston, Cos Cob, and D. W. Kaiser, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Alicyclic esters of alpha-hydroxyisobutyric acids. 2,348,710; May 16.

Celanese Corporation of America. (See Bludworth, Joseph E., assignor.)

Celio, Orlando, assignor to Scintilla Ltd., Soleure, Switzerland. Variable stroke pump. 2,348,958; May 16.

Celotex Corporation, The. (See Irvine, Fergus A., assignor.)

Central Specialty Company. (See Gaskell, W. L., and Haisch, assignors.)

Champion, Leon, Marne, Mich. Tractor. 2,349,141; May 16.

Chance, A. B., Company. (See Cole, Elmer K., assignor.)

Chaplin, Charles J., South Portland, assignor to Chaplin Corporation, Portland, Maine. Molded fiber article. 2,348,725; May 16.

Chaplin Corporation. (See Chaplin, Charles J., assignor.)

Chappell, Ralph R., Richmond, Va., assignor to Bendix Aviation Corporation, Bendix, N. J. Recording system. 2,348,711; May 16.

Chicago Flexible Shaft Company. (See Storm, Herbert F., assignor.)

Chicago Pneumatic Tool Company. (See Fischer, Howard R., assignor.)

Christenson, Harry N., assignor to Racine Screw Works, Racine, Wis. Drill jig. 2,349,142; May 16.

Chromogen, Incorporated. (See Gáspár, Béla, assignor.)

Chrysler Corporation. (See Baird, Donald A., assignor.)

Chrysler Corporation. (See Dickson, John B., assignor.)

Chrysler Corporation. (See Dunn, William T., assignor.)

Chrysler Corporation. (See Matulaitis, Victor E., assignor.)

Chrysler Corporation. (See Syrovy, A. J., Dunn, and Schotz, assignors.)

Church, Walter L., Houston, Tex. Well pump. 2,348,959; May 16.

Chute, Stanley J., Ridgewood, N. J., and H. F. Buschow, Flushing, assignors to The M. W. Kellogg Co., New York, N. Y. Heat exchanger. 2,349,143; May 16.

Clark, Charles R., Springfield Township, Montgomery County, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Separation of xylene from hydrocarbon mixtures. 2,348,726; May 16.

Colby, Irving A., Youngstown, Ohio. Pipe feeding apparatus. 2,348,786; May 16.

Cole, Elmer K., assignor to A. B. Chance Company, Centralia, Mo. Expanding anchor. 2,349,075; May 16.

Cole, George A., Waynesville, Ohio. Curb box cleaner. 2,349,076; May 16.

Commerce, Government of the United States as represented by the Secretary of. (See Dunmore, F. W., and Kear, assignors.)
Comparelli, Nicholas, Philadelphia, Pa. Fishing pole. 2,349,077; May 16.
Compo Shoe Machinery Corporation. (See Dawson, Fred, assignor.)
Comstock, Emmett G. (See Bethune, Samuel A.)
Consolidated Trimming Corporation. (See Nardulli, Peter F., assignor.)
Container Corporation of America. (See Throckmorton, Edgerton A., assignor.)
Continental Research Corporation. (See Gayer, F. H., and Fawkes, assignors.)
Conzetti, Achille, Basel, and E. Lehmann, Riehen near Basel, assignors to J. R. Geigy A. G., Basel, Switzerland. Alcohol-soluble azo dyestuffs and their manufacture. 2,348,788; May 16.
Copeman Laboratories Company. (See Jennings, H. Y., and Gillen, assignors.)
Cordes, Henry P., Tracy, Calif. Planting mechanism. 2,348,787; May 16.
Core Laboratories, Inc. (See Lewis, James A., assignor.)
Corso, Frank S., Beechhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone booth. 2,349,144; May 16.
Cote, George H., Bridgeport, Conn. Toolholder. 2,348,727; May 16.
Cowell, Frederick R., assignor to Kirkstall Forge Limited, Leeds, England. Internally expanding brake. 2,348,960; May 16.
Cowper, Frank M., Sutton, assignor to The Amalgamated Dental Company Limited, London, England. Clamping means. 2,348,961; May 16.
Crecca, John D., U. S. Navy. Arc welding. 2,348,728; May 16.
Crocker, William D. (See Gibson, R. H., and Crocker.)
Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing machine. 2,348,789; May 16.
Crowell-Collier Publishing Company, The. (See Lundbye, Axel E., assignor.)
Crowley, Theodore D., Newark, and B. C. Potter, Union, N. J., deceased; E. Potter, administratrix. Butter cutting device. 2,349,078; May 16.
Crown Cork & Seal Company. (See Carvalho, Leslie R. N., assignor.)
Crumrine, Chester W., Irondequoit Township, Monroe County, N. Y. Animal trap. 2,348,729; May 16.
Cyr, Howard M., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Zinc oxide. 2,348,883; May 16.
Dahlerup, Christian G., Flushing, assignor to Atlantic Gear Works, Incorporated, New York, N. Y. Gear testing machine. 2,348,712; May 16.
Darnell, Rex C., Dexter, assignor to King-Seeley Corporation, Ann Arbor, Mich. Governor. 2,349,145; May 16.
Davis, Ira D., Avery, Tex. Nail and tack holder and finger guard. 2,348,962; May 16.
Davis, John H., Long Beach, Calif. Combined outsole and heel lift. 2,348,713; May 16.
Dawson, Fred, West Roxbury, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Shoe press. 2,349,068; May 16.
De Cazenave, Maria L. T., Buenos Aires, Argentina. Combustion lamp. 2,349,079; May 16.
Deck, Arthur D., Winchester, assignor to Wesco Waterpaints Incorporated, East Boston, Mass. Apparatus for compacting powdered solid materials. 2,349,080; May 16.
Deflore, Leopold, Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company. Apparatus for coating pipe. 2,348,714; May 16.
Deger, Thomas E. (See Olin, J. F., and Deger.)
De Havilland Aircraft Company Limited, The. (See Thomas, Frederick M., assignor.)
De Király, Paul, and J. Kucher, Budapest, Hungary; vested in the Alien Property Custodian. Breech mechanism for automatic firearms. 2,348,790; May 16.
Detrick, Edward R. (See Bolen, E. P., and Detrick.)
Dewees, Leonard S., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Brazing apparatus. 2,348,884; May 16.
De Wilde, Frederick P., assignor to V. M. de Wilde, El Cajon, Calif. Automobile safety system. 2,348,963; May 16.
De Wilde, Verona M. (See de Wilde, Frederick P., assignor.)
Dicke, Robert J. (See Allen, T. C., and Dicke.)
Dickson, John B., assignor to Chrysler Corporation, Highland Park, Mich. Engine starting gearing. 2,349,146; May 16.
Di Pietro, Carmelo V., Birmingham, Mich. Carbonator. 2,348,791; May 16.
Disney, Walt, Productions. (See Justice, William B., assignor.)
Ditzen, Edward C., San Leandro, assignor to Oliver United Filters Incorporated, Oakland, Calif. Precoat filter. 2,348,885; May 16.
Dodgson, David E., San Pedro, Calif. Black-out port ventilator. 2,348,886; May 16.
Dodson, Mark, St. Louis, assignor to Edward Sebastian, University City, Mo. Shopping bag. 2,348,964; May 16.
Dornier, Claude, Friedrichshafen, Lake of Constance, Germany; vested in the Alien Property Custodian. Propelling plant for aircraft. 2,348,792; May 16.
Doughty, Leon A., Glenside, assignor to Carlile & Doughty, Incorporated, Conshohocken, Pa. Storage battery cover. 2,349,031; May 16.
Dougherty, Robert J., Ambler, assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Thermostatically operative valve. 2,348,965; May 16.
Douglass, James L., Cleveland Heights, Ohio. Tube coupling. 2,349,081; May 16.
Dow Chemical Company, The. (See Bradshaw, Russell R., assignor.)
Dow Chemical Company, The. (See Britton, E. C., and Le Febre, assignors.)
Dow Chemical Company, The. (See Heath, Sheldon B., assignor.)
Dow Chemical Company, The. (See Newhams, William C., assignor.)
Dow Chemical Company, The. (See Wiley, Ralph M., assignor.)
Dow, Dewey M., and F. H. Burmeister, assignors to Airway Electric Appliance Corporation, Toledo, Ohio. Electric appliance. 2,348,966; May 16.
Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Bending glass sheets. 2,348,887; May 16.
Drane, Phillips B., Tulsa, Okla. Pressure relief system for storage tanks. 2,348,888; Mar. 16.
Draper, Harold W., West Orange, assignor to The Whitehead & Hoag Company, Newark, N. J. Identification badge. 2,349,032; May 16.
Drybak Corporation, The. (See Falcon, Joseph V., assignor.)
Duby, Clarence J., Youngstown, Ohio. Permanent lifting magnet. 2,348,967; May 16.
Duncan Electric Manufacturing Company. (See Reynolds, J. H., and Green, assignors.)
Dunlop Rubber Company Limited. (See Wright, J., and Trevaskis, assignors.)
Dunmore, Francis W., Washington, D. C., and F. G. Kear, Minersville, Pa., assignors to the Government of the United States represented by the Secretary of Commerce. Visual type radio beacon. 2,348,730; May 16.
Dunn, William T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,349,147; Ma 16.
Dunn, William T. (See Syrovy, A. J., Dunn, and Schotz.)
Du Pont, E. I., de Nemours & Company. (See Alderman, V. V., and Hanford, assignors.)
Du Pont, E. I., de Nemours & Company. (See Mackey, B. H., and Milus, assignors.)
Du Pont, E. I., de Nemours & Company. (See Peterson, Wesley R., assignor.)
Duvall, I. M. (See Stalcup, Clarence F., assignor.)
Dybberg, Carl, Bygdoy, Aker, Norway; vested in the Alien Property Custodian. Lifesaving suit. 2,348,793; May 16.
Earl, John A., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Coil winding device. 2,348,889; May 16.
Earle, Henry C., Jr., Philadelphia, Pa., assignor to Mason-Neilan Regulator Co., Boston, Mass. Boiler feed water control mechanism. 2,348,890; May 16.
Eason, Clarence M., Waukesha, Wis. Clutch control mechanism. 2,348,891; May 16.
Eastman, Du Bois, and C. Richker, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Catalytic conversion of hydrocarbons. 2,348,794; May 16.
Eaton Manufacturing Company. (See Findley, Howard J., assignor.)
Edgren, Fred E., Chicago, Ill. Paperhanger's folding box and table. 2,349,148; May 16.
Edgren, Fred E., Chicago, Ill. Paperhanger's table. 2,349,149; May 16.
Eimco Corporation, The. (See Peterson, Clarence J., assignor.)
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel hub. 2,349,220; May 16.
Electro Manganese Corporation. (See Mantell, C. L., and Hammerquist, assignors.)
Electrol Incorporated. (See Ashton, Benjamin N., assignor.)
Electrolux Corporation. (See Wahlborg, Karl J., assignor.)
Elliott, Nathaniel R., Alameda, Calif. Boring head. 2,349,033; May 16.
Elmendorf, Armin, Winnetka, Ill. Machine for making wood wool. 2,349,034; May 16.
Endres, Günther, Hamburg, Germany; vested in the Alien Property Custodian. Cleaning and disinfecting composition. 2,348,795; May 16.
Equi-Flow Inc. (See Ungar, G. A., and Keller, assignors.)
Ernst, Walter, Ira B. Lawyer and B. D. Ashbaugh, Mount Gilead, Ohio, assignors to The Hydraulic Development Corp., Inc., Wilmington, Del. Press frame construction. 2,349,082; May 16.

Esval, Orland E., Merrick, and J. Freitag, Jackson Heights, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyroscopic centralizing and caging device. 2,348,731; May 16.
Falasconi, Alberto, Fermignano, Italy; vested in the Alien Property Custodian. Hydraulic continuous press for concrete and the like. 2,349,150; May 16.
Falcon, Joseph V., assignor to The Drybak Corporation, Binghamton, N. Y. Convertible coat. 2,349,035; May 16.
Farnsworth, Reuben L., Hazel Park, Mich. Four-wheel vehicle drive. 2,349,151; May 16.
Farr, Michael, Jr., assignor to The B. & T. Floor Company, Columbus, Ohio. Electrolytic process for coating aluminum and aluminum alloys. 2,349,083; May 16.
Fawkes, Charles E. (See Gayer, F. H., and Fawkes.)
Fearon, Robert E. (See Scherbatskoy, S. A., Swift, Fearon, and Neufeld.)
Feinstone, Wolffe H., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Impregnating gauze. 2,349,152; May 16.
Ferner, George W., assignor to Wingfoot Corporation, Akron, Ohio. Elasticized rubber hydrochloride film. 2,349,036; May 16.
Ferrante, John, Johnstown, N. Y., assignor to Kenlea Mfg. Corporation. Producing flocked sheet material. 2,349,153; May 16.
Ferwerda, Koop. (See Ferwerda, R. and K.)
Ferwerda, Ray, Garrettsville, and K. Ferwerda, Maple Heights, Ohio. Material moving device. 2,348,796; May 16.
Finch Telecommunications, Inc. (See Finch, W. G. H., and Wakefield, assignors.)
Finch, William G. H., Newtown, Conn., and J. M. Wakefield, Waldwick, assignors to Finch Telecommunications, Inc., Passaic, N. J. Coaxial cable loop antenna. 2,349,154; May 16.
Findley, Howard J., Shaker Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Adjustable bearing mounting. 2,349,084; May 16.
Finley, Karl L., D. D. Smith, and W. M. Spreng, assignors to The F. E. Myers & Bro. Co., Ashland, Ohio. Flat disk valve. 2,349,155; May 16.
Fischer, Howard R., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Offset drilling attachment. 2,349,156; May 16.
Fischer, Kermit K., Philadelphia, assignor to Fischer & Porter Company, Hatboro, Pa. Indicating the viscosity of flowing fluids. 2,348,732; May 16.
Fischer, Kermit, Bridge Valley, assignor to Fischer & Porter Company, Hatboro, Pa. Indicating the specific gravity of flowing fluids. 2,348,733; May 16.
Fischer, Louis A., assignor to The F. & M. Schaefer Brewing Company, Brooklyn, N. Y. Crown cap selecting machine. 2,348,797; May 16.
Fischer & Porter Company. (See Fischer, Kermit K., assignor.)
Fischer & Porter Company. (See Fischer, Kermit, assignor.)
Fish, Harry K. (See Truesdale, F. J., and Fish.)
Fitzpatrick, W. J., Company, The. (See Magnus, Elmer G., assignor.)
Flath, Otto S., Chicago, Ill. Conductor and track wire connection holding means. 2,348,968; May 16.
Flex-O-Tube Company, The. (See Milton, Thomas W., assignor.)
Flickinger, James C., assignor of one-half to F. J. Fuller, Cleveland, Ohio. Safety razor. 2,348,892; May 16.
Flint, George W. (See Adams, E. W., and Flint.)
Fly Ash Arrestor Corporation. (See Bullock, Ellis W., assignor.)
Food Machinery Corporation. (See Stilwell, G. E., and Paxton, assignor.)
Ford, Henry, Dearborn, and C. E. Sorensen, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Internal-combustion engine. 2,349,157; May 16.
Ford Motor Company. (See Ford, H., and Sorensen, assignors.)
Foreman, Ross. (See Oswald, Robert A., assignor.)
Forstrom, Edward W., Stratford, Conn., assignor to General Electric Company. Tuning arrangement for signaling systems. 2,349,085; May 16.
Foster, Edson P., Manitowoc, Wis. Felting needle. 2,349,086; May 16.
Fowles, Gilbert L., Lakewood, and C. J. Nocar, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Ceiling system. 2,349,158; May 16.
Franz, Erwin E., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,348,798; May 16.
Fraser, John H., Hamilton, Ontario, Canada. Work clamp. 2,349,087; May 16.
Fray Machine Tool Co. (See Richards, James H., assignor.)
Fredrickson, William H., assignor to Le Conie Stiles, Seattle, Wash. Apparatus for icing bakery goods. 2,348,800; May 16.
Freeman, Benjamin W. (See Freeman, L. G., Jr., and Knight, assignors.)
Freeman, Harry H., Teddington, England. Stop for lathes. 2,349,159; May 16.
Freeman, Louis G., Jr., Cincinnati, Ohio, and C. S. Knight, Brockton, Mass., assignors to B. W. Freeman, Cincinnati, Ohio. Die assembly. 2,348,799; May 16.
Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Slack adjuster. 2,348,734; May 16.
Freer, Phelps M., Detroit, Mich. Brake. 2,348,893; May 16.
Freitag, Joseph. (See Esval, O. E., and Freitag.)
French, Henry C., Elm Grove, Wis., and R. T. Hendrickson, Chicago, Ill.; said French assignor to the Heil Co., Milwaukee, Wis. Wheel and axle assembly. 2,348,801; May 16.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion process. 2,348,802; May 16.
Frey, Frederick E., and R. D. Snow, Bartlesville, Okla., and W. F. Huppke, Lomida, Calif., assignors to Phillips Petroleum Company. Converting hydrocarbons. 2,349,160; May 16.
Frimel, Hobart F., West Los Angeles, Calif., assignor to Interstate Aircraft and Engineering Corp. Hydraulic pump. 2,349,161; May 16.
Friz, Adolf, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian. Veneering press. 2,348,803; May 16.
Fuller, Frank J. (See Flickinger, James C., assignor.)
Gardner-Richardson Company, The. (See Ringler, William A., assignor.)
Gar Wood Industries, Inc. (See Hatch, Ronald K., assignor.)
Gaskell, Walter L., Ypsilanti, and O. P. Haisch, Ann Arbor, assignors to Central Specialty Company, Ypsilanti, Mich. Wood-planing machine. 2,349,162; May 16.
Gáspár, Béla, Hollywood, Calif., assignor to Chromogen, Incorporated. Process and treating bath for the production of colored photographic pictures. 2,348,894; May 16.
Gáspár, Béla, Hollywood, Calif., assignor to Chromogen, Incorporated. Method of and material for producing corrected photographic images. 2,348,735; May 16.
Gatchell, Eugene J. (See Lerch, W. B., Mathis, and Gatchell.)
Gaudio, Vincenzo, Cranston, R. I. Power operated scissors. 2,348,895; May 16.
Gauger, Frank A., Milwaukee, and E. A. Jones, Shorewood, Wis.; said Gauger assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Modulating control system. 2,348,969; May 16.
Gayer, Frederick H., and C. E. Fawkes, Chicago, assignors to Continental Research Corporation, Chicago Heights, Ill. Separation of acids contained in tall oil. 2,348,970; May 16.
Gayer, Frederick H., and C. E. Fawkes, Chicago, assignors to Continental Research Corporation, Chicago Heights, Ill. Separation of the constituents of tall oil. 2,348,971; May 16.
Geigy, J. R., A. G. (See Conzetti, A., and Lehmann, assignors.)
General Electric Company. (See Forstrom, Edward W., assignor.)
General Electric Company. (See Nichols, Walter I., assignor.)
General Electric Company. (See Simpson, William, assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Warner, Donald F., assignor.)
General Industries Company, The. (See Roe, Howard A., assignor.)
General Motors Corporation. (See Allen, Ernest C., assignor.)
General Motors Corporation. (See Brittain, Richard J., Jr., assignor.)
General Motors Corporation. (See Carney, Clifford R., assignor.)
Gerhart, Howard L. (See Lycan, W. H., and Gerhart.)
Gerity, William, Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Manufacturing asbestos-cement shingles or the like. 2,348,804; May 16.
Gibbs, John C., Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Machine for making closure caps. 2,349,037; May 16.
Gibbs, John H., Jamaica, assignor to The Reader's Digest Association, Inc., Pleasantville, N. Y. Mechanism for coloring address plates. 2,349,163; May 16.
Gibson, Robert H., Springfield, Mass., and W. D. Crocker, Suffield, Conn., assignors to American Bosch Corporation, Springfield, Mass. Circuit breaker. 2,348,896; May 16.
Gierthy, John J., Detroit, Mich. Engine construction. 2,349,231; May 16.
Gigger, Walter A., Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company. Control device. 2,348,805; May 16.
Gilbert, Walton E., Los Angeles, assignor to Shell Development Company, San Francisco, Calif. Bottom hole intermitter for pumping wells. 2,349,164; May 16.
Gillard, Herbert W., and S. L. Adelson, Chicago, Ill., assignors to Infilco Incorporated. Sewage sampler. 2,348,806; May 16.
Gillen, Joseph A. (See Jennings, H. Y., and Gillen.)

Gladstone, Benjamin, Lynn, Mass. Spring for beds or mattresses. 2,348,897; May 16.
Gleason Sales Co. (See Joyce, Francis W., assignor.)
Globe American Corporation. (See Sherman, Alvin G., assignor.)
Goat, Fred, Co., The. (See Sorkin, Morris, assignor.)
Goat, Fred, Co., The. (See Wickwire, Arthur M., Jr., assignor.)
Goldstein, Leonard. (See Ruys, J. D., and Goldstein.)
Goodrich, B. F., Company, The. (See Mathes, Roger A., assignor.)
Goodson, Luke B., Phillips, Tex., J. V. Montgomery, Fort Huachuca, Ariz., and R. W. Henry, Bartlesville, Okla., assignors to Phillips Petroleum Company. Solvent dewaxing of mineral oils. 2,349,038; May 16.
Goodson, Luke B., Phillips, Tex., J. V. Montgomery, Fort Huachuca, Ariz., and R. W. Henry, Bartlesville, Okla., assignors to Phillips Petroleum Company. Solvent dewaxing of mineral oils. 2,349,039; May 16.
Goodstein, Joseph, New York, N. Y. Filler for quilts and the like. 2,348,807; May 16.
Gorin, Manuel H. (See Welinsky, I. H., and Gorin.)
Gorrie, Harvard H., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Liquid fuel burner. 2,349,221; May 16.
Goshorn, Roland H., Trenton, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of amines. 2,349,222; May 16.
Grabau, William C., assignor to Submarine Signal Company, Boston, Mass. Voltage regulator. 2,349,166; May 16.
Grant, Casper E., Portsmouth, Va. Game apparatus. 2,349,040; May 16.
Grant, Rudolph R., Los Angeles, Calif., assignor of one-fourth to M. Isaacson, Dayton, Ohio, and S. Shapirio, Washington, D. C. Composition containing resinous type products. 2,349,165; May 16.
Gray, Walter K., Wilmington, Calif. Articulated paint brush. 2,348,972; May 16.
Green, Stanley S. (See Reynolds, J. H., and Green.)
Greider, Harold W. (See MacArthur, R. A., and Greider.)
Greider, Harold W., and R. A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Manufacture of heat insulation material. 2,348,898; May 16.
Groene, William F., and H. J. Siekmann, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Spindle control mechanism. 2,348,973; May 16.
Groov-Pin Corporation. (See Richards, Cecil C., assignor.)
Guignard, Ulyss O., and W. E. Schober, assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn. Loader. 2,348,899; May 16.
Guilar, Robert P., Milwaukee, Wis. Electric propulsion mechanism. 2,348,808; May 16.
Gunderson, Ralph R., Detroit, Mich. Tractor-trailer brake system. 2,349,167; May 16.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Carton. 2,349,088; May 16.
H. K. Metal Craft Manufacturing Co. (See Hopp, H. P., and Kunzelman, assignors.)
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Stabilized diazonium derivatives of phthalocyanine compounds. 2,349,089; May 16.
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Stabilized polydiazo-phthalocyanines. 2,349,090; May 16.
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Stabilized-polydiazo-phthalocyanines. 2,349,091; May 16.
Hadekel, Ruben, and A. A. Perriches, Warrington, assignors to Associated Messier Investments Limited Farnham Common, England. Apparatus for damping movements of vehicle and other wheels. 2,348,974; May 16.
Hagenbook, Thurloe M., assignor to International Steel Company, Evansville, Ind. Electrically controlled lock system for revolving doors. 2,348,900; May 16.
Haisch, Otto P. (See Gaskell, W. L., and Haisch.)
Hammer, Nathan, New York, N. Y. Foldable seating device for children. 2,349,092; May 16.
Hammer, Nathan, New York, N. Y. Match package. 2,349,093; May 16.
Hammerquist, William L. (See Mantell, C. L., and Hammerquist.)
Handley Brown Heater Company. (See Handley, Harold E., assignor.)
Handley, Harold E., assignor to Handley Brown Heater Company, Jackson, Mich. Water heater. 2,348,901; May 16.
Hanford, William E. (See Alderman, V. V., and Hanford.)
Hanlon, John H. and J. W., Belmont, Mass. Drifting valve. 2,348,809; May 16.
Hanlon, John W. (See Hanlon, J. H. and J. W.)
Harbison-Walker Refractories Company. (See Pike, Robert D., assignor.)
Hare, Donald G. C., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Method and apparatus for determining liquid level. 2,348,810; May 16.
Hare, Donald G. C., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Signaling device for gun perforators. 2,349,041; May 16.
Hart, Roy R., San Jose, Calif. Handle retaining fixture. 2,348,902; May 16.
Hart, Roy R., San Jose, Calif. Pruning shears. 2,348,903; May 16.
Hartman, Rush S., Trenton, N. J. Tire carrier. 2,348,811; May 16.
Hatch, Ronald K., Highland Park, assignor to Gar Wood Industries, Inc., Detroit, Mich. Wire reel construction. 2,348,904; May 16.
Hauseman, E. F., Company, The. (See Fowles, G. L., and Nocar, assignors.)
Hawaiian Pineapple Company, Limited. (See Serai, Kiichi, assignor.)
Hayter, Bruce. (See Breese, J. L., and Hayter.)
Heald Machine Company, The. (See Blood, Harold L., assignor.)
Heald Machine Company, The. (See Sampatacos, Peter M., assignor.)
Heath, Dudley E., assignor to Servel, Inc., New York, N. Y. Refrigerator cabinet. 2,348,812; May 16.
Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Finely divided sulphur product. 2,348,736; May 16.
Hebeler, Edward S., Williamsville, N. Y., assignor, by mesne assignments, to Unit Rays, Inc., Cleveland, Ohio. Method of and apparatus for producing pulsating current. 2,349,229; May 16.
Hedley, Norman, and J. J. Kress, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Treatment of garnierite ores. 2,349,223; May 16.
Heil Co., The. (See French, F. C., assignor and Hendrickson.)
Heilmann, Thorbjørn, assignor to Separation Process Company, Copenhagen, Denmark. Froth flotation. 2,349,094; May 16.
Heller, Herman S. (See Tasker, Homer G., assignor.)
Henares, Hilarion G., Manila, Philippine Islands; vested in the Alien Property Custodian. Apparatus for extracting fibers from fibrous husks. 2,348,813; May 16.
Hendrickson, Robert T. (See French, H. C., and Hendrickson.)
Henley, John A., Sale, England, assignor to Metropolitan-Vickers Electrical Company, Limited. Electric circuit breaker. 2,349,095; May 16.
Henry, Robert W. (See Goodson, L. B., Montgomery, and Henry.)
Hercules Powder Company. (See Stuart, Joseph, II, assignor.)
Hercules Powder Company. (See Traylor, William N., assignor.)
Herriger, Felix, Berlin, Germany; vested in the Alien Property Custodian. Rectifier for voltage duplicating circuits. 2,348,814; May 16.
Herron, Alexander T., Utica, N. Y. Apparatus for treating pile fabrics. 2,349,169; May 16.
Hill, C. V., & Company. (See Lowell, Floyd C., assignor.)
Hill, Walter P., Detroit, assignor, by mesne assignments, to Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Metalworking machine. 2,349,168; May 16.
Hillgren, James, Huntington Park, Calif. Door lock. 2,348,737; May 16.
Hofmann, Victor E., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Making hollow thermoplastic ware. 2,348,738; May 16.
Hohwart, Ernest F., Detroit, Mich. Cable clamp. 2,348,975; May 16.
Holmes, Albert E., Evanston, Ill. Headlight regulator. 2,349,042; May 16.
Hooks, S. & Z., Co. (See Zarowin, Albert A., assignor.)
Hoover Company, The. (See Siedle, Arnold D., assignor.)
Hoover Company, The. (See Smellie, Donald G., assignor.)
Hopfield, John J., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Method of and apparatus for shaping glass. 2,348,905; May 16.
Hopp, Harold P., Englewood, N. J., and E. Kunzelman, Mount Vernon, assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y. Chain ladder. 2,348,906; May 16.
Horn, George B., Fairfield, assignor, by mesne assignments, to The Wheeler Insulated Wire Company, Incorporated, Bridgeport, Conn. Gaseous discharge lamp circuit. 2,348,739; May 16.
Horton, Francis, Riverdale, N. Y., L. C. Kemp, Port Arthur, Tex., R. E. Nagle, New York, and L. P. Scoville, White Plains, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of motor fuel. 2,348,815; May 16.
Howard, Charles W., Franklin, Ohio. Rotary seal joint. 2,348,907; May 16.
Hunziker, Fred, et al. (See Soule, George M., assignor.)

Huppke, Walter F. (See Frey, F. E., Snow, and Huppke.)
Hyams, Herbert, Baldwin, Long Island, N. Y. Nursing bottle holder. 2,348,816; May 16.
Hydraulic Development Corp., Inc., The. (See Ernst, W., Lawyer, and Ashbaugh, assignors.)
Hyland, Raymond, Barberton, Ohio. Drier. 2,349,043; May 16.
Hyman, Julius, assignor to Velsicol Corporation, Chicago, Ill. Insecticide. 2,348,976; May 16.
Imperial Chemical Industries Limited. (See Haddock, Norman H., assignor.)
Infilco Incorporated. (See Gillard, H. W., and Adelson, assignors.)
Ingersoll-Rand Company. (See Anderson, James H., assignor.)
International Standard Electric Corporation. (See Quayle, Joshua C., assignor.)
International Steel Company. (See Hagenbook, Thurloe M., assignor.)
Interstate Aircraft and Engineering Corp. (See Frimel, Hobart F., assignor.)
Irvine, Fergus A., New Orleans, La., assignor to The Celotex Corporation, Chicago, Ill. Board finish apparatus. 2,348,817; May 16.
Isaacson, Max, et al. (See Grant, Rudolph R., assignor.)
Jackman, Elmer F., Lakewood, Ohio, assignor to G. V. Woodling and said Jackman, co-trustees, as joint assignee. Sealing device. 2,349,170; May 16.
Jackson, James O., Crafton, Pa., assignor to Pittsburgh-Des Moines Company. Elevated tank. 2,349,096; May 16.
Jackson, Paul S., assignor to Rockford Machine Tool Company, Rockford, Ill. Machine tool. 2,349,171; May 16.
Jacobs, Joseph H., Minneapolis, Minn. Making multiple tool holders. 2,348,908; May 16.
Jacobson, Johan S., The Hague, Netherlands; vested in the Alien Property Custodian. Projection of images. 2,348,818; May 16.
Jahn, Edward J., Edwardsville, Ill., assignor to Shell Development Company, San Francisco, Calif. Corrosion protective composition. 2,349,044; May 16.
Jennings, Harley Y., Clio, and J. A. Gillen, assignors to Copeman Laboratories Company, Flint, Mich. Diaphragm and method of forming same. 2,348,740; May 16.
Jessen, Le Roy S., March Field, Calif. Device for moving aircraft. 2,348,741; May 16.
Johnson, Albert L., White Bear Lake, assignor to Johnson Power-On Transmission Corporation, St. Paul, Minn. Transmission. 2,348,980; May 16.
Johnson, Arthur W. N., Garberville, Calif. Expansible chuck. 2,348,819; May 16.
Johnson, Charles D. (See Marschner, C. F., and Johnson.)
Johnson, Clarence V., Yates Center, Kans. Adjustable bed frame. 2,349,172; May 16.
Johnson, Leigh E., Wichita, Kans. Bait retainer for animal traps. 2,348,981; May 16.
Johnson Power-On Transmission Corporation. (See Johnson, Albert L., assignor.)
Johnston Company, The. (See Terrell, Bettie, assignor.)
Jonas, Frank D., East Williston, assignor to Oxford Filing Supply Co., Brooklyn, N. Y. Data tab. 2,348,909; May 16.
Jones, Edwin A. (See Gauger, F. A., and Jones.)
Jones, Leo D. (See Stahl, H. A., and Jones.)
Jordan, Charles E., Dawson, and L. L. Jordan, Oskaloosa, Iowa. Fence post driver. 2,348,820; May 16.
Jordan, Levi L. (See Jordan, C. E. and L. L.)
Joshel, Lloyd M., Hyattsville, Md., assignor to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Manufacture of alicyclic compounds. 2,349,173; May 16.
Joshel, Lloyd M., Hyattsville, Md., assignor to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Manufacture of alicyclic compounds. 2,349,232; May 16.
Joyce, Francis W., assignor to Gleason Sales Co., Chicago, Ill. Snap switch. 2,348,982; May 16.
Justice, William B., Los Angeles, assignor to Walt Disney Productions, Burbank, Calif. Simplifying animation. 2,348,983; May 16.
Kadz, Harold D., Glendale, Calif., assignor to Kay-Brunner Steel Products, Inc. Carrying scraper. 2,348,910; May 16.
Kaiser, Donald W. (See Caryl, C. R., Thurston, and Kaiser.)
Kauffeld, Theodore J., New York, N. Y., assignor to American Type Founders, Incorporated, Elizabeth, N. J. Sheet delivery mechanism for printing presses. 2,348,821; May 16.
Kay-Brunner Steel Products, Inc. (See Kadz, Harold D., assignor.)
Kear, Frank G. (See Dunmore, F. W., and Kear.)
Keller, Joseph F. (See Ungar, G. A., and Keller.)
Kellogg, M. W., Co., The. (See Chute, S. J., and Buschow, assignors.)
Kellogg, M. W., Company, The, et al. (See Layng, E. T., and Voorhees, assignors.)
Kellogg, M. W., Company, The. (See Rossheim, David B., assignor.)
Kemp, Lebbeus C. (See Horton, F., Kemp, Nagle, and Scoville.)
Kenlea Mfg. Corporation. (See Ferrante, John, assignor.)
Kennelly, Jeremiah D., Oak Park, Ill. Socket. 2,349,097; May 16.
Ketel, Henry, Holland, Mich. Fifth wheel. 2,348,977; May 16.
Kiersted, Wynkoop, Jr., Scarsdale, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Filtration. 2,348,822; May 16.
Kiesskalt, Siegfried, E. Kruta, H. Quednau, and F. Patat, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Adsorbing gases and vapors. 2,349,098; May 16.
King Features Syndicate, Inc. (See Turner, Frank T., assignor.)
King-Seeley Corporation. (See Darnell, Rex C., assignor.)
Kinner, Giles W., Mount Rainier, Md. Lifting tool for manhole covers. 2,348,978; May 16.
Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Serving bowl. 2,349,099; May 16.
Kirchheim, André G. C., Aix La Chapelle, Germany; vested in the Alien Property Custodian. Manufacturing glass articles. 2,348,823; May 16.
Kirkstall Forge Limited. (See Cowell, Frederick R., assignor.)
Klinkhamer, Henry A., St. Paul, Minn. Oil cleaner. 2,349,174; May 16.
Kloss, Elmer C., Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Mold for casting chain. 2,348,979; May 16.
Knight, Chesterton S. (See Freeman, L. G., Jr., and Knight.)
Koenig, Friedrich. (See Wuppermann, T., and Koenig.)
Kolbe, Joachim, Detroit, Mich. Motor vehicle. 2,349,175; May 16.
Komroff, Paul. (See Terry, M. C., and Komroff.)
Kopitke, William H., West Hartford, assignor to Plax Corporation, Hartford, Conn. Machine for extruding and blowing plastics. 2,349,176; May 16.
Kopitke, William H., West Hartford, assignor to Plax Corporation, Hartford, Conn. Method of and apparatus for making blown plastic articles. 2,349,177; May 16.
Kopitke, William H., West Hartford, assignor to Plax Corporation, Hartford, Conn. Method of and apparatus for extruding and blowing organic plastic materials. 2,349,178; May 16.
Korn, Waldemar H., Davenport, Iowa. Car axle lubricator. 2,348,911; May 16.
Koskela, Jonas F., Maynard, Mass. Stop motion attachment for looms. 2,348,824; May 16.
Kozacik, Alfred P. (See Reiff, O. M., and Kozacik.)
Kratky, Anton, Vienna, Germany; vested in the Alien Property Custodian. Electric lamp. 2,348,825; May 16.
Krause, Ernst, and E. Schröder, Leipzig, Germany; vested in the Alien Property Custodian. Coating of objects of magnesium or the like with oxides. 2,348,826; May 16.
Kress, John J. (See Hedley, N., and Kress.)
Kruta, Erich. (See Kiesskalt, S., Kruta, Quednau, and Patat.)
Kucher, József. (See de Király, P., and Kucher.)
Kumetat, Karl, Wolfen, Kreis Bitterfeld, and O. Riester, Dessau-Haideburg, Germany; vested in the Alien Property Custodian. Production of nitrogenous heterocyclic compounds. 2,349,179; May 16.
Kunzelman, Edward. (See Hopp, H. P., and Kunzelman.)
Kurtz, Kerwin K. (See Uncles, R. F., and Kurtz.)
Lambert Brake Corporation, The. (See Lambert, Homer T., assignor.)
Lambert, Homer T., assignor to The Lambert Brake Corporation, St. Joseph, Mich. Valve construction. 2,348,827; May 16.
Lamont, James H., and Company, Limited. (See Lamont, James H., assignor.)
Lamont, James H., Edinburgh, Scotland, deceased, M. S. Stables or Lamont, R. Patrick, and J. Waugh, executors, assignors to James H. Lamont and Company, Limited. Edinburgh, Scotland. Pipe coupling. 2,349,180; May 16.
Land, Edwin H., Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del. Self-analyzing dichroic image. 2,348,912; May 16.
Lawyer, Ira B. (See Ernst, W., Lawyer, and Ashbaugh.)
Lay, Devereaux B. (See Sudduth, J. A., and Lay.)
Layng, Edwin T., Jersey City, N. J., and Vanderveer Vorhees, Hammond, Ind., assignors of one-half to Standard Oil Company, and one-half to The M. W. Kellogg Company. Dehydro-aromatization. 2,349,045; May 16.
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Siekmann, assignors.)
Lederle Laboratories, Inc. (See Tiesler, Adolph E., assignor.)
Le Fevre, Walter J. (See Britton, E. C., and Le Fevre.)
Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 2,348,913; May 16.
Lehmann, Ernst. (See Conzetti, A., and Lehmann.)

Lehman, Robert A., New York, N. Y., and R. C. Sproull, Pittsfield, Mass. Sodium bismuth triglycollamate. 2,348,984; May 16.

Lerch, William B., C. H. Mathis, and E. J. Gatchell, Bartlesville, Okla., assignors to Phillips Petroleum Company. Method of sealing or fixing casing tubes in wells. 2,349,181; May 16.

Lesnick, Robert N., Brooklyn, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Gunfire control. 2,349,101; May 16.

Lesnick, Robert N., Brooklyn, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Gun operation signal mechanism. 2,349,182; May 16.

Lett, Julian T., et al. (See Wiley, Lee M., assignor.)

Levenberg, Merton H., Chicago, Ill. Lighting fixture construction. 2,349,102; May 16.

Lewis, James A., assignor to Core Laboratories, Inc., Dallas, Tex. Determining permeability. 2,348,985; May 16.

Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)

Libbey-Owens-Ford Glass Company. (See Hopfield, John J., assignor.)

Liddon, William M. (See Randol, Glenn T., assignor.)

Liggett, John T., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Final drive casing brace. 2,349,100; May 16.

Linder, Ernest G., Philadelphia, Pa., assignor to Radio Corporation of America. Resonant cavity magnetron. 2,348,986; May 16.

Lindros, Hjalmer C., assignor to Art Metal Construction Company, Jamestown, N. J. Book file. 2,348,914; May 16.

Lock, Frank, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Hoist. 2,348,987; May 16.

Lock Joint Pipe Company. (See Trickey, W. W., and Willhelm, assignors.)

Londen Machinery Company, The. (See Spafford, Ralph W., assignor.)

Lowell, Floyd C., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated case. 2,348,988; May 16.

Lowry, Bert B., Medford, Oreg. Apparatus for attaching envelopes and the like to packages. 2,348,989; May 16.

Lubri-Gel Products Company. (See Means, Eldon A., assignor.)

Luertzing, Paul R., assignor of one-half to Walter O. Luertzing. Method of and apparatus for forming and finishing hollow glass bodies. 2,349,046; May 16.

Luertzing, Walter O. (See Luertzing, Paul R., assignor.)

Lundbye, Axel E., assignor to The Crowell-Collier Publishing Company, Springfield, Ohio. Jig or fixture for electroplating. 2,348,915; May 16.

Lycan, William H., and H. L. Gerhart, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Preparation of monomers of cyclopentadiene. 2,349,047; May 16.

MacArthur, Roger A., and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Manufacture of heat insulation structure. 2,348,829; May 16.

MacArthur, Roger A. (See Greider, H. W., and MacArthur.)

Mackey, Bill H., and P. R. Milus, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Smokeless powder. 2,349,048; May 16.

Magnus, Elmer G., assignor to The W. J. Fitzpatrick Company, Chicago, Ill. Comminuting machine. 2,348,916; May 16.

Magnus, Finn H., West Caldwell, N. J. Harmonica. 2,348,830; May 16.

Mahler, John S., East Orange, N. J. Safety razor accessory. 2,349,183; May 16.

Mantell, Charles L., Manhasset, N. Y., and W. L. Hammerquist, Knoxville, Tenn., assignors to Electro Manganese Corporation, Minneapolis, Minn. Magnesium control in manganese electrowinning. 2,348,742; May 16.

Marschner, Charles F., and C. D. Johnson, Kirkwood, assignors to McDonnell Aircraft Corporation, Robertson, Mo. Flush fabric attachment. 2,349,103; May 16.

Martin, Ivan Z., assignor of one-half to N. N. Burkholder, Ephrata, Pa. Baling press. 2,349,184; May 16.

Mason-Neilan Regulator Co. (See Earle, Henry C., Jr., assignor.)

Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Manufacture of mercaptothiazolines. 2,348,917; May 16.

Mathis, Clyde H. (See Lerch, W. B., Mathis, and Gatchell.)

Mathis, Waddy T., Hamden, Conn., assignor to Clay Adams Co. Inc., New York, N. Y. Safety device for pipettes. 2,348,831; May 16.

Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Span hanger for trolley wires. 2,348,918; May 16.

Matulaitis, Victor E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,349,185; May 16.

Matuszak, Maryan P. (See Blaker, D. G., and Matuszak.)

Mauch, Karl, and O. Paner, Hamburg, Germany; vested in the Alien Property Custodian. Treating bituminous substances. 2,348,832; May 16.

Maurer, Gottfried, Zürich, assignor to A. Müller & Cie, Maschinenfabrik und Eisengiesserei, Aktiengesellschaft, Brugg, Switzerland. Glue applying device in gluing machines. 2,348,991; May 16.

McCue, Irl W., Farmingdale, N. Y. Self-conforming tractor jack. 2,348,743; May 16.

McDonnell Aircraft Corporation. (See Marschner, C. F., and Johnson, assignors.)

McIlwraith, John W., and E. L. Miller, New Castle, Pa., assignors to Associated Box Corporation. Box handle structure. 2,348,828; May 16.

McMurray, Glenn D., Larned, Kans. Typing rhythm indicator. 2,348,744; May 16.

McNeill, Harry L., assignor to The Stearns-Roger Manufacturing Company, Denver, Colo. Aerating apparatus. 2,348,990; May 16.

Means, Eldon A., Wichita, Kans. Control and prevention of caving and sliding in drilling oil and gas wells. 2,349,050; May 16.

Means, Eldon A., Wichita, assignor to Lubri-Gel Products Company, McCracken, Kans. Salt water drilling mud. 2,349,049; May 16.

Merten, Eugen, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Sensitivity control for seismic recording. 2,349,186; May 16.

Metropolitan-Vickers Electrical Company, Limited. (See Henley, John A., assignor.)

Meyer, Charles A., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vibration dampener. 2,349,187; May 16.

Michigan Tool Company. (See Pelphrey, Harry, assignor.)

Millar, John A., East Orange, N. J. Astronomical instrument. 2,349,188; May 16.

Miller, Edward L. (See McIlwraith, J. W., and Miller.)

Miller, Ernest F., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Expansion joint construction. 2,348,833; May 16.

Milton, Thomas W., Detroit, Mich., assignor to The Flex-O-Tube Company. Making shielded spark plug connectors. 2,348,919; May 16.

Milus, Paul R. (See Mackey, B. H., and Milus.)

Mine and Smelter Supply Company, The. (See Moerlin, William J., assignor.)

Miner, W. H., Inc. (See Lehman, Edward H., assignor.)

Minneapolis-Honeywell Regulator Company. (See (Gauger, F. A., assignor) and Jones.)

Minneapolis-Honeywell Regulator Company. (See Taylor, Daniel G., assignor.)

Modern Faucet Co. (See Bentley, Clarence H., assignor.)

Moerlin, William J., assignor to The Mine and Smelter Supply Company, Denver, Colo. Hot miller for detachable rock drill bits. 2,348,992; May 16.

Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)

Montgomery, H. A., Company, The. (See Nill, Edward A., assignor.)

Montgomery, James V. (See Goodson, L. B., Montgomery, and Henry.)

Morgan Construction Company. (See Morgan, Weld, assignor.)

Morgan, Weld, assignor to Morgan Construction Company, Worcester, Mass. Wire-drawing machine. 2,349,104; May 16.

Moriarty, Francis C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,348,745; May 16.

Mossay, Paul A. H., Norwich, England. Flameproof electric motor. 2,349,105; May 16.

Mueller, John H., et al. (See Mueller, Moritz L., assignor.)

Mueller, Moritz L., Detroit, Mich., assignor, by mesne assignments, to M. L. and J. H. Mueller, Seattle, Wash. Heating apparatus. 2,348,834; May 16.

Mueller, Moritz L., assignor, by mesne assignments to M. L. and J. H. Mueller, Seattle, Wash. Heating apparatus. 2,348,835; May 16.

Muirson Label Co. (See White, Jesse A., assignor.)

Mullan, Joseph, Baltimore, Md. Shoe polishing apparatus. 2,349,106; May 16.

Müller, A., & Cie, Maschinenfabrik und Eisengiesserei, Aktiengesellschaft. (See Maurer, Gottfried, assignor.)

Murran, George. (See Saxby, Marvin R., assignor.)

Murray, Clay E., near Davenport, Iowa. Blade holding block for boring bars. 2,349,189; May 16.

Murtaugh, Michael E., Chicago, Ill. Cartridge carrier. 2,349,107; May 16.

Myers, F. E., & Bro. Co., The. (See Finley, K. L., Smith, and Spreng, assignors.)

Myers, William H., Glasgow, Mont. Crankshaft grinder. 2,349,108; May 16.

Nagle, Richard E. (See Horton, F., Kemp, Nagle, and Scoville.)

Nagle, Richard E., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Catalytic conversion of hydrocarbons. 2,348,836; May 16.

Nardulli, Peter F., Chicago, Ill., assignor to Consolidated Trimming Corporation, New York, N. Y. Machine for crocheting sheathings about cores. 2,348,746; May 16.

National Automotive Fibres, Inc. (See Bolen, E. P., and Detrick, assignors.)

National Malleable and Steel Castings Company. (See Kloss, Elmer C., assignor.)

National Steel Corporation. (See Truesdale, F. J., and Fish, assignors.)

Neufeld, Jacob. (See Scherbatskoy, S. A., Swift, Fearon, and Neufeld.)

Newhams, William C., assignor to The Dow Chemical Company, Midland, Mich. Recovery of finely-divided magnesium scrap. 2,349,190; May 16.

New Jersey Machine Corporation. (See von Hofe, George W., assignor.)

New Jersey Zinc Company, The. (See Cyr, Howard M., assignor.)

New Products Corporation. (See Banker, Oscar H., assignor.)

Newman, Charles, Elizabeth, N. J. Mechanical exercising horse. 2,348,747; May 16.

Nichols, Walter I., Saugus, Mass., assignor to General Electric Company. Gas turbine. 2,348,748; May 16.

Nieberding, H. H. (See Black, Mike, assignor.)

Nill, Edward A., assignor to The H. A. Montgomery Company, Detroit, Mich. Lubricating composition. 2,349,224; May 16.

Nocar, Charles J. (See Fowles, G. L., and Nocar.)

Norelli, Vincent B., Arlington, Va. Apparatus for filling capsules. 2,348,749; May 16.

Northrop Aircraft, Inc. (See Pavlecka, Vladimir H., assignor.)

Northrop Aircraft, Inc. (See Pease, Lester R., assignor.)

Novak, Victor B., Nome, Alaska. Mixing valve. 2,349,051; May 16.

Novotney, Frank A., Streator, Ill. Elevating gate. 2,348,993; May 16.

Nyrop, Johan E., Copenhagen, Denmark; vested in the Alien Property Custodian. Preparing cocoa and chocolate products. 2,348,837; May 16.

Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)

Oil Devices. (See Breese, James L., assignor.)

Oil Devices. (See Breese, J. L., and Hayter, assignors.)

Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Window system for motor vehicles. 2,348,838; May 16.

O'Keeffe, David, Buffalo, N. Y. Auto safety belt. 2,349,109; May 16.

Oldham, Samuel R., Newark, N. J., assignor to Union Carbide and Carbon Corporation. Blowpipe. 2,348,839; May 16.

Olin, John F., and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc. Manufacture of sulphur derivatives of organic compounds. 2,349,191; May 16.

Oliver United Filters Incorporated. (See Ditzen, Edward C., assignor.)

Ollier, Joseph O., New York, N. Y. Manufacture of cemented hard metals, in particular for tool elements. 2,349,052; May 16.

Olson, Walter J., Suffern, N. Y., assignor to American Brake Shoe Company. Molding flask. 2,348,840; May 16.

Oswald, Robert A., assignor of one-half to R. Foreman, San Mateo, Calif. Racing arena and photographing apparatus. 2,348,841; May 16.

Ott, Joe, Manufacturing Co. (See Ott, Joseph S., assignor.)

Ott, Joseph S., assignor to Joe Ott Manufacturing Co., Chicago, Ill. Apparatus for assembling structures. 2,348,920; May 16.

Otto, Eugene J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sheave. 2,348,994; May 16.

Ovestrud, Melvin. (See Berg, E. G., and Ovestrud.)

Owens-Illinois Glass Company. (See Hofmann, Victor E., assignor.)

Oxford Filing Supply Co. (See Jonas, Frank D., assignor.)

Oxhandler, Samuel, Flushing, N. Y., assignor to Sargent & Company, New Haven, Conn. Lock for airplane doors or the like. 2,349,192; May 16.

Packard Motor Car Company. (See Ware, Marsden, assignor.)

Palmer, Floyd J., Cleveland, Ohio. Stoker 2,349,194; May 16.

Parkhurst, Malcolm K., New York, and L. W. Burch, Pelham, N. Y., assignors to The Wilcolator Company, Elizabeth, N. J. Control device. 2,348,995; May 16.

Parkhurst, Malcolm K., New York, and L. W. Burch, Pelham, N. Y., assignors to The Wilcolator Company, Elizabeth, N. J. Circuit breaker. 2,348,996; May 16.

Pass, Sam, Chicago, Ill. Furniture slipcover. 2,349,193; May 16.

Patat, Franz. (See Kiesskalt, S., Kruta, Quednau, and Patat.)

Patent and Licensing Corporation, The. (See Gerity, William, assignor.)

Patrick, Russel, et al., executors. (See Lamont, James H.)

Paüer, Othmar. (See Mauch, K., and Paüer.)

Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Anti-oxidant. 2,348,842; May 16.

Pavlecka, Vladimir H., Pacific Palisades, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Draw press. 2,348,921; May 16.

Paxton, Gerald C. (See Stilwell, G. E., and Paxton.)

Peacock, Charles T., Lincoln County, Colo. Damming attachment for listers and lister seeders. 2,348,997; May 16.

Pearce, Edwin S., Indianapolis, Ind. Journal box closure means. 2,348,843; May 16.

Pease, Lester R., Inglewood, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Flange forming die assembly. 2,348,998; May 16.

Peck, Carl F., Jersey City, N. J., assignor to American Can Company, New York, N. Y. Container. 2,348,750; May 16.

Peelle, James F., Richmond, Ind. Metal door construction. 2,349,195; May 16.

Pekar, Albert G., assignor to George Sharpnack, Ridgefield Park, N. J. System for indicating unbalance of cyclically moving bodies. 2,348,922; May 16.

Pelphrey, Harry, assignor to Michigan Tool Company, Detroit, Mich. Gear shaving hob. 2,348,844; May 16.

Pelphrey, Harry, assignor to Michigan Tool Company, Detroit, Mich. Machine for forming gears. 2,348,845; May 16.

Perkins, Arthur R., Oneonta, N. Y. Power plant assembly. 2,349,196; May 16.

Perriches, André A. (See Hadekel, R., and Perriches.)

Perricone, Joseph, Brooklyn, N. Y. Vehicle recorder. 2,348,923; May 16.

Peterson, Clarence J., assignor to The Elmco Corporation, Salt Lake City, Utah. Purification of sugar juices. 2,348,846; May 16.

Peterson, Frans H., Monroe, La. Photographic enlarging easel. 2,348,999; May 16.

Peterson, Wesley Rasmus, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment for polyamides. 2,348,751; May 16.

Pevere, Ernest F., Beacon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Conversion of hydrocarbons. 2,349,053; May 16.

Phillips Petroleum Company. (See Blaker, D. G., and Matuszak, assignors.)

Phillips Petroleum Company. (See Frey, Frederick E., assignor.)

Phillips Petroleum Company. (See Frey, F. E., Snow, and Huppke, assignors.)

Phillips Petroleum Company. (See Goodson, L. B., Montgomery, and Henry, assignors.)

Phillips Petroleum Company. (See Lerch, W. B., Mathis, and Gatchell, assignors.)

Phillips Petroleum Company. (See Schulze, Walter A., assignor.)

Phillips, Willard D., and R. A. Van Fossen, Chicago, Ill. Degreasing apparatus. 2,349,001; May 16.

Phillips, Willard D., and R. A. Van Fossen, assignors to J. M. Bash, Chicago, Ill. Degreaser with two sumps. 2,349,000; May 16.

Phipps, Nelson S., Leicester, Mass. Nursing bottle holder. 2,349,054; May 16.

Pike, Robert D., assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa. Dead burned magnesia. 2,348,847; May 16.

Pinney, H. H. (See Smith, L. H., and Williamson, assignors.)

Pioneer Engineering Works, Inc. (See Berg, E. G., and Ovestrud, assignors.)

Pioneer Engineering Works, Inc. (See Guignard, U. O., and Schober, assignors.)

Pittsburgh-Des Moines Company. (See Jackson, James O., assignor.)

Pittsburgh Plate Glass Company. (See Adams, Frederick W., assignor.)

Pittsburgh Plate Glass Company. (See Lycan, W. H., and Gerhart, assignors.)

Placek, Adolph, Philadelphia, Pa. Evaporating liquids and apparatus for carrying out the same. 2,349,002; May 16.

Plax Corporation. (See Kopitke, William H., assignor.)

Polaroid Corporation. (See Land, Edwin H., assignor.)

Potstada, George, Oakland, Calif. Ground stake. 2,349,110; May 16.

Potter, Benjamin C. (See Crowley, T. D., and Potter.)

Potter, Elsie, administratrix. (See Crowley, T. D., and Potter.)

Products Development, Inc. (See Abernathy, David W., assignor.)

Quality Park Envelope Company. (See Ahlquist, Eugene F., assignor.)

Quayle, Joshua C., Ashton, Chester, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric cable. 2,348,752; May 16.

Quednau, Herbert. (See Kiesskalt, S., Kruta, Quednau, and Patat.)

Rabl, Alfred, Wiener-Neudorf, Germany; vested in the Alien Property Custodian. Speed drive for fast running machines, especially for cycle dynamo machines. 2,348,848; May 16.

Racine Screw Works. (See Christenson, Harry N., assignor.)

Radio Corporation of America. (See Linder, Ernest G., assignor.)

Radio Corporation of America. (See Smith, Rogers, M., assignor.)

Rambold, Adolf, Dresden, Germany; vested in the Alien Property Custodian. Making flexible bags. 2,349,111; May 16.

Randol, Glenn T., St. Louis, Mo., assignor of forty per cent to W. M. Liddon, Nashville, Tenn. Change speed transmission. 2,348,753; May 16.

Ransome Concrete Machinery Company. (See Williams, Joseph R., assignor.)

Ray, James L., Elm Grove, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine apparatus. 2,348,754; May 16.

Reader's Digest Association, Inc., The. (See Gibbs, John H., assignor.)

Rehfeld, Earl R., Chicago, Ill. Seal applying machine. 2,349,197; May 16.

Reich, Sidney L., et al. (See Sturken, Oswald C. H., assignor.)

Reichhelm, Edward, Old Greenwich, Conn., assignor to American Locomotive Company, New York, N. Y. Liquid filter. 2,348,925; May 16.

Reiff, Orland M., and A. P. Kozacik, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Plastic composition and making the same. 2,349,198; May 16.

Renner, Fred H., Milwaukee, Wis. Fixture support. 2,349,003; May 16.

Reygagne, Leonce, Decazeville, France; vested in the Alien Property Custodian. Cast iron and its manufacture. 2,348,849; May 16.

Reynolds, James H., and S. S. Green, assignors to Duncan Electric Manufacturing Company, La Fayette, Ind. Terminal block for watt-hour meters. 2,348,755; May 16.

Rhein, Lloyd R., Pleasant Ridge, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Outside door handle. 2,349,055; May 16.

Richards, Cecil C., assignor to Groov-Pin Corporation, Union City, N. J. Art of screw rolling. 2,348,850; May 16.

Richards, James H., Glendale, Calif., assignor to Fray Machine Tool Co. Milling machine. 2,349,004; May 16.

Richards, James H., Glendale, Calif., assignor to Fray Machine Tool Co. All-angle milling machine attachment. 2,349,199; May 16.

Richker, Charles. (See Eastman, Du B., and Richker.)

Riester, Oskar. (See Kumetat, K., and Riester.)

Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Coat hanger. 2,349,200; May 16.

Rockford Machine Tool Company. (See Jackson, Paul S., assignor.)

Roe, Doyle L., Grand Saline, Tex. Ink eradicator applicator. 2,349,005; May 16.

Roe, Howard A., assignor to The General Industries Company, Elyria, Ohio. Automatic stop for phonograph mechanisms. 2,348,924; May 16.

Roemer, William C. (See Williams, D. M., and Roemer.)

Rohr Aircraft Corporation. (See Rohr, Frederick H., assignor.)

Rohr, Frederick H., San Diego, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Airplane power plant and cowling assembly means. 2,349,006; May 16.

Romanoski, Joseph A. E., Huntington, N. Y. Plane attachment. 2,349,112; May 16.

Rosenzweig, Julius, New York, N. Y. Combination girdle and hernia truss. 2,349,113; May 16.

Rossheim, David B., Teaneck, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Apparatus for determining stresses in pipe arrangements. 2,348,926; May 16.

Rotheim, Erica, et al., heirs. (See Rotheim, Erik.)

Rotheim, Erik, deceased, by E. and H. Rotheim, Oslo, Norway, heirs; vested in the Alien Property Custodian. Liquid spraying apparatus. 2,348,851; May 16.

Rotheim, Hagbarth, et al., heirs. (See Rotheim, Erik.)

Runsvold, Martin S., and H. G. Sloane, San Diego, Calif. Dispensing and vending machine. 2,348,927; May 16.

Russell, Theodore, Naugatuck, Conn. Double cord fastener. 2,349,114; May 16.

Ruys, Jan D., Pittsburg, and L. Goldstein, Concord, assignors to Shell Development Company, San Francisco, Calif. Manufacture of acetylene. 2,349,007; May 16.

Ryan, Grace G. (See Ryan, Joseph D., assignor.)

Ryan, Joseph D., Toledo, Ohio, assignor to G. G. Ryan. Plastic composition. 2,348,756; May 16.

Safety Car Heating and Lighting Company. (See Schepmoes, Lindsley, assignor.)

St. Joe Paper Company. (See Sudduth, J. A., and Lay, assignors.)

Samburg, Maurice, and E. Amatnick, New York, N. Y.; said Amatnick assignor to said Samburg. Automatic telephone calling system. 2,348,758; May 16.

Samiran, David, Fairfield, Ohio. Liquid dispensing device. 2,348,757; May 16.

Sampatacos, Peter M., assignor to The Heald Machine Company, Worcester, Mass. Bearing construction. 2,348,928; May 16.

Sanford, John M., Terre Haute, Ind. Filter blank. 2,349,115; May 16.

Sargent & Company. (See Oxhandler, Samuel, assignor.)

Sauter, Fritz, Basel, Switzerland. Snap-action rocker device. 2,349,008; May 16.

Saxby, Marvin R., Pleasant Plains, Staten Island, assignor of sixty per cent to G. Murran, New York County, N. Y. Method and apparatus for applying radium-luminescent material. 2,348,929; May 16.

Schaefer, F. & M., Brewing Company, The. (See Fischer, Louis A., assignor.)

Scharfnagel, Rudolf, Stuttgart, Germany; vested in the Alien Property Custodian. Electron tube. 2,348,852; May 16.

Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Fluorescent lighting fixture. 2,348,930; May 16.

Scherbatskoy, Serge A. G. Swift, R. E. Fearon, and J. Neufeld, assignors to Well Surveys, Incorporated, Tulsa, Okla. Well logging instrument. 2,349,225; May 16.

Schlesinger, Kurt, Berlin, Germany; vested in the Alien Property Custodian. Cathode ray tube. 2,348,853; May 16.

Schober, Wayne E. (See Guignard, U. O., and Schober.)

Schoenberger, W. J., Company, The, et al. (See Soule, George M., assignor.)

Schotz, Otto W. (See Syrovy, A. J., Dunn, and Schotz.)

Schreiber, August, Stalinsdorf, Berlin, Germany; vested in the Alien Property Custodian. Method and means for purifying sewage and the like. 2,348,854; May 16.

Schröder, Ernst. (See Krause, E., and Schröder.)

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons. 2,348,931; May 16.

Schwab, Martin C., Chicago, Ill. Submarine. 2,349,009; May 16.

Schwarzwald, Milton. (See Sparling, Elliott W., assignor.)

Schweda, Martin, St. Albans, N. Y. Snow guard for roofs. 2,349,201; May 16.

Scintilla Ltd. (See Celio, Orlando, assignor.)

Scott, Ashton T., Ardmore, assignor to The Sharples Corporation, Philadelphia, Pa. Manufacture of soap. 2,348,855; May 16.

Scoville, Loren P. (See Horton, F., Kemp, Nagle, and Scoville.)

Scrantom, De Hart G., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Knitting machine. 2,348,932; May 16.

Sebastian, Edward. (See Dodson, Mark, assignor.)

Seeley, Lauren E., New Haven, Conn. Stove. 2,348,933; May 16.

Selvig, John N., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,348,856; May 16.

Senfleben, Paul W., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Bobbin winding machine. 2,348,857; May 16.

Separation Process Company. (See Heilmann, Thorbjorn, assignor.)

Seraf, Kiichi, assignor to Hawaiian Pineapple Company, Limited, Honolulu, T. H. Envelope folding and gluing machine. 2,349,056; May 16.

Servel, Inc. (See Heath, Dudley E., assignor.)

Shappirio, Sol, et al. (See Grant, Rudolph R., assignor.)

Sharar, Fred H., Williamsport, Pa. Charge fuming device. 2,349,116; May 16.

Sharples Chemicals Inc. (See Goshorn, Roland H., assignor.)

Sharples Chemicals Inc. (See Olin, J. F., and Deger, assignors.)

Sharples Corporation, The. (See Scott, Ashton T., assignor.)

Sharples Corporation, The. (See Stahl, H. A., and Jones, assignors.)

Sharpnack, George. (See Pekar, Albert G.)

Sheehy, George J., Columbus, Ohio. Combined axiometer and bifocal lens segment locater. 2,348,858; May 16.

Shell Development Company. (See Gilbert, Walter E., assignor.)

Shell Development Company. (See Jahn, Edward J., assignor.)

Shell Development Company. (See Merten, Eugen, assignor.)

Shell Development Company. (See Ruys, J. D., and Goldstein, assignors.)

Shell Development Company. (See Thomas, Samuel B., assignor.)

Shell Development Company. (See Tulleners, Anton J., assignor.)

Sherman, Alvin G., Groose Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind. Life craft. 2,348,859; May 16.

Sherman Ralston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Cooking stove. 2,348,934; May 16.

Siebring, Claude, George, Iowa. Convertible coal and oil burner. 2,349,117; May 16.

Siedle, Arnold D., Cleveland Heights, assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,348,860; May 16.

Siekmann, Harold J. (See Groene, W. F., and Siekmann.)

Silent Glow Oil Burner Corporation, The (See Sherman, Ralston M., assignor.)

Simplex Products Corporation. (See Thompson, Ralph C., assignor.)

Simpson, William, Schenectady, N. Y., assignor to General Electric Company. Function cam. 2,349,118; May 16.

Slezak, John, assignor to Turner Brass Works, Sycamore, Ill. Drain fitting. 2,349,202; May 16.

Sloane, Harrison G. (See Runsvold, M. S., and Sloane.)

Smaller War Plants Corporation. (See Smith, C. D., and O. S. F. assignors.)

Smellie, Donald G., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,348,861; May 16.

Smith, Charles D. and O. S. F., Anderson, Ind., assignors to Smaller War Plants Corporation, Chicago, Ill. Form. 2,348,935; May 16.

Smith, Donald D. (See Finley, K. L., Smith, and Spreng.)

Smith, Lewis H., Cleveland, Ohio, and L. R. Williamson, Brooklyn, N. Y., assignors to H. H. Pinney, Shaker Heights, Ohio. Inlet for syphons. 2,349,010; May 16.

Smith, Otho S. F. (See Smith, C. D. and O. S. F.)

Smith, Rogers M., Ashland Terrace, N. J., assignor to Radio Corporation of America. Frequency control for ultra high frequency devices. 2,349,011; May 16.

Sneed, John, Huntington Woods, Mich. Gear cutter. 2,348,759; May 16.

Sniffen, Robert P. (See Bobo, Stephen N., assignor.)

Snow, Robert D. (See Frey, F. E., Snow, and Huppke.)

Socony-Vacuum Oil Company. (See Reiff, O. M., and Kozacik, assignors.)

Socony-Vacuum Oil Company. (See Welinsky, I. H., and Gorin, assignors.)

Sorensen, Charles E. (See Ford, H., and Sorensen.)

Sorkin, Morris, assignor to The Fred Goat Co., Inc., New York, N. Y. Registration control apparatus. 2,348,862; May 16.

Soule, George M., Medina, assignor to The W. J. Schoenberger Company, Cleveland Ohio, and one-half to F. Hunziker. Indexing chuck. 2,349,119; May 16.

Soule, Henry, Mooreton, N. Dak. Mop head. 2,348,863; May 16.

Spaeth, Charles, Mamaroneck, N. Y. Producing high frequency oscillations in illuminating electronic discharge lamp devices. 2,349,012; May 16.

Spafford, Ralph W., assignor to The Londen Machinery Company, Fairfield, Iowa. Monorail control system. 2,349,120; May 16.

Sparling, Elliott W., assignor, by mesne assignments, to Milton Schwarzwald, Los Angeles, Calif. Stereoscopic viewer. 2,349,013; May 16.

Spencer Aircraft Motors, Inc. (See Spencer, Louis R., assignor.)

Spencer, Louis R., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn. Internal-combustion engine. 2,349,203; May 16.

Sperlich, Herman A., Highland Park, Mich. Ironing machine. 2,349,014; May 16.

Sperry Gyroscope Company. (See Esval, O. E., and Freitag, assignors.)

Spreng, Warren M. (See Finley, K. L., Smith, and Spreng.)

Sprenger, William H., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Coin sorting and counting machine. 2,348,936; May 16.

Sproull, Reavis C. (See Lehman, R. A., and Sproull.)

Stables (or Lamont) Mary S., et al., executors. (See Lamont, James H.)

Stahl, Harold A., Lansdowne, and L. D. Jones, assignors to The Sharples Corporation, Philadelphia, Pa. Skimming apparatus. 2,348,938; May 16.

Stahl, Oscar C., Los Angeles, Calif. Shower door. 2,348,937; May 16.

Stalcup, Clarence F., Pasadena, assignor of one-half to I. M. Duvall, Arcadia, Calif. Flush tank. 2,349,015; May 16.

Stamm, Benjamin I. J., New York, N. Y. Oil burner. 2,348,760; May 16.

Standard Oil Company. (See Adams, E. W., and Flint, assignors.)

Standard Oil Company, et al. (See Layng, E. T., and Voorhees, assignors.)

Standard Oil Company. (See Swenson, Reuben A., assignor.)

Staude, Edwin G., Minneapolis, Minn. Machine for applying and drying adhesive on paper goods. 2,348,864; May 16.

Staude, Edwin G., Minneapolis, Minn. Paper box machine. 2,349,204; May 16.

Stearns-Roger Manufacturing Company, The. (See McNeill, Harry L., assignor.)

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerator. 2,349,121; May 16.

Stephens, Joseph F., Kansas City, Mo. Articulate pipe or conduit. 2,349,016; May 16.

Sterrett, Robert R., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Latex composition. 2,348,865; May 16.

Stiles Le Conie. (See Frederickson, William H., assignor.)

Stilwell, Glenn E., and G. C. Paxton, Riverside, assignors to Food Machinery Corporation, San Jose, Calif. Machine for manufacturing lids for multiple boxes. 2,349,205; May 16.

Stohlman, William D., St. Louis, Mo., and T. H. Ashton, Omaha, Nebr., assignors to Bemis Bro. Bag Company, St. Louis, Mo. Bag. 2,349,206; May 16.

Storer, Richard M., Denver, Colo. Soap chip dispenser. 2,349,017; May 16.

Storm, Herbert F., assignor to Chicago Flexible Shaft Company Chicago, Ill. Frequency multiplier. 2,349,057; May 16.

Streeter, Leo R., Los Angeles, Calif. Sound film apparatus. 2,349,122; May 16.

Stuart, Joseph, II, assignor to Hercules Powder Company, Wilmington, Del. Polishing apparatus. 2,349,207; May 16.

Sturken Harriet, et al. (See Sturken, Oswald C. H., assignor.)

Sturken, Oswald C. H., assignor of fifty per cent to H. Sturken, Closter, N. J. and fifty per cent to S. L. Reich, Forest Hills, L. I., N. Y. Producing protein plastics by cold molding. 2,348,761; May 16.

Sturtevant, Harold V., Norristown, Pa. Stoker. 2,348,762; May 16.

Submarine Signal Company. (See Grabau, William C., assignor.)

Sudduth, Jarrette A., and D. B. Lay, assignors to St. Joe Paper Company, Port St. Joe, Fla. Conveyer chain link. 2,349,208; May 16.

Swenson, Reuben A., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Lubricant and preparing the same. 2,349,058; May 16.

Swift, Gilbert. (See Scherbatskoy, S. A., Swift, Fearon, and Neufeld.)

Syrovy, Augustin J., W. T. Dunn, and O. W. Schotz, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,348,763; May 16.

Tasker, Homer G., Van Nuys, assignor to H. S. Heller, West Los Angeles, Calif. Tape driving system for magnetic sound recording machines and the like. 2,349,018; May 16.

Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,349,209; May 16.

Temple, Robert, Pittsburgh, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del. Explosive cartridge. 2,348,866; May 16.

Temple Velocity Equipment, Inc. (See Temple, Robert, assignor.)

Ternstedt, Manufacturing Company. (See Rhein, Lloyd R., assignor.)

Terrell, Bettie, assignor to The Johnston Company, Inc., Dallas, Tex. Garment. 2,349,019; May 16.

Terry, Matson C. (See Terry, M. C., and Komroff, assignors.)

Terry, Matson C., and P. Komroff, Toledo, Ohio, assignors, by mesne assignments, to Matson C. Terry, Washington, D. C. Condensate removal. 2,349,059; May 16.

Texas Company, The. (See Eastman, Du B., and Richker, assignors.)

Texas Company, The. (See Hare, Donald G. C., assignor.)

Texas Company, The. (See Horton, F., Kemp, Nagle, and Scoville, assignors.)

Texas Company, The. (See Kiersted, Wynkoop, Jr., assignor.)

Texas Company, The. (See Nagle, Richard E., assignor.)

Texas Company, The. (See Pevere, Ernest F., assignor.)

Texas Company, The. (See Trow, Richard F., assignor.)

Texas Company, The. (See Uren, Lester C., assignor.)

Thomas, Frederick M., assignor to The De Havilland Aircraft Company Limited, Hatfield Aerodrome, Hertfordshire, England. Variable pitch airscrew. 2,348,764; May 16.

Thomas, Harry W., Miami Beach, Fla. Rollable window screen. 2,349,226; May 16.

Thomas, Samuel B., Wilmington, assignor to Shell Development Company, San Francisco, Calif. Apparatus for the preparation of catalysts. 2,349,230; May 16.

Thompson, Ralph C., Cleveland Heights, assignor to Simplex Products Corporation, Cleveland, Ohio. Shaft seal. 2,348,939; May 16.

Thorneloe, Ava S., executrix. (See Thorneloe, Keith C.)

Thorneloe, Keith C., Wilton Woods, Va., deceased, Ava S. Thorneloe, executrix. Preparing condensed low lactose skim milk for storage and recovery of lactose therefrom. 2,349,227; May 16.

Throckmorton, Edgerton A., Dundee, assignor to Container Corporation of America, Chicago, Ill. Carton. 2,349,020; May 16.

Thurston, Jack T. (See Caryl, C. R., Thurston, and Kaiser.)

Tiesler, Adolph E., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Preparation of 4-pyridine sulphonamides and related compounds. 2,349,060; May 16.

Tinker, Walter H., Boston, Mass. Steam injector. 2,349,123; May 16.

Tokheim Oil Tank and Pump Company. (See Waugh, Paul E., assignor.)

Towmotor Co. (See Weaver, Elverton W., assignor.)

Traylor, William N., Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del. Processes for improving the color of resinous copolymers of terpenes. 2,349,210; May 16.

Trevaskis, Henry. (See Wright, J., and Trevaskis.)

Trickey, William W., Essex Fells, N. J., and L. G. Wilhelm, Henryetta, Okla., assignors to Lock Joint Pipe Company, East Orange, N. J. Method and machine for winding. 2,348,765; May 16.

Trico Products Corporation. (See Oisbei, John R., assignor.)

Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Ordnance. 2,349,124; May 16.

Trow, Richard F., Lawrenceville, Ill., assignor to The Texas Company, New York, N. Y. Combination cracking process. 2,348,867; May 16.

Truesdale, Frederick J., Steubenville, Ohio, and H. K. Fish, Follansbee, W. Va., assignors to National Steel Corporation. Safety crane hook. 2,349,021; May 16.

Tulleners, Anton J., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Alkylation process. 2,349,211; May 16.

Turner Brass Works. (See Slezak, John, assignor.)

Turner, Frank T., Brooklyn, assignor to King Features Syndicate, Inc., New York, N. Y. Electromechanical vibrator system. 2,349,125; May 16.

Uncles, Robert F., Stamford, and K. K. Kurtz, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of monoalkylol cyanamide condensation products. 2,349,061; May 16.

Ungar, Gustave A., New Rochelle, and J. F. Keller, assignors to Equi-Flow Inc., New York, N. Y. Laminated gear pump. 2,349,022; May 16.

Union Carbide and Carbon Corporation. (See Anthes, Clifford C., assignor.)

Union Carbide and Carbon Corporation. (See Oldham, Samuel R., assignor.)

Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)

Unit Rays, Inc. (See Hebeler, Edward S., assignor.)

United Shoe Machinery Corporation. (See Baker, Corwin W., assignor.)

United Shoe Machinery Corporation. (See Senfleben, Paul W., assignor.)

United Staes Rubber Company. (See Paul, Philip T., assignor.)

United States Rubber Company. (See Sterrett, Robert R., assignor.)

Universal Oil Products Company. (See Moriarty, Francis C., assignor.)

Uren, Lester C., Berkeley, Calif., assignor to The Texas Company, New York, N. Y. Method and apparatus for graveling wells. 2,349,062; May 16.

Urschel, Joe R. (See Urschel, W. E. and J. R.)

Urschel, William E. and J. R., Valparaiso, Ind. Dicing machine. 2,349,212; May 16.

Van Der Hyde, Vincent A., Eau Claire, Wis. Emergency auto stretcher cot. 2,349,023; May 16.

Van Fossen, Ralph A. (See Phillips, W. D., and Van Fossen.)

Van Niekerk, Russell J., Florida, Transvaal, Union of South Africa. Centrifugal molding of concrete products. 2,349,213; May 16.

Velsicol Corporation. (See Hyman, Julius, assignor.)

Vieth, Leonard, Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin operated device. 2,349,214; May 16.

Voegell, Walter, Rio de Janeiro, Brazil. Stepless change speed transmission. 2,349,940; May 16.

Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Applying circulars and their equivalent to articles. 2,349,063; May 16.

Voorhees, Vanderveer. (See Layng, E. T., and Voorhees.)

Vulliet-Durand, Gaston H., Paris, France; vested in the Alien Property Custodian. Manufacturing flexible cellulosic products. 2,348,868; May 16.

Waddell, Gasper L., Goose Creek, Tex. Stuffing box seal. 2,349,024; May 16.

Wagner, Carl J., Detroit, Mich. Vehicle landing gear. 2,348,869; May 16.

Wagner Electric Corporation. (See Freeman, Walter R., assignor.)

Wagner, Frederic W., and R. Wilson, assignors to Zenith Radio Corporation, Chicago, Ill. Automatic record playing and changing apparatus. 2,348,766; May 16.

Wahlborg, Karl J., Stockholm, Sweden, assignor to Electrolux Corporation, New York, N. Y. Vacuum cleaner. 2,349,215; May 16.

Wakefield, James M. (See Finch, W. G. H., and Wakefield.)

Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)

Walker, Raymond, St. Louis, and J. J. Wolfersperger, Webster Groves, Mo. Gas fired apparatus. 2,348,767; May 16.

Walper, Curry O., Kitchener, Ontario, Canada. Footwear. 2,349,216; May 16.

Ware, Marsden, Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Vibration damping device. 2,348,941; May 16.

Warner, Donald F., Swampscott, Mass., assignor to General Electric Company. Control mechanism. 2,348,768; May 16.

Warp, Harold, Chicago, Ill. Match strip cigarette package wrapper. 2,349,217; May 16.

Watson, John W., Wayne, assignor to John Warren Watson Company, Philadelphia, Pa. Leaf spring with friction element. 2,348,942; May 16.

Watson, John Warren, Company. (See Watson, John W., assignor.)

Waugh, John, et al., executors. (See Lamont, James H.)

Waugh, Paul E., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispensing means. 2,348,769; May 16.

Weaver, Elverton W., Cleveland Heights, assignor to Towmotor Co., Cleveland, Ohio. Transmission mechanism. 2,349,064; May 16.

Welinsky, Irving H., Media, Pa., and M. H. Gorin, Dallas, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Recovery of aluminum bromide catalyst. 2,348,770; May 16.

Well Surveys, Incorporated. (See Scherbatskoy, S. A., Swift, Fearon, and Neufeld, assignors.)

Well Surveys, Incorporated. (See Wolff, Paul A., assignor.)

Welsh, James W., Providence, R. I., assignor to Welsh Manufacturing Company. Headband for welders' helmets. 2,349,218; May 16.

Welsh Manufacturing Company. (See Welsh, James W., assignor.)

Wesco Waterpaints Incorporated. (See Deck, Arthur D., assignor.)

Wescott, William B., Dover, Mass., assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Planographic printing plate. 2,348,771; May 16.

Wescott, William B., Dover, Mass., assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Planographic printing plate. 2,348,943; May 16.

West Bend Aluminum Company. (See Kircher, Ralph N., assignor.)

Western Cartridge Company. (See Williams, D. M., and Roemer, assignors.)

Western Electric Company. (See Dewees, Leonard S., assignor.)

Western Electric Company. (See Earl, John A., assignor.)

Western Electric Company. (See Franz, Erwin E., assignor.)

Western Electric Company. (See Scrantom, DeHart G., assignor.)

Western Electric Company. (See Selvig, John N., assignor.)

Westinghouse Electric & Manufacturing Company. (See Buchanan, Leslie B. M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Buhler, Carl, assignor.)

Westinghouse Electric & Manufacturing Company. (See Meyer, Charles A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Miller, Ernest F., assignor.)

Wheeler Insulated Wire Company, The. (See Horn, George B., assignor.)

White, Ezra L., Barre, Vt. Ornamentation. 2,349,065; May 16.

White, Jesse A., Peoria, Ill., assignor to Muirson Label Co., Inc., San Jose, Calif. Making registered duplicate-image multiple color printing plates. 2,348,944; May 16.

Whitehead & Hoag Company, The. (See Draper, Harold W., assignor.)

Wick, Mary I., University City, Mo. Shopper's bag. 2,349,025; May 16.

Wickwire, Arthur M., Jr., Mountain Lakes, N. J., assignor, by mesne assignments, to The Fred Goat Co., Inc., New York, N. Y. Rotary intaglio printing press. 2,348,870; May 16.

Wilcolator Company, The. (See Parkhurst, M. K., and Burch, assignors.)

Wildman, Loyd A., Charleston, W. Va. Photographic developing and washing apparatus. 2,349,026; May 16.

Wildman, Loyd A., Charleston, W. Va. Photographic developing apparatus. 2,349,027; May 16.

Wildman, Loyd A., Charleston, W. Va. Photographic washing apparatus. 2,349,028; May 16.

Wiley, Lee M., assignor of one-third to J. T. Lett and one-third to R. B. Wiley, Marion, Ind. Sheet pulp container forming apparatus. 2,348,871; May 16.

Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Fabricating vinylidene chloride polymers. 2,348,772; May 16.

Wiley, Reeley B., et al. (See Wiley, Lee M., assignor.)

Wilhelm, Edward A., St. Paul, Minn. Priming system for centrifugal pumps. 2,349,029; May 16.

Wilhelm, Loomis G. (See Trickey, W. W., and Wilhelm.)

Williams, David M., and W. C. Roemer, assignors to Western Cartridge Company, New Haven, Conn. Gas-operated automatic firearm. 2,348,872; May 16.

Williams, Joseph R., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Protected internal bearing for concrete mixers. 2,348,945; May 16.

Williamson, Larkin R. (See Smith, L. H., and Williamson.)

Wilson, Margaret, Raleigh, N. C. Protecting tubers against decay. 2,348,946; May 16.

Wilson, Ray. (See Wagner, F. W., and Wilson.)

Wingfoot Corporation. (See Ferner, George W., assignor.)

Wingquist, Sven G., Remningstorp, Skara, Sweden. Universal joint. 2,349,030; May 16.

Wisconsin Alumni Research Foundation. (See Allen, T. C., and Dicke, assignors.)

Witter, Lawrie L., Auburndale, Mass. Educational device. 2,349,066; May 16.

Wolfersperger, John J. (See Walker, R., and Wolfersperger.)

Wolff, Paul A., Hoboken, N. J., assignor to Well Surveys, Incorporated, Tulsa, Okla. Weighing device. 2,349,228; May 16.

Wood, Howard S., Lansdale, Pa. Molding machine. 2,349,219; May 16.

Wood, John, Manufacturing Company. (See Dougherty, Robert J., assignor.)

Woodling, George V., et al., co-trustees. (See Jackman, Elmer F., assignor.)

Wright, Joseph, and H. Trevaskis, Hampton Lane, Solihull, assignors to Dunlop Rubber Company, Limited, London County, England. Protective device for landing wheels of aircraft. 2,349,67; May 16.

Wuppermann, Theodor, Leverkusen-Schlebusch, near Cologne-on-the-Rhine, and F. Koenig, Cologne-Mulheim, Germany; vested in the Alien Property Custodian. Adjustable bearing. 2,348,873; May 16.

Wyman, Edwin T., Brookline, Mass. Protective sheath for surgical and medical use. 2,348,773; May 16.

Yale & Towne Manufacturing Company, The. (See Lock, Frank, assignor.)

Youngstown Sheet and Tube Company, The. (See Defiore, Leopold, assignor.)

Zarowin, Albert A., assignor to S. & Z. Hooks Co., Inc., Brooklyn, N. Y. Key holder. 2,348,947; May 16.

Zenith Radio Corporation. (See Wagner, F. W., and Wilson, assignors.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Building unit. R. L. Kaye. Re. 22,481; May 16.
Printing machine. E. Racz. Re. 22,480; May 16.
Space heater. G. M. Schueder and E. F. Farrell. Re. 22,482; May 16.
Stopper, Blast furnace cinder notch. H. F. Dobscha. Re. 22,479; May 16.

LIST OF DESIGN INVENTIONS

Airplane. O. F. Maycen. 137,938; May 16.
Animal figure. V. M. Rundle. 137,906; May 16.
Apron. Joseph and Jack Nachman. 137,926–7; May 16.
Cabinet, Corner display. J. Veltheer and T. C. Glenn. 137,897; May 16.
Chain guard, Bicycle. L. Blazey. 137,911; May 16.
Chair. W. G. Dieter. 137,904; May 16.
Clothespin. W. J. Martin. 137,894; May 16.
Cutter and ejector for biscuits, cookies, or the like, Combined. F. A. Johnson. 137,914; May 16.
Cutter, Metal. C. L. Beard. 137,923; May 16.
Doll or similar article. L. C. Asch. 137,903; May 16.
Dress. P. Adler. 137,934–6; May 16.
Dress. T. Tilton. 137,931; May 16.
Fabric or similar article, Liturgical. A. Baumgartner. 137,919–22; May 16.
Fabric, Textile. A. M. Kemper. 137,932; May 16.
Frame for mirrors, pictures, and the like. D. M. Blanchette. 137,910; May 16.
Game board, Dart. J. S. Tremper. 137,907; May 16.
Hammer, Tack. C. W. Kegg. 137,915; May 16.
Handle for a lawn mower. E. L. Schofield. 137,929; May 16.
Head for a lawn mower. E. L. Schofield. 137,930; May 16.
Holder, Cigarette. E. F. Needham. 137,933; May 16.
Holder, Soap. T. Benoto. 137,908; May 16.
Jacket. H. C. Cookman. 137,912; May 16.
Knife. R. Mrazek. 137,916; May 16.
Mounting corner. A. W. Engel. 137,937; May 16.
Mower, Lawn. E. L. Schofield. 137,928; May 16.
Pants, Woman's. J. Brodigan. 137,924; May 16.
Pin, Insignia. C. A. Osborn. 137,917; May 16.
Plate for boots and shoes, Heel. W. E. Strobel. 137,895; May 16.
Shoe tree. L. W. Reinhardt, 137,918; May 16.
Spoon or other article of flatware. K. L. Gustafson. 137,913; May 16.
Staple remover. F. Polzer. 137,940; May 16.
Staple remover and letter opener, Combination. F. Polzer. 137,939; May 16.
Template. G. E. Kardux. 137,905; May 16.
Trimming, Embroidered. M. Jarlien. 137,925; May 16.
Trimming or the like, Embroidered. J. Weiner. 137,896; May 16.
Trimming or the like, Embroidered. J. Weiner. 137,898–902; May 16.
Wrench, Turnbuckle. I. H. Blanchard. 137,909; May 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetylene, Manufacture of. J. D. Ruys and L. Goldstein. 2,349,007; May 16.
Acid, Preparation of pectic. E. F. Bryant. 2,349,138; May 16.
Acids contained in tall oil, Separation of. F. H. Gayer and C. E. Fawkes. 2,348,970; May 16.
Adjustable bearing. T. Wuppermann and F. Koenig. 2,348,873; May 16.
Adjustable bed frame. C. V. Johnson. 2,349,172; May 16.
Adjustable bearing mounting. H. J. Findley. 2,349,084; May 16.
Adjustable broiler grid holding rack. S. N. Bobo. 2,348,720; May 16.
Aerating apparatus. H. L. McNeill. 2,348,990; May 16.
Alicyclic compounds, Manufacture of. L. M. Joshel. 2,349,173; May 16.
Alicyclic compounds, Manufacture of. L. M. Joshel. 2,349,232; May 16.
Alicyclic esters of alpha-hydroxyisobutyric acids. C. R. Caryl, J. T. Thurston, and D. W. Kaiser. 2,348,710; May 16.
Alkylation process. A. J. Tulleners. 2,349,211; May 16.
Amines, Manufacture of. R. H. Goshorn. 2,349,222; May 16.
Animal trap. C. W. Crumrine. 2,348,729; May 16.
Animation, Simplifying. W. B. Justice. 2,348,983; May 16.
Antena, Coaxial cable loop. W. G. H. Finch and J. M Wakefield. 2,349,154; May 16.
Anti-oxidant. P. T. Paul. 2,348,842; May 16.
Apparatus for and method of making circular locking bands for caps or closures. L. R. N. Carvalho. 2,348,957; May 16.
Apparatus for assembling structures. J. S. Ott. 2,348,920; May 16.
Apparatus for attaching envelopes and the like to packages. B. B. Lowry. 2,348,989; May 16.
Apparatus for coating pipe. L. Defiore. 2,348,714; May 16.
Apparatus for compacting powdered and solid materials. A. D. Deck. 2,349,080; May 16.
Apparatus for damping movements of vehicle and other wheels. R. Hadekel and A. A. Perriches. 2,348,974; May 16.
Apparatus for determining stresses in pipe arrangements. D. B. Rossheim. 2,348,926; May 16.
Apparatus for extracting fibers from fibrous husks. H. G. Henares. 2,348,813; May 16.
Apparatus for filling capsules. V. B. Norelli. 2,348,749; May 16.
Apparatus of icing bakery goods. W. H. Fredrickson. 2,348,800; May 16.
Apparatus for the preparation of catalysts. S. B. Thomas. 2,349,230; May 16.
Apparatus for treating pile fabrics. A. T. Herron. 2,349,169; May 16.
Arc welding. J. D. Crecca. 2,348,728; May 16.
Armature for dynamoelectric machines. E. C. Allen. 2,348,948; May 16.
Asbestos-cement shingles or the like, Manufacturing. W. Gerity. 2,348,804; May 16.
Ash collector, Fly. E. W. Bullock. 2,348,785; May 16.
Astronomical instrument. J. A. Millar. 2,349,188; May 16.
Auto safety belt. D. O'Keeffe. 2,349,109; May 16.
Automatic stop for phonograph mechanisms. H. A. Roe. 2,348,924; May 16.
Automobile safety system. F. P. De Wilde. 2,348,963; May 16.
Axiometer and bifocal lens segment locater, Combined. G. J. Sheehy. 2,348,858; May 16.
Azo-dyestuffs and their manufacture, Alcohol-soluble. A. Conzetti and E. Lehmann. 2,348,788; May 16.
Badge, Identification. H. W. Draper. 2,349,032; May 16.
Bag: *See*—
Shopper's bag. Shopping bag.
Bag. W. D. Stohlman and T. H. Ashton. 2,349,206; May 16.
Bait retainer for animal traps. L. E. Johnson. 2,348,981; May 16.
Baling press. I. Z. Martin. 2,349,184; May 16.
Bath for the production of colored photographic pictures, Process and treating. B. Gaspar. 2,348,894; May 16.
Bearing: *See*—
Adjustable bearing. Shuttle case bearing.
Bearing construction. P. M. Sampatacos. 2,348,928; May 16.
Bearing for concrete mixers, Protected internal. J. R. Williams. 2,348,945; May 16.
Binder feeding attachments for mixing machines. E. G. Berg and M. Overstrud. 2,348,880; May 16.
Bituminous substances, Treating. K. Mauch and O. Pauer. 2,348,832; May 16.
Black-out port ventilator. D. E. Dodgson. 2,348,886; May 16.
Block for boring bars, Blade holding. C. E. Murray. 2,349,189; May 16.
Block for watt-hour meters, Terminal. J. H. Reynolds and S. S. Green. 2,348,755; May 16.
Blowpipe. C. C. Anthes. 2,348,774; May 16.
Blowpipe. S. R. Oldham. 2,348,839; May 16.
Board finish apparatus. F. A. Irvine. 2,348,817; May 16.
Bobbin winding machine. P. W. Senfleben. 2,348,857; May 16.
Boiler feed water control mechanism. H. C. Earle, Jr. 2,348,890; May 16.
Boring head. N. R. Elliott. 2,349,033; May 16.
Bowl, Serving. R. N. Kircher. 2,349,099; May 16.
Box: *See*——
Railway journal box.
Box and table, Paperhanger's folding. F. E. Edgren. 2,349,148; May 16.
Box handle construction. J. W. McIlwraith and E. L. Miller. 2,348,828; May 16.
Brake: *See*—
Internally expanding brake.
Brake. P. M. Freer. 2,348,893; May 16.
Brake system, Tractor-trailer. R. R. Gunderson. 2,349,167; May 16.
Brazing apparatus. L. S. Dewees. 2,348,884; May 16.
Breech mechanism for automatic firearms. P. de Király and J. Kucher. 2,348,790; May 16.
Brush, Articulated paint. W. K. Gray. 2,348,972; May 16.
Burner: *See*—
Convertible coal and oil burner. Liquid fuel burner.
Horizontal hydroxylating burner. Oil burner.
Butter cutting device. T. D. Crowley and B. C. Potter. 2,349,078; May 16.
Cabinet: *See*—
Refrigerator cabinet.
Cable: *See*—
Electric cable.
Cable clamp. E. F. Hohwart. 2,348,975; May 16.
Can punching device. J. M. Akers. 2,349,128; May 16.
Candle follower. F. Bormann. 2,349,072; May 16.
Car axle lubricator. W. H. Korn. 2,348,911; May 16.
Carbonator. C. V. Di Pietro. 2,348,791; May 16.
Car construction. E. H. Lehman. 2,348,913; May 16.
Carrier: *See*—
Cartridge carrier. Tire carrier.
Carrying scraper. H. D. Kadz. 2,348,910; May 16.
Carton. R. Guyer. 2,349,088; May 16.
Carton. E. A. Throckmorton. 2,349,020; May 16.
Cartridge carrier. M. E. Murtaugh. 2,349,107; May 16.
Cartridge, Explosive. R. Temple. 2,348,866; May 16.
Case: *See*—
Refrigerated case.
Cast iron and its manufacture. L. Reygagne. 2,348,849; May 16.
Catalysts, Improving. D. G. Blaker and M. P. Matuszak. 2,348,780; May 16.
Catalytic conversion of hydrocarbons. R. E. Nagle. 2,348,836; May 16.
Cathode ray tube. K. Schlesinger. 2,348,853; May 16.
Ceiling system. G. L. Fowles and C. J. Nocar. 2,349,158; May 16.
Cellulosic products, Manufacturing flexible. G. H. Vulliet-Durand. 2,348,868; May 16.
Cemented hard metals, in particular for tool elements, Manufacture of. J. O. Ollier. 2,349,052; May 16.
Center locating device. G. L. Behen. 2,348,878; May 16.
Centrifugal molding of concrete products. R. J. van Niekerk. 2,349,213; May 16.
Chain: *See*—
Mold for casting chain.
Change speed transmission. G. T. Randol. 2,348,753; May 16.
Charge fuming device. F. H. Sharar. 2,349,116; May 16.
Chuck, Expansible. A. W. N. Johnson. 2,348,819; May 16.
Cigarette package wrapper, Match strip. H. Warp. 2,349,217; May 16.

Circuit: *See*—
Gaseous discharge lamp circuit.
Circuit breaker. R. H. Gibson and W. D. Crocker. 2,348,896; May 16.
Circuit breaker. M. K. Parkhurst and L. W. Burch. 2,348,996; May 16.
Circular saw device. R. H. Benton. 2,349,133; May 16.
Circulars and their equivalent to articles, Applying. G. W. von Hofe. 2,349,063; May 16.
Clamp: *See*—
Cable clamp. Work clamp.
Clamping means. F. M. Cowper. 2,348,961; May 16.
Cleaner: *See*—
Curb box cleaner. Suction cleaner.
Oil cleaner. Vacuum cleaner.
Cleaning and disinfecting composition. G. Endres. 2,348,795; May 16.
Clutch: *See*—
Quiet-ratcheting jaw clutch.
Clutch. D. A. Baird. 2,349,132; May 16.
Clutch control mechanism. C. M. Eason. 2,348,891; May 16.
Coat, Convertible. J. V. Falcon. 2,349,035; May 16.
Coat hanger. W. A. Ringler. 2,349,200; May 16.
Coating of objects of magnesium or the like with oxides. E. Krause and E. Schröder. 2,348,826; May 16.
Cocoa and chocolate products, Preparing. J. E. Nyrop. 2,348,837; May 16.
Coil winding device. J. A. Earl. 2,348,889; May 16.
Coin operated device. L. Vieth. 2,349,214; May 16.
Coin sorting and counting machine. W. H. Sprenger. 2,348,936; May 16.
Combustion lamp. M. L. T. de Cazenave. 2,349,079; May 16.
Comminuting machine. E. G. Magnus. 2,348,916; May 16.
Composition containing resinous type products. R. R. Grant. 2,349,165; May 16.
Condensate removal. M. C. Terry and P. Komroff. 2,349,059; May 16.
Conductor and track wire connection holding means. O. S. Flath. 2,348,968; May 16.
Container. C. F. Peck. 2,348,750; May 16.
Control device. W. A. Gigger. 2,348,805; May 16.
Control device. M. K. Parkhurst and L. W. Burch 2,348,995; May 16.
Control device. D. G. Taylor. 2,349,209; May 16.
Control for seismic recording, Sensitivity. E. Merten. 2,349,186; May 16.
Control mechanism. G. D. Bower. 2,348,951; May 16.
Control mechanism. D. F. Warner. 2,348,768; May 16.
Control system for record playing or like devices. B. W. Briggs. 2,348,953; May 16.
Convertible coal and oil burner. C. Siebring. 2,349,117; May 16.
Corrosion protective composition. E. J. Jahn. 2,349,044; May 16.
Cot, Emergency, auto stretcher. V. A. Van Der Hyde. 2,349,023; May 16.
Coupling: *See*—
Pipe coupling. Tube coupling.
Cover: *See*—
Furniture slip cover. Storage battery cover.
Cracking process, Combination. R. F. Trow. 2,348,867; May 16.
Crankshaft grinder. W. H. Myers. 2,349,108; May 16.
Crown cap selecting machine. L. A. Fischer. 2,348,797; May 16.
Curb box cleaner. G. A. Cole. 2,349,076; May 16.
Cutter: *See*—
Gear cutter. Rivet cutter.
Metal cutter.
Damming attachment for listers and lister seeders. C. T. Peacock. 2,348,997; May 16.
Data tab. F. D. Jonas. 2,348,909; May 16.
Degreaser with two sumps. W. D. Phillips and R. A. Van Fossen. 2,349,000; May 16.
Degreasing apparatus. W. D. Phillips and R. A. Van Fossen. 2,349,001; May 16.
Dehydro-aromatization. E. T. Layng and V. Voorhees. 2,349,045; May 16.
Determining permeability. J. A. Lewis. 2,348,985; May 16.
Device for moving aircraft. Le R. S. Jessen. 2,348,741; May 16.
Dialing system. W. P. Albert. 2,349,129; May 16.
Diaphragm and forming same. H. Y. Jennings and J. A. Gillen. 2,348,740; May 16.
Diazonium derivative of phthalocyanine compounds, Stabilized. N. H. Haddock. 2,349,089; May 16.
Dichroic image, Self-analyzing. E. H. Land. 2,348,912; May 16.
Dicing machine. W. E. and J. R. Urschel. 2,349,212; May 16.
Die assembly. L. G. Freeman, Jr., and C. S. Knight. 2,348,799; May 16.
Dispenser: *See*—
Soap chip dispenser.
Dispensing and vending machine. M. S. Runsvold and H. G. Sloane. 2,348,927; May 16.
Door: *See*—
Shower door.
Door latch mechanism. L. B. M. Buchanan. 2,348,955; May 16.
Door lock. J. Hillgren. 2,348,737; May 16.
Double cord fastener furnaces. T. Russell. 2,349,114; May 16.
Draft control means for furnaces. C. G. Anderson. 2,348,950; May 16.
Drain fitting. J. Slezak. 2,349,202; May 16.
Draw press. V. H. Pavlecka. 2,348,921; May 16.
Drier. R. Hyland. 2,349,043; May 16.
Drill: *See*—
Oil hole drill.
Drifting valve. J. H. and J. W. Hanlon. 2,348,809; May 16.
Drilling attachment, Offset. H. R. Fischer. 2,349,156; May 16.
Easel. Photographic enlarging. F. H. Peterson. 2,348,999; May 16.
Educational device. L. L. Witter. 2,349,066; May 16.
Electric appliance. D. M. Dow and F. H. Burmeister. 2,348,966; May 16.
Electric cable. J. C. Quayle. 2,348,752; May 16.
Electric circuit breaker. J. A. Henley. 2,349,095; May 16.
Electric lamp. A. Kratky. 2,348,825; May 16.
Electric propulsion mechanism. R. P. Guilar. 2,348,808; May 16.
Electrolytic process for coating aluminum and aluminum alloys. M. Farr, Jr. 2,349,083; May 16.
Electrolytic water correction device. E. M. Butler. 2,348,882; May 16.
Electromechanical vibrator system. F. T. Turner. 2,349,125; May 16.
Electron tube. R. Scharfnagel. 2,348,852; May 16.
Electronic discharge lamp devices, Producing high frequency oscillations in illuminating. C. Spaeth. 2,349,012; May 16.
Elevated tank. J. O. Jackson. 2,349,096; May 16.
Elevating gate. F. A. Novotney. 2,348,993; May 16.
Engine: *See*—
Internal-combustion engine.
Engine construction. J. J. Gierthy. 2,349,231; May 16.
Engine starting gearing. J. B. Dickson. 2,349,146; May 16.
Envelope clasp. E. F. Ahlquist. 2,349,127; May 16.
Envelope folding and gluing machine. K. Serai. 2,349,056; May 16.
Escape boat for submarines. J. J. Bessire. 2,348,777; May 16.
Ethyl cellulose molding composition. R. R. Bradshaw. 2,349,134; May 16.
Ethylenesulphonyl polymer. V. V. Alderman and W. E. Hanford. 2,348,705; May 16.
Evaporating liquids and apparatus for carrying out the same. A. Placek. 2,349,002; May 16.
Expanding anchor. E. K. Cole. 2,349,075; May 16.
Expansion joint construction. E. F. Miller. 2,348,833; May 16.
Fabric: *See*—
Laminating fabric.
Fastener: *See*—
Double cord fastener.
Felting needle. E. P. Foster. 2,349,086; May 16.
Fifth wheel. H. Ketel. 2,348,977; May 16.
File, Book. H. C. Lindros. 2,348,914; May 16.
Filler for quilts and the like. J. Goodstein. 2,348,807; May 16.
Filter: *See*—
Liquid filter. Precoat filter.
Filter blank. J. M. Sanford. 2,349,115; May 16.
Filtration. W. Kiersted, Jr. 2,348,822; May 16.
Final drive casing brace. J. T. Liggett. 2,349,100; May 16.
Fixture support. F. H. Renner. 2,349,003; May 16.
Flameproof electric motor. P. A. H. Mossay. 2,349,105; May 16.
Flange forming die assembly. L. R. Pease. 2,348,998; May 16.
Flask, Molding. W. J. Olson. 2,348,840; May 16.
Flat disc valve. K. L. Finley, D. D. Smith and W. M. Spreng. 2,349,155; May 16.
Flexible bags, Making. A. Rambold. 2,349,111; May 16.
Flocked sheet material, Producing. J. Ferrante. 2,349,153; May 16.
Flooring. M. H. Carpenter. 2,348,724; May 16.
Fluorescent lighting fixture. L. Schepmoes. 2,348,930; May 16.
Flowing fluids, Indicating the specific gravity of. K. Fischer. 2,348,733; May 16.
Flowing fluids, Indicating the viscosity of. K. K. Fischer. 2,348,732; May 16.
Flush fabric attachment. C. F. Marschner and C. D. Johnson. 2,349,103; May 16.
Flush tank. C. F. Stalcup. 2,349,015; May 16.
Footwear. C. O. Walper. 2,349,216; May 16.
Form. C. D. and O. S. F. Smith. 2,348,935; May 16.
4-pyridine sulphonamides and related compounds, Preparation of. A. E. Tiesler. 2,349,060; May 16.

Frame: *See*—
Adjustable bed frame.
Frequency control for ultra high frequency devices. R. M. Smith. 2,349,011; May 16.
Frequency multiplier. H. F. Storm. 2,349,057; May 16.
Froth flotation. T. Heilmann. 2,349,094; May 16.
Fuel, Manufacture of motor. F. Horton, L. C. Kemp, R. E. Nagle and L. P. Scoville. 2,348,815; May 16.
Function cam. W. Simpson. 2,349,118; May 16.
Furniture slip cover. S. Pass. 2,349,193; May 16.
Game apparatus. C. E. Grant. 2,349,040; May 16.
Garment. B. Terrell. 2,349,019; May 16.
Garnierite ores, Treatment of. N. Hedley and J. J. Kress 2,349,223; May 16.
Gas fired apparatus. R. Walker and J. J. Wolfersperger. 2,348,767; May 16.
Gas-operated automatic firearm. D. M. Williams and W. C. Roemer. 2,348,872; May 16.
Gas turbine. W. I. Nichols. 2,348,748; May 16.
Gaseous discharge lamp circuit. G. B. Horn. 2,348,739; May 16.
Gases and vapors, adsorbing. S. Kiesskalt, E. Kruta, H. Quednau and F. Patat. 2,349,098; May 16.
Gate: *See*—
Elevating gate.
Gauze, Impregnating. W. H. Feinstone. 2,349,152; May 16.
Gear: *See*—
Vehicle landing gear.
Gear cutter. J. Sneed. 2,348,759; May 16.
Gear shaving hob. H. Pelphrey. 2,348,844; May 16.
Gear testing machine. C. G. Dahlerup. 2,348,712; May 16.
Gearing for aircraft propellers, Change-speed. O. H. Banker. 2,348,716; May 16.
Girdle and hernia truss, Combination. J. Rosenzweig. 2,349,113; May 16.
Glass articles, Manufacturing. A. G. C. Kirchheim. 2,348,823; May 16.
Glass bodies, Method of and apparatus for forming and finishing hollow. P. R. Luertzing. 2,349,046; May 16.
Glass, Method of and apparatus for shaping. J. J. Hopfield. 2,348,905; May 16.
Glass sheets, Bending. J. L. Drake. 2,348,887; May 16.
Glass surfaces, Treatment of. F. W. Adams. 2,348,704; May 16.
Glue applying device in gluing machines. G. Maurer. 2,348,991; May 16.
Governor. R. C. Darnell. 2,349,145; May 16.
Ground stake. G. Potstada. 2,349,110; May 16.
Gun fire control. R. N. Lesnick. 2,349,101; May 16.
Gun operation signal mechanism. R. N. Lesnick. 2,349,182; May 16.
Gyroscopic centralizing and caging device. O. E. Esval and J. Freitag. 2,348,731; May 16.
Handle: *See*—
Outside door handle.
Handle retaining fixture. R. R. Hart. 2,348,902; May 16.
Hanger: *See*—
Coat hanger.
Hanger for trolley wires, Span. S. S. Matthes. 2,348,918; May 16.
Hardness of materials, Testing. P. and M. Bollée. 2,348,782; May 16.
Harmonica. F. H. Magnus. 2,348,830; May 16.
Headband for welders' helmets. J. W. Welsh. 2,349,218; May 16.
Headlight regulator. A. E. Holmes. 2,349,022; May 16.
Heat exchanger. S. J. Chute and H. F. Buschow. 2,349,143; May 16.
Heat insulation material, Manufacture of. H. W. Greider and R. A. MacArthur. 2,348,898; May 16.
Heat insulation structure, Manufacture of. R. A. MacArthur and H. W. Greider. 2,348,829; May 16.
Heater: *See*—
Water heater.
Heating apparatus. M. L. Mueller. 2,348,834; May 16.
Heating apparatus. M. L. Mueller. 2,348,835; May 16.
Hoist. F. Lock. 2,348,987; May 16.
Holder: *See*—
Key holder. Nursing bottle holder.
Hook: *See*—
Safety crane hook.
Horizontal hydroxylating burner. J. L. Breese and B. Hayter. 2,348,721; May 16.
Horse, Mechanical exercising. C. Newman. 2,348,747; May 16.
Hub, Wheel. C. L. Eksergian. 2,349,220; May 16.
Hydraulic continuous press for concrete and the like. A. Falasconi. 2,349,150; May 16.
Hydraulic level control for mixing machines. E. G. Berg and M. Ovestrud. 2,348,879; May 16.
Hydraulic pressure control valve unit. B. N. Ashton. 2,349,069; May 16.
Hydraulic pump. H. F. Frimel. 2,349,161; May 16.
Hydrocarbon conversion process. F. E. Frey. 2,348,802; May 16.
Hydrocarbons, Catalytic conversion of. Du B. Eastman and C. Richker. 2,348,794; May 16.
Hydrocarbons, Conversion of. E. F. Pevere. 2,349,053; May 16.
Hydrocarbons, Converting. F. E. Frey, R. D. Snow and W. F. Huppke. 2,349,160; May 16.
Hydrocarbons, Treatment of. F. C. Moriarty. 2,348,745; May 16.
Hydrocarbon, Treatment of. W. A. Schulze. 2,348,931; May 16.
Hydrochloride film, Elasticized rubber. G. W. Ferner. 2,349,036; May 16.
Ice tray. C. R. Carney. 2,348,956; May 16.
Images, Projection of. J. S. Jacobson. 2,348,818; May 16.
Indexing chuck. G. M. Soule. 2,349,119; May 16.
Indicator: *See*—
Typing rhythm indicator.
Ink eradicator applicator. D. L. Roe. 2,349,005; May 16.
Inlet for syphons. L. H. Smith and L. R. Williamson. 2,349,010; May 16.
Insecticide. J. Hyman. 2,348,976; May 16.
Insecticide and making same. T. C. Allen and R. J. Dicke. 2,348,949; May 16.
Intermitter for pumping wells, Bottom hole. W. E. Gilbert. 2,349,164; May 16.
Internal-combustion engine. H. Ford and C. E. Sorensen. 2,349,157; May 16.
Internal-combustion engine. L. R. Spencer. 2,349,203; May 16.
Internally expanding brake. F. R. Cowell. 2,348,960; May 16.
Ironing machine. H. A. Sperlich. 2,349,014; May 16.
Jack: *See*—
Self-conforming tractor jack.
Jig, Drill. H. N. Christenson. 2,349,142; May 16.
Jig or fixture for electroplating. A. E. Lundbye. 2,348,915; May 16.
Joint: *See*—
Rotary seal joint. Universal joint.
Journal box closure means. E. S. Pearce. 2,348,843; May 16.
Key holder. A. A. Zarowin. 2,348,947; May 16.
Knitting machines. De H. G. Scrantom. 2,348,932; May 16.
Lactose milk for storage and recovery of lactose therefrom, Preparing condensed low. K. C. Thorneloe. 2,349,227; May 16.
Ladder, Chain. H. P. Hopp and E. Kunzelman. 2,348,906; May 16.
Laminated gear pump. G. A. Ungar and J. F. Keller. 2,349,022; May 16.
Laminating fabric. J. E. Bludworth. 2,348,781; May 16.
Lamp: *See*—
Combustion lamp. Electric lamp.
Latex composition. R. R. Sterrett. 2,348,865; May 16.
Leaf spring with friction element. J. W. Watson. 2,348,942; May 16.
Life craft. A. G. Sherman. 2,348,859; May 16.
Lift attachment for beds, Patient's. M. Black. 2,348,778–9; May 16.
Lighting fixture construction. M. H. Levenberg. 2,349,102; May 16.
Link, Conveyer chain. J. A. Sudduth and D. B. Lay. 2,349,208; May 16.
Liquid dispensing device. D. Samiran. 2,348,757; May 16.
Liquid dispensing means. P. E. Waugh. 2,348,769; May 16.
Liquid filter. E. Reichhelm. 2,348,925; May 16.
Liquid fuel burner. H. H. Gorrie. 2,349,221; May 16.
Liquid level, Method and apparatus for determining. D. G. C. Hare. 2,348,810; May 16.
Liquid spraying apparatus. E. Rotheim. 2,348,851; May 16.
Listing machines. L. P. Crosman. 2,348,789; May 16.
Loader. U. O. Guignard and W. E. Schober. 2,348,899; May 16.
Lock: *See*—
Door lock.
Lock for airplane doors or the like. S. Oxhandler. 2,349,192; May 16.
Lock system for revolving doors, Electrically controlled. T. M. Hagenbook. 2,348,900; May 16.
Lubricant and preparing the same. R. A. Swenson. 2,349,058; May 16.
Lubricating composition. E. A. Nill. 2,349,224; May 16.
Lubricator: *See*—
Car axle lubricator.
Machine for applying and drying adhesive on paper goods. E. G. Staude. 2,348,864; May 16.
Machine for crocheting sheathings about cores. P. F. Nardulli. 2,348,746; May 16.
Machine for extruding and blowing plastics. W. H. Kopitke. 2,349,176; May 16.
Machine for forming gears. H. Pelphrey. 2,348,845; May 16.
Machine for making closure caps. J. C. Gibbs. 2,349,037; May 16.
Machine for making wood wool. A. Elmendorf. 2,349,034; May 16.
Machine for manufacturing lids for multiple boxes. G. E. Stilwell and G. C. Paxton. 2,349,205; May 16.
Machine tool. P. S. Jackson. 2,349,171; May 16.
Magnesia, Dead burned. R. D. Pike. 2,348,847; May 16.
Magnesium control in manganese electro-winning. C. L. Mantell and W. L. Hammerquist. 2,348,742; May 16.
Magnesium scrap, Recovery of finely-divided. W. C. Newbams. 2,349,190; May 16.

Magnet, Permanent lifting. C. J. Duby. 2,348,967; May 16.
Magnetron, Resonant cavity. E. G. Linder. 2,348,986; May 16.
Marine vessel. J. Brunt. 2,348,783; May 16.
Match package. N. Hammer. 2,349,093; May 16.
Material moving device. R. and K. Ferwerda. 2,348,796; May 16.
Mechanism for coloring address plates. J. H. Gibbs. 2,349,163; May 16.
Mercaptothiazolines, Manufacture of. R. A. Mathes. 2,348,917; May 16.
Metal cutter. C. L. Beard. 2,348,876; May 16.
Metal door construction. J. F. Peelle. 2,349,195; May 16.
Metals or alloys, Separating impurities from. B. Blumenthal. 2,348,719; May 16.
Metalworking machine. W. P. Hill. 2,349,168; May 16.
Miller for detachable rock drill bits, Hot. W. J. Moerlin. 2,348,992; May 16.
Milling machine. J. H. Richards. 2,349,004; May 16.
Milling machine attachment, All-angle. J. H. Richards. 2,349,199; May 16.
Mixing valve. V. B. Novak. 2,349,051; May 16.
Modulating control system. F. A. Gauger and E. A. Jones. 2,348,969; May 16.
Mold for casting chain. E. C. Kloss. 2,348,979; May 16.
Molded fiber article. C. J. Chaplin. 2,348,725; May 16.
Molding machine. H. S. Wood. 2,349,219; May 16.
Monomers of cyclopentadiene, Prepafation of. W. H. Lycan and H. L. Gerhart. 2,349,047; May 16.
Monorail control system. R. W. Spafford. 2,349,120; May 16.
Mop head. H. Soule. 2,348,863; May 16.
Motion transmitting mechanism. B. Brassell. 2,349,135; May 16.
Motor: *See*—
  Flameproof electric motor.
Motor vehicle. J. Kolbe. 2,349,175; May 16.
Mounting: *See*—
  Adjustable bearing mounting.
Muffler. F. K. Batchelor and S. E. Becker. 2,348,706; May 16.
Nail and tack holder and finger guard. I. D. Davis. 2,348,962; May 16.
Nitrogenous heterocyclic compounds, Production. K. Kumetat and O. Riester. 2,349,179; May 16.
Nursing bottle holder. H. Hyams. 2,348,816; May 16.
Nursing bottle holder. N. S. Phipps. 2,349,054; May 16.
Oil and gas wells, Control and prevention of caving and sliding in drilling. E. A. Means. 2,349,050; May 16.
Oil burner. B. I. J. Stamm. 2,348,760; May 16.
Oil cleaner. H. A. Klinkhamer. 2,349,174; May 16.
Oil hole drill. R. W. Andreasson. 2,348,874; May 16.
Oil intercepter. E. W. N. Boosey. 2,348,723; May 16.
Oil, Separation of the constituents of tall. F. H. Gayer and C. E. Fawkes. 2,348,971; May 16.
Oiling device. J. H. Anderson. 2,349,131; May 16.
Oils, Production of drying. T. F. Bradley. 2,348,708; May 16.
Oils, Solvent dewaxing of mineral. L. B. Goodson, J. V. Montgomery, and R. W. Henry. 2,348,038–9; May 16.
Ordnance. J. C. Trotter. 2,349,124; May 16.
Ornamentation. E. L. White. 2,349,065; May 16.
Outside door handle. L. R. Rhein. 2,349,055; May 16.
Outsole and heel lift, Combined. J. H. Davis. 2,348,713; May 16.
Paper box machine. E. G. Staude. 2,349,204; May 16.
Paperhanger's table. F. E. Edgren. 2,349,149; May 16.
Perpenes, Improving the color of resinous copolymers of. W. N. Traylor. 2,349,210; May 16.
Photographic developing and washing apparatus. L. A. Wildman. 2,349,026; May 16.
Photographic developing apparatus. L. A. Wildman. 2,349,027; May 16.
Photographic images, Method of and material for producing corrected. B. Gaspar. 2,348,735; May 16.
Photographic washing apparatus. L. A. Wildman. 2,349,028; May 16.
Pipe: *See*—
  Apparatus for coating pipe.
Pipe coupling. J. H. Lamont, M. S. Stables or Lamont, R. Patrick, and J. Waugh. 2,349,1806; May 16.
Pipe feeding apparatus. I. A. Colby. 2,348,786; May 16.
Pipe or conduit, Articulate. J. F. Stephens. 2,349,016; May 16.
Plane attachment. J. A. E. Romanoski. 2,349,112; May 16.
Planographic printing plate. W. B. Wescott. 2,348,771; May 16.
Planting mechanism. H. P. Cordes. 2,348,787; May 16.
Plastic articles, Method of and apparatus for making blown. W. H. Kopitke. 2,349,177; May 16.
Plastic composition. J. D. Ryan. 2,348,756; May 16.
Plastic composition and making the same. O. M. Reiff and A. P. Kozacik. 2,349,198; May 16.
Plastic materials, method of and apparatus for extruding and blowing organic. W. H. Kopitke. 2,349,178; May 16.
Pole, Fishing. N. Comparelli. 2,349,077; May 16.
Polishing apparatus. J. Stuart, II. 2,349,207; May 16.
Polyamides, Treatment of. W. R. Peterson. 2,348,751; May 16.
Polymerization of vinyl aromatic compounds. E. C. Britton and W. J. Le Fevre. 2,349,136; May 16.
Post driver, Fence. C. E. and L. L. Jordan. 2,348,820; May 16.
Powder, Smokeless. B. H. Mackey and P. R. Millus. 2,349,048; May 16.
Power plant and cowling assembly means, Airplane. F. H. Rohr. 2,349,006; May 16.
Power plant assembly. A. R. Perkins. 2,349,196; May 16.
Power transmission. W. T. Dunn. 2,349,147; May 16.
Power transmission. V. E. Matulaitis. 2,349,185; May 16.
Power transmission. A. J. Syrovy, W. T. Dunn and O. W. Schotz. 2,348,763; May 16.
Precoat filter. E. C. Ditzen. 2,348,885; May 16.
Preparation of monoalkylol cyanamide condensation products. R. F. Uncles and K. K. Kurtz. 2,349,061; May 16.
Press: *See*—
  Baling press.
  Draw press.
  Rotary intaglio printing press.
  Shoe press.
  Veneering press.
Press frame construction. W. Ernst, I. B. Lawyer and B. D. Ashbaugh. 2,349,082; May 16.
Presser foot lock for shoe sewing machines. C. W. Baker. 2,348,775; May 16.
Pressure relief system for storage tanks. P. B. Drane. 2,348,888; May 16.
Priming system for centrifugal pumps. E. A. Wilhelm. 2,349,029; May 16.
Printing plate, Planographic. W. B. Wescott. 2,348,943; May 16.
Printing plates, Making registered duplicate-image multiple color. J. A. White. 2,348,944; May 16.
Producing images by television in steroscopic relief, Method of and apparatus for. J. L. Baird. 2,349,071; May 16.
Propelling plant for aircraft. C. Dornier. 2,348,792; May 16.
Protecting device for landing wheels of aircraft. J. Wright and H. Trevaskis. 2,349,067; May 16.
Protein plastics by cold molding, Producing. O. C. H. Sturken. 2,348,761; May 16.
Pulsating current, Method of and apparatus for producing. E. S. Hebeler. 2,349,229; May 16.
Pump: *See*—
  Hydraulic pump.
  Laminated gear pump.
  Variable stroke pump.
  Well pump.
Punch and die. C. L. Beard. 2,348,875; May 16.
Purification of sugar juices. C. J. Peterson. 2,348,846; May 16.
Quiet-ratcheting jaw clutch. O. H. Banker. 2,348,717; May 16.
Rack: *See*—
  Adjustable broiler grid holding rack.
Racing arena and photographing apparatus. R. A. Oswald. 2,348,841; May 16.
Radio beacon, visual type. F. W. Dunmore and F. G. Kear. 2,348,730; May 16.
Radium-luminescent material, Method and apparatus for applying. M. R. Saxby. 2,348,929; May 16.
Railway journal box. R. J. Brittain, Jr. 2,349,073; May 16.
Railway switch operating apparatus. H. L. Bone. 2,348,707; May 16.
Razor, Safety. J. C. Flickinger. 2,348,892; May 16.
Record playing and changing apparatus, Automatic. F. W. Wagner and R. Wilson. 2,348,766; May 16.
Recording system. R. R. Chappell. 2,348,711; May 16.
Recovery of aluminum bromide catalyst. I. H. Welinsky and M. H. Gorin. 2,348,770; May 16.
Rectifier for voltage duplicating circuits. F. Herriger. 2,348,814; May 16.
Reel construction, Wire. R. K. Hatch. 2,348,904; May 16.
Refrigerated case. F. C. Lowell. 2,348,988; May 16.
Refrigeration. A. D. Siedle. 2,348,860; May 16.
Refrigeration apparatus. C. Buhler. 2,348,784; May 16.
Refrigerator. C. Steenstrup. 2,349,121; May 16.
Refrigerator cabinet. D. E. Heath. 2,348,812; May 16.
Register device. S. Axelrod. 2,349,070; May 16.
Registration control appartaus. M. Sorkin. 2,348,862; May 16.
Regulator: *See*—
  Headlight regulator.
  Voltage regulator.
Rivet cutter. C. L. Beard. 2,348,877; May 16.
Road surfacing machine. M. F. Allen. 2,349,130; May 16.
Rocker devices, Snap-action. F. Sauter. 2,349,008; May 16.
Rollable window screen. H. W. Thomas. 2,349,226; May 16.
Rotary intaglio printing press. A. M. Wickwire, Jr. 2,348,870; May 16.
Rotary seal joint. C. W. Howard. 2,348,907; May 16.
Safety crane hook. F. J. Truesdale and H. K. Fish. 2,349,021; May 16.
Safety control for liquid fuel burners. J. L. Breese. 2,348,709; May 16.

Safety device for pipettes. W. T. Mathis. 2,348,831; May 16.
Safety razor accessory. J. S. Mahler. 2,349,183; May 16.
Safety valve for tanks. W. V. Brown. 2,349,137; May 16.
Sales tube for dispensing ice-cream cones, Sanitary. G. G. Buttermann. 2,349,074; May 16.
Salt water drilling mud. E. A. Means. 2,349,049; May 16.
Scaffolding bracket. R. L. and D. R. Brown. 2,348,954; May 16.
Scissors, Power operated. V. Gaudio. 2,348,895; May 16.
Screen: *See*—
  Rollable window screen.
Screw rolling. C. C. Richards. 2,348,850; May 16.
Seal applying machine. E. R. Rehfeld. 2,349,197; May 16.
Seal, Stuffing box. G. L. Waddell. 2,349,024; May 16.
Sealing device. E. F. Jackman. 2,349,170; May 16.
Seating device for children, Foldable. N. Hammer. 2,349,092; May 16.
Self-conforming tractor jack. I. W. McCue. 2,348,743; May 16.
Sewage and the like, Purifying. A. Schreiber. 2,348,854; May 16.
Sewage sampler. H. W. Gillard and S. L. Adelson. 2,348,806; May 16.
Shaft seal. R. C. Thompson. 2,348,939; May 16.
Shears, Pruning. R. R. Hart. 2,348,903; May 16.
Sheath for surgical and medical use, Protective. E. T. Wyman. 2,348,773; May 16.
Sheave. E. J. Otto. 2,348,994; May 16.
Sheet delivery mechanism for printing presses. T. J. Kauffeld. 2,348,821; May 16.
Sheet material, Producing flocked. J. Ferrante. 2,349,153; May 16.
Sheet pulp container forming apparatus. L. M. Wiley. 2,348,871; May 16.
Shoe or similar article. W. Braun. 2,348,952; May 16.
Shoe polishing apparatus. J. Mullan. 2,349,106; May 16.
Shoe press. F. Dawson. 2,349,068; May 16.
Shopper's bag. M. I. Wick. 2,349,025; May 16.
Shopping bag. M. Dodson. 2,348,964; May 16.
Shower door. O. C. Stahl. 2,348,937; May 16.
Shower head. C. H. Bentley. 2,348,776; May 16.
Shuttle case bearing. S. A. Bethune and E. G. Comstock. 2,348,718; May 16.
Signaling device for gum perforators. D. G. C. Hare. 2,349,041; May 16.
Skimming apparatus. H. A. Stahl and L. D. Jones. 2,348,938; May 16.
Slack adjuster. W. R. Freeman. 2,348,734; May 16.
Slushing composition. E. W. Adams and G. W. Flint. 2,348,715; May 16.
Snap switch. F. W. Joyce. 2,348,982; May 16.
Snow guard for roofs. M. Schweda. 2,349,201; May 16.
Soap chip dispenser. R. M. Storer. 2,349,017; May 16.
Soap, Manufacture of. A. T. Scott. 2,348,855; May 16.
Socket. J. D. Kennelly. 2,349,097; May 16.
Sodium bismuth triglycollamate. R. A. Lehman and R. C. Sproull. 2,348,984; May 16.
Sound film apparatus. L. R. Streeter. 2,349,122; May 16.
Spark plug connectors, Making shielded. T. W. Milton. 2,348,919; May 16.
Speed drive for fast running machines, especially for cycle dynamo machines. A. Rabl. 2,348,848; May 16.
Speed transmission, Stepless change. W. Voegeli. 2,348,940; May 16.
Spindle control mechanism. W. F. Groene and H. J. Sickmann. 2,348,973; May 16.
Spring for beds or mattresses. B. Gladstone. 2,348,897; May 16.
Stabilized polydiazo-phthalocyanines. N. H. Haddock. 2,349,090–1; May 16.
Steam injector. W. H. Tinker. 2,349,123; May 16.
Stereoscopic viewer. E. W. Sparling. 2,349,013; May 16.
Stoker. F. J. Palmer. 2,349,194; May 16.
Stoker. H. V. Sturtevant. 2,348,762; May 16.
Stop for lathes. H. H. Freeman. 2,349,159; May 16.
Stop motion attachment for looms. J. F. Koskela. 2,348,824; May 16.
Storage battery cover. L. A. Doughty. 2,349,031; May 16.
Stove. L. E. Seeley. 2,348,933; May 16.
Stove, Cooking. R. M. Sherman. 2,348,934; May 16.
Strand handling apparatus. E. E. Franz. 2,348,798; May 16.
Strand handling apparatus. J. N. Selvig. 2,348,856; May 16.
Submarine. M. C. Schwab. 2,349,009; May 16.
Suction cleaner. D. G. Smellie. 2,348,861; May 16.
Suit, Lifesaving. C. Dybberg. 2,348,793; May 16.
Sulphur derivatives of organic compounds, Manufacture of. J. F. Olin and T. E. Deger. 2,349,191; May 16.
Sulphur product, Finely divided. S. B. Heath. 2,348,736; May 16.
Support: *See*—
  Fixture support.
Surfaces of ovate sections, Method of and apparatus for the generative formation of. H. L. Blood. 2,348,881; May 16.
Switch: *See*—
  Snap switch.
System for indicating unbalance of cyclically moving bodies. A. G. Pekar. 2,348,922; May 16.
Table: *See*—
  Paperhanger's table.
Tape driving system for magnetic sound recording machines and the like. H. G. Tasker. 2,349,018; May 16.
Tank: *See*—
  Elevated tank.
  Flush tank.
Telephone booth. F. S. Corso. 2,349,144; May 16.
Telephone calling system, Automatic. M. Samburg and E. Amatnick. 2,348,758; May 16.
Thermoplastic ware, Making hollow. V. E. Hofmann. 2,348,738; May 16.
Thermostatic element. D. W. Abernathy. 2,349,126; May 16.
Thermostatically operative valve. R. J. Dougherty. 2,348,965; May 16.
Timing device. I. G. Boehm. 2,348,722; May 16.
Tire carrier. R. S. Hartman. 2,348,811; May 16.
Tool: *See*—
  Machine tool.
Tool for manhole covers, Lifting. G. W. Kinner. 2,348,978; May 16.
Tool holders, Making multiple. J. H. Jacobs. 2,348,908; May 16.
Toolholder. G. H. Cote. 2,348,727; May 16.
Tractor. L. Champion. 2,349,141; May 16.
Transmission. A. L. Johnson. 2,348,980; May 16.
Transmission mechanism. E. W. Weaver. 2,349,064; May 16.
Trap: *See*—
  Animal trap.
Trim panel. E. P. Bolen and E. R. Detrick. 2,349,139–40; May 16.
Tube: *See*—
  Cathode ray tube.
  Electron tube.
Tube coupling. J. L. Douglass. 2,349,081; May 16.
Tubers against decay, Protecting. M. Wilson. 2,348,946; May 16.
Tubes in wells, Sealing or fixing casing. W. B. Lerch, C. H. Mathis, and E. J. Gatchell. 2,349,181; May 16.
Tuning arrangement for signaling systems. E. W. Forstrom. 2,349,085; May 16.
Turbine apparatus. J. L. Ray. 2,348,754; May 16.
Typing rhythm indicator. G. D. McMurry. 2,348,744; May 16.
Universal joint. S. G. Winguist. 2,349,030; May 16.
Vacuum cleaner. K. J. Wahlborg. 2,349,215; May 16.
Valve: *See*—
  Drifting valve.
  Flat disc valve.
  Mixing valve.
  Thermostatically operative valve.
Valve construction. H. T. Lambert. 2,348,827; May 16.
Variable pitch airscrew. F. M. Thomas. 2,348,764; May 16.
Variable stroke pump. O. Celio. 2,348,958; May 16.
Vehicle: *See*—
  Motor vehicle.
Vehicle drive, Four-wheel. R. L. Farnsworth. 2,349,151; May 16.
Vehicle landing gear. C. J. Wagner. 2,348,869; May 16.
Vehicle recorder. J. Perricone. 2,348,923; May 16.
Veneering press. A. Friz. 2,348,803; May 16.
Vibration dampener. C. A. Meyer. 2,349,187; May 16.
Vibration damping device. M. Ware. 2,348,941; May 16.
Vinylidene chloride polymers, Fabricating. R. M. Wiley. 2,348,772; May 16.
Voltage regulator. W. C. Grabau. 2,349,166; May 16.
Water heater. H. E. Handley. 2,348,901; May 16.
Weighing device. P. A. Wolff. 2,349,228; May 16.
Well logging instrument. S. A. Scherbatskoy, G. Swift, R. E. Fearon, and J. Neufeld. 2,349,225; May 16.
Well pump. W. L. Church. 2,348,959; May 16.
Wells, Gravelling. L. C. Uren. 2,349,062; May 16.
Wheel: *See*—
  Fifth wheel.
Wheel and axle assembly. H. C. French and R. T. Hendrickson. 2,348,801; May 16.
Winding, Method and machine for. W. W. Trickey and L. G. Wilhelm. 2,348,765; May 16.
Window system for motor vehicles. J. R. Oishei. 2,348,838; May 16.
Wire-drawing machine. W. Morgan. 2,349,104; May 16.
Wood-planing machine. W. L. Gaskell and O. P. Haisch. 2,349,162; May 16.
Work clamp. J. H. Fraser. 2,349,087; May 16.
Xylene from hydrocarbon mixtures, Separation of. C. R. Clark. 2,348,726; May 16.
Zinc oxide. H. M. Cyr. 2,348,883; May 16.

CLASSIFICATION OF PATENTS

ISSUED MAY 16, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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26: Des.137,926	5: Des.137,895	5: Des.137,907	13: Des.137,923	D92— 1: Des.137,896	Des.137,921
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Des.137,931	D17— 6: Des.137,894	Des.137,929	D61— 1: Des.137,937	Des.137,899	Des.137,925
Des.137,934	D22— 3: Des.137,916	Des.137,930	D71— 1: Des.137,938	Des.137,900	Des.137,932
Des.137,935	D29—20: Des.137,910	D44—29: Des.137,914	D74— 1: Des.137,939	Des.137,901	D93— 4: Des.137,915
Des.137,936	D33—19: Des.137,897	D45—19: Des.137,917	Des.137,940	Des.137,902	

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Reissues	4	No. 22,483 to No. 22,486, inclusive.
Patents	564	No. 2,349,233 to No. 2,349,796, inclusive.
Designs	36	No. 137,941 to No. 137,976, inclusive.
Total	840	

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., May 6, 1944.*

Paul P. Russo, his assigns or legal representatives take notice:

A petition for cancellation having been filed in this Office by Sadie Dashut, 1462 Irving Street, Denver, Colorado, to effect the cancellation of trade-mark registration of Paul P. Russo, 103 East 125th Street, New York, N. Y., No. 301,462, dated February 28, 1933, and the notice of such proceeding sent by registered mail to said Russo at the said address and reforwarded to him in care of Dr. Edward L. Corbett, 217 Broadway, New York, N. Y., having been returned by the post office as undeliverable, notice is hereby given that unless said Russo, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Erratum

Page 108 of the OFFICIAL GAZETTE of May 2, 1944, first column, Patent No. 2,347,982, in the claim, line 1 thereof, beginning with "1. Method of adjusting" strike out all to and including the word and period "circuit." in line 10 and insert instead the following—

3. A system for producing electron optical lens effects upon a stream of charged particles projected through a vacuous or gas-filled space, said system comprising spaced apertured electrodes adapted to be maintained at different potentials, at least one of said electrodes having its active surfaces embedded in a solid dielectric medium having a restricted region through which said stream passes.

Adjudicated Patents

(D. C. Ky.) Hawkinson patent, No. 1,917,262, for apparatus for retreading tire casings, claim 1 *Held* invalid. *Paul E. Hawkinson Co.* v. *Wilcoxen*, 54 F. Supp. 188.

(D. C. N. Y.) Sarazin patent, No. 2,079,227, for means adapted to reduce torsional oscillations of crank shafts, claims 11 to 16, *Held* invalid and not infringed. *Sarazin* v. *Wright Aeronautical Corp.*, 54 F. Supp. 244.

(D. C. N. Y.) Sarazin reissue patent, No. 20,773, claims 5, 6, 8 to 10, 12 to 16, *Held* invalid and not infringed. *Id.*

(D. C. Ky.) Hawkinson reissue patent, No. 21,956, for apparatus for retreading tire casings, claims 1 and 6, *Held* invalid. *Paul E. Hawkinson Co.* v. *Wilcoxen*, 43 F. Supp. 188.

Disclaimer

Patent No. 2,246,087.—*Emerson Dudley Bailey* and *Merlin Martin Brubaker*, Wilmington, Del. FILM. Patent dated June 17, 1941. Disclaimer filed April 27, 1944, by the assignee, *E. I. Du Pont de Nemours and Company.*

Hereby enters this disclaimer to claims 1, 2, 4, 5, and 6 of said patent; and further disclaims from claim 3 of said patent any polarizing film except such wherein the polymer is a linear polyamide.

Condition of Applications Under Examination at Close of Business May 6, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 44,850; Trade-Mark Division, 1,379. Oldest new case, June 7, 1943; oldest amended, June 16, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders: Baths, Closets, Sinks, and Spittons; Sewerage.	Dec. 27	Dec. 10	429
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Nov. 1	Oct. 16	553
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Sept. 29	Oct. 2	953
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 13	Oct. 11	454
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 16	Sept. 18	1,042
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 29	Oct. 11	1,141
7. JARBOE, C. G., Optics, Photography	Dec. 27	Nov. 30	728
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 29	Dec. 15	456
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 7	Nov. 9	678
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 11	Dec. 27	280
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Aug. 17	Aug. 9	1,016
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Nov. 17	Nov. 24	542
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Oct. 27	Dec. 21	609
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Oct. 23	Dec. 13	760
16. SPENCER, C. J., Telegraphy; Telephony	Dec. 7	Dec. 9	567
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 15	Aug. 27	516
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	June 12	June 16	860
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Nov. 4	Nov. 19	560
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Dec. 10	Dec. 6	394
21. THOMPSON, T. J., Textiles	Dec. 10	Nov. 1	398
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Sept. 16	Sept. 16	1,106
23. BARROWS, B., Cash Registers; Calculators (part)	July 10	July 20	172
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 10	Nov. 16	562
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Oct. 29	Nov. 12	734
26. YOUNG, R. R., Electricity—Generation and Motive Power	Aug. 6	Aug. 7	911
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 16	Aug. 24	468
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Sept. 3	Aug. 11	707
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 27	Nov. 13	694
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Aug. 20	Aug. 16	1,049
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 29	Nov. 25	1,073
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 11	Oct. 30	582
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Dec. 13	Dec. 13	627
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Dec. 7	Aug. 13	527
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Dec. 20	Nov. 1	453
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Dec. 22	Dec. 24	380
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 18	Aug. 10	706
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Sept. 4	Sept. 2	474
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 29	Dec. 2	643
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 16	Dec. 18	620
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 1	Sept. 9	416
42. MARANS, H., Electric Signaling	Dec. 29	Dec. 17	351
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Oct. 21	Sept. 29	742
44. HARVEY, L. P., Refrigeration; Preserving	Sept. 22	Sept. 1	416
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Oct. 29	Oct. 11	997
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Oct. 15	Oct. 5	490
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Dec. 8	Dec. 1	609
48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Sept. 23	Sept. 28	795
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Oct. 6	Oct. 27	658
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Oct. 16	Oct. 16	1,376
51. CROCKER, A. W., Radiant Energy, Multiplex Telephony, Modulators	Oct. 5	Oct. 5	1,326
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Oct. 8	Sept. 2	729
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Oct. 25	Oct. 20	410
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 7	July 1	773
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Aug. 21	Sept. 11	644
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Oct. 25	Oct. 25	767
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 19	Sept. 9	756
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Oct. 22	Nov. 22	662
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 14	Sept. 14	1,292
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 6	Sept. 6	734
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Nov. 3	Oct. 25	463
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Dec. 9	Dec. 7	741
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 15	Sept. 11	917
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 14	Dec. 16	1,024
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	July 24	Aug. 4	872
Trade-Marks: RICHMOND, F. A.	†Mar. 14	†Mar. 11	1,379
Designs: KALUPY, H. H.	†Mar. 28	†Apr. 5	466

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE POUPIN

No. 4,810. Decided February 7, 1944

[140 F.(2d) 1008]

PATENTABILITY—CRUSHING OF STONE AND ORE.

A method claim in appellant's application relating to a method and apparatus for crushing of stone and ore *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. E. F. Wenderoth (*Mr. A. Ponack* of counsel) for Poupin.

Mr. W. W. Cochran for the Commissioner of Patents.

BLAND, *J.*:

Five apparatus claims in appellant's application for a patent relating to a method and apparatus for "crushing of stone and ore" were allowed by the Primary Examiner of the United States Patent Office, and claim 11, which is the only claim involved here—a method claim—was rejected as not being inventive over a patent to Smith et al., No. 1,605,007, November 2, 1926.

The claim reads as follows:

11. The method of reducing abrasion in shear-compressing crushing which includes delivering the particles to be crushed in an unconsolidated stream along a predetermined path leading to the convergence of a rapidly revolving conical shell and a truncated head located eccentrically inside said shell thus crushing the material in such a manner that the crushing force is decomposed into a diametrical crushing force which prevents slippage of the particles across the crushing surfaces and a shear crushing force, thereby causing the fracture into smaller pieces which are directed outwardly to be further crushed at a closer distance between said shell and head until the material passes out through the minimum opening between the two revolving elements and is centrifugally discharged.

Upon appeal to the Board of Appeals, the decision of the Examiner in rejecting said claim 11 was affirmed. From the decision of the Board, the applicant has here appealed.

While the claim at bar calls for "the method of reducing abrasion in shear-compressing crushing," the application as filed does not stress the importance of reducing abrasion. The invention of the application is concerned with a crushing apparatus for crushing stone and ore and comprises a large member having a conical cavity therein and an interiorly located cone-shaped member which revolves within said cavity. The two members are arranged with their axes out of alignment, and means are provided for rotating the members at the same angular speed and in the same direction. The material to be crushed is fed into the space between the members at the upper side, the space there being much wider than the space at the lower side. As the members turn and the material proceeds farther into the device, the space between the corresponding surfaces of the two members decreases, which brings about a crushing or shearing force.

In urging the allowance of the method claim at bar, appellant, with commendable thoroughness and accuracy of expression, argues at great length that he has devised a method not disclosed in the prior art, whereby he avoids a slipping of the material to be crushed and the resultant abrasion of the particles which produces "fines," and that the production of "fines" in this art is to be avoided if possible. He argues that since his device operates so that both rotating members rotate at the same speed and are separately driven, he brings about a crushing action which avoids slippage and thus accomplishes the desired purpose of minimizing the amount of "fines."

The Smith et al. patent discloses a crushing mill much like that of appellant except that it differs in two particulars. First, the patentees feed their material in with a screw conveyor from the apex end of the conical shell member, while appellant feeds his device from the opposite side and at the top, where the space between the two members is the widest. Second, the patentees' conical member is not separately geared or independently operated. It revolves in harmony with the revolution of the concave member by reason of the contact it has with the material being crushed.

It was the view of the Examiner that there was nothing about the difference in the place where the material was fed into the respective devices that amounted to invention, but was "no more than a mere matter of choice." The Examiner also concluded that the

"crushing forces involved are obviously substantially the same and the method performed in the operation of the Smith et al device must necessarily be substantially the same as that called for by claim 11."

The Board of Appeals agreed with the Examiner and stated:

Appellant urges that his device not only crushes but has a shearing action on material placed between two positively rotated elements, one a conical shell and the other a truncated head fitted within the shell. On examination of the appealed claim, we find that it distinguishes primarily from Smith et al only in the mode of feeding material between the conical shell and the truncated head. We are not satisfied that this is a patentable distinction.

It will be noted that in the claim involved there is no mention of the fact that in appellant's method the cone which is located eccentrically inside the shell is separately driven. It is also to be noted that in the application as originally filed, appellant submitted a method claim which emphasized the feature of a separately powered conical member, but that claim was later canceled.

It was the view of the Examiner and of the Board that the claim, which calls for a diametrical crushing force which prevents slippage, was not inventive over the Smith et al. patent for the reason that it was not shown, nor were they convinced, that the same force with the same result was not obtained in the Smith et al. device. The Patent Office tribunals concluded that whatever force was applied in appellant's device, no matter how theoretically explained, was inherent in the device of Smith et al.

We have carefully considered appellant's thorough brief and have read his lengthy discussion of

the manner in which his device operates with great interest. It may be that a crushing mill with a conical member which rotates in response to the rotation of the shell and not from its own gearing may bring about a different kind of pressure from that in a device like appellant's. There is nothing in this record, however, that convinces us (notwithstanding appellant's thorough theoretical argument) that the tribunals below were in error in concluding that the same crushing forces employed by appellant were inherent in the reference device.

We call attention again to the fact that in appellant's specification he apparently was not concerned with reducing abrasion and that the method claim at bar has been urged upon a theory not taught in the original application. The claim does not distinguish over the reference except in terms of result, and the inventive feature which obviously prompted the allowance of five apparatus claims is not defined in the appealed claim.

We are not convinced that the Patent Office tribunals were in error in holding that the involved claim called for nothing inventive over the disclosure of the Smith et al. patent, and the decision of the Board of Appeals is accordingly affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

PARKE, DAVIS & COMPANY

v.

THE G. F. HARVEY COMPANY

No. 4,817. Decided February 7, 1944

[— F.(2d) —]

1. TRADE-MARKS—CONFUSING SIMILARITY.

Applicant's mark, "Digiseals," for use upon a digitalis preparation *Held* confusingly similar to the mark "Kapseals Digifortis," earlier used by opposer upon a similar preparation.

2. SAME—SAME—TRADE PRACTICES.

The fact that applicant's goods are sold only upon physicians' prescriptions or to doctors and hospitals, whereas those of opposer may be obtained over the drug counter *Held* not a controlling factor on the question whether there is a reasonable probability of confusion as to the origin of the goods, since trade practices may change.

APPEAL from the Patent Office. Reversed.

Messrs. Whittemore, Hulbert & Belknap and *Mr. William H. Gross* for Parke, Davis & Company.

Mr. Joseph J. Juhass for The G. F. Harvey Company.

BLAND, *J.:*

The appellee-applicant applied to the United States Patent Office for the registration of its trade-mark "Digiseals" for use upon a digitalis preparation, and such proposed registration was opposed by the appellant, hereinafter referred to as opposer, upon the basis of its prior use of its trade-mark for a similar digitalis preparation, "Kapseals Digifortis," which is a combination of its two registered marks "Kapseals" and "Digifortis." Opposer's "Digifortis" mark was registered in 1925 and "Kapseals" in 1932, and opposer proved use of the compound mark "Kapseals Digifortis" on its present product since September 1931. Applicant's first use of its mark "Digiseals" was in 1940.

The Examiner of Interferences held that the issue between the parties involved the confusing similarity between opposer's said mark "Kapseals Digifortis" and applicant's mark "Digiseals." He held that there was a likelihood of confusion arising from the use of the marks on identical goods, sustained the opposition, and adjudged that applicant was not entitled to the registration of its mark.

The Commissioner of Patents, speaking through the First Assistant Commissioner, reversed the decision of the Examiner of Interferences on the question of applicant's right to register its mark and held that the only issue was the confusing similarity between the compound mark "Kapseals Digifortis" and the mark "Digiseals." He concluded that there was no likelihood of confusion resulting to the purchasing public from the concurrent use of the said marks on the respective goods and emphasized the fact that the goods of both parties are of the character requiring the exercise of extreme care in their purchase, citing *Ciba Pharmaceutical Products, Inc.* v. *Abbott Laboratories*, 28 C. C. P. A. (Patents) 1315, 121 F.(2d) 551, 50 U. S. P. Q. 139, 533 O. G. 1049. From the decision of the Commissioner, opposer has here appealed.

The applicant took testimony in an effort to show that there was no likelihood of confusion. Various witnesses stated that they were familiar with the merchandise. Some of them handled the merchandise of both parties and testified that there was no confusion and that they knew of no confusion ever resulting from the simultaneous use of the respective marks of the parties and the display and sale of the respective goods over the same counter.

Opposer complains here that the applicant, in taking said testimony, was guilty of bad faith in so far as the exhibit used in interrogating the witnesses on the subject of confusion consisted of a flat, oblong, cardboard box or receptacle in which the capsules containing the digitalis product were packaged in Cellophane sheets, which exhibit was compared with opposer's glass bottle of capsules enclosed in a carton. In emphasizing this argument, it is pointed out by opposer that applicant, in the manufacture of its product, has used the same green color which simulates the green color employed by opposer for many years prior to applicant's entering the field.

Applicant, agreeable to the holding of the Commissioner, urges that we may not consider the similarity of opposer's two separate marks to the mark "Digiseals" since the testimony discloses no use by opposer except in the combined form of its two registered marks. Opposer, on the other hand, urges that its registrations imply ownership and use and that since it pleaded the two registered marks in its notice of opposition, it is entitled to have the two marks separately considered with reference to their confusing similarity to applicant's mark.

[1] In view of our conclusion, we find it unnecessary to pass upon the question last above discussed because it is our view that there is a confusing similarity between the marks "Kapseals Digifortis" and "Digiseals."

Applicant is the newcomer. It took the first syllable of one of opposer's registered marks and the second syllable of the other, which comprise the prefix of the second word and the suffix of the first word of opposer's mark "Kapseals Digifortis." Just why it did so is not explained. Applicant's goods are put up in one-piece, sealed, oval-shaped gelatin capsules, while those of opposer are enclosed in a two-part, elongated capsule, firmly sealed at the point of junction between the two portions of the capsule.

It seems to us that the Examiner of Interferences arrived at the right conclusion in holding that there was a reasonable probability of confusion as to the origin of the goods. There certainly is sufficient doubt on the question to justify resolving the doubt against the newcomer.

[2] Applicant stresses the fact that its goods are sold only upon physicians' prescriptions or to doctors and hospitals, whereas those of opposer may be obtained over the drug counter. (The record shows that opposer's goods are sold over the counter and also upon prescription.) This is not a controlling factor because trade practices may change. *The William S. Merrell Co.* v. *The Anacin Co.*, 27 C. C. P. A. (Patents) 847, 109 F.(2d) 339, 44 U. S. P. Q. 366, 516 O. G. 3; *Malone* v. *Horowitz*, 17 C. C. P. A. (Patents) 1252. F.(2d) 414, 5 U. S. P. Q. 157, 399 O. G. 416.

It seems obvious to us, without some kind of explanation as to why applicant took the first syllable of one of opposer's registered marks and the second syllable of the other when opposer was using both well-known marks combined, that applicant sought to profit by a resulting confusion. See *Marion Lambert, Inc.* v. *O'Connor*, 24 C. C. P. A. (Patents) 781, 86 F.(2d) 980, 32 U. S. P. Q. 41, 477 O. G. 244, and cases there cited; *Cleo Syrup Corp.* v. *Coca-Cola Co.*, 60 U. S. P. Q. 98 (C. C. A. 8th, 1943). The fact that applicant has adopted for its capsules the same color as that employed by opposer is not a matter which can be redressed in this tribunal. If true, a remedy may be found elsewhere. It is, however, a circumstance which lends support to the conclusion that applicant sought to profit from the good will built up by another.

It is worthy of note to point out, in harmony with the above statement with reference to the change of commercial practices, that applicant, in taking its direct testimony, originally produced a container for its product only a thin, flat, oblong, cardboard box, which contained a Cellophane sheet of capsules separated by more than an inch of space in each direction. It developed in cross-examination that applicant also sold its goods (its counsel states, chiefly to hospitals) in small and large-sized colored bottles, which are substantially the same character of bottle as that used by opposer. In testifying concerning the lack of confusing similarity, some of applicant's witnesses used for their comparisons of the goods of the respective parties, the said cardboard box of applicant and the colored bottle of opposer.

Under the circumstances above stated, it seems to us that the Examiner of Interferences was fully justified in concluding that the testimony adduced by applicant was not controlling.

Applicant also stresses the fact that there are many different trade-marks for preparations similar to those at bar in which the terms "Digi" and "Seals" are found. It is too well understood to require extended citation of authorities that one does not profit in seeking registration of his own mark by stressing the fact that many marks similar in character have heretofore been registered in the Patent Office. *Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. (Patents) 1224, 83 F.(2d) 906, 29 U. S. P. Q. 601, 472 O. G. 258; *Skelly Oil Company* v. *Powerine Company*, 24 C. C. P. A. (Patents) 790, 86 F.(2d) 752, 32 U. S. P. Q. 51, 477 O. G. 766.

It is our view that the Commissioner's decision reversing that of the Examiner of Interferences was erroneous. The decision of the Commissioner should be, and it is hereby, reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE KEELING

No. 4,858. Decided February 7, 1944

[140 F.(2d) 1010]

PATENTABILITY—OIL CRACKING.

Certain claims to a vapor phase cracking process for converting hydrocarbon oils into hydrocarbons having a lower molecular weight *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Russel N. Low (*Mr. Henry Love Clarke* and *Mr. Thomas J. P. O'Brien* of counsel) for Keeling.

Mr. W. W. Cochran for the Commissioner of Patents.

BLAND, *J.:*

Certain claims having been allowed in appellant's application for a patent relating to a vapor phase cracking process for converting hydrocarbon oils, the Primary Examiner of the United States Patent Office rejected claims 11 to 15 inclusive, and his decision was, upon appeal, affirmed by the Board of Appeals. From the latter decision, the applicant has here appealed.

Except as is otherwise indicated herein, claim 11 is regarded as illustrative of all the appealed claims and reads:

11. A process for converting hydrocarbon oils into hydrocarbons having a lower molecular weight, including the steps of vaporizing the hydrocarbons, initially heating the hydrocarbons in the vapor phase by heat supplied thereto by indirect heat exchange through a sufficient time interval to partially convert the same and completing the conversion of said vapors by direct heat exchange, the heating in the indirect and the direct heat exchange steps being effected in separate zones and with separate supplies and off-flow of the heating gases separately controlled for separate independent regulation of heating of the respective steps.

While the record discloses a somewhat lengthy and interesting history of the prosecution of appellant's application through the Patent Office, the issues here presented do not require a consideration of most of this subject-matter to which our attention has been called by appellant.

The invention of appellant's application relates to the cracking of oil vapors in two stages. In the first stage, the oil, which is heated in one set of pipes within a furnace to vaporize it, is passed out to a flash evaporator, and the vapors are returned to a second set of pipes within the same furnace, where some cracking is effected. The heating in this partial cracking stage is regarded as being accomplished by "indirect heat exchange." From this stage, the partially cracked vapors are passed out to mixing chambers and reaction chambers, where they are mixed with hot combustion gases at a higher temperature than the oil vapors and the cracking is finally completed. With what happens to the vapors after being mixed with said combustion gases, we are not concerned in the issues to be determined here.

The references relied upon are: Heid, 1,981,144, Nov. 20, 1934; and Beardsley et al., 1,842,319, Jan. 19, 1932.

A detailed explanation of the somewhat complicated Heid and Beardsley et al. disclosures is not regarded as necessary here. The same would not add to clarity unless several drawings and a great number of numerals were herein inserted. In view of the fact that the issue seems to be narrowed down to one which we regard as not being close, we shall content ourselves with general statements as to the nature of appellant's process and those disclosed in the references.

Heid's process of conversion of hydrocarbon oils is to pump oil through a heating coil, where it is vaporized to a large extent. It is then passed further into the cracking system where the oil vapors are heated by indirect heat exchange. They are afterwards mixed with hot combustion gases, and the heating is there accomplished by direct heat exchange, as is true in appellant's method. Thus, we have the two stages of heating the oil vapors—indirect heat exchange and direct heat exchange. However, there is no teaching in Heid relating to the following limitation of claim 11:

"with separate supplies and off-flow of the heating gases separately controlled for separate independent regulation of heating of the respective steps."

It is clear that Heid does not meet this limitation; and the question was presented to, and decided by, the Patent Office tribunals as to whether or not it amounted to invention to employ separately regulable separate supplies of heating gases for heating the oil vapors in two zones instead of a single supply of heating gases as in Heid's disclosure. It was held by the tribunals below that the limitation did not lend invention to the claim over the Heid patent in view of the teaching of the Beardsley et al. patent.

Beardsley et al. show the principle of separately supplying and separately controlling the heating gases for the direct and indirect heat exchange steps. It was the conclusion of the tribunals that it would not amount to invention to modify the Heid process in accordance with the suggestion of the Beardsley et al. patent.

We quote the following from the Examiner's statement:

The Examiner holds that in view of the teaching in Beardsley et al. of the principle of separately supplying and separately controlling the heating gases for the indirect and the direct heat exchange steps, there would be no invention in modifying the Heid process so that the heating gases which supply heat to the indirect heat exchange step carried out in the annular passage 48a are supplied separately from, and controllable independently with respect to, heating gases which supply heat to the direct heat exchange step carried out in reaction zone 49.

After rejecting claim 11 upon Heid in view of Beardsley et al., the Examiner had the following to say with reference to the remaining claims:

Claim 12 adds to claim 11 that the cracking in the second stage (i. e. the "direct heat exchange step") is effected by commingling the hydrocarbons with an inert gas at temperatures sufficiently high to produce additional conversion. The "inert gas" which applicant uses is combustion gas, which is the same gas that Heid uses. Claim 12 is rejected similarly to claim 11.

Claim 13 adds nothing to the two preceding claims and is similarly rejected.

Claim 14 differs from the preceding claims in calling for passing oil vapor "in an elongated confined stream" through the first stage. The annular passageway 48a of Heid is considered to meet this requirement. Moreover the use of coils such as 35 of applicant's apparatus is conventional in the art, see element 30 of Beardsley et al.

Claim 14 further recites "controlling the velocity of the flow of the vapor" from the elongated confined stream to permit a sufficient time interval to partially crack a substantial amount of vapors. Heid clearly discloses (lines 52 to 69 page 2 and lines 15 to 19 page 3) that cracking of the vapors occurs in the annular space 48a. Accordingly Heid must allow the vapors sufficient time interval in said space for this reaction to occur. The manner of achieving this time interval, whether it be by control of the velocity of the flow of the vapor from the elongated confined space or by some other method is not considered to be patentable material. The important thing is that cracking is to occur in the elongated confined stream. Heid discloses this. Any difference between the reaction which occurs in applicant's coil 35 and that which takes place in space 48a of the Heid disclosure is a difference in degree only and not a patentable difference in kind. Claim 14 specifies that hot gases of combustion for heating the second stage are generated in quantities independently of the supply to the preliminary cracking zone. As already stated in connection with preceding claims, the Examiner's view is that the generation of combustion gases for heating the second stage of cracking in Heid's process (i. e. the stage in which combustion gases are directly commingled with vapors in 49) separately from the gases which are used for heating the first stage, would lack invention in view of Beardsley et al.

Claim 14 is rejected similarly to the preceding claims.

Claim 15 adds to the preceding claims that the initial vaporization of the oil is carried out without substantial cracking. This is disclosed by Heid, lines 85 to 97 page 1, and lines 8 to 14 page 2. Claim 15 also states that the initial stage of cracking (i. e. the "indirect heating" stage) is carried out "in a pipe coil still" zone. This is an apparatus limitation which should not carry weight in a process claim. The annular passageway 48a of Heid is considered the full equivalent, from a process standpoint, of the "pipe coil still." As remarked in connection with claim 14 the use of pipe coils in an analogous environment is conventional in the art, and attention is called to element 30 of Beardsley et al.

The Board of Appeals, in affirming the Examiner's rejection of all the appealed claims, had the following to say:

After careful consideration, we find no new or unobvious result produced by separating the heating means of Heid into two units rather than employing a common heating means for both effects. Heid very clearly points out that he intends to accomplish cracking by two stages like those of the claims, namely, a first stage by indirect heating in zone 48a and then by direct heating in zone 49 by admixture with hot products of combustion. We believe over the disclosure of Heid, particularly in view of Beardsley et al. disclosing quite an analogous arrangement of steps, that no invention is involved in thus very broadly providing two burners rather than a single one. Thus, while admitting that the terms of the claims do not directly read upon one citation, we hold that they fail to present improvement amounting to invention.

We are in agreement with the Examiner's conclusions in respect to the more limited or subordinate details found in some of the claims and his conclusions as to lack of invention in them.

Appellant argues in this court, notwithstanding the features of the two references pointed out by the Examiner and the Board, that it was improper to combine the two references in the manner which the tribunals have done. The main point of his contention seems to be that, while Beardsley et al. have two separate heating elements and employ one to increase the temperature of the vapors and the other to supply combustion gases for the cracking, the difference between the disclosure of the combined references and the disclosure of his application, for the most part, resides in the fact that he has emphasized the necessity of partially cracking his hydrocarbon vapors in his first vapor unit, whereas Beardsley et al. teach that it should be rushed through this unit with sufficient speed so that no cracking should there take place and thus avoid what is known as parasitic cracking, which is injurious to the coils by reason of carbon incrustation, and Heid fails to teach that the cracking in his indirect heating zone is limited to only "initial" or "partial" cracking.

It is true that Beardsley et al. do not contemplate the cracking of the vapors in the coil in question, and appellant urges that this is an important feature since it is the opposite of his teaching and contrary to the limitations of the claims, such as that found in claim 11, i. e.,

"through a sufficient time interval to partially convert the same and completing the conversion of said vapors by direct heat exchange."

It is pointed out by the Solicitor for the Patent Office, and attention is called to it in the decision of the Board, that the patent to Beardsley et al. states that the vapor is heated in the vapor heating coil to a cracking temperature of 800° to 900° F. It is also mentioned that in the reaction chamber where the cracking is completed, the temperature is stated to be 1020° F. These temperatures compare closely with the temperatures of 900° and 1050° F. specified in appellant's application as existing in the two cracking zones respectively.

It seems to us that Beardsley et al., while not desiring any cracking in their indirect heating zone, seek to accomplish the same purpose as appellant, in that they both do not desire enough cracking to take place in this zone to cause carbon deposit. So, they both teach that the vapors passing through this zone should be hurried through for fear of excessive carbon deposit. The appellant seems to think that some cracking in this zone is permissible, while Beardsley et al. think otherwise. Appellant mentions that he accomplishes his purpose in permitting some cracking without undesirable carbon formation by regulating and controlling the rate of flow at this point and by the shortness of the tubes constituting this cracking element. It will be noticed, however, that there is nothing in the claims which specifies how such regulation and control is to be brought about (the same is true of the Beardsley et al. patent), nor is there any suggestion in the claims or in appellant's application as to how long or short said tubes should be.

So, it seems to us that if the Beardsley et al. idea of separately supplying and separately controlling the heating gases for the indirect and direct heat exchange steps is incorporated into the Heid process, the modified structure could be operated to produce, in substantially the same way, the same result which appellant teaches.

Where substantially the same temperatures prevail and the same structure (as far as the instant question is involved) is operated by appellant as that utilized by Beardsley et al., it does not seem to us to be inventive to teach that a slight slowing down of the flow of vapors through the coils will produce a more desirable result. The difference between Beardsley et al.'s no cracking and appellant's partial cracking would seem to be a matter of degree. Neither appellant nor the patentees want oil cracking in this place to the extent of depositing carbon in harmful quantities. If Beardsley et al., in order to make certain that there was not sufficient cracking in the indirect heating zone to cause undesirable carbon incrustation, should so control the speed or amount of the stream of oil vapors through their shortened pipe coil as to produce the result of what appellant regards as "partial cracking," they would infringe appellant's claims if in a patent. This would seem to be anomalous.

In his application, appellant emphasizes the advantage of shortening his indirect heating coil over that disclosed in the "processes of De Florez, Greenstreet, Hall, and in the Gyro process," but it is not seen how this element alone is an advancement over the art when we consider the Beardsley et al. device. Beardsley et al. show a relatively short coil, and if appellant's coil is shorter than that of Beardsley et al., it would be difficult to understand how this fact alone would produce "initial cracking" in appellant's device as opposed to no cracking in the Beardsley et al. device.

We agree with the Patent Office tribunals that there is no invention in appellant's disclosure over the references. Therefore, claim 11 was properly rejected for the reasons stated by the tribunals below.

The Examiner has pointed out the limitations relied upon in the remaining claims, not found in claim 11, and in the language above quoted held that such limitations do not impart invention over the references. The Board, without quoting the details of the Examiner's statement in this regard, stated that it agreed with the Examiner's conclusions in respect to these claims. We find ourselves in the same position. Since, as before found, claim 11 is not inventive over the prior art references cited, it is our view that the limitations in the other claims do not lend inventiveness to those claims over the prior art cited, for the reasons stated by the Examiner and approved by the Board.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,405,633, M. O. Smith, Fuel vaporizer for carburetor, D. C., E. D. Mich., S. Div., Doc. 669, *The Gasifier Mfg. Co.* v. *Packard Motor Car Co.* Order of discontinuance with prejudice April 7, 1944.

1,535,379, Rodman & Boren, Quenching oil; 1,818,431, H. Rodman, same, filed April 1, 1944, D. C. Pa. (Pittsburgh), Doc. 2953, *Rodman Chemical Co.* v. *Gulf Oil Corp.*

1,675,599. (See Re. 17,279.)

1,693,295, C. M. Hannaford, Combined striking casting and front draft lug, D. C., N. D. Ill., E. Div., Doc. 43c240. *W. P. Marks, Jr.*, v. *O. C. Duryea Corp. et al.* Claims 2 and 4 held invalid, complaint dismissed Mar. 13, 1944.

1,719,132. (See 1,758,901.)

1,721,815, L. Gerstenzang, Process and apparatus for manufacturing medical swabs; 1,921,604, Bunnell & Barnes, Apparatus for manufacturing medical swabs, filed April 19, 1944, D. C. N. J., Doc. 3486, *Q-Tips, Inc.* v. *Swab Mfg. Co. et al.*

1,724,542, J. Zabel, Fur-brushing and ironing machine; 1,776,114, S. Friedman, Fur treating method and apparatus, filed April 10, 1944, D. C., S. D. N. Y., Doc. 25/169, *Reliable Machine Works, Inc.*, v. *Popp-Forour Co., Inc.*

1,758,901, E. Roberts, Means for automatically controlling centrifugal machines; 1,719,132, 2,145,633, same, Centrifugal apparatus; 1,861,978, same, Automatic control for centrifugal machines; 2,096,341, same, Brake cooling for centrifugals and the like, appeal filed April 12, 1944, C. C. A., 2d Cir., Doc. —, *The Western States Machinery Co.* v. *S. S. Hepworth Co.*

1,776,114. (See 1,724,542.) 1,818,431. (See 1,535,379.)

1,839,330, P. F. Murray, Automatic joint breaker, D. C., S. D. Calif. (Los Angeles), Doc. 102 N. D., *P. F. Murray et al.* v. *Hopper Machine Works, Inc., et al.* Dismissed by consent Mar. 28, 1944.

1,861,978. (See 1,758,901.)

1,906,453, Drinker & Shaw, Respirator; 1,906,844, same, Artificial respirator; Re. 20,226, same, Respiration apparatus, D. C., W. D. N. Y., Doc. 762, *W. E. Collins, Jr., et al.* v. *The Wiesner-Rapp Co., Inc.* Consent decree restraining defendant from infringement April 4, 1944.

1,906,844. (See 1,906,453.) 1,921,604. (See 1,721,815.)

1,940,847, H. L. Danziger, Apparatus for winding coil condensers, appeal filed April 12, 1944, C. C. A., 2d Cir., Doc. —, *Condenser Corp. of America* v. *Micamold Radio Corp.*

1,961,051, L. R. Kerns, Lubricating device; 1,995,342, C. E. Kirkes, Metering control mechanism, filed April 13, 1944, D. C., N. D. Ohio, E. Div., Doc. 22,259, *The Farval Corp.* v. *Blaw-Knox Co.*

1,990,329, L. D. Johnson et al., Food product and method, D. C., N. D. Ill., E. Div., Doc. 3898, *Mead Johnson & Co.* v. *The Fair.* Cause dismissed by stipulation Mar. 1, 1944.

1,995,342. (See 1,961,051.) 2,012,897. (See 2,094,480.)

2,084,851, L. J. Leishman, Means and method for turning rotatable objects to predetermined positions, D. C., S. D. Calif., C. Div., Doc. 11, *L. J. Leishman* v. *May Dept. Stores Co.* Dismissed with prejudice April 3, 1944.

2,094,480, O. G. Vogel, Electric heater; 2,012,897, Sutton & Fritze, Process of increasing the electrical resistance of fused magnesium oxide; 2,317,967, W. R. Tuttle, Electric heater control, D. C., N. D. Ill., E. Div., Doc. 3523, *Edison General Electric Appliance Co., Inc.* v. *Tuttle & Kift, Inc., et al.* Complaint amended complaint and counterclaim dismissed Mar. 13, 1944.

2,096,341. (See 1,758,901.)

2,105,398, Barrett & Hirschhorn, Reenforced porcelain tooth crown, filed Mar. 28, 1944, D. C. N. Y. (Brooklyn), Doc. 3726, *Reinforced Crown Corp.* v. *I. Lando.*

2,107,347, Sloane & Sloane, Reversible handbag cover, filed April 20, 1944, D. C., S. D. N. Y., Doc. 25/264, *Sloane Bros.* v. *A. S. Beck Shoe Corp. et al.*

2,108,702, H. T. Backhouse, Automatic sheet feeding machinery, D. C., E. D. Wis. (Milwaukee), Doc. 1073, *Dexter Folder Co. et al.* v. *J. A. Angst.* Dismissed upon stipulation April 15, 1944.

2,145,633. (See 1,758,901.)

2,151,907, L. R. Fink, Film processing device, D. C. N. J., Doc. 447, *Fink-Roselieve Co., Inc.* v. *Elkay Photo Products, Inc.* Judgment favor defendant April 11, 1944.

2,166,103, O. M. Behr, Art of treating fatty oils; 2,239,692, same, Continuous process of treating oils, D. C., N. D. Calif., S. Div., Doc. 21,920–W, *Vegetable Oil Products Co., Inc.*, v. *Dorward & Sons Co. et al.* Dorward & Sons Co. enjoined from infringing; action dismissed as to F. S. Dexter Jan. 3, 1944.

2,192,763, J. Wehr, Moving illustration, filed April 18, 1944, D. C., S. D. N. Y., Doc. 25/219, *Ridgefield Mfg. Corp.* v. *Duenewald Printing Corp. et al.*

2,220,599, J. Galter, Means for preventing reverse rotation of camera winding knobs, D. C., N. D. Ill., E. Div., Doc. 3869, *J. Galter* v. *Metropolitan Industries.* Consent judgment, patent held infringed; counterclaim dismissed (notice Mar. 7, 1944).

2,229,841. (See Des. 105,576.)

2,239,692. (See 2,166,103.)

2,248,640. (See Re. 21,523.)

2,303,220, 2,309,135, L. J. Morins, Hair net, filed April 17, 1944, D. C., S. D. N. Y., Doc. 25/212, *French Veiling Corp.* v. *Harry Glemby, Inc.*

2,309,135. (See 2,303,220.)

2,317,967. (See 2,094,480.)

Re. 17,278. (See Re. 17,279.)

Re. 17,278 (of 1,675,599), Re. 17,279, L. G. Copeman, Sharp freezing container for mechanical refrigerators, D. C., N. D. Ill., E. Div., Doc. 43c246, *Copeman Laboratories Co.* v. *General Plastics Corp. et al.* Complaint dismissed for want of equity, claims 3, 6 and 7 of Re. 17,278 and claims 2, 4 and 5 of Re. 17,279 held invalid Mar. 22, 1944.

Re. 18,856, A. Weiss, Rotary intaglio printing machine, filed April 17, 1944, D. C., S. D. N. Y., Doc. 25/216, *Babcock Printing Press Corp.* v. *Speedry Gravure Corp. et al.*

Re. 20,226. (See 1,906,453.)

Re. 21,523, C. T. Elderkin, Pulverizer; 2,248,640, I. T. Miller, same. D. C., N. D. Calif., S. Div., Doc. 22743–G, *Miller Mfg. Co.* v. *John Deere Plow Co. et al.* Consent decree granting injunction against Papec Machine Co. Complaint dismissed without prejudice against John Deere Plow Co. and B. C. Keator Jan. 21, 1944.

Des. 105,576, Eyrand & DeJulio, Pin curler; 2,229,841, same, Hair curler, filed April 4, 1944, D. C., S. D. Calif., C. Div., Doc. 3542–B, *A. J. Eyrand* v. *F. W. Woolworth Co.*

Des. 132,204, J. W. Mellen, Service flag, D. C., S. D. Calif., C. Div., Doc. 3025–RJ, *J. W. Mellen* v. *Conley Co.* Dismissed on stipulation without prejudice Mar. 28. 1944.

Des. 134,555, V. Steinberg, Dress, D. C., S. D. N. Y., Doc. 23/397, *Carol Crawford, Inc.* v. *L. N. Gross Co., Inc.* Stipulation discontinuing action April 5, 1944.

Des. 135,819, A. Heyman, Skirt, D. C., N. D. Calif. (San Diego), Doc. 22806–G, *J. Koret* v. *F. Craig.* Injunction April 10, 1944.

Des. 136,983, A. M. Katz, Coat, filed April 13, 1944; D. C., S. D. N. Y., Doc. 25/182, *Duchess Royal* v. *Aquatogs.*

Des. 137,471, F. Adams, Hat, filed April 19, 1944, D. C., S. D. N. Y., Doc. 25/253, *Frances Adams Hats* v. *Lily Hat Co.*

T. M. 92,950, Champion Spark Plug Co., Spark-plugs, filed Feb. 8, 1944, D. C., N. D. Tex. (Fort Worth), Doc. 603, *Champion Spark Plug Co.* v. *W-C Mfg. Co.*

TRADE-MARKS

OFFICIAL GAZETTE, MAY 23, 1944

[VOL. 562. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 463,075. IVERS-LEE COMPANY, Newark, N. J. Filed Aug. 28, 1943.

C-PAK

The word "Pak" is disclaimed apart from the mark.

FOR ENVELOPE-LIKE SEALED CONTAINERS TO FORM INDIVIDUAL PACKAGES, AND MADE PRINCIPALLY OF TWO OPPOSED LAYERS OF SHEET MATERIAL THERMOPLASTICALLY SEALED TOGETHER AT THEIR MARGINS TO FORM A COMPARTMENT FOR THE SUBSTANCE TO BE PACKAGED.

Claims use since February 1941.

Ser. No. 463,076. IVERS-LEE COMPANY, Newark, N. J. Filed Aug. 28, 1943.

SANITAPE-SEALTITE

The word "Sealtite" is disclaimed apart from the mark.

FOR ENVELOPE-LIKE SEALED CONTAINERS TO BE USED IN PACKAGES AND MADE PRINCIPALLY OF TWO OPPOSED LAYERS OF SHEET MATERIAL THERMOPLASTICALLY SEALED TOGETHER AT THEIR MARGINS TO FORM A COMPARTMENT FOR THE SUBSTANCE TO BE PACKAGED, WITH OR WITHOUT FOLDED PAPER COVERS.

Claims use since Nov. 1, 1935.

Ser. No. 463,733. IVERS-LEE COMPANY, Newark, N. J. Filed Sept. 28, 1943.

L-PAK

The word "Pak" is disclaimed apart from the mark.

FOR ENVELOPE-LIKE SEALED CONTAINERS TO FORM INDIVIDUAL PACKAGES AND MADE PRINCIPALLY OF TWO OPPOSED LAYERS OF SHEET MATERIAL THERMOPLASTICALLY SEALED TOGETHER AT THEIR MARGINS TO FORM A COMPARTMENT FOR LIQUID.

Claims use since Aug. 14, 1941.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 463,478. EISENSTADT MANUFACTURING COMPANY, St. Louis, Mo. Filed Sept. 18, 1943.

John Alden

The mark is the name of one of the characters in Longfellow's poem "The Courtship of Miles Standish."

FOR PURSES, BILLFOLDS, HANDBAGS, POCKETBOOKS, AND MEN'S FITTED TOILET CASES.

Claims use since May 25, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 464,822. PHYLLIS MACBIRD, doing business as Phyllis Dare, Los Angeles, Calif. Filed Nov. 8, 1943.

PHYLLIS DARE'S
TRI-THIOL SULPHONATE
TRADE MARK
ASK FOR
TTS
TRADE MARK
WATER-SOFTENING
SOAPLESS CLEANSER

All wording except the letters "TTS" is disclaimed apart from the mark.

FOR WATER-SOFTENING SOAPLESS CLEANSER.

Claims use since Nov. 25, 1942.

Ser. No. 465,519. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Dec. 4, 1943.

33

FOR SOLID CLEANING, CLEANSING AND DETERGENT MATERIAL, SPECIALLY ADAPTED FOR LAUNDERING OPERATIONS, BUT NOT LIMITED THERETO.

Claims use since September 1933.

Ser. No. 466,702. THE LEA MANUFACTURING CO., Waterbury, Conn. Filed Jan. 19, 1944.

ARTAB

FOR BUFFING AND POLISHING COMPOSITIONS APPLICABLE TO THE TREATMENT OF METALS, PLASTICS, LEATHER, AND OTHER SOLID MATERIALS AND COMPOSITIONS, GENERALLY, WHICH ARE SUSCEPTIBLE OF POLISHING BY ABRASIVE ACTION.
Claims use since February 1929.

Ser. No. 467,784. WILLIAM E. JOHNSON, doing business as W. E. Johnson Co., Pequannock, N. J. Filed Feb. 26, 1944.

PLASTONE

FOR FLEXIBLE ABRASIVE STONES.
Claims use since Nov. 30, 1943.

Ser. No. 468,141. HAVILAND LABORATORIES, INC., New York, N. Y. Filed Mar. 10, 1944.

PERHAPS

(Peut-etre)

FOR SOAPS.
Claims use since Mar. 2, 1944.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 462,022. NORDEN LABORATORIES, Lincoln, Nebr. Filed July 12, 1943.

Norden

Applicant is the owner of T. M. Reg. No. 250,244 for the word "Norden" and a design feature.
FOR VETERINARY BIOLOGICS, SERUMS, PHARMACEUTICALS, AND SUPPLIES, DESCRIBED AS FOLLOWS: ALKALINIZERS, ALTERATIVES, ANTHELMINTICS, ANTIFERMENTS, ANTISEPTICS, CARMINATIVES, COUNTER-IRRITANTS, DEODORANTS, DETOXICANTS, DISINFECTANTS, DIURETICS, DRESSING POWDERS, ESCHAROTICS, EXPECTORANTS, EXTERNAL ASTRINGENTS, FEBRIFUGES, GENERAL ANAESTHETICS, GENERAL TONICS, GLANDULAR EXTRACTS, HEMATINIC TONICS, HORMONE PREPARATIONS, INHALANTS, INTESTINAL ASTRINGENTS, LAXATIVES AND PURGATIVES, LINIMENTS, LOCAL ANAESTHETICS, PARASITICIDES, PREPARATIONS FOR NON-SPECIFIC PROTEIN THERAPY, PREPARATIONS FOR THE PREVENTION OF BLACKLEG, PREPARATIONS FOR THE PREVENTION OF BRUCELLOSIS, PREPARATIONS FOR THE PREVENTION OF CLOSTRIDIUM CHAUVEI-SEPTICUS INFECTION, PREPARATIONS FOR THE PREVENTION OF HEMORRHAGIC SEPTICEMIA INFECTION, PREPARATIONS FOR THE PREVENTION OF PULMONARY INFECTIONS, PREPARATIONS FOR THE PREVENTION OF SALMONELLA CHOLERASUIS INFECTION, PREPARATIONS FOR THE TREATMENT OF ACETONEMIA, PREPARATIONS FOR THE TREATMENT OF COCCIDIOSIS, PREPARATIONS FOR THE TREATMENT OF MASTITIS, PREPARATIONS FOR THE TREATMENT OF MILK FEVER, PREPARATIONS FOR THE TREATMENT OF MINERAL DEFICIENCIES, PREPARATIONS FOR THE TREATMENT OF PIG PELLAGRA, PREPARATIONS FOR THE TREATMENT OF SHIPPING FEVER, PREPARATIONS FOR THE TREATMENT OF SCOURS, SEDATIVES, SULFONAMIDE PREPARATIONS, SYNTHETIC ESTROGENIC HORMONE PREPARATIONS, TOPICAL ANAESTHETICS, VITAMIN PREPARATIONS.
Claims use since Jan. 1, 1939.

Ser. No. 463,202. IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, Slough, England. Filed Sept. 3, 1943.

CETAVLON

FOR CETYLTRIMETHYLAMMONIUM BROMIDE USED AS A DETERGENT, ANTISEPTIC, BACTERICIDE, ANTIMALARIAL, ANTHELMINTIC, TRYPANOCIDE, ANAESTHETIC, ANTIEPILEPTIC, GENERAL ANAESTHETIC, CLEANSING AGENT FOR WOUNDS, ANALGESIC, PARASITICIDE, AND FOR DISINFECTANT PURPOSES.
Claims use since Feb. 28, 1943.

Ser. No. 466,683. THE VIAVI COMPANY, San Francisco, Calif. Filed Jan. 18, 1944.

VIAVI

Super LAMINETS

Applicant is the owner of T. M. 396,680, registered July 28, 1942, for the term "Laminets."
FOR CONCENTRATED VITAMINS USED AS A FOOD SUPPLEMENT AND USED AS A THERAPEUTIC VITAMIN PREPARATION PER SE.
Claims use since July 20, 1943.

Ser. No. 466,711. CHARLES REINSCH, doing business as Cerex Products, New York, N. Y. Filed Jan. 19, 1944.

BELMED

FOR PHARMACEUTICAL PREPARATIONS FOR USE AGAINST AILMENTS CAUSED BY GASTROINTESTINAL MALFUNCTION, ANTACID CARMINATIVE TO RELIEVE DISTENSION CAUSED BY ACCUMULATION OF GAS.
Claims use since January 1943.

Ser. No. 467,153. JOSEPH GUARASCIO, San Jose, Calif. Filed Feb. 4, 1944.

GUARASCIO

FOR LAXATIVE PREPARATION.
Claims use since June 20, 1942.

Ser. No. 467,901. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 1, 1944.

ENZO

FOR SPECIALLY MODIFIED STARCHES ADAPTED TO BE TREATED WITH ENZYMES AND FOR SPECIALLY MODIFIED STARCHES CONTAINING ENZYMES, SAID STARCHES BEING PARTICULARLY USEFUL FOR COATING OR TUB SIZING IN PAPER MAKING.
Claims use since December 1939.

Ser. No. 467,915. COTY, INC., New York, N. Y. Filed Mar. 2, 1944.

PARIS REVIT

The word "Paris" is disclaimed apart from the mark.
FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Feb. 17, 1944.

Ser. No. 468,142. HAVILAND LABORATORIES, INC., New York, N. Y. Filed Mar. 10, 1944.

PERHAPS

(Peut-etre)

FOR PERFUMES, TOILET WATER, BATH OIL, DUSTING POWDER, TALCUM POWDER, AND SACHET.
Claims use since Mar. 2, 1944.

Ser. No. 468,151. PHYSICIANS' DRUG & SUPPLY CO., Philadelphia, Pa. Filed Mar. 10, 1944.

BITROPIN

FOR MEDICINAL PREPARATIONS—NAMELY, ANTACID TABLETS.
Claims use since April 1943.

Ser. No. 468,156. PHYSICIANS' DRUG & SUPPLY CO., Philadelphia, Pa. Filed Mar. 10, 1944.

TRISILAPHEN

FOR MEDICINAL PREPARATIONS—NAMELY, ANTACID TABLETS.
Claims use since February 1940.

Ser. No. 468,183. WILLIAM R. WARNER & CO. INC., Wilmington, Del., and New York, N. Y. Filed Mar. 10, 1944.

INTROMIN

FOR AMINO ACID PREPARATIONS FOR USE IN THE TREATMENT OF NUTRITIONAL DISORDERS.
Claims use since Feb. 18, 1944.

Ser. No. 468,184. WILLIAM R. WARNER & CO. INC., Wilmington, Del., and New York, N. Y. Filed Mar. 10, 1944.

PROTALATE

FOR AMINO ACID PREPARATIONS FOR USE IN THE TREATMENT OF NUTRITIONAL DISORDERS.
Claims use since Feb. 18, 1944.

Ser. No. 468,235. FILTROL CORPORATION, Los Angeles, Calif. Filed Mar. 13, 1944.

SYNTROL

FOR CHEMICALLY TREATED COLLOIDAL CLAY, ADAPTED FOR USE AS A DECOLORIZING, BLEACHING, FILTERING, PURIFYING, ABSORBING, AND CATALYTIC MEDIUM.
Claims use since Feb. 29, 1944.

Ser. No. 468,308. ADOLF ROSENBERG, doing business as Vitaron Chemical Mfg. Co., New York, N. Y. Filed Mar. 14, 1944.

VITRON

FOR FISH LIVER OIL EMULSION AND FISH OIL EMULSION FOR ANIMAL USE.
Claims use since May 1, 1941.

Ser. No. 468,356. E. R. SQUIBB & SONS, New York, N. Y. Filed Mar. 16, 1944.

LUMIFANE

FOR ANTIBACTERIAL SURGICAL DRESSINGS.
Claims use since Mar. 6, 1944.

Ser. No. 468,367. BEEBE LABORATORIES, INC., St. Paul, Minn. Filed Mar. 17, 1944.

Daubosol

FOR POWERFUL GERMICIDE, ANTISEPTIC, AND DISINFECTANT FOR LOCAL APPLICATION.
Claims use since Sept. 1, 1942.

Ser. No. 468,369. BEEBE LABORATORIES, INC., St. Paul, Minn. Filed Mar. 17, 1944.

SIBOL

FOR PRODUCT TO INJECT HYPODERMICALLY INTO CATTLE FOR RETAINED AFTERBIRTH AND UTERINE DISCHARGE (METRITIS).
Claims use since Dec. 15, 1943.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 467,319. INLAND ASPHALT CORPORATION, Chicago, Ill. Filed Feb. 10, 1944.

TIALAG

FOR ASPHALTS AND TARS TREATED TO FACILITATE ADHESION TO UNDRIED AGGREGATES FOR ROAD PAVING.
Claims use since May 20, 1942.

Ser. No. 467,356. OCEANIC INSUL-LITE CORP., Brooklyn, N. Y. Filed Feb. 11, 1944.

OCEANLITE

FOR THERMAL INSULATION MASTIC MATERIAL.
Claims use since August 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 467,285. GLENN A. MORTHLAND, doing business as Compotite Shower Pan, Los Angeles, Calif. Filed Feb. 8, 1944.

Compotite

FOR SHOWER PANS.
Claims use since May 2, 1939.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 467,461. WILLIAM B. OGUSH, INC., New York, N. Y. Filed Feb. 16, 1944.

WOBO

FOR PRECIOUS METALS AND PRECIOUS METAL SOLDERS.
Claims use since Feb. 1, 1944.

CLASS 15

OILS AND GREASES

Ser. No. 442,823. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Apr. 22, 1941.

ATLANTIC ULTRAGEAR

FOR LUBRICATING OILS.
Claims use since Mar. 5, 1941.

Ser. No. 468,411. FREEDOM OIL COMPANY, Freedom, Pa. Filed Mar. 18, 1944.

FOCUT

FOR LUBRICATING OILS AND GREASES.
Claims use since August 1943.

Ser. No. 468,413. FREEDOM OIL COMPANY, Freedom, Pa. Filed Mar. 18, 1944.

FOTANE

FOR LUBRICATING OILS AND GREASES.
Claims use since July 1943.

Ser. No. 468,820. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 29, 1944.

TELEO

FOR HYDRAULIC OILS.
Claims use since Jan. 1, 1916.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 468,567. KEYSTONE VARNISH COMPANY, Brooklyn, N. Y. Filed Mar. 23, 1944.

ALUMINAMEL

FOR PAINT ENAMEL.
Claims use since July 1, 1938.

Ser. No. 468,573. WALTER G. LEGGE COMPANY, INC., New York, N. Y. Filed Mar. 23, 1944.

LECO

FOR NON-SLIP FLOOR POLISH.
Claims use since Mar. 1, 1938.

Ser. No. 468,574. WALTER G. LEGGE COMPANY, INC., New York, N. Y. Filed Mar. 23, 1944.

SAFCO

FOR NON-SLIP POLISH FOR ASPHALT TILE FLOORING.
Claims use since Mar. 1, 1938.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 467,213. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 7, 1944.

Week-Ender

FOR AUXILIARY SAIL BOATS.
Claims use since Dec. 30, 1937.

Ser. No. 467,215. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 7, 1944.

W-E

FOR AUXILIARY SAIL BOATS.
Claims use since May 1, 1938.

Ser. No. 467,762. LOCKHEED AIRCRAFT CORPORATION, Burbank, Calif. Filed Feb. 25, 1944.

Shooting Star

FOR AIRPLANES AND STRUCTURAL PARTS THEREFOR.
Claims use since Jan. 25, 1944.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 467,840. COLUMBIA BROADCASTING SYSTEM, INC., New York, N. Y. Filed Feb. 29, 1944.

TELECOLOR

FOR RADIO AND TELEVISION TRANSMITTING AND RECEIVING APPARATUS AND COMPONENT PARTS THEREFOR.
Claims use since Feb. 11, 1944.

Ser. No. 468,601. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa. Filed Mar. 24, 1944.

POWERCLAD

FOR STORAGE BATTERIES, THEIR PARTS AND ACCESSORIES.
Claims use since Jan. 10, 1944.

Ser. No. 468,740. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed Mar. 27, 1944.

CR

FOR STORAGE BATTERIES AND PARTS THEREOF.
Claims use since June 12, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 467,927. HOWARD M. HAY, Chicago, Ill. Filed Mar. 2, 1944.

FLEA-FLICKER

FOR GAMES CONSISTING OF A GAME BOARD HAVING MINIATURE BASKETS AT ITS ENDS AND A PADDED UPPER SURFACE, WITH DISCS TO BE FLIPPED OVER THE SURFACE OF SAID GAME BOARD AND INTO SAID BASKETS IN PLAYING THE SAME.
Claims use since Feb. 7, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 454,143. MARVEL TOOL AND MACHINE CO., Ecorse, Mich. Filed July 10, 1942.

MARVEL

FOR LIVE CENTER TOOL.
Claims use since November 1940.

Ser. No. 461,887. BRUCON COMPANY, San Francisco, Calif. Filed July 6, 1943.

BRUCON

FOR HYDRAULIC PUMP AND RAM UNITS AND VISES.
Claims use since May 1943.

Ser. No. 467,357. OLIVER FARM EQUIPMENT COMPANY, Chicago, Ill. Filed Feb. 11, 1944.

BALE MASTER

The word "Bale" is disclaimed apart from the mark.
FOR STATIONARY AND PICK-UP BALERS FOR BAILING AGRICULTURAL PRODUCTS AND PARTS THEREOF.
Claims use since Jan. 12, 1944.

Ser. No. 467,676. J. K. SMIT & SONS, INC., New York, N. Y. Filed Feb. 22, 1944.



HI-BIT

Applicant disclaims "Bit" apart from the mark.
FOR DIAMOND BITS.
Claims use since Jan. 1, 1944.

Ser. No. 467,677. J. K. SMIT & SONS, INC., New York, N. Y. Filed Feb. 22, 1944.



HI-BORE

Applicant disclaims "Bore" apart from the mark.
FOR DIAMOND BITS.
Claims use since Jan. 1, 1944.

Ser. No. 467,678. J. K. SMIT & SONS, INC., New York, N. Y. Filed Feb. 22, 1944.



HI-SET

Applicant disclaims "Set" apart from the mark.
FOR DIAMOND BITS.
Claims use since Jan. 1, 1944.

Ser. No. 467,743. AMERICAN SOIL PRODUCTS CO., INC., New York, N. Y. Filed Feb. 25, 1944.

EEE ZEE

FOR HAND GARDEN SEEDER CONSTRUCTED OF A SINGLE BLANK OF PAPER MATERIAL.
Claims use since Jan. 5, 1944.

Ser. No. 468,126. LANDON P. SMITH, INC., Irvington, N. J. Filed Mar. 9, 1944.

Jak-Nife

FOR HOLDERS FOR RAZOR BLADES.
Claims use since May 4, 1938.

Ser. No. 468,150. PARAGON MACHINE TOOL CORPORATION, San Leandro, Calif. Filed Mar. 10, 1944.



FOR LATHES AND HYDRAULIC POWER SAWS.
Claims use since June 29, 1942, for the word "Paragon," and since Mar. 1, 1944, for mark as shown.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 456,396. LOUIS J. KLEIN, New York, N. Y. Filed Oct. 24, 1942.

VANITY FAIR MOP - BRUSH

The term "Mop-brush" is disclaimed apart from the mark.
FOR COMBINATION FLOOR BRUSH AND MOP.
Claims use since Dec. 15, 1939.

Ser. No. 467,119. MAX BAUERNFREUND, doing business as French Powder Puff Co., New York, N. Y. Filed Feb. 3, 1944.

FANTASY

FOR POWDER PUFFS AND POWDER MITTS SOLD WITHOUT POWDER.
Claims use since Jan. 15, 1943.

Ser. No. 469,190. DIAGRAPH-BRADLEY STENCIL MACHINE CORPORATION, St. Louis, Mo. Filed Apr. 10, 1944.

D.B.

FOR FOUNTAIN BRUSHES.
Claims use since Nov. 9, 1943.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 466,405. ELECTRO-KING MFG. COMPANY, Chicago, Ill. Filed Jan. 8, 1944.



FOR AUTOMATIC STOKERS ESPECIALLY ADAPTED FOR HOUSEHOLDS, APARTMENTS, BUILDINGS, AND HOTELS.
Claims use since Dec. 1, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 444,964. EUGENE DIETZGEN CO., Chicago, Ill. Filed June 30, 1941.

Ageproof

FOR DRAFTING MATERIAL AND SUPPLIES FOR THE PRODUCTION OF DRAWINGS—NAMELY, DRAWING AND TRACING PAPER, AND PREPARED FABRIC FOR TRACING AND DRAFTING PURPOSES.
Claims use since Jan. 1, 1941.

Ser. No. 467,212. ZEPHYR AMERICAN CORP., New York, N. Y. Filed Feb. 5, 1944.

SWIVODEX

FOR DIP-TYPE WRITING SETS CONSISTING OF QUASI-BALL INK RESERVOIR AND A PEN HOLDER MOVABLY MOUNTED ON A BASE.
Claims use since Sept. 15, 1941.

Ser. No. 467,751. CAVENDISH TRADING CORPORATION, New York, N. Y. Filed Feb. 25, 1944.
Applicant is the owner of Reg. No. 349,931.

Cavendale

FOR PAPER PRODUCTS—NAMELY, BOND PAPER, WRAPPING PAPER, TYPEWRITER PAPER, PRINTING PAPER, PADS, SECOND SHEETS, ENVELOPES, INDEX CARDS, NOTE BOOKS, WRITING TABLETS, MEMO BOOKS, PLAIN AND RULED SCRATCH PADS, DECORATED LETTER PAPER FOR SOCIAL CORRESPONDENCE, AND TOILET AND CLEANSING TISSUES.
Claims use since Nov. 8, 1938.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 467,813. NATIONAL USED CAR MARKET REPORT, INC., Chicago, Ill. Filed Feb. 28, 1944.

NATIONAL USED CAR MARKET REPORT

The words "Used Car Market Report" are disclaimed apart from the mark.
FOR PERIODICAL PUBLICATIONS ISSUED FROM TIME TO TIME SHOWING THE PRICES OF USED CARS OF THE VARIOUS MAKES.
Claims use since June 4, 1915.

Ser. No. 467,848. INDEPENDENT DIRECTORY CORP., Chicago, Ill. Filed Feb. 29, 1944.

The Classified Directory
FOR INTERSTATE COMMERCE & INDUSTRY

No claim is made to the words "Directory" and "For Interstate Commerce & Industry" apart from the mark.
FOR BUSINESS AND INDUSTRIAL BUYERS GUIDE CLASSIFIED TELEPHONE DIRECTORY FOR INTERSTATE COMMERCE AND INDUSTRY.
Claims use since January 1935.

Ser. No. 468,505. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 22, 1944.

THERE'LL ALWAYS BE AN AD MAN

FOR MAGAZINE COLUMN.
Claims use since Apr. 26, 1941.

Ser. No. 468,507. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 22, 1944.

PYRRHIC VICTORY DEPARTMENT

The word "Department" is disclaimed apart from the mark.
FOR MAGAZINE COLUMN.
Claims use since Oct. 27, 1934.

Ser. No. 468,508. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 22, 1944.

OUR FORGETFUL AUTHORS

FOR MAGAZINE COLUMN.
Claims use since Mar. 28, 1942.

Ser. No. 468,509. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 22, 1944.

ANTICLIMAX DEPARTMENT

No claim is made to the word "Department" apart from the mark.
FOR MAGAZINE COLUMN.
Claims use since June 4, 1932.

Ser. No. 468,967. PACIFIC NATIONAL ADVERTISING AGENCY, Seattle, Wash. Filed Apr. 3, 1944.

the Boildown

FOR NEWS AND ADVISORY BULLETIN OF GENERAL INTEREST, PUBLISHED PERIODICALLY.
Claims use since June 1943.

CLASS 39

CLOTHING

Ser. No. 459,030. SANDLER BROS. SPECIALTIES CO., Boston, Mass. Filed Mar. 11, 1943.

ROPESTERS

FOR SHOES OF LEATHER, RUBBER, FABRIC, FIBRE, AND COMBINATIONS THEREOF.
Claims use since Jan. 8, 1943.

Ser. No. 459,588. WIMELBACHER & RICE, New York, N. Y. Filed Apr. 2, 1943.

"Snug-Ems"

No claim is made to the word "Snug" except as shown.
FOR LADIES' FABRIC GLOVES.
Claims use since Mar. 15, 1942.

Ser. No. 463,412. JAMES E. BLATCHFORD, doing business as the Blatchford Company, Altoona, Pa. Filed Sept. 15, 1943.

Park Craft

FOR WOMEN'S AND MISSES' FUR COATS, FUR SCARFS, FUR-TRIMMED COATS, FUR-LINED COATS, CLOTH COATS, CLOTH SUITS, AND FUR-TRIMMED SUITS.
Claims use since Oct. 1, 1942.

Ser. No. 468,259. JOEL ISAACS SHIRT CO., New York, N. Y. Filed Mar. 13, 1944.

El Amigo

FOR OUTER SHIRTS.
Claims use since July 2, 1942.

Ser. No. 468,504. BURNEY EPSTEIN, New York, N. Y. Filed Mar. 22, 1944.

VOGUESTER

FOR LADIES' AND MISSES' KNITTED BLOUSES AND SWEATERS.
Claims use since July 28, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 455,257. DIADEM, INC., Leominster, Mass. Filed Sept. 2, 1942.

HAIRTAINERS

FOR COIFFURE COMBS AND HAT FASTENERS.
Claims use since Aug. 17, 1942.

Ser. No. 455,258. DIADEM, INC., Leominster, Mass. Filed Sept. 2, 1942.

HAIRTAMERS

FOR COIFFURE COMBS AND HAT FASTENERS.
Claims use since Aug. 17, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 465,954. NEW PROCESS MILLS, INC., New York, N. Y. Filed Dec. 21, 1943.

Nupro

FOR TEXTILE FABRICS PREPARED FOR USE AS SHOE SOLING MATERIAL, AND FOR FLOOR COVERING; DOOR MATS AND FLOOR MATS.
Claims use since Sept. 15, 1943.

Ser. No. 466,687. THE B. V. D. CORPORATION, Baltimore, Md. Filed Jan. 19, 1944.

Limited Edition

FOR COTTON PIECE GOODS.
Claims use since Dec. 31, 1943.

Ser. No. 467,269. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Feb. 8, 1944. Under the act of Feb. 20, 1905 as amended June 10, 1938.

SANFORIZED

FOR PIECE GOODS OF COTTON, LINEN, WOOLEN, SILK, RAYON AND COMBINATIONS THEREOF, SHEETS, PILLOW CASES, PILLOW COVERS, MATTRESS COVERS, CRIB BLANKETS, CURTAINS, DRAPERIES AND SLIP COVERS.
Claims use since September 1930.

Ser. No. 467,605. EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 21, 1944.

VODKA CORD

The word "Cord" is disclaimed apart from the mark.
FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.
Claims use since Nov. 1, 1932.

Ser. No. 467,657. EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 22, 1944.

PADDOCK CHECKS

The right to the exclusive use of the word "Checks" is disclaimed apart from the mark shown on the drawing.
FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.
Claims use since Nov. 20, 1934.

Ser. No. 467,917. EVERFAST FABRICS, INC., New York, N. Y. Filed Mar. 2, 1944.

HORSE AND BUGGY CHECKS

The word "Checks" is disclaimed apart from the mark.
FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.
Claims use since Feb. 8, 1943.

Ser. No. 468,059. THE ADLER CO., Cincinnati, Ohio. Filed Mar. 8, 1944.

Frostinette

FOR KNITTED COTTON TUBING, PRIMARILY INTENDED FOR USE IN WRAPPING MEATS, FISH AND FOWL.
Claims use since Feb. 5, 1944.

CLASS 43

THREAD AND YARN

Ser. No. 468,841. HAMPTON COMPANY, Easthampton, N. Y. Filed Mar. 21, 1944.

CANDOUR

FOR YARN.
Claims use since Mar. 10, 1944.

Ser. No. 468,841. HAMPTON COMPANY, Easthampton, Mass. Filed Mar. 30, 1944.

"EmaR"

FOR PLIED YARNS.
Claims use since Feb. 14, 1944.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 466,423. C. J. BATES & SON, Chester, Conn. Filed Jan. 10, 1944.

CRYSTEEL

FOR MANICURE IMPLEMENTS—NAMELY, NAIL BRUSHES, NAIL BUFFERS, NAIL FILES, NAIL CLIPPERS, CUTICLE KNIVES, SCISSORS, MANICURE STICKS, TWEEZERS, EMERY BOARDS, PUMICE BOARDS, AND NAIL POLISHERS.
Claims use since October 1937.

Ser. No. 466,424. C. J. BATES & SON, Chester, Conn. Filed Jan. 10, 1944.

CRYSTELLE

FOR MANICURE IMPLEMENTS—NAMELY, NAIL BRUSHES, NAIL BUFFERS, NAIL FILES, NAIL CLIPPERS, CUTICLE KNIVES, SCISSORS, MANICURE STICKS, TWEEZERS, EMERY BOARDS, PUMICE BOARDS, AND NAIL POLISHERS.
Claims use since Nov. 2, 1943.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 468,348. OLD FASHION MA'S ROOT BEER BOTTLING COMPANY, Wilkes-Barre, Pa. Filed Mar. 16, 1944.

Old Fashion
Ma's
ROOT BEER

No claim is made to the words "Old Fashion" and "Root Beer" except as shown.
FOR ROOT BEER AND SYRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Jan. 9, 1940, for "Ma's" and since Mar. 20, 1941, for mark as a whole.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 443,897. STRATHMORE CO-OPERATIVE ASSOCIATION, Strathmore, Calif. Filed May 24, 1941.



No claim is made to the word "Brand."
FOR FRESH CITRUS FRUITS.
Claims use since 1921.

Ser. No. 466,440. GENERAL MILLS, INC., Minneapolis, Minn. Filed Jan. 10, 1944.

CORNQUICK

Applicant is the owner of trade-mark registrations Nos. 289,319 "Bisquick"; 295,373 "Panquick"; 295,845 "Crusquick", and 303,250 "Caquick."
FOR MUFFIN MIX.
Claims use since Dec. 31, 1943.

Ser. No. 466,441. GENERAL MILLS, INC., Minneapolis, Minn. Filed Jan. 10, 1944.

SOYQUICK

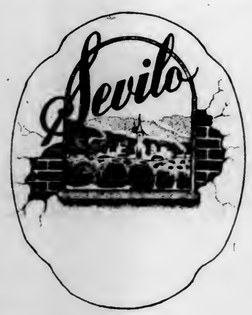
Applicant is the owner of trade-mark registrations Nos. 289,319 "Bisquick"; 295,373 "Panquick"; 295,845 "Crusquick", and 303,250 "Caquick."
FOR PANCAKE AND WAFFLE MIX.
Claims use since Dec. 31, 1943.

Ser. No. 466,471. JIM WATKINS & SONS, Aptos, Calif. Filed Jan. 10, 1944.



No claim is made to the representation of the label apart from the mark.
FOR FRESH VEGETABLES—NAMELY, CAULIFLOWER, PEAS, BEANS, AND TOMATOES.
Claims use since Dec. 10, 1943.

Ser. No. 467,068. L. S. HUNN, doing business as L. S. Hunn Packing Co., Woodlake, Calif. Filed Feb. 1, 1944.



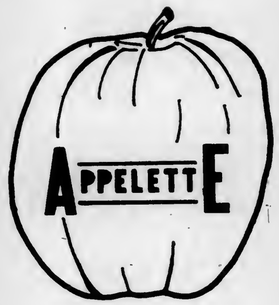
FOR CANNED OLIVES.
Claims use since Jan. 14, 1944.

Ser. No. 467,450. GENERAL MILLS, INC., Minneapolis, Minn. Filed Feb. 16, 1944.



Applicant is the owner of trade-mark registration No. 358,567 which includes "General Mills, Inc."
FOR WHEAT FLOUR.
Claims use since July 1941.

Ser. No. 467,456. ALOYS HOFFMANN, Albuquerque, N. Mex. Filed Feb. 16, 1944.



No claim is made to the representation of the apple apart from the mark.
FOR FROZEN CONFECTIONS.
Claims use since Nov. 17, 1943.

Ser. No. 468,168. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Mar. 10, 1944.

STANODEX

FOR MIXTURE CONSISTING ESSENTIALLY OF MALTOSE SUGARS AND SOLUBLE DEXTRINE ADAPTED FOR USE AS A FOOD OR INGREDIENT OF FOODS FOR INFANTS OR OTHERS.
Claims use since Feb. 21, 1944.

Ser. No. 468,335. BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed Mar. 16, 1944.

MAGIC TOUCH

Applicant is the owner of trade-mark registration No. 397,798, registered September 22, 1942.
FOR SOYA-CREAM SALAD DRESSING, GARLIC SAUCE, WORCESTERSHIRE SAUCE, ONION SAUCE, STEAK SAUCE, BARBEQUE SAUCE, GRAVY SAUCE, HOT PEPPER SAUCE, AND SOYA SALAD SAUCE.
Claims use since Nov. 14, 1943, on salad dressing; since Jan. 13, 1944, on all sauces.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 467,683. WOLFE & MANN DEVICE CO., Baltimore, Md. Filed Feb. 22, 1944.

SILHO-ETCH

The word "Etch" is disclaimed apart from the mark.
FOR ETCHED PLAQUE OF PLASTIC MATERIAL USED AS A SIGN AND FOR DECORATIVE PURPOSES.
Claims use since Jan. 22, 1944.

Ser. No. 468,532. THEODORE MOSS COMPANY, Brooklyn, N. Y. Filed Mar. 22, 1944.

MOSSTYPES

FOR RUBBER PRINTING PLATES AND DIES, AND PLASTIC PRINTING PLATES.
Claims use since August 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 23, 1944

407,149. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed August 4, 1939. Serial No. 422,287. PUBLISHED MARCH 7, 1944. Class 40.

407,150. TAMPONS. THE PERSONAL PRODUCTS CORPORATION, New Brunswick, N. J.
Filed June 25, 1940 Serial No. 433,360. PUBLISHED AUGUST 6, 1940. Class 44.

407,151. JELLY, MARMALADE, FRUIT PRESERVES, CANNED APRICOTS, FRESH FRUIT—NAMELY, FRESH APRICOTS, DRIED FRUIT, AND DRIED APRICOTS. BENNETT RUSSELL, Yakima, Wash.
Filed July 30, 1941. Serial No. 445,781. PUBLISHED MARCH 14, 1944. Class 46.

407,152. HYDRAULIC PUMPS AND PUMPING UNITS, HYDRAULIC CONTROL ASSEMBLIES FOR MACHINE CONTROL CIRCUITS, AND HYDRAULIC MOTORS. VICKERS, INCORPORATED, Detroit, Mich.
Filed September 5, 1941. Serial No. 446,819. PUBLISHED FEBRUARY 23, 1943. Class 23.

407,153. MEN'S HATS. DALTON HAT COMPANY, Yonkers, N. Y.
Filed November 5, 1941. Serial No. 448,409. PUBLISHED FEBRUARY 3, 1942. Class 39.

407,154. SOUP MIX. JOSEPH TETLEY & CO., INC., New York, N. Y.
Filed December 8, 1942. Serial No 457,289. PUBLISHED MARCH 14, 1944. Class 46.

407,155. MIXING EQUIPMENT INCLUDING IMPELLERS OPERATED BY STEAM AND AIR PRESSURE MOTORS AND ARRANGED FOR ATTACHMENT TO TANKS AND CONTAINERS FOR AGITATING, MIXING, AND BLENDING FLUID MATERIALS CONTAINED THEREIN. MIXING EQUIPMENT CO., INC., Rochester, N. Y.
Filed January 8, 1943. Serial No. 457,812. PUBLISHED MARCH 7, 1944. Class 23.

407,156. PREPARED MUSTARD, PREPARED MUSTARD, SALAD STYLE, PREPARED MUSTARD, METROPOLITAN STYLE. GLASER, CRANDELL CO., Chicago, Ill.
Filed January 14, 1943. Serial No. 457,912. PUBLISHED MARCH 14, 1944. Class 46.

407,157. PRINTING, LITHOGRAPHING, DIE-STAMPING, PLATE-PRINTING INKS, AND INK-ADJUSTING COMPOUNDS. SLEIGHT METALLIC INK COMPANY OF PENNSYLVANIA, INC., Philadelphia, Pa.
Filed January 18, 1943. Serial No. 457,999. PUBLISHED MARCH 14, 1944. Class 11.

407,158. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. WILLYS-OVERLAND MOTORS, INC., Toledo, Ohio.
Filed February 19, 1943. Serial No. 458,643. PUBLISHED MARCH 14, 1944. Class 19.

407,159. MOCCASINS AND SHOES MADE OF CLOTH, LEATHER, AND COMBINATIONS THEREOF FOR MEN, WOMEN, AND CHILDREN. ARNOLD ELKIND, Albany, N. Y.
Filed March 2, 1943. Serial No. 456,861; PUBLISHED FEBRUARY 29, 1944. Class 39.

407,160. SHOES MADE OF LEATHER, FABRIC, OR RUBBER, OR OF COMBINATIONS OF SAID MATERIALS. FRANK BROTHERS FOOTWEAR, INC., New York, N. Y.
Filed March 15, 1943. Serial No. 459,110. PUBLISHED FEBRUARY 15, 1944. Class 39.

407,161. HOSIERY. HARRIMAN HOSIERY MILLS, Harriman, Tenn.
Filed May 6, 1943. Serial No. 460,447. PUBLISHED MARCH 14, 1944. Class 39.

407,162. HIGH MOLECULAR WEIGHT AND HIGH BOILING C_7 TO C_{14} MERCAPTAN MIXTURE USED AS AN ACCELERATOR AND MODIFIER IN THE MANUFACTURE OF SYNTHETIC RUBBER. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed May 17, 1943. Serial No. 460,677. PUBLISHED MARCH 7, 1944. Class 6.

407,163. MEDICINE—NAMELY, A CHOLAGOGUE AND MILD LAXATIVE USEFUL IN THE TREATMENT OF SUCH CONDITIONS AS CHOLECYSTITIS, CHOLANGITIS, CHOLELITHIASIS, CATARRHAL ICTERUS, DYSPEPTIC FORMS OF CHRONIC CHOLECYSTITIS, TEMPORARY CONSTIPATION, AND THE LIKE. GEORG GLASGALL, New York, N. Y.
Filed May 21, 1943. Serial No. 460,798. PUBLISHED MARCH 7, 1944. Class 6.

407,164. INFANTS' PANTS. HOLLAND-RANTOS CO., INC., New York, N. Y.
Filed May 22, 1943. Serial No. 460,841. PUBLISHED FEBRUARY 15, 1944. Class 39.

407,165. COMPOUND FOR WATERPROOFING AND PRESERVING LEATHER. JACOB C. SCHACHET, doing business as The Tinctorial Co., Denver, Colo.
Filed May 27, 1943. Serial No. 460,968. PUBLISHED MARCH 14, 1944. Class 4.

407,166. LADIES' HATS. ANITA ANDRA, New York, N. Y.
Filed June 7, 1943. Serial No. 461,189. PUBLISHED FEBRUARY 29, 1944. Class 39.

407,167. SHOES AND SLIPPERS MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. COBBLERS, INC., Los Angeles, Calif.
Filed June 12, 1943. Serial No. 461,339. PUBLISHED MARCH 7, 1944. Class 39.

407,168. MACHINES FOR SECURING OR SWEDGING SCREWS ON SPECTACLE FRAMES AND MOUNTINGS AND FOR BURRS AND CHUCKS FOR USE ON SUCH MACHINES AND CONSTITUTING PARTS THEREOF. COSMET CORPORATION, Minneapolis, Minn.
Filed June 26, 1943. Serial No. 461,681. PUBLISHED MARCH 7, 1944. Class 23.

407,169. LAWN MOWERS. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo.
Filed July 21, 1943. Serial No. 462,217. PUBLISHED MARCH 7, 1944. Class 23.

407,170. POPPET VALVES, MACHINERY BUSHINGS, WATER PUMP PARTS, PUMP SHAFTS, PUMP IMPELLERS, INTERNAL COMBUSTION ENGINE PISTONS, ETC. THE TOLEDO STEEL PRODUCTS COMPANY, Toledo, Ohio.
Filed August 12, 1943. Serial No. 462,693. PUBLISHED MARCH 7, 1944. Class 23.

407,171. SALT. NEW JERSEY ITALIAN FOOD PRODUCTS CO., Newark, N. J.
Filed August 17, 1943. Serial No. 462,800. PUBLISHED MARCH 14, 1944. Class 46.

407,172. REFRACTORY CEMENTS, RAMMING MIXES, BRICKS, AND BLOCKS. THE CHAS. TAYLOR SONS CO., Cincinnati, Ohio.
Filed September 6, 1943. Serial No. 463,254. PUBLISHED MARCH 14, 1944. Class 12.

407,173. REFRACTORY CEMENTS, RAMMING MIXES, BRICKS, AND BLOCKS. THE CHAS. TAYLOR SONS CO., Cincinnati, Ohio.
Filed September 6, 1943. Serial No. 463,255. PUBLISHED MARCH 14, 1944. Class 12.

407,174. PIECE GOODS MADE OF A MIXTURE OF RAYON AND PROTEIN FIBRES. SEA ISLAND MILLS, INC., New York, N. Y.
Filed September 10, 1943. Serial No. 463,332. PUBLISHED MARCH 7, 1944. Class 42.

407,175. TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, WOOL, PROTEIN FIBRES AND COMBINATIONS THEREOF. MERGER FABRICS, New York, N. Y.
Filed September 25, 1943. Serial No. 463,650. PUBLISHED FEBRUARY 15, 1944. Class 42.

407,176. ELECTRONIC CONTROL APPARATUS FOR CONTROL OF INDUCTION MOTORS. WILLARD C. ROBINETTE, doing business as W. C. Robinette Company, South Pasadena, Calif.
Filed September 27, 1943. Serial No. 463,709. PUBLISHED MARCH 14, 1944. Class 21.

407,177. SURGICAL DRESSINGS. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed September 28, 1943. Serial No. 463,736. PUBLISHED NOVEMBER 30, 1943. Class 44.

407,178. NECKTIES. M & W THOMAS CO., New York, N. Y.
Filed October 2, 1943. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 463,843. PUBLISHED DECEMBER 7, 1943. Class 39.

407,179. HAIR POMADES, HAIR OIL SHAMPOOS, PREPARATIONS FOR STRAIGHTENING, CURLING, AND SLEEKING THE HAIR, AND HAIR CURL-UPS, THE LATTER BEING A HAIR DRESSING PREPARATION FOR APPLICATION TO FACILITATE MARCELLING OR CURLING THE HAIR. MARBERT MFG. CO., Chicago, Ill.
Filed October 4, 1943. Serial No. 463,873. PUBLISHED MARCH 7, 1944. Class 6.

407,180. ALLOY MOLD STEEL IN THE FORM OF WIRE, STRIPS, BARS, BILLETS, AND SHAPES. THE CARPENTER STEEL COMPANY, Reading, Pa.
Filed October 6, 1943. Serial No. 463,928. PUBLISHED MARCH 14, 1944. Class 14.

407,181. HYDRAULICALLY OPERATED WHEELED HAULING TRAILER SCRAPER. WENTZ EQUIPMENT COMPANY, Topeka, Kans.
Filed October 13, 1943. Serial No. 464,124. PUBLISHED MARCH 7, 1944. Class 23.

407,182. MEN'S AND BOYS' CAPS. NATHAN PRINCE, doing business as Princeform Cap Co., New York, N. Y.
Filed October 14, 1943. Serial No. 464,143. PUBLISHED JANUARY 18, 1944. Class 39.

407,183. CHOCOLATES. MILLER & HOLLIS, INC., Boston, Mass.
Filed October 15, 1943. Serial No. 464,179. PUBLISHED DECEMBER 28, 1943. Class 46.

407,184. HAND-WOVEN BLANKETS AND RUGS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed October 12, 1943. Serial No. 464,260. PUBLISHED FEBRUARY 15, 1944. Class 42.

407,185. APRONS AND COSTUMES. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed October 12, 1943. Serial No. 464,262. PUBLISHED FEBRUARY 22, 1944. Class 39.

407,186. LADIES' BRASSIÈRES, GIRDLES, GARTER BELTS, SLIPS, PANTIES, GARTERS, AND HOSE SUPPORTERS. GEM-DANDY, INC., Madison, N. C.
Filed October 22, 1943. Serial No. 464,337. PUBLISHED JANUARY 18, 1944. Class 39.

407,187. HOLDER FOR HABIT FORMING CHARTS IN THE NATURE OF AN ANIMAL CUT OUT OF SHEET MATERIAL AND HAVING A FABRIC TAIL. GLADYS BALES, doing business as The G. Bales Company, Kansas City, Mo.
Filed October 25, 1943. Serial No. 464,387. PUBLISHED MARCH 14, 1944. Class 50.

407,188. DRAINED FRUITS, PRESERVED FRUITS, AND CRUSHED PRESERVED FRUITS FOR ICE CREAM MANUFACTURERS AND SODA FOUNTAINS, MARASCHINO CHERRIES BOTH BOTTLED AND IN BULK, CHOCOLATE SYRUPS FOR FOOD PURPOSES, NUT MEATS IN SYRUP FOR FOOD PURPOSES, MINCE MEAT, AND MARSHMALLOW TOPPING. THE C. M. PITT & SONS COMPANY, Baltimore, Md.
Filed October 26, 1943. Serial No. 464,419. PUBLISHED MARCH 14, 1944. Class 46.

407,189. NATURAL FLOWERS AND PLANTS. FLORISTS' TELEGRAPH DELIVERY ASSOCIATION, Detroit, Mich.
Filed October 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 464,434. PUBLISHED MARCH 14, 1944. Class 1.

407,190. SHOES MADE OF RUBBER, LEATHER, AND/OR FABRIC. THE FASHION BOOTERY, Seattle, Wash.
Filed October 28, 1943. Serial No. 464,478. PUBLISHED FEBRUARY 22, 1944. Class 39.

407,191. CANDY. LAFOND CANDY KITCHEN, INC., New York, N. Y.
Filed November 2, 1943. Serial No. 464,614. PUBLISHED MARCH 14, 1944. Class 46.

407,192. CHEMICALLY TREATED WIPING PADS FOR CLEANING AND PRESERVING PHONOGRAPH RECORDS. ADOLPH E. GROSS, doing business as The Recordit Company, St. Louis, Mo.
Filed November 3, 1943. Serial No. 464,650. PUBLISHED MARCH 14, 1944. Class 4.

407,193. FLUXES FOR SOLDERING AND WELDING METALS. W. D. CRUMPTON & Co., Englewood, N. J.
Filed November 4, 1943. Serial No. 464,691. PUBLISHED MARCH 7, 1944. Class 6.

407,194. WINCHES, HOISTS, CRANES, CRANE AND TRUCK UNITS, TOWING ARCHES (I. E., MACHINES IN THE NATURE OF TRACTOR TRAILERS WHICH DRAG LOGS AND OTHER OBJECTS WITH THE AID OF ROPES OR CABLES), ETC. WILLAMETTE HYSTER COMPANY, Portland, Oreg.
Filed November 8, 1943. Serial No. 464,837. PUBLISHED MARCH 7, 1944. Class 23.

407,195. WINCHES, HOISTS, CRANES, CRANE AND TRUCK UNITS (I. E., MACHINES THAT COMPRISE A CRANE MOUNTED ON A TRUCK BODY, THE CRANE AND TRUCK BEING OPERATED BY A COMMON POWER PLANT), ETC. WILLAMETTE HYSTER COMPANY, Portland, Oreg.
Filed November 8, 1943. Serial No. 464,838. PUBLISHED MARCH 7, 1944. Class 23.

407,196. LUMBER CARRIERS (I. E., MACHINES WHICH ARE USED TO LIFT, TRANSPORT, AND DEPOSIT PILED LUMBER), AND LIFT TRUCKS (I. E., SELF-PROPELLED MACHINES EQUIPPED WITH LIFTING MECHANISMS WHICH ARE USED TO PICK UP, TRANSPORT, AND DEPOSIT OBJECTS AND PILES OF OBJECTS ENGAGED BY SUCH LIFTING MECHANISMS). WILLAMETTE HYSTER COMPANY, Portland, Oreg.
Filed November 8, 1943. Serial No. 464,839. PUBLISHED MARCH 7, 1944. Class 23.

407,197. LADIES' AND MISSES' SHOES MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITIONS OR COMBINATIONS THEREOF. CARMO SHOE MANUFACTURING COMPANY, Carthage, Mo.
Filed November 10, 1943. Serial No. 464,875. PUBLISHED FEBRUARY 1, 1944. Class 39.

407,198. ELECTRONIC TUBES, INCANDESCENT ELECTRIC LAMPS, ELECTRIC HEAD LAMPS FOR AUTOMOBILES, AND ELECTRIC FLASHERS. TUNG-SOL LAMP WORKS, INC., Newark, N. J.
Filed November 15, 1943. Serial No. 465,015. PUBLISHED MARCH 14, 1944. Class 21.

407,199. HAIR NETS OF THE TYPE KNOWN AS VEIL NETS. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed November 16, 1943. Serial No. 465,022. PUBLISHED MARCH 14, 1944. Class 39.

407,200. HAIR NETS. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed November 16, 1943. Serial No. 465,024. PUBLISHED FEBRUARY 15, 1944. Class 39.

407,201. HAIR NETS OF THE TYPE KNOWN AS VEIL NETS. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed November 16, 1943. Serial No. 465,025. PUBLISHED MARCH 14, 1944. Class 39.

407,202. HAIR NETS OF THE TYPE KNOWN AS VEIL NETS. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed November 16, 1943. Serial No. 465,026. PUBLISHED MARCH 14, 1944. Class 39.

407,203. MAGNESITE CEMENT FLOORING. GEORGE J. DONALDSON, doing business as Donaldson Floor Company, Rockford, Ill.
Filed November 17, 1943. Serial No. 465,065. PUBLISHED MARCH 14, 1944. Class 12.

407,204. PAPER PRODUCTS—NAMELY, TOILET SEAT COVERS AND TOILET PAPER, PAPER NAPKINS AND TABLECLOTHS, PAPER TOWELS AND CELLUCOTTON PRODUCTS—NAMELY, SHEETS OF CREPE AND TISSUE CELLUCOTTON USED FOR WRAPPING AND PACKAGING. INTERLAKE TISSUE MILLS CO. LIMITED, Toronto, Ontario, Canada.
Filed November 17, 1943. Serial No. 465,070. PUBLISHED MARCH 14, 1944. Class 37.

407,205. HATS AND CAPS FOR MEN, WOMEN AND CHILDREN. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed November 22, 1943. Serial No. 465,215. PUBLISHED FEBRUARY 15, 1944. Class 39.

407,206. SILK, RAYON, COTTON, LINEN, AND WOOL PIECE GOODS. RUDOLF C. KIRCHHOFF, Hollywood, Calif.
Filed November 23, 1943. Serial No. 465,229. PUBLISHED MARCH 7, 1944. Class 42.

407,207. WOOLEN PIECE GOODS. FORSTMANN WOOLEN CO., Passaic, N. J.
Filed November 24, 1943. Serial No. 465,256. PUBLISHED FEBRUARY 29, 1944. Class 42.

407,208. AUTOMATIC IMMERSION APPARATUS USED IN THE PREPARATION OF HISTOLOGICAL SPECIMENS. THE TECHNICON CO., New York, N. Y.
Filed November 25, 1943. Serial No. 465,302. PUBLISHED MARCH 14, 1944. Class 26.

407,209. MEN'S HATS. BYER-ROLNICK COMPANY, Garland, Tex.
Filed November 26, 1943. Serial No. 465,315. PUBLISHED FEBRUARY 22, 1944. Class 39.

407,210. MEN'S HATS. BYER-ROLNICK COMPANY, Garland, Tex.
Filed November 26, 1943. Serial No. 465,316. PUBLISHED FEBRUARY 22, 1944. Class 39.

407,211. PUMPS FOR PROPORTIONALLY FEEDING REAGENTS. PROPORTIONEERS, INC., Providence, R. I.
Filed November 27, 1943. Serial No. 465,348. PUBLISHED MARCH 7, 1944. Class 23.

407,212. TAPE FOR USE AS A FOUNDATION FOR ZIPPER FASTENERS. KROUT & FITE MANUFACTURING COMPANY, Philadelphia, Pa.
Filed November 30, 1943. Serial No. 465,395. PUBLISHED MARCH 14, 1944. Class 40.

407,213. SHEETS, PILLOWCASES, BEDSPREADS, BLANKETS, QUILTS, CURTAINS, COMFORTERS, MATTRESS PADS, MATTRESS COVERS AND QUILT COVERS, AND UPHOLSTERY FABRICS IN THE PIECE, AND PIECE GOODS OF COTTON, WOOL, LINEN, SILK AND RAYON, AND/OR MIXTURES THEREOF. SLEEPMASTER PRODUCTS COMPANY, INC., Newark, N. J.
Filed December 2, 1943. Serial No. 465,468. PUBLISHED MARCH 7, 1944. Class 42.

407,214. HAIR NETS OF THE TYPE KNOWN AS VEIL NETS. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed December 3, 1943. Serial No. 465,476. PUBLISHED MARCH 14, 1944. Class 39.

407,215. BUFFING AND POLISHING COMPOSITIONS USED ON METAL, GLASS, PLASTICS, ENAMEL, AND OTHER HARD SURFACES. THE MATCHLESS METAL POLISH COMPANY, Chicago, Ill., and Glen Ridge, N. J.
Filed December 8, 1943. Serial No. 465,630. PUBLISHED MARCH 14, 1944. Class 4.

407,216. COAL. OLD BEN COAL CORPORATION, Chicago, Ill.
Filed December 11, 1943. Serial No. 465,718. PUBLISHED MARCH 14, 1944. Class 1.

407,217. CRUDE WAX AND WAX BLENDS TO BE USED FOR VARIOUS PURPOSES IN THE INDUSTRIAL ARTS. DISTRIBUTING AND TRADING COMPANY, New York, N. Y.
Filed December 14, 1943. Serial No. 465,753. PUBLISHED MARCH 14, 1944. Class 1.

407,218. FABRICS IN THE PIECE MADE OF RAYON AND COTTON. PONDEL FABRICS, INC., Pawtucket, R. I.
Filed December 15, 1943. Serial No. 465,784. PUBLISHED FEBRUARY 29, 1944. Class 42.

407,219. CHEMICAL PRODUCT USED IN WATER TREATING FOR SCALE AND CORROSION CONTROL. D. W. HAERING & CO. INC., Chicago, Ill.
Filed December 16, 1943. Serial No. 465,804. PUBLISHED MARCH 7, 1944. Class 6.

407,220. SOLUBLE PINE OIL DISINFECTANT. SUPERL SUPPLY CO., INC., doing business as Easterday Supply Co., Los Angeles, Calif.
Filed December 16, 1943. Serial No. 465,834. PUBLISHED MARCH 7, 1944. Class 6.

407,221. CANDY. ADAMS CANDY COMPANY, Dallas, Tex.
Filed December 18, 1943. Serial No. 465,855. PUBLISHED MARCH 14, 1944. Class 46.

407,222. MEDICINAL MALT EXTRACT. THE MALTINE COMPANY, New York, N. Y.
Filed December 18, 1943. Serial No. 465,872. PUBLISHED MARCH 7, 1944. Class 6.

407,223. CHEESE. SPRING GREEN CREAMERY AND CHEESE INDUSTRY, INC., Spring Green, Wis.
Filed December 18, 1943. Serial No. 465,877. PUBLISHED MARCH 14, 1944. Class 46.

407,224. CHEESE. SPRING GREEN CREAMERY AND CHEESE INDUSTRY, INC., Spring Green, Wis.
Filed December 18, 1943. Serial No. 465,878. PUBLISHED MARCH 14, 1944. Class 46.

407,225. TILLAGE IMPLEMENTS OF THE STRAIGHT BLADE TYPE. CHENEY WEEDER COMPANY, Cheney, Wash.
Filed December 20, 1943. Serial No. 465,892. PUBLISHED MARCH 7, 1944. Class 23.

407,226. VITAMIN CAPSULES AND TABLETS. EVRON COMPANY, Chicago, Ill.
Filed December 20, 1943. Serial No. 465,898. PUBLISHED MARCH 7, 1944. Class 6.

407,227. DRY MOPS AND DUSTERS EACH FORMED OF FABRIC STITCHED TO ENVELOP A BROOM OR THE LIKE. GLENCO PRODUCTS CO., University City, Mo.
Filed December 20, 1943. Serial No. 465,917. PUBLISHED MARCH 14, 1944. Class 29.

407,228. THERMO-SETTING PLASTIC KNOBS FOR RADIO RECEIVING SETS. CROWE NAME PLATE & MANUFACTURING CO., Chicago, Ill.
Filed December 22, 1943. Serial No. 465,977. PUBLISHED MARCH 14, 1944. Class 21.

407,229. ESCUTCHEONS FOR RADIO INSTRUMENTS MADE OF EMBOSSED SHEET PLASTICS. CROWE NAME PLATE & MANUFACTURING CO., Chicago, Ill.
Filed December 22, 1943. Serial No. 465,978. PUBLISHED MARCH 14, 1944. Class 21.

407,230. TUNING UNITS AND ESCUTCHEONS FOR RADIO RECEIVING SETS. CROWE NAME PLATE & MANUFACTURING CO., Chicago, Ill.
Filed December 22, 1943. Serial No. 465,979. PUBLISHED MARCH 14, 1944. Class 21.

407,231. CHEMICAL COMPOUND FOR USE IN NATURAL OR SYNTHETIC RUBBER TO ACTIVATE VULCANIZATION ACCELERATORS. J. M. HUBER, INC., New York, N. Y.
Filed December 22, 1943. Serial No. 465,986. PUBLISHED MARCH 7, 1944. Class 6.

407,232. WHEEL AND TOOL FORMERS. W. F. MEYERS COMPANY, Bedford, Ind.
Filed December 22, 1943. Serial No. 465,989. PUBLISHED MARCH 7, 1944. Class 23.

407,233. LADIES' AND MISSES' SHOES, MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITIONS AND COMBINATIONS THEREOF. AVON SHOE CO. INC., New York, N. Y.
Filed December 23, 1943. Serial No. 465,998. PUBLISHED MARCH 7, 1944. Class 39.

407,234. FRESH VEGETABLES—NAMELY, FRESH TOMATOES. NICK GOTSIS, Nogales, Ariz.
Filed December 27, 1943. Serial No. 466,077. PUBLISHED MARCH 14, 1944. Class 46.

407,235. FRESH VEGETABLES. F. H. HOGUE COMPANY, Yuma, Ariz.
Filed December 27, 1943. Serial No. 466,079. PUBLISHED MARCH 14, 1944. Class 46.

407,236. VENDING MACHINES. THE HOSPITAL SPECIALTY COMPANY, Cleveland, Ohio.
Filed December 27, 1943. Serial No. 466,082. PUBLISHED MARCH 7, 1944. Class 23.

407,237. MANGANESE AND STEEL AND ROUGH AND PARTLY FINISHED MANGANESE, AND STEEL CASTINGS. KENSINGTON STEEL COMPANY, Chicago, Ill.
Filed December 27, 1943. Serial No. 466,090. PUBLISHED MARCH 14, 1944. Class 14.

407,238. GEARS, PINIONS, MIXER ARMS, MIXER ARM TIPS, LINER PLATES, AND PRESSURE PLATES FOR ASPHALT MIXERS, ETC. KENSINGTON STEEL COMPANY, Chicago, Ill.
Filed December 27, 1943. Serial No. 466,091. PUBLISHED MARCH 7, 1944. Class 23.

407,239. HANDKERCHIEFS AND HAIR NETS. ISAAC I. MARRUS, New York, N. Y.
Filed December 27, 1943. Serial No. 466,092. PUBLISHED MARCH 7, 1944. Class 39.

407,240. DISINFECTANT. RALSTON PURINA COMPANY, St. Louis, Mo.
Filed December 27, 1943. Serial No. 466,105. PUBLISHED MARCH 7, 1944. Class 6.

407,241. VITAMINIC COMPOSITION IN TABLET FORM. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed December 27, 1943. Serial No. 466,109. PUBLISHED MARCH 7, 1944. Class 6.

407,242. MISSES' AND WOMEN'S DRESSES, COATS, SUITS AND HATS. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed November 18, 1943. Serial No. 465,119. PUBLISHED FEBRUARY 22, 1944. Class 39.

407,243. EAU DE COLOGNE. PINAUD, INCORPORATED, New York, N. Y.
Filed December 28, 1943. Serial No. 466,122. PUBLISHED MARCH 7, 1944. Class 6.

407,244. EAU DE COLOGNE. PINAUD, INCORPORATED, New York, N. Y.
Filed December 28, 1943. Serial No. 466,123. PUBLISHED MARCH 7, 1944. Class 6.

407,245. EAU DE COLOGNE. PINAUD, INCORPORATED, New York, N. Y.
Filed December 28, 1943. Serial No. 466,125. PUBLISHED MARCH 7, 1944. Class 6.

407,246. COTTON AND RAYON CLOTH WITH WATER-REPELLENT FINISH IN THE PIECE. MILTON C. BLUM, INC., New York, N. Y.
Filed December 29, 1943. Serial No. 466,141. PUBLISHED FEBRUARY 29, 1944. Class 42.

407,247. COTTON PIECE GOODS. CARNAC COTTONS, INC., New York, N. Y., now by change of name Carnac, Inc.
Filed December 29, 1943. Serial No. 466,145. PUBLISHED MARCH 7, 1944. Class 42.

407,248. WOOLEN PIECE GOODS. BOTANY WORSTED MILLS, Passaic, N. J.
Filed December 29, 1943. Serial No. 466,142. PUBLISHED MARCH 14, 1944. Class 42.

407,249. SOAP AND POLISHING POWDER FOR CLEANING SMOOTH SURFACES SUCH AS METAL, PORCELAIN, PAINT, AND TILE. JOHN T. STANLEY CO., INC., New York, N. Y.
Filed December 29, 1943. Serial No. 466,179. PUBLISHED MARCH 14, 1944. Class 4.

407,250. COMBS AND HAIR CURLERS MADE OF PLASTIC MATERIAL. FOSTER GRANT CO. INC., Leominster, Mass.
Filed December 30, 1943. Serial No. 466,196. PUBLISHED MARCH 7, 1944. Class 40.

407,251. PAJAMAS FOR MEN AND BOYS. W. T. GRANT COMPANY, New York, N. Y.
Filed December 31, 1943. Serial No. 466,216. PUBLISHED MARCH 14, 1944. Class 39.

407,252. FLAKED DRIED BANANAS. KANNENGIESSER & COMPANY, New York, N. Y.
Filed December 31, 1943. Serial No. 466,223. PUBLISHED MARCH 14, 1944. Class 46.

407,253. CANNED VEGETABLES AND TOMATO PASTE. PRODUCER-CANNERS' COOPERATIVE, INC., North Collins, N. Y.
Filed January 4, 1944. Serial No. 466,310. PUBLISHED MARCH 14, 1944. Class 46.

407,254. WHEELED GARDEN SEEDER. WILLIAM R. SHUFELT, North Chatham, N. Y.
Filed January 4, 1944. Serial No. 466,312. PUBLISHED MARCH 7, 1944. Class 23.

407,255. TOBACCO POUCHES. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,389. PUBLISHED MARCH 14, 1944. Class 8.

407,256. NECKTIES AND LEATHER BELTS (PLAIN LEATHER, AND LEATHER ORNAMENTED WITH SILVER OR ORNAMENTED WITH SILVER AND TURQUOISE, OR OTHER TRIMMING) FOR PERSONAL WEAR. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,393. PUBLISHED MARCH 14, 1944. Class 39.

407,257. PILLOW TOPS OF HAND-WOVEN MATERIAL. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,394. PUBLISHED MARCH 14, 1944. Class 40.

407,258. OPHTHALMIC MOUNTINGS. BAY STATE OPTICAL COMPANY, Attleboro, Mass.
Filed January 8, 1944. Serial No. 466,399. PUBLISHED MARCH 14, 1944. Class 26.

407,259. FRESH VEGETABLES. CALIFORNIA FARM PRODUCTS COMPANY, Salinas, Calif.
Filed January 10, 1944. Serial No. 466,427. PUBLISHED MARCH 14, 1944. Class 46.

407,260. MEN'S AND YOUNG MEN'S OUTER CLOTHING—NAMELY, SUITS AND OVERCOATS. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed January 10, 1944. Serial No. 466,444. PUBLISHED MARCH 14, 1944. Class 39.

407,261. WOMEN'S COATS AND SUITS. MIKE SCHULMAN INC., New York, N. Y.
Filed January 10, 1944. Serial No. 466,461. PUBLISHED MARCH 14, 1944. Class 39.

407,262. MEN'S AND BOYS' SPORT SHIRTS. SEMINOLE MANUFACTURING COMPANY, Columbus, Miss.
Filed January 10, 1944. Serial No. 466,462. PUBLISHED MARCH 14, 1944. Class 39.

407,263. COTTON PATCHWORK WALL HANGINGS AND WINDOW HANGINGS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 11, 1944. Serial No. 466,497. PUBLISHED MARCH 14, 1944. Class 42.

407,264. CANDY. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa.
Filed January 14, 1944. Serial No. 466,599. PUBLISHED MARCH 14, 1944. Class 46.

407,265. FRESH VEGETABLES. RUDY HINDS & COMPANY, Phoenix, Ariz.
Filed January 17, 1944. Serial No. 466,650. PUBLISHED MARCH 14, 1944. Class 46.

407,266. DOG FOOD. HARRY J. THEOBALD, doing business as The Theobald Industries, Kearny, N. J.
Filed January 20, 1944. Serial No. 466,750. PUBLISHED MARCH 14, 1944. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,267. (CLASS 38. PRINTS AND PUBLICATIONS.) HOTEL AND RESTAURANT EMPLOYEES' INTERNATIONAL ALLIANCE AND BARTENDERS' INTERNATIONAL LEAGUE OF AMERICA, Cincinnati, Ohio. Filed Apr. 15, 1941, Serial No. 442,595.

CATERING INDUSTRY EMPLOYEE

FOR PERIODICAL PUBLICATION.
Claims use since October 1929.

407,268. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TUFF-HARD CORPORATION, Detroit, Mich. Filed Mar. 23, 1942. Serial No. 451,860.

TUFF-HARD

FOR MACHINE TOOLS, TOOL BITS, CUTTING TOOLS—NAMELY, METAL, WOOD, AND PLASTIC CUTTING TOOLS, FORM TOOLS, DRILLS, REAMERS, HOBBING CUTTERS, PUNCHES, ROUGHING AND FINISHING TOOLS, BORING TOOLS, MILLING CUTTERS, PARTING TOOLS, DIES, JIGS AND FIXTURES FOR LOCATING WORK ON MACHINE TOOLS OR WORK PARTS IN ASSEMBLING RELATION WITH RESPECT TO EACH OTHER.
Claims use since Oct. 8, 1940.

407,269. (CLASS 39. CLOTHING.) GALE SHOE MFG. CO., Boston, Mass. Filed July 25, 1942. Serial No. 454,507.

Resist SAFETY SHOE Toe

FOR SHOES—NAMELY, WOMEN'S SHOES OF LEATHER OR FABRIC OR OF COMBINATIONS OF SAID MATERIALS.
Claims use since June 18, 1942.

407,270. (CLASS 38. PRINTS AND PUBLICATIONS.) EQUIPMENT DIGEST PUBLISHING CO., Cleveland, Ohio. Filed Feb. 17, 1943. Serial No. 458,588.

REVISTA INDUSTRIAL

FOR A PERIODICAL.

Claims use since Jan. 15, 1943.

407,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. LEE MADISON, Warrenton, Va. Filed Mar. 27, 1943. Serial No. 459,417.

Rebecca Lee Madison

FOR HAIR AND SCALP PREPARATION.
Claims use since Mar. 16, 1943.

407,272. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y. Filed Apr. 7, 1943. Serial No. 459,687.

FELTEE

FOR READY-TO-SEW OUTFITS FOR MAKING LADIES' UNDERARM BAGS.
Claims use since Jan. 4, 1943.

407,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE BRACKER, doing business as Bracker Vegetable Sales Co., Nogales, Ariz. Filed July 24, 1943. Serial No. 462,272.

BRACKER

FOR FRESH VEGETABLES.
Claims use since November 1942.

407,274. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MEADTEX FABRICS CO., New York, N. Y. Filed Sept. 3, 1943. Serial No. 463,210.

SHEDFAST

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since Jan. 27, 1943.

407,275. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FEARN LABORATORIES, INC., Chicago, Ill. Filed Sept. 15, 1943. Serial No. 463,417.

Meet-Rich

FOR SAUSAGE SEASONINGS AND BINDERS.
Claims use since Feb. 26, 1942.

407,276. (CLASS 38. PRINTS AND PUBLICATIONS.) MCGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 11, 1943. Serial No. 464,059.

PRODUCT ENGINEERING

FOR MAGAZINES PUBLISHED PERIODICALLY.
Claims use since June 1930.

407,277. (CLASS 37. PAPER AND STATIONERY.) THOMAS A. GLENDON, JR., New York, N. Y. Filed Oct. 12, 1943. Serial No. 464,084.

GLENDON

HYALOID

FOR TRACING PAPER AND TRACING CLOTH.
Claims use since August 1942.

407,278. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC OLIVE COMPANY, Visalia, Calif. Filed Oct. 12, 1943. Serial No. 464,090.

SALONA

Pacific Olive Company

FOR OLIVES AND OLIVE OIL.
Claims use since Mar. 15, 1943.

407,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESLEY J. RICHARDS, Santa Monica, Calif. Filed Oct. 14, 1943. Serial No. 464,146.

PERL A DAY

FOR VITAMIN CAPSULES.
Claims use since Feb. 1, 1943.

407,280. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) L. W. GUILD COMPANY, INC., Boston, Mass. Filed Oct. 15, 1943. Serial No. 464,164.

Driflanal

FOR COTTON TEXTILE FABRICS SOLD IN THE PIECE OR CUT LENGTHS.
Claims use since January 1943.

407,281. (CLASS 39. CLOTHING.) CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Nov. 24, 1943. Serial No. 465,248.

SURREY

FOR OUTER SHIRTS AND COLLARS.
Claims use since 1920 on collars; since 1932 on outer shirts.

407,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOWMAN DAIRY COMPANY, Chicago, Ill. Filed Nov. 29, 1943. Serial No. 465,355.

SUPER-BAKE

FOR COMBINATION OF DRY SKIMMED MILK AND A SMALL PERCENTAGE OF CEREAL FLOUR USED IN BAKING FOODS.
Claims use since Dec. 15, 1939.

407,283. (CLASS 38. PRINTS AND PUBLICATIONS.) CLAUDE A. WRIGHT, De Land, Fla. Filed Dec. 13, 1943. Serial No. 465,751.

METASCIENCE

FOR LECTURES AND LESSONS ISSUED FROM TIME TO TIME IN PAMPHLET FORM.
Claims use since Apr. 15, 1938.

407,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WHIPPLE COMPANY, Natick, Mass. Filed Dec. 31, 1943. Serial No. 466,245.

WALNUT HILL

FOR FRUIT PRESERVES.
Claims use since Mar. 23, 1917.

407,285. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SPRINGFIELD WOOLEN MILLS CO., Springfield, Tenn. Filed Jan. 18, 1944. Serial No. 466,681.

SPRINGFIELD

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Dec. 4, 1934.

407,286. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SPRINGFIELD WOOLEN MILLS CO., Springfield, Tenn. Filed Jan. 18, 1944. Serial No. 466,682.



FOR WOOLEN BLANKETS.
Claims use since Apr. 30, 1903.

407,287. (CLASS 39. CLOTHING.) BYER-ROLNICK COMPANY, Garland, Tex. Filed Jan. 24, 1944. Serial No. 466,826.

SUEDO-FINISH

FOR MEN'S HATS.
Claims use since August 1933.

407,288. (CLASS 38. PRINTS AND PUBLICATIONS.) IRWIN KAYE, New York, N. Y. Filed Jan. 28, 1944. Serial No. 466,944.



FOR A DAILY PUBLICATION OF RACING INFORMATION.
Claims use since May 10, 1933.

407,289. (CLASS 38. PRINTS AND PUBLICATIONS.) LORENZ PUBLISHING COMPANY, Dayton, Ohio. Filed Feb. 5, 1944. Serial No. 467,199.

The QUARTERLY ANTHEM FOLIO

FOR A PERIODICAL PUBLICATION CONTAINING MUSICAL WORKS.
Claims use since November 1936.

407,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Feb. 9, 1944. Serial No. 467,302.

IRRADIATED YEAST
HY-DEE
POWDER

FOR IRRADIATED DRIED YEAST, A PRODUCT OF VITAMINIC OR PRO-VITAMINIC OR NUTRITIVE CHARACTER AND ADAPTED FOR USE FOR THE MANUFACTURE OF TABLETS, CAPSULED PRODUCTS OR PREPARATIONS OF VITAMINIC OR PRO-VITAMINIC CHARACTER.
Claims use since Dec. 4, 1942.

407,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. D. CONNER, doing business as H. D. Conner Produce Co., Phoenix, Ariz. Filed Feb. 14, 1944. Serial No. 467,393.



FOR FRESH VEGETABLES AND MELONS.
Claims use since June 1942.

407,292. (CLASS 38. PRINTS AND PUBLICATIONS.) AGRICULTURAL NEWS SERVICE, Ithaca, N. Y. Filed Feb. 15, 1944. Serial No. 467,422.

Agricultural News Service

FOR NEWS PERIODICAL PUBLISHED WEEKLY.
Claims use since January 1941.

407,293. (CLASS 38. PRINTS AND PUBLICATIONS.) PHILLIPS DE HESSE, Prescott, Ariz. Filed Feb. 15, 1944. Serial No. 467,427.

Chirotherapy

FOR A PUBLICATION CONTAINING ARTICLES OF INTEREST TO PERSONS ENGAGED IN THE PRACTICE OF MANIPULATIVE THERAPEUTICS IN PARTICULAR, AND ALL PERSONS INTERESTED IN HEALTH IN GENERAL.
Claims use since Jan. 4, 1943.

407,294. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TERHUNE, YERRANCE & WOLFF, INC., New York, N. Y. Filed Feb. 16, 1944. Serial No. 467,476.

KUNA

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Oct. 20, 1932.

407,295. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHEATHAM ELECTRIC SWITCHING DEVICE CO., INCORPORATED, Louisville, Ky. Filed Mar. 1, 1944. Serial No. 467,873.

"CHEATHAM SWITCH"

FOR ELECTRIC SWITCHING DEVICES WHICH ARE DEVICES FOR ELECTRICALLY CONTROLLING AND SHIFTING A SWITCH TONGUE OR SWITCH POINT ON ELECTRIC RAILWAYS.
Claims use since January 1921.

407,296. (CLASS 39. CLOTHING.) A. DAVIS & SONS, INC., New York, N. Y. Filed Mar. 8, 1944. Serial No. 468,065.



FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since March 1918.

TRADE-MARK REGISTRATIONS RENEWED

24,659. **BUCKEYE.** ALL ARTICLES OF HARD AND SOFT RUBBER. Registered May 8, 1894. THE MECHANICAL RUBBER COMPANY. Re-renewed May 8, 1944, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee.

152,771. **FINLAND SUOMI.** WOOD PULP. Registered March 7, 1922. FINNISH CELLULOSE ASSOCIATION (SUOMEN SELLULOOSAYHDISTYS), Helsingfors, Finland, a corporation of Finland. Renewed March 7, 1942.

171,495. **CARBON-RAISER.** GRAPHITE. Registered August 7, 1923. SUPERIOR FLAKE GRAPHITE COMPANY. Renewed August 7, 1943, to Superior Flake Graphite Company, Chicago, Ill., a corporation of Illinois, assignee.

176,612. **"OLD HICKORY" AND DRAWING.** COFFEE. Registered November 27, 1923. THOMAS J. WEBB COMPANY. Renewed November 27, 1943, to Thomas J. Webb Company, Chicago, Ill., a corporation of Delaware, assignee.

177,756. **ELMWOOD CLUB.** COFFEE. Registered December 25, 1923. THOMAS J. WEBB COMPANY. Renewed December 25, 1943, to Thomas J. Webb Company, Chicago, Ill., a corporation of Delaware, assignee.

180,601. **STURDEETEX.** COTTON GOODS, SILK GOODS, LINEN GOODS, AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK, ALL IN THE PIECE. Registered March 4, 1924. JACOB MILLER'S SONS CO. Renewed March 4, 1944, to Jacob Miller's Sons Co., Philadelphia, Pa., a firm, assignee.

180,752. **PHOTOPLATED.** DESIGNS AND PHOTOGRAPHS ON GLASS AND METAL. Registered March 4, 1924. THE PHOTOPLATING COMPANY. Renewed March 4, 1944, to The Photoplating Company, Minneapolis, Minn., a corporation of Minnesota, assignee.

181,446. **BLUE JAY.** PRINTING AND WRITING PAPER. Registered March 18, 1924. KANSAS CITY PAPER HOUSE, Kansas City, Mo. Renewed March 18, 1944, to Carpenter Paper Company, Omaha, Nebr., a corporation of Delaware, successor.

181,673. **PADRES.** WINE BITTERS AND TONIC. Registered March 25, 1924. JAMES L. VAL, doing business as California Medicinal Wine Co., also doing business as Val Brothers, Los Angeles, Calif. Renewed March 25, 1944.

181,698. **CHALLENGE.** BOOK PAPERS. Registered March 25, 1924. KANSAS CITY PAPER HOUSE, Kansas City, Mo. Renewed March 25, 1944, to Carpenter Paper Company, Omaha, Nebr., a corporation of Delaware, successor.

181,760. **ÆOLUS.** VENTILATORS. Registered March 25, 1924. PAUL DICKINSON, INCORPORATED, Chicago, Ill., a corporation of Illinois. Renewed March 25, 1944.

181,952. **MIAMI.** BELTING MADE OF RUBBER AND FABRIC. Registered April 1, 1924. NEW YORK BELTING AND PACKING COMPANY. Renewed April 1, 1944, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee.

181,979. **NEMCO.** HEADLIGHTS AND AUTO LAMPS. Registered April 1, 1924. THE NEW ENGLAND MILLS COMPANY, Chicago, Ill. Renewed April 1, 1944, to Nemco Electric Company, Seattle, Wash., a corporation of Washington, assignee.

182,030. **ROYAL.** STEEL CASTINGS. Registered April 1, 1924. CARL M. LOVSTED, doing business as C. M. Lovsted & Co. Renewed April 1, 1944, to C. M. Lovsted & Co., Inc., Seattle, Wash., a corporation of Washington, successor.

182,478. **IDECO.** DERRICKS AND COMPLETE DRILLING DERRICK EQUIPMENT AND PARTS THEREOF, COMPRISING WALKING BEAMS, CROWN BLOCKS, IRON AND STEEL SHEAVE PULLEYS, STORAGE TANKS, WATER TOWERS, BULL WHEELS, CALF WHEELS, BAND WHEELS, ENGINE HOUSES, PITMEN, SUCKER RODS, DRILLING RIGS, DRILLING MACHINES, AND OTHER CERTAIN NAMED MACHINES AND EQUIPMENT. Registered April 8, 1924. THE INTERNATIONAL DERRICK & EQUIPMENT COMPANY. Renewed April 8, 1944, to International-Stacy Corporation, Columbus, Ohio, a corporation of Ohio, assignee.

182,775. **EVERYBODY'S.** HAND SOAP. Registered April 15, 1924. FLASH CHEMICAL COMPANY, Cambridge, Mass., a corporation of Maine. Renewed April 15, 1944.

182,810. **CAPUCINE.** ROUGES. Registered April 15, 1924. COTY, INC., Wilmington, Del., and New York, N. Y. Renewed April 15, 1944, to Coty, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

183,079. **VISCOLOID.** PYROXYLIN PLASTIC PRODUCT AND COMPOSITIONS FORMED THEREFROM AND SOLD IN THE FORM OF SHEETS, RODS, BARS, AND TUBES MADE THEREFROM. Registered April 22, 1924. THE VISCOLOID COMPANY, Leominster, Mass. Renewed April 22, 1944, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

183,371. **IDEAL.** ELECTRIC TROLLEY WHEELS. Registered April 29, 1924. L. E. HARMON, doing business as Edward P. Sharp. Renewed April 29, 1944, to The Crosby Company, Buffalo, N. Y., a corporation of New York, assignee.

183,702. **HOTKAPS.** SEED AND PLANT PROTECTORS. Registered May 6, 1924. WALTER R. SCHINDLER, Los Angeles, Calif. Renewed May 6, 1944.

183,808. **REPRESENTATION OF A BOX COLORED BUFF AND GREEN.** FLEXIBLE OR HINGED BELT FASTENERS. Registered May 6, 1924. FLEXIBLE STEEL LACING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 6, 1944.

183,955. **THOMAS J. WEBB.** COFFEE AND TEA. Registered May 13, 1924. PUHL-WEBB COMPANY. Renewed May 13, 1944, to Thomas J. Webb Company, Chicago, Ill., a corporation of Delaware, assignee.

184,174. **HAWTHORN.** COAL MINED AND SHIPPED FROM MINES LOCATED IN CHRISTIAN COUNTY, ILLINOIS. Registered May 20, 1924. PEABODY COAL COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 20, 1944.

184,283. **CELLUGEN.** ORGANIC ASSIMILATIVE TONIC. Registered May 20, 1924. JERSEY PHARMACAL CO., Jersey City, N. J. Renewed May 20, 1944, to Chattanooga Drug & Chemical Company, Chattanooga, Tenn., a corporation of Tennessee, assignee.

184,520. **"THE DRAKE" AND DRAWING.** MEN'S LEATHER SHOES. Registered May 27, 1924. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 27, 1944.

184,582. **CORN BREAD.** CANDY. Registered May 27, 1924. CRYSTAL CANDY CO. Renewed May 27, 1944, to Rawls-Dickson Candy Company, Winston-Salem, N. C., a corporation of North Carolina, assignee.

184,599. **KENSITAS.** CIGARETTES. Registered May 27, 1924. J. WIX & SONS, LTD., London, England. Renewed May 27, 1944, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey, assignee.

184,655. **"GOLDEN FLAKE" AND DESIGN.** POTATO CHIPS AND HORSE-RADISH. Registered May 27, 1924. HARRY E. MOSHER, doing business as Memphis Potato Chip Company, Memphis, Tenn. Renewed May 27, 1944, to Helen Friedman Gregg, doing business as Magic City Food Products Company, Birmingham, Ala., assignee.

184,659. **CRISPIES.** EDIBLE SHELLS MADE OF COOKED ALIMENTARY PASTE. Registered May 27, 1924. THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Renewed May 27, 1944, to Kellogg Company, Battle Creek, Mich., a corporation of Delaware, assignee by mesne assignments.

184,816. **CRESCENT.** BELT-FASTENING PLATES, METALLIC LACING, WIRE, COUPLING, LINKS, STUDS, HOOKS, CLIPS, CLAMPS, BUTTONS, NUTS, STAPLES, BOLTS, AND HINGES. Registered June 3, 1924. CRESCENT BELT FASTENER COMPANY. Renewed June 3, 1944, to Crescent Belt Fastener Company, Inc., New York, N. Y., a corporation of New York, assignee.

184,897. **VEEDOL FORZOL.** LUBRICATING OILS. Registered June 3, 1924. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y. Renewed June 3, 1944, to Tide Water Associated Oil Company, New York, N. Y., a corporation of Delaware, assignee.

185,774. **"FLEER'S CHECKERBERRY" AND DRAWING.** CHEWING GUM. Registered June 24, 1924. FRANK H. FLEER CORPORATION, Philadelphia, Pa., a corporation of Delaware. Renewed June 24, 1944.

186,186. **PURILLA.** LIVER PILLS. Registered July 1, 1924. DR. KILMER & Co., Binghamton, N. Y. Renewed July 1, 1944, to Kilmer & Co., Incorporated, Stamford, Conn., a corporation of Connecticut, assignee by mesne assignments.

186,271. **"XXX WHITE DIAMOND".** BUFFING AND POLISHING COMPOUND IN CAKE FORM FOR METALS, HARD RUBBER, AND CELLULOID. Registered July 8, 1924. THE MATCHLESS METAL POLISH COMPANY, Chicago, Ill., and Glen Ridge, N. J., a corporation of Illinois. Renewed July 8, 1944.

186,465. **BAM.** GOLF SHIRTS. Registered July 8, 1924. L. BAMBERGER & Co., Newark, N. J., a corporation of New Jersey. Renewed July 8, 1944.

186,886. **"OUR SPOKESMAN" AND DESIGN.** MONTHLY PUBLICATIONS. Registered July 22, 1924. THE BRONSON & TOWNSEND Co., New Haven, Conn., a corporation of Connecticut. Renewed July 22, 1944.

187,136. **"D" AND DESIGN.** SHAFT SUPPORTS, SHAFT HANGERS, BEARINGS, SHAFT COUPLINGS, COLLARS, CLUTCHES, GEARS, SHEAVES, SPROCKETS, PULLEYS, MILL MACHINERY, ELEVATING AND CONVEYING MACHINERY, POWER-TRANSMISSION MACHINERY AND PARTS THEREOF, AND OTHER CERTAIN NAMED MACHINERY. Registered July 29, 1924. DODGE MANUFACTURING CORPORATION, Mishawaka, Ind., and Oneida, N. Y. Renewed July 29, 1944, to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana, assignee.

187,299. **SOAPARATUS.** LIQUID-SOAP-DISPENSING SYSTEMS. Registered July 29, 1924. WEST DISINFECTING COMPANY, New York, N. Y. Renewed July 29, 1944, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York.

187,402. **LARKIN.** DYE COMBINED WITH SOAP, WATER-SOFTENER COMPOUND, BORAX, AMMONIA, AMMONIA WATER, AROMATIC SPIRITS OF AMMONIA, PERFUMED AMMONIA FOR TOILET PURPOSES, AND OTHER CERTAIN NAMED TOILET AND MEDICINAL PREPARATIONS. Registered August 5, 1924. LARKIN CO. INC. Renewed August 5, 1944, to Larkin Store Corporation, Buffalo, N. Y., a corporation of New York, assignee.

187,549. **VIVERO.** COPPER PAINT FOR THE BOTTOM OF WOODEN VESSELS. Registered August 5, 1924. RED HAND COMPOSITIONS COMPANY, INC., New York, N. Y., a corporation of New York. Renewed August 5, 1944.

187,688. **SUN-CRAFT.** PAINT ENAMELS. Registered August 12, 1924. SUNSET PAINT COMPANY, Los Angeles, Calif. Renewed August 12, 1944, to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa., a corporation of Michigan, assignee.

187,689. **SUNSEECO.** PASTE PAINT. Registered August 12, 1924. SUNSET PAINT COMPANY, Los Angeles, Calif. Renewed August 12, 1944, to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa., a corporation of Michigan, assignee.

187,770. **MANHATTAN CLUB.** BILLIARD CHALK. Registered August 12, 1924. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill. Renewed August 12, 1944, to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware.

187,871. **REMINGTON.** FIREARMS, PARTICULARLY MILITARY AND SPORTING RIFLES, SHOTGUNS, PISTOLS, AND PARTS THEREOF, METALLIC CARTRIDGES, METALLIC SHOT SHELLS, PAPER SHOT SHELLS, EMPTY METALLIC AND PAPER SHELLS, BLANK CARTRIDGES, CAPS, PRIMERS, WADS, SHOT, AND BULLETS. Registered August 12, 1924. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., and Ilion and New York, N. Y. Renewed August 12, 1944, to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware.

187,877. **OXYGRAPH.** OXYACETYLENE CUTTING APPARATUS. Registered August 12, 1924. AIR REDUCTION COMPANY, INCORPORATED. Renewed August 12, 1944, to Air Reduction Sales Company, New York, N. Y., a corporation of Delaware, assignee.

187,956. **HIGHLAND DAWN.** WOOLEN PIECE GOODS. Registered August 12, 1924. P. M. QUAS COHEN, doing business as Cohen & Wilks. Renewed August 12, 1944, to Cohen & Wilks, Limited, Cheetham, Manchester, England, a limited liability company of Great Britain and Northern Ireland, successor.

187,995. **FLOROMA.** DEODORANTS, DISINFECTANTS, AND AIR PURIFIERS. Registered August 12, 1924. WEST DISINFECTING COMPANY, New York, N. Y. Renewed August 12, 1944, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York.

188,068. **SURETY-SIX.** SHOES MADE OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS THEREOF. Registered August 19, 1924. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo., a corporation of New York. Renewed August 19, 1944.

188,415. **RUBBIN.** DENATURED ALCOHOL, PARTICULARLY USED FOR MASSAGE AND BATHING. Registered August 26, 1924. SCHIEFFELIN & Co., New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,509. **VENDOL.** VEGETABLE SYSTEM TONIC. Registered August 26, 1924. THE VENDOL COMPANY. Renewed August 26, 1944, to David H. Fulton, doing business as Vendol Company, Baltimore, Md., successor.

188,510. **NO-MO-BOILS.** MEDICINAL PREPARATION IN CAPSULE FORM FOR TREATMENT OF BOILS AND CARBUNCLES. Registered August 26, 1924. J. W. ROBERTSON, doing business as The Boil Remedy Company, Richmond, Va. Renewed August 26, 1944.

188,518. **FERNDALE.** BUTTER. Registered August 26, 1924. DAVIS-CLEAVER PRODUCE COMPANY, Quincy, Ill., a corporation of Missouri. Renewed August 26, 1944.

188,640. **"WENTWORTH" AND DESIGN.** RING SPINNING AND TWISTING TRAVELERS. Registered September 2, 1924. NATIONAL RING TRAVELER CO., Providence, R. I. Renewed September 2, 1944, to National Ring Traveler Co., Pawtucket, R. I., a corporation of Rhode Island.

188,654. **NEURO PHOSPHATES.** MEDICINE FOR THE DISEASES OF THE NERVOUS SYSTEM. Registered September 2, 1924. SMITH, KLINE & FRENCH Co. Renewed September 2, 1944, to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania, assignee.

188,662. **"WAW" AND DESIGN.** TOOLS, COMPRISING METAL PUNCHES AND PARTS THEREOF, PUNCH DIES, AND CHUCK-OPERATED BORING AND DRILLING TOOLS. Registered September 2, 1924. W. A. WHITNEY MANUFACTURING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed September 2, 1944.

188,722. **"D & B" AND DRAWING.** COLLAR PINS, LINGERIE CLASPS, BELT CHAINS, ORNAMENTAL DRESS PINS, SWEATER PINS, CUFF BUTTONS, SHIRT STUDS, TIE CLASPS, AND SCARF PINS. Registered September 2, 1924. DOLAN & BULLOCK. Renewed September 2, 1944, to Dolan & Bullock Co., Providence, R. I., a corporation of Rhode Island, assignee.

188,783. **NOT A KICK IN A MILLION FEET.** ASPHALT ROOFING IN ROLLS AND SHEETS, ASPHALT ROOFING SHINGLES, ASPHALT ROOFING STRIPS, WATERPROOF INSULATING AND SHEATHING PAPER, WATERPROOF INSULATING AND SHEATHING FABRICS, PLASTIC ROOF COATINGS, MASTIC FLOORING, MASTIC BUILDING COMPOUNDS, AND ASPHALT FLOORING IN ROLLS, FABRIC BASE. Registered September 2, 1924. THE LEHON COMPANY. Renewed September 2, 1944, to The Lehon Company, Chicago, Ill., a corporation of Illinois, assignee.

188,957. **VULCAN.** STEEL. Registered September 9, 1924. VULCAN CRUCIBLE STEEL COMPANY, Aliquippa, Pa., a corporation of Pennsylvania. Renewed September 9, 1944.

189,040. **REPRESENTATION OF A PARROT.** CHOCOLATE AND COCOA FOR COOKING AND BEVERAGE PURPOSES. Registered September 9, 1924. D. GHIRARDELLI Co., San Francisco, Calif., a corporation of California. Renewed September 9, 1944.

189,176. **"THE HOPP PRESS" AND DRAWING.** SECTIONAL PRICE MARKERS AND CARD HOLDERS. Registered September 16, 1924. THE HOPP PRESS, INC., New York, N. Y., a corporation of New York. Renewed September 16, 1944.

189,186. **"LA ROSE" AND DRAWING.** WOMEN'S HATS. Registered September 16, 1924. OUTLET MILLINERY COMPANY, INCORPORATED, Hartford, Conn., a corporation of Connecticut. Renewed September 16, 1944.

189,261. **"CHAMPION" AND DRAWING.** GIRLS' AND WOMEN'S BLOOMERS AND WAISTS. Registered September 16, 1924. JAMES A. HEARN & SON INC. Renewed September 16, 1944, to Hearn Department Stores, Inc., New York, N. Y., a corporation of New York, assignee.

189,286. **FEATHERMAC.** MACKINTOSHES AND RAINCOATS. Registered September 16, 1924. ROGERS PEET COMPANY, New York, N. Y., a corporation of New York. Renewed September 16, 1944.

189,295. **ELITE.** TISSUE PAPER. Registered September 16, 1924. BROOKS PAPER COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 16, 1944.

189,310. **PICNIC.** PEANUT BUTTER. Registered September 16, 1924. WILMAR MANUFACTURING COMPANY, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 16, 1944.

189,320. **"NY-KO" AND DESIGN.** EVAPORATED SKIMMED MILK. Registered September 16, 1924. THE UNIVERSAL MILK COMPANY, Dover, Del., a corporation of Delaware. Renewed September 16, 1944.

189,334. **SIERRA VISTA.** FRESH CITRUS FRUITS, PARTICULARLY ORANGES. Registered September 16, 1924. SIERRA VISTA PACKING ASSOCIATION, Riverside, Calif., a corporation of California. Renewed September 16, 1944.

189,372. **"BOSS" AND DESIGN.** FABRIC AND LEATHER WORKING GLOVES AND MITTENS AND FABRIC WORKING GLOVES AND MITTENS. Registered September 16, 1924. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Renewed September 16, 1944, to The Boss Manufacturing Company, Kewanee, Ill., a corporation of Illinois.

189,444. **"NEBEL" AND DRAWING.** LADIES' AND MEN'S FULL-FASHIONED HOSIERY. Registered September 16, 1924. NEBEL KNITTING COMPANY. Renewed September 16, 1944, to Nebel Knitting Company, Inc., Charlotte, N. C., a corporation of New Jersey, assignee.

189,528. **PERFEX.** BROOMS, MOPS, AND HAT, CLOTHES, SHAMPOO, MASSAGE, BATH, MANICURE, CLOAK, HAIR, SINK, STOVE, PIPE, PERCOLATOR, MILK-BOTTLE, AND SHOE BRUSHES. Registered September 23, 1924. BROOKLYN PERFEX CORP., Brooklyn, N. Y., a corporation of New York. Renewed September 23, 1944.

189,573. **TUXEDO.** FLAVORING EXTRACTS FOR BEVERAGE PURPOSES. Registered September 23, 1924. HENRY H. OTTENS MFG. CO. INC., Philadelphia, Pa., a corporation of New Jersey. Renewed September 23, 1944.

189,576. **PON-JOLA.** FLAVORING EXTRACTS FOR BEVERAGE PURPOSES. Registered September 23, 1924. HENRY H. OTTENS MFG. CO. INC., Philadelphia, Pa., a corporation of New Jersey. Renewed September 23, 1944.

189,579. **BLACK & WHITE.** MECHANICAL PENCILS. Registered September 23, 1924. SALZ BROS. INC., New York, N. Y., a corporation of New York. Renewed September 23, 1944.

189,611. **I'LANG-HANS.** PHARMACEUTICAL PREPARATION—NAMELY, A CONCENTRATE OF THE ISLANDS OF LANGERHANS OF THE PANCREAS, INDICATED AS A HOMOSTIMULANT TO THE PANCREAS. Registered September 23, 1924. THE DIGESTIVE FERMENTS COMPANY. Renewed September 23, 1944, to Difco Laboratories Incorporated, Detroit, Mich., a corporation of Michigan, by change of name.

189,612. **PANGESTIN.** PHARMACEUTICAL PREPARATION—NAMELY, A HIGHLY-ACTIVE AMYLOLYTIC FERMENT FROM THE PANCREAS AND INDICATED IN AMYLACEOUS DYSPEPSIA. Registered September 23, 1924. THE DIGESTIVE FERMENTS COMPANY. Renewed September 23, 1944, to Difco Laboratories Incorporated, Detroit, Mich., a corporation of Michigan, by change of name.

189,613. **ENCHANTA SILK.** SILK UNDERWEAR. Registered September 23, 1924. JAMES A. HEARN & SON, INC. Renewed September 23, 1944, to Hearn Department Stores, Inc., New York, N. Y., a corporation of New York, assignee.

189,635. **LEFAVOR.** COFFEE. Registered September 23, 1924. JAS. H. FORBES TEA & COFFEE CO., St. Louis, Mo., a corporation of Missouri. Renewed September 23, 1944.

189,640. **HOTEL CLUB.** COFFEE. Registered September 23, 1924. WISCONSIN COFFEE COMPANY. Renewed September 23, 1944, to The Copps Company, Stevens Point, Wis., a corporation of Wisconsin, successor.

189,642. **"FORBES FINEST" AND DESIGN.** TEA. Registered September 23, 1924. JAS. H. FORBES TEA & COFFEE CO., St. Louis, Mo., a corporation of Missouri. Renewed September 23, 1944.

189,668. **FAIRMOUNT.** COAL AND GAS RANGES AND HEATERS. Registered September 23, 1924. LEONARD & BAKER STOVE CO., Taunton, Mass., a corporation of Massachusetts. Renewed September 23, 1944.

189,672. **MANOKA.** STARCH-GLUE MATERIAL. Registered September 23, 1924. PERKINS GLUE COMPANY. Renewed September 23, 1944, to Perkins Glue Company, Lansdale, Pa., a corporation of Delaware, assignee.

189,673. **BENT-TITE.** STARCH-GLUE MATERIAL. Registered September 23, 1924. PERKINS GLUE COMPANY. Renewed September 23, 1944, to Perkins Glue Company, Lansdale, Pa., a corporation of Delaware, assignee.

189,680. **"PEARCE'S OLD STYLE WATER GROUND" AND DESIGN.** CORN MEAL. Registered September 23, 1924. CITY MILLS COMPANY, Columbus, Ga., a corporation of Georgia. Renewed September 23, 1944.

189,700. **"S" AND DESIGN.** FRESH FRUITS AND FRESH VEGETABLES. Registered September 23, 1924. E. H. SPIEGL, San Francisco, Calif. Renewed September 23, 1944, to E. H. Spiegl, Salinas, Calif.

189,702. **KB.** CORN FLOUR AND MAIZE FLAKES. Registered September 23, 1924. KNEFLER-BATES MFG. CO. Renewed September 23, 1944, to Knefler-Bates Company, Indianapolis, Ind., a corporation of Indiana, assignee.

189,714. **CALIFORNIA'S GOLDEN.** CANNED FRUITS AND VEGETABLES. Registered September 23, 1924. CALIFORNIA CO-OPERATIVE CANNERIES, San Francisco, Calif. Renewed September 23, 1944, to Frank M. Wilson Company, Stockton, Calif., a copartnership, assignee by mesne assignments.

189,726. **"UNUSUAL".** CANDY. Registered September 23, 1924. HOLLINGSWORTH CANDY CO. Renewed September 23, 1944, to Fine Products Corporation, Augusta, Ga., a corporation of Georgia, assignee.

189,733. **CURRENT CONSTRUCTION.** PERIODICAL MAGAZINE. Registered September 23, 1924. FRUIN-COLNON CONTRACTING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 23, 1944.

REISSUES

MAY 23, 1944

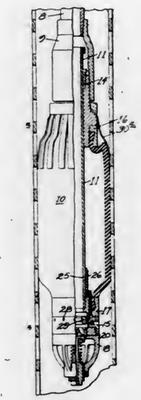
22,483
CEMENTING, WASHING, AND ACIDIZING RETAINER FOR OIL WELLS

Clarence E. Burt, Altadena, Calif., assignor to Baker Oil Tools, Inc., Huntington Park, Calif., a corporation of California

Original No. 2,196,658, dated April 9, 1940, Serial No. 271,938, May 5, 1939. Application for reissue April 5, 1941, Serial No. 387,048

13 Claims. (Cl. 166—1)

13. Apparatus adapted for use in holes in the earth, to force cement slurry or otner sealing fluid into earth formations, including a tubular member adapted to be lowered into said hole for delivering sealing fluid into the same, a packer



mounted on said tubular member, said packer being designed to expand and contact the wall of the hole and effect a seal therewith under the influence of fluid pressure exerted internally thereof, means providing an outlet for said tubular member adjacent said packer, valve means controlling the flow of fluid from said tubular member through said outlet means, means for urging said valve means to closed position to enable fluid pressure to be built up on the inside of said packer in excess of that on the outside thereof for expanding said packer into sealing engagement with the wall of the hole, said urging means exerting sufficient force to maintain the valve means closed unless the pressure within said tubular member exceeds that externally of the packer by an amount which is greater than the aforementioned excess and means for temporarily retaining said valve means in open position, said last named means being rendered inoperative by the first downward surge of fluid through the tubular member.

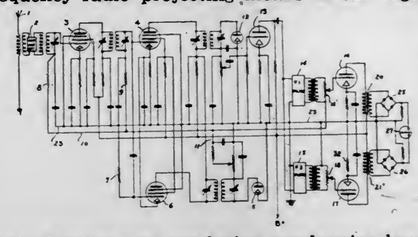
22,484
METHOD AND APPARATUS FOR LANDING AIRCRAFT

William T. Cooke, Garden City, N. Y., and Abbott S. Maeder, deceased, by Sperry Gyroscope Company, Inc., assignee, Brooklyn, N. Y., a corporation of New York

Original No. 2,307,023, dated January 5, 1943, Serial No. 354,498, August 28, 1940. Application for reissue September 1, 1943, Serial No. 500,812

18 Claims. (Cl. 250—11)

1. In apparatus for landing aircraft, ultra high frequency radio projecting means in the region



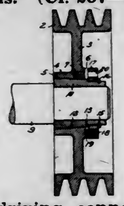
of the landing area producing overlapping beams of electromagnetic energy, means for modulating said beams at different frequencies, a receiver carried by the aircraft, said receiver comprising different amplifiers for amplifying the different modulations of the beams, and means controlled by the strength of the received energy for varying the amplification ratio between said different amplifiers, thereby providing a glide path that varies from a straight line as the landing area is approached.

22,485
SHEAVE

Eugene J. Otto, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original No. 2,331,498, dated October 12, 1943, Serial No. 463,768, October 29, 1942. Application for reissue February 11, 1944, Serial No. 522,027

8 Claims. (Cl. 287—52.06)



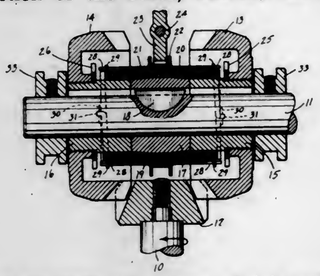
5. In a shaft driving connection, a tapered split sleeve adapted for mounting on a shaft, a hub member having a tapered bore mounted on said sleeve, an annulus mounted on said sleeve in axially fixed relation, said sleeve being free for operative contraction about said shaft independently of said annulus, and means operatively engaging said hub member and said annulus to force relative axial movement of said hub member and said sleeve, thereby clamping said hub member, sleeve and shaft in driving relation.

22,486
REVERSING CLUTCH CONSTRUCTION FOR POWER DRIVES

William Carleton Starkey, Indianapolis, Ind., assignor to L. G. S. Spring Clutches, Incorporated, Indianapolis, Ind., a corporation

Original No. 2,214,487, dated September 10, 1940, Serial No. 301,999, October 30, 1939. Application for reissue May 19, 1941, Serial No. 394,052
24 Claims. (Cl. 192—51)

1. In a reversing clutch construction, a pair of coaxially rotatable driving members each having a clutch surface concentric with the axis of rotation, power driven means adapted to rotate said driving members in opposite directions, a driven member interposed between said driving members and rotatable coaxially therewith, a helical spring clutch unit engageable with said driven member to transmit torque thereto and having portions extending freely therefrom in opposite directions and provided with clutch surfaces mating with said first mentioned clutch surfaces but normally spaced therefrom, and actuating means for said spring clutch unit adapted simultaneously to cause an expansion of one of said freely extending portions and a contraction of the other, whereby one of said



portions engages its mating clutch surface to transmit torque therefrom and the other is simultaneously moved away from its mating clutch surface.

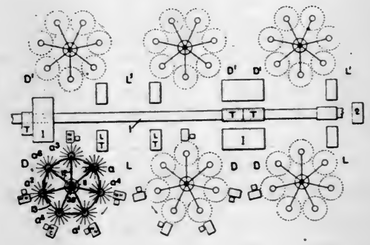
PATENTS

GRANTED MAY 23, 1944

2,349,233
SYSTEM AND APPARATUS FOR HEMMING SHEETS OF FIBROUS MATERIAL

Ross E. Annis, North Sudbury, Mass., assignor to Underwood Machinery Company, a corporation of Massachusetts

Application January 27, 1941, Serial No. 376,119
9 Claims. (Cl. 112—2)



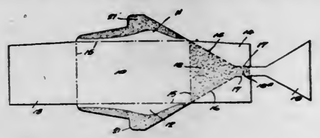
1. Apparatus for hemming sheets of fibrous material comprising a series of narrowly associated rotatable turntables each having means for supporting in circular series and in substantially equally spaced relation an uneven number of reels, reels mounted on said carrier each having a series of radial sheet-supporting arms over each of which the sheet may be draped with the unhemmed edges hanging downwardly in parallelism, sheet-manipulating stations located around said turntable in circumferential spacing corresponding to the spacing of said reels including a single loading station for the reels of adjacent turntables, a plurality of stations associated with each turntable having means for stitching a wide hem, a like plurality of stations associated with each turntable having means for stitching a narrow hem, a single station associated with each turntable having means for closing the ends of the hems of all of the sheets, and a single doffing station for the reels of each successive pair of adjacent turntables, the respective sheet-manipulating stations being so positioned relatively to its turntable that a reel will be positioned once at each station during two successive revolutions of the turntable and means for arresting rotation of the respective turntables with the respective reels positioned at every alternate station in succession.

2,349,234
ENVELOPE

Lee Barker, Los Angeles, Calif.

Application November 20, 1943, Serial No. 511,065
4 Claims. (Cl. 229—68)

4. An envelope comprising a front, a back consisting of a series of cooperating flaps extending from, and along, sides of said front, including a pair of oppositely extending and partially overlapping flaps secured to one another at spaced points and free of one another between said points, and a second pair of oppositely extending flaps, one of which constitutes a closure flap, for partial overlapping and connection to said first named flaps, one of said first named flaps having weakened lines defining therebetween a rip tongue whose outer end extends along one full side of the front and whose inner end forms a tab lying between the spaced connected portions of said first named flaps, the second named flaps, when so connected, presenting spaced in-



ner edges bordering said rip tongue and its tab and extending continuously along, and outwardly of, the said weakened lines of the tongue-carrying flap, and a reenforcing strip secured to, and across, the under surface of said tongue and its tab and having edge portions extending along, and inwardly of, the said weakened lines of the tongue-carrying flap.

2,349,235
GASKET

Wilburn F. Bernstein, Brookfield, and Stephen M. Lillis, Chicago, Ill., assignors to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 16, 1941, Serial No. 402,716
1 Claim. (Cl. 288—34)

A compressible, impervious gasket having sufficient inherent elasticity as to retain its resiliency and sealing characteristics against the compression of fastening means when placed and clamped between members to be sealed, consisting of individual fiber-like sponge spicules and a resilient binder filling the spaces between the spicules.

2,349,236
CARPET

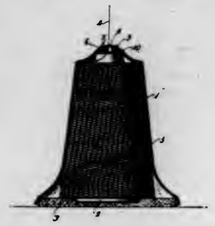
Virgil H. Bodle, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Application September 15, 1941, Serial No. 410,903
7 Claims. (Cl. 28—4)



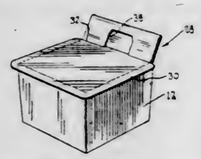
1. A floor covering comprising a fibrous cushion base, a substantially upstanding fibrous tread surface simulating pile fabric secured thereto, an interposed woven fabric having fibres from the base penetrating into and through the fabric, and an adhesive bond within the body of said floor covering and having fibres of the tread surface, of the base, and the fabric combined therewith.

2,349,237
UNWINDING YARN
Aleidus G. Bouhuys, Enka, and Harry B. Carico, Asheville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application May 4, 1942, Serial No. 441,702
8 Claims. (Cl. 242—130)



1. A device for inhibiting the introduction of slack in a thread adjacent a stationary supply package during unwinding from the outside to the inside thereof, comprising an apron adapted to contact the outer surface of said supply package and an opening in said apron for the free passage of thread therethrough.

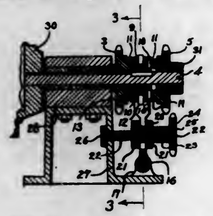
2,349,238
RECEPTACLE
Philip H. Burre, South Ozone Park, N. Y.
Application November 28, 1942, Serial No. 467,180
13 Claims. (Cl. 4—271)



1. A receptacle of the character described formed exclusively and entirely from a flat blank of flexible, resilient, self-form-maintaining paper, said receptacle comprising a box, a cover therefor, and a hinge connecting said box and cover and biassing said cover to closed position, said hinge including two parallel juxtaposed paper panels extending away from said box and integrally connected by a score line, the opposite edges of said panels being integrally connected respectively to said cover and to a wall of said box, said panels being substantially coplanar with said wall of the box when the cover is closed, and means to maintain said panels in such parallel juxtaposed position.

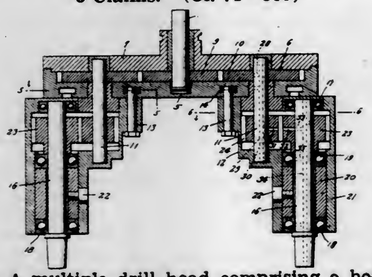
2,349,239
CLUTCH OPERATING MEANS
Ernest W. Clements, Kansas City, Kans., assignor to Andrew A. Kramer, Kansas City, Mo.
Original application February 15, 1940, Serial No. 319,091. Divided and this application July 20, 1942, Serial No. 451,537
6 Claims. (Cl. 192—48)

1. In a device of the character described, a shaft, a pair of driving members mounted on said shaft for rotation relative thereto, a grooved clutch member slidably mounted on said shaft between said driving members for rotation with said shaft, said driving members and said clutch member having interengaging formations thereon for rotating either of said driving members and said clutch member as a unit, and means for moving said clutch member lengthwise of said shaft alternatively into interengaging relation with said driving members comprising a lever pivotally mounted on a pivot at one end thereof, a



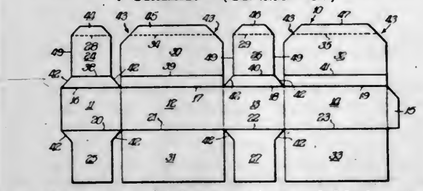
pair of shoes engaging in the groove in said clutch member and pivotally mounted on said lever at the other end thereof, and self-locking adjusting means engaging said lever between its pivot and said shoes for rocking said lever on its pivot, comprising a rotatable self-locking operating member.

2,349,240
ADJUSTABLE MULTIPLE SPINDLE DRILL HEAD
Rolland B. Aiman, Pendleton, Ind.
Application August 15, 1942, Serial No. 454,979
3 Claims. (Cl. 74—389)



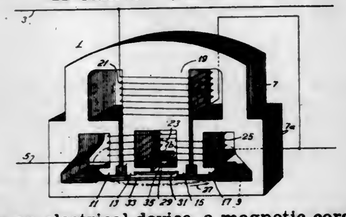
1. A multiple drill head comprising a body, a drive spindle journaled in the body, a plurality of shafts projecting from the body, means in the body operatively connecting the shafts to the spindle, a housing for the lower end of each shaft and pivoted about the axis of the shaft, a driven spindle projecting from each housing, gears operatively connecting the shafts with their respective driven spindles, and means for securing the housings in pivotally adjusted position to the body.

2,349,241
CARTON
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application July 3, 1942, Serial No. 449,557
7 Claims. (Cl. 229—37)



1. A carton, which comprises a folded, cut and scored blank having a plurality of panels permanently secured together to form a carton body, said body having spaced apart integral outer and inner walls in substantially uninterrupted communication with each other, said outer walls having integral extensions in overlying relationship with respect to each other and which constitute a plural-ply bottom for said carton, and said inner walls having integral extensions inwardly directed toward the center of said carton and lying in the same plane as said outer wall integral extensions with said inner and outer wall extensions being secured to each other, and at least two of said outer wall extensions being permanently secured to each other.

2,349,242
ELECTRICAL MEASURING DEVICE
Thomas D. Barnes, West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 9, 1942, Serial No. 426,199
11 Claims. (Cl. 171—34)



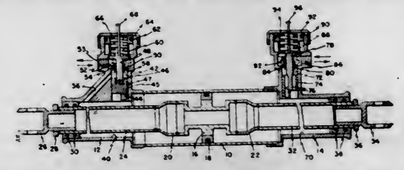
1. In an electrical device, a magnetic core having spaced pole elements defining an air gap, means associated with said magnetic core for producing a variable magnetomotive force across said pole elements, and a magnetic shunt extending between the pole elements for diverting magnetic flux away from said air gap, said magnetic shunt having a portion in engagement with each of said pole elements, whereby substantial magnetic flux flows through said magnetic shunt for low values of said variable magnetomotive force, and said magnetic shunt being designed to saturate within the range of variation of said variable magnetomotive force.

2,349,243
CATALYSIS
John R. Bates, Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 4, 1942, Serial No. 433,295
8 Claims. (Cl. 196—52)

7. The process which comprises cracking a hydrocarbon material by contacting it under cracking conditions with a catalyst which comprises a zirconium phosphate produced by drying and calcining the reaction product from mixing a solution of a soluble zirconium salt and a solution of a soluble metaphosphate.

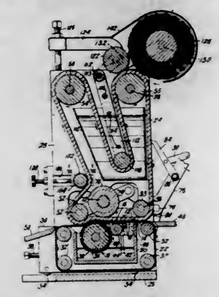
2,349,244
ACTUATING CYLINDER
David H. Brown, North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif., a corporation of California
Application February 26, 1942, Serial No. 432,457
6 Claims. (Cl. 121—40)

1. An actuating motor adapted to be operated by fluid under pressure comprising a cylinder, a piston having a piston rod secured thereto, an annular lockstep formed on said piston rod, a housing connected with one end of said cylinder and having a bore coaxial with said piston rod but of lesser diameter than the cylinder and of



slightly greater diameter than the lockstep, and a lock pin adapted to lock against said annular lockstep, the clearance between the coaxial bore and the lockstep being such as to form a dashpot metering orifice with respect to the operating fluid.

2,349,245
MACHINE FOR INKING EDGES OF SHOE PARTS
Rouel R. Campbell, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 19, 1941, Serial No. 398,857
30 Claims. (Cl. 91—54)

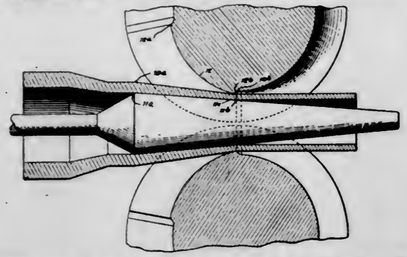


1. In a machine for coating the surfaces of the edges of a piece of work, separate means for engaging the opposite surfaces of the work, one of said means having a plurality of discrete capillary pores therein, said separate means being movable into intimate contact with each other and with the work, thereby to cause those pores in one of said means which terminate opposite the other one of said means and an imperforate portion of the work to become sealed while the remaining pores adjacent to the edge surfaces of the work are unobstructed, a bibulous member supplied with ink adjacent to said means, and means for relatively moving said separate means and the bibulous member to bring the means having discrete capillary pores therein firmly against the bibulous member to cause ink to flow through said unobstructed discrete capillary pores onto the edge surfaces of the work.

2,349,246
MANUFACTURE OF TAPERED STOCK
George B. Coe, Upper Montclair, N. J., assignor to Rockrite Processes, Inc., Stamford, Conn., a corporation of Delaware
Application August 7, 1942, Serial No. 453,928
6 Claims. (Cl. 80—62)

1. The method of making long tapered stock from cylindrical stock which comprises, reducing

the cylindrical starting stock in successive short increments of length by rolling it step by step toward the end thereof at which the reduction is begun and working backward from that end to predetermined points along the stock respectively by a plurality of tapered die sets of successively



decreasing size, the point to which the working is carried by each succeeding die set being nearer the end of the stock where the reduction was begun than in the case of the preceding die set whereby the stock is formed into successive tapered portions which become progressively smaller as they approach that end of the stock.

2,349,247

BAG CLOSURE

Philip S. Coghill, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application August 23, 1941, Serial No. 408,011
4 Claims. (Cl. 229—62)



1. In a package comprising a bag containing a flowable material, said bag having a substantially rectangular mouth defined by the front, back and two sidewalls of the bag and closed by folding in the front and sidewalls on the contents and folding thereover the back wall, the improvement which comprises an elongated closure element fastened to the inner face of the back wall of the bag and projecting from the top of said bag, the projecting portion of the closure element being fastened to the underlying wall of the bag whereby to seal said package closed.

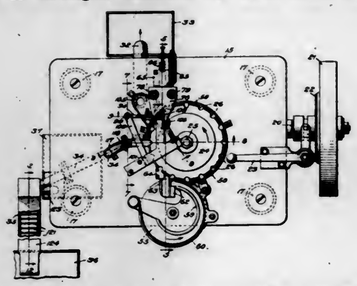
2,349,248

CARTRIDGE DISASSEMBLING MACHINE

Frank E. Costello, Philadelphia, Pa.

Application January 25, 1944, Serial No. 519,630
15 Claims. (Cl. 86—1.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a machine for disassembling cartridges, the combination of a rotatable dial having cartridge-receiving notches equally spaced around its periphery, means repeatedly effective at spaced time intervals for advancing said dial through the angular distance between notches whereby each notch successively occupies "at rest" positions spaced all the way around said dial periphery's rotative path, a feeding station along said path in register with a given one of said "at rest" positions, means at said feeding station for so placing a cartridge in each of the said dial notches there coming to rest that the projectile of said cartridge protrudes from the dial, a pulling station also along said path but in register with another one of said dial notch "at rest" positions that is beyond said feeding station, means at said pulling station for there securing in the machine the case head of each cartridge that is brought thereto by said dial, further



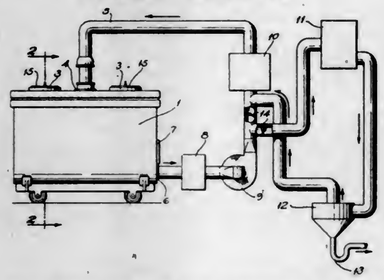
means at said pulling station effective then to grip the projectile of each of said cartridges and pull it completely free of the cartridge case for subsequent ejection from the machine, a discharge station likewise along said path but in register with a third one of said dial notch "at rest" positions that is beyond said pulling station, means at said discharge station for pushing from said dial each cartridge case that is brought to the discharge station by the dial, and means then effective for emptying the powder from each of said cases and for thereafter ejecting the so separated cases and powder from the machine.

2,349,249

APPARATUS FOR THE RECOVERY OF SOLVENT

Gild E. Desetti, Woodbury, N. J., and Walter A. Dew, Bill H. Mackey, and Richard G. Woodbridge, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application May 14, 1941, Serial No. 393,340
2 Claims. (Cl. 34—74)



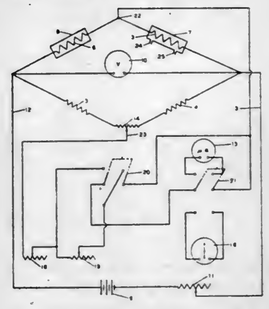
1. An apparatus for the treatment of smokeless powder comprising a powder container, a vapor entry and a vapor exit for said container, a conduit externally connecting said exit with said entry and connecting in series enroute a vapor filter, a blower, and a heater, and a by-pass leaving said conduit and returning to the same between said blower and heater, said by-pass connecting in series in turn a condenser and a separating means.

2,349,250

GAS DETECTION

Richard L. Doan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 9, 1939, Serial No. 298,708
3 Claims. (Cl. 23—232)



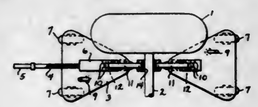
1. The method of analyzing soil gas for hydrocarbons heavier than methane in the presence of methane contained in the soil gas which comprises passing the soil gas into a vessel into contact with a filament in the vessel, cutting off all flow of gas to said vessel and allowing turbulence of the gas in the vessel to subside, thereafter heating the filament to a temperature in the range of 900° F. to 1250° F. by passage of electric current therethrough, and determining the quantity of hydrocarbons heavier than methane present in the soil gas by observing the rate of combustion thereof as evidenced by changes in the electrical resistance of the filament due to heat liberated by combustion of hydrocarbons heavier than methane.

2,349,251

AIRPLANE SPOTTING AND HANDLING DEVICE

John Joseph Domoj, United States Navy

Application September 18, 1942, Serial No. 458,916
4 Claims. (Cl. 280—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An airplane spotting and handling device comprising a dolly composed of two similar parts joined by means for varying the distance between them, each part having swivelled rollers thereunder, braking means and a bracket, a link pivotally connected to each bracket, the other ends of said links being pivotally connected to a support for jacking up an axle by moving the parts together after placing the support beneath the axle.

2,349,252

COMBINED KNIFE AND RAZOR

Edward R. Douglass, Eckman, N. Dak.

Application August 18, 1943, Serial No. 499,151
10 Claims. (Cl. 30—122)

1. A device of the character set forth, comprising a handle, a razor blade supporting head, means for securing a razor blade in an end of the handle in such manner that the blade and handle may be used as a knife, and means car-



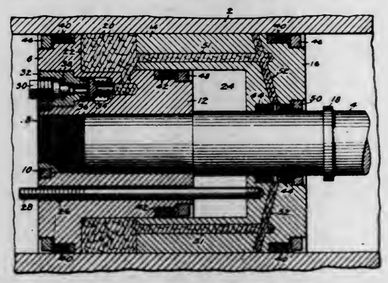
ried by the head for securing the head to the handle supported blade in position for use in shaving.

2,349,253

PACKING ARRANGEMENT

James M. Edmund, Washington, D. C.

Application January 30, 1943, Serial No. 474,212
3 Claims. (Cl. 309—23)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a fluid tight seal, a pressure cylinder, a two part reciprocable piston whose parts are spaced from each other and movable relative to each other, and forming a pocket between them, a sealing fluid in said pocket under higher unit pressure than the fluid being sealed, means for venting the space between the piston parts other than the pocket to the atmosphere, including an opening through one part not in direct contact with the fluid to be sealed, and an indicator extending through said opening, the indicator being secured to the part in direct contact with the fluid to be sealed.

2,349,254

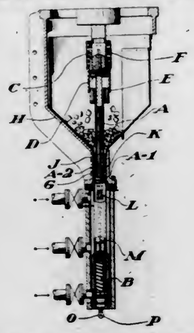
EXTRUSION DEVICE

Myrle H. English, Pompton Lakes, N. J., Earl R. Jones, Roxborough, Pa., and Roland R. Nydegger, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 8, 1941, Serial No. 414,114
3 Claims. (Cl. 18—12)

1. In an extrusion device, a metering screw, a feed screw slidably mounted on the shank of said metering screw, a reducer shaft in positive keyed relationship with said metering screw, a coupling surrounding said reducer shaft and said feed screw shaft, the said screw shaft being splined to

the reducer shaft through said coupling, a spring disposed about said reducer shaft above said coupling to force the feed screw downward to supply pressure for accelerated melting and positive feed of melt to the metering screw.

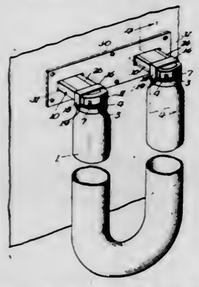


2,349,255

GLOW DISCHARGE TUBING AND MEANS FOR MOUNTING THE SAME

Hirsch Epstein, Chicago, Ill.

Application November 10, 1941, Serial No. 418,469
8 Claims. (Cl. 176—122)



2. In combination with a glow discharge device having a plug-in type terminal at an end thereof, a socket into the front of which the terminal extends to establish circuit connections with the terminal, and a releasable clip extending completely across the back and sides of the socket and with the end of the clip engaging the end of the glow discharge device for holding the device and the socket together against separating movement in a direction lengthwise of the device.

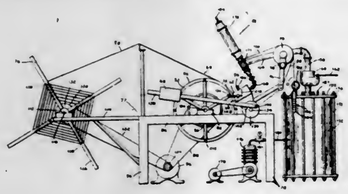
2,349,256

MACHINE FOR CONTINUOUSLY COATING AND/OR PERMEATING SHEETS

Harold A. Evans, Fairhaven, Mass., assignor to Coreve Corporation, Fairhaven, Mass., a corporation of Massachusetts

Application August 14, 1941, Serial No. 406,889
21 Claims. (Cl. 91—12)

1. A machine for continuously permeatably affixing plastic material to sheets comprising a rotatable pad cylinder having a resilient covering of substantial depth, means to positively rotate said pad cylinder, a combination fountain and froner of greater width than said sheet having a front portion resting on said pad cylinder to compress a sheet to be covered passing over said pad cylinder against said pad cylinder and to provide a drive and sheet feed nip and having coating plastic material feeding means on the lower surface thereof in rear of said front sheet compressing and hence sheet feeding portion providing passageway means extending a distance longitudinally of said sheet of progressively decreasing height to feed plastic material on said sheet passing thereunder, means to supply an adjustably variable supplemental weight to the fountain to urge said feeding means in damming relationship against the resilient surface of said pad cylinder and to provide a positive drive nip, means to supply plastic material to said feeding means under adjustably variable gaseous fluid pressure, sheet supply means in front of said nip, means to adjustably brake said sheet supply means, sheet take-up means beyond said nip and means to positively drive said sheet take-up means at a greater peripheral speed than that of said pad cylinder.

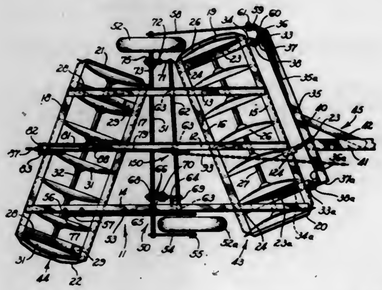


2,349,257

DISK HARROW

Russell T. Evans and John H. Clasen, Anaheim, Calif.

Continuation of application Serial No. 431,010, February 16, 1942. This application January 20, 1943, Serial No. 473,030
20 Claims. (Cl. 55—73)



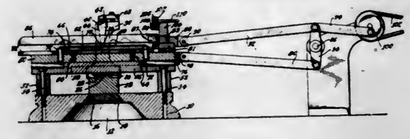
1. A harrow having in combination: a frame; a plurality of soil-working members carried by said frame; a pair of laterally spaced ground wheels to support said frame to various degrees, one of said wheels being positioned to ride upon relatively compact soil and the other of said wheels being positioned to ride upon a layer of relatively loose soil displaced by said soil-working members; means to shift the level relative to the frame of said wheel that rides on compact soil; and means to shift simultaneously in the same direction but at a greater rate the level relative to the frame of said wheel that rides on relatively loose soil, whereby the elevation of the frame relative to the two wheels may be varied to vary the depth of penetration of said members and whereby in varying the relative level of the frame compensation is made for variations in the differences in level of said wheels at different depths of soil penetration by said members.

2,349,258

OLIVAGING MACHINE

Albert Fesselet, Bronx, N. Y.

Application April 15, 1943, Serial No. 483,225
14 Claims. (Cl. 51—154)



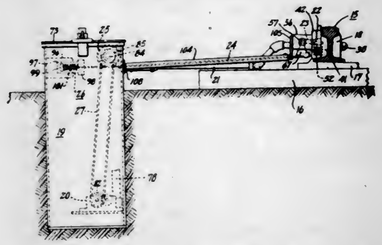
11. In an olivaging machine, in combination, table means, means to mount the table means for rotation in a horizontal plane, adjustable bracket means, jewel supporting means, jewel positioning means and means to alternately reciprocate the jewel positioning means and the jewel supporting means relative to one another.

2,349,259

RAILROAD TRACK EQUIPMENT

Harold Fuller, Middletown, N. Y., assignor, by mesne assignments, to American Brake Shoe Company, a corporation of Delaware

Application January 25, 1941, Serial No. 375,898
15 Claims. (Cl. 184—3)



14. In a railway track lubricator, a track structure comprising a running rail, an oscillatory, wheel-contacting, operating member, means supporting said operating member in the path of wheels of trains passing over said running rail, a lubricant applying device on said track structure for applying lubricant to said wheels, a lubricant supply, pumping apparatus associated with said supply, conduit means connecting said supply and said applying device, a cable connecting said operating member and said pumping apparatus, whereby said operating member pulls said cable to cause said pumping apparatus to deliver lubricant to said applying device.

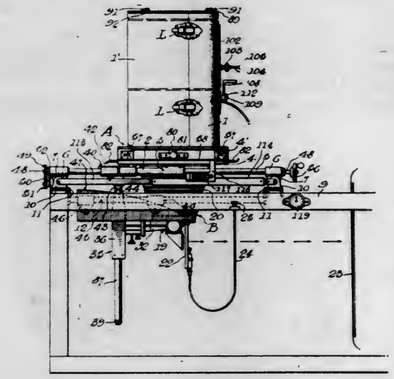
2,349,260

PHOTOGRAPHIC PROJECTOR

George C. Garraway, Rutherford, N. J.

Application January 1, 1943, Serial No. 471,055
6 Claims. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a device of the character described, the combination of a support and a photographic projector including a lamp housing, and an enlarging camera movably mounted on the support, said enlarging camera including an extensible bellows, a light source mounted in the lamp housing, a negative carrier adapted to support a negative beneath the light source, said enlarging camera alined with the optical axis of the photographic projector and adapted to project an enlarged image of the negative onto a sensitized surface, means for moving the photographic projector on the support relative to the surface for producing any desired ratio of enlargement of the negative image on the surface, vertically extending guide rods mounted on said negative carrier, a frame including spaced horizontally extending members, vertically extending side members and bearings extending beween said horizontally extending members and movably mounted on said guide rods, a rigid member mounted on said horizontally extending members of said frame and between said bearings, said rigid member secured to one end of said extensible bellows, cams mounted on said support, rollers mounted on said side members of the frame, said rollers engaging said cams and adapted to ride thereon, whereby said frame is actuated on said guide rods to move said rigid member for actuating said extensible bellows to focus automatically the enlarging camera for any movement of the photographic projector on the support relative to the sensitized surface.

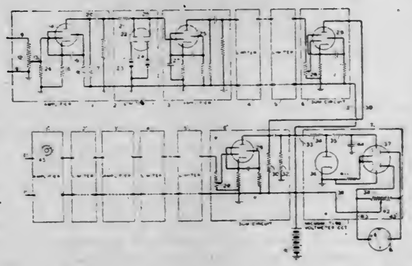


2,349,261

PHASE ANGLE INDICATOR

Edward L. Ginzton, Rockville Centre, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

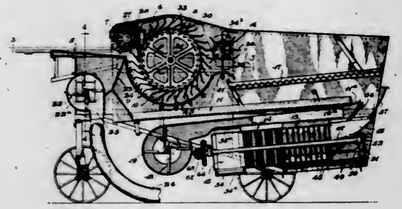
Application February 13, 1942, Serial No. 430,764
9 Claims. (Cl. 172—245)



1. A phase angle indicator comprising a plurality of independent channels, each channel being adapted to receive a respective one of the waves whose phase is to be compared, said channels comprising amplifier and limiting means for converting said waves into square form, each channel having a final amplifier means with an

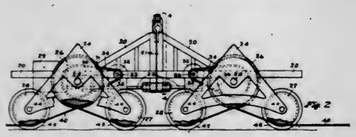
output impedance which is common to the other final amplifier means, the duration of current flow in such impedance means being substantially proportional to the phase angle between the respective waves, means connected for rectifying and filtering the current flowing through said impedance, and means connected to said rectifying and filtering means for measuring the resultant averaged current to thereby provide an indication of the phase angle between said waves.

2,349,262
PEANUT PICKING MACHINE
Daniel F. Good, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,511
8 Claims. (Cl. 130—30)



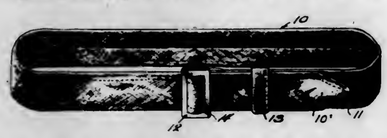
1. In a peanut picking machine, a picking cylinder, a stripping screen or concave bed coacting with said cylinder, a casing providing a chamber in which said cylinder operates, a feed table of open-work construction, and means for creating a suction through said table and also through at least a portion of said screen to thereby withdraw dust and dirt from beneath the vines as they are fed to the picking cylinder over said table and also while being operated on by said cylinder.

2,349,263
VEHICLE
Philip Grabinski, South Prairie, Wash.
Application August 6, 1941, Serial No. 405,653
9 Claims. (Cl. 104—235)



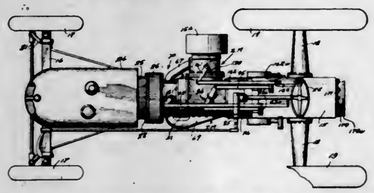
1. In a vehicle of the class described, a first frame member; a longitudinally spaced second frame member pivotally secured to said first frame member for lateral pivotal movement between the said frame members; a driven traction sheave; a driven slack pulling sheave; a prime mover, as a motor, connected with said driven traction and said driven slack pulling sheaves; guide sheaves; an anchored stationary traction cable reeved about said driven traction sheave, said driven slack pulling sheave, and said guide sheave; and vehicle supporting means carried by said frame members and adapted to rest on a supporting surface, whereby the vehicle supporting means may follow the contour of the supporting surface with resultant relative movement between the two frame members.

2,349,264
BELT
Letcher O. Grice, United States Army, Washington, D. C.
Application March 13, 1942, Serial No. 434,515
3 Claims. (Cl. 2—321)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with a belt having an overlapping end portion and a blunt end portion, connecting means comprising a buckle having a front plate, two parallel slots and a bar inwardly spaced from the sides of said buckle, a buckle loop having one end turned rearwardly upon itself and engaging said bar, and means for permanently securing the turned end of the loop to said bar, the unturned part of said loop lying under one side of the buckle, and fastening means secured to the unturned end of the buckle loop connecting with fastening means secured to the blunt end of the belt thereby forming a joint between said blunt end of the belt and said unturned portion of the loop, said overlapping portion of the belt being in intimate contact with the uppermost face of said joint, said fastening means thus adapting the belt loop and buckle secured thereto to be completely removed as a unit from said belt or permitting the belt to be adjusted and fixed at any desired size while at the same time permitting the belt to be unfastened without changing the belt from the fixed size or disturbing the overlapping end portion of the belt.

2,349,265
TRACTOR WITH HYDRAULIC DRIVE
Joseph O. Hamren, Minneapolis, Minn.
Application April 19, 1941, Serial No. 389,379
18 Claims. (Cl. 180—66)



1. A tractor with fluid drive and transmission having a frame, driving wheels, a differential gearing for driving said wheels, an internal combustion motor mounted at the forward part of said frame comprising a rotating driving element, a pump having a drive shaft directly connected to said element, a fluid operated motor driven by fluid under pressure from said pump, a conduit connecting said pump and fluid operated motor for supplying fluid under pressure to said fluid operated motor, said motor having portions to which liquid is delivered to rotate said motor in opposite directions respectively, a second conduit connecting said pump and motor for returning fluid to said pump, a shaft driven by said fluid operated motor, means for connecting and disconnecting each of said portions of said motor to and from said shaft respectively and means connecting said shaft and said differential gearing.

2,349,266
IRON AND STEEL PRODUCTS AND PROCESS OF PRODUCING THE SAME
James C. Hartley, Norwalk, Conn., and Otto H. Henry, Caldwell, N. J., assignors to Minerals and Metals Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 7, 1940, Serial No. 369,052
10 Claims. (Cl. 75—22)

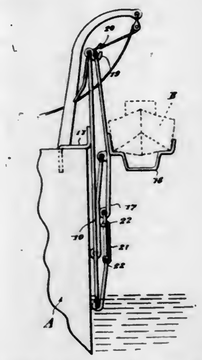
1. An iron or steel product which, both in its unfinished and in its finished condition, has, as an inclusion within the matrices of grains thereof and in noneutectic relation to the iron, a compound, other than manganese sulfide, of an element of a group consisting of sulfur, phosphorus, titanium, silicon.

2,349,267
ACYLATED DERIVATIVE OF VITAMIN B_6 AND PROCESS OF PREPARING THE SAME
Stanton A. Harris, Westfield, N. J., and Eric T. Stiller, New York, N. Y., assignors to Merck & Co., Inc, Rahway, N. J., a corporation of New Jersey
No Drawing. Application November 2, 1940, Serial No. 364,030
8 Claims. (Cl. 260—297.5)

1. A compound selected from the group consisting of 2-methyl-3-hydroxy-4,5-bis(acetoxymethyl)pyridine, and the hydrohalide salts thereof.

6. The process that comprises reacting 2-methyl - 3 - hydroxy-4:5-bis(bromo-methyl) pyridine hydrobromide with silver acetate in glacial acetic acid.

2,349,268
QUICK-ACTING LAUNCHING DEVICE FOR BOATS AND THE LIKE
Harrison C. Hartzog, Port Lavaca, Tex.
Application May 14, 1942, Serial No. 442,969
5 Claims. (Cl. 9—22)



5. A launching device of the class described comprising a supporting frame adapted to be carried by a support such as a carrier ship, dock, and the like, a boat-carrying frame hinged near the lower end of the supporting frame and being adapted to swing downwardly and away from said supporting frame to a boat-discharging position for quickly depositing a boat carried thereby upon the surface of the water beyond the support, and check means adapted to contact the water in which the boat is to be launched to check the fall of the boat and protect the launched boat from injury.

2,349,269
RECOVERY OF TOCOPHEROL
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application March 2, 1940, Serial No. 321,913
13 Claims. (Cl. 260—333)

1. The process of preparing a tocopherol concentrate which comprises in combination subjecting a tocopherol-containing vegetable or animal fat, other than hydrogenated sesame oil, to vacuum deodorization with an inert gas, removing from the inert gas, after it has passed through the fat a lighter-than-water complex organic mixture which includes tocopherol and separating tocopherol in concentrated form from this lighter-than-water mixture.

2,349,270
PURIFICATION OF SLUDGES, SCUMS, AND THE LIKE TO PREPARE RELATIVELY PURIFIED TOCOPHEROL
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application August 24, 1940, Serial No. 354,113
4 Claims. (Cl. 260—333)

1. The process for separating tocopherol from refinery scum, which scum is condensed from the inert gas employed during the vacuum deodorization of an animal or vegetable oil which contains tocopherol which process comprises subjecting the scum to a chemical treatment which will release the tocopherol contained therein and enable its separation from the balance of the impurities present and then extracting this mixture with a solvent for tocopherol.

2,349,271
PRODUCTION OF TOCOPHEROL OR VITAMIN E
James G. Baxter, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application August 30, 1940, Serial No. 354,859
1 Claim. (Cl. 260—333)

The process of preparing a tocopherol product having improved color and stability which comprises reacting a lighter-than-water crude tocopherol preparation derived from the matter volatilized during vacuum steam deodorization treatment of a member of the group consisting of vegetable and animal fats with a substance which will react therewith to form a tocopherol ester of an aliphatic acid said reaction being carried out in the presence of an amine and under reducing conditions sufficiently strong to reduce any tocopherol quinone, which is present in the starting material or formed during the reaction, to tocopherol hydroquinone.

2,349,272
TOCOPHEROL PREPARATION
Kenneth C. D. Hickman and Noel H. Kuhrt, Rochester, N. Y., assignors to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
Application September 25, 1940, Serial No. 358,270
4 Claims. (Cl. 260—333)

1. In a process of purifying tocopherol contained in deodorizer scum the steps which comprise subjecting the scum to the action of a

purifying and concentrating agent and to a powerful reducing agent which is capable of reducing at least part of the oxidation products of tocopherol into a substance having substantially the same distillation temperature and vitamin E activity as the tocopherol from which said oxidation products were derived, subjecting the reduced tocopherol preparation to high vacuum unobstructed path distillation and separating the tocopherol and its reduced oxidation products as a single fraction at a temperature of about 160° C.

2,349,273

PROCESS FOR PREPARING TOCOPHEROLS AND NEW TOCOPHEROL DERIVATIVES

James G. Baxter and Charles D. Robeson, Rochester, N. Y., assignors to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application October 9, 1940, Serial No. 360,455

8 Claims. (Cl. 260—333)

1. The process for preparing an improved tocopherol product from a relatively impure source material which contains the tocopherol in free form which process comprises esterifying the impure source material with an aliphatic acylating agent to form a tocopherol fatty acid ester dissolving the ester in a solvent, cooling the solution of tocopherol ester and liquid solvent until crystalline tocopherol esters are formed and separated therefrom and separating the crystalline ester from the liquid solvent.

2,349,274

ANTIOXIDANT

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Original application March 2, 1940, Serial No. 321,913. Divided and this application October 17, 1941, Serial No. 415,425

14 Claims. (Cl. 99—163)

6. The process of protecting a substance which is normally subject to oxidation which comprises adding thereto a relatively small amount of lighter-than-water tocopherol containing vapor condensate derived from the vacuum-steam deodorization of a fat which contains tocopherol, said vapor condensate being condensed and separated from the steam after it has been passed through the fat being deodorized.

2,349,275

SEPARATION OF TOCOPHEROL FROM SCUM WITH SOLVENTS

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application November 25, 1941, Serial No. 420,366

6 Claims. (Cl. 260—333)

1. The process of concentrating the tocopherol contained in lighter-than-water scum derived from the steam utilized for the vacuum-steam deodorization of vegetable or animal oils which contain tocopherol, which comprises directly dissolving the unmodified scum in a solvent in which tocopherol is soluble but in which the constituents of the scum are at least partially insoluble at a lower temperature and then cooling the solution to a temperature at which the constituents of the scum are precipitated.

2,349,276

PREPARATION OF TOCOPHEROL PRODUCTS

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application December 6, 1941, Serial No. 422,014

4 Claims. (Cl. 260—333)

1. The process for preparing a tocopherol concentrate from lighter-than-water scum removed from the carrier gas utilized for the carrier gas-vacuum deodorization treatment of a vegetable or animal glyceride which contains tocopherol, which comprises treating the scum with an alkaline adsorbent.

2,349,277

PREPARATION OF STABILIZED EDIBLE SUBSTANCES

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application February 19, 1942, Serial No. 431,596

8 Claims. (Cl. 99—163)

1. The process of preparing a deodorized edible substance of improved stability which comprises adding to the edible substance, scum derived from the carrier-gas utilized for the vacuum-carrier gas deodorization treatment of a member of the group consisting of vegetable and animal glycerides which contain tocopherol and then subjecting this mixture to vaccum deodorization under conditions insufficient to volatilize a substantial amount of the tocopherol contained in the added scum.

2,349,278

PREPARATION OF TOCOPHEROL-CONTAINING MATERIALS AND PRODUCTS

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application June 10, 1942, Serial No. 446,524

2 Claims. (Cl. 260—398.5)

1. The process of preparing a stabilized fat containing tocopherol which comprises adding to the fat, scum which contains tocopherol and which is produced during the vacuum-carrier gas deodorization treatment of a fat which contains tocopherol, subjecting this mixture to a mild vacuum-deodorization treatment whereby most of the free fatty acids and odors but little of the tocopherol contained in the scum are removed, and then subjecting the deodorized mixture to an alkali-refining treatment.

2,349,279

SELECTIVE SWITCH

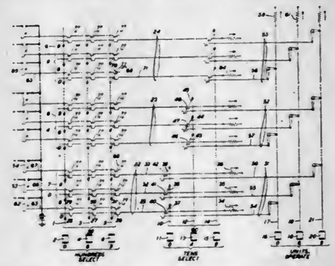
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 2, 1943, Serial No. 477,718

4 Claims. (Cl. 179—27.54)

1. The combination in a switching device of a plurality of switching groups of separately-operable sets of contacts, contact actuating elements individual respectively to said contact sets, said contact sets and actuating elements being arranged in rows in two coordinate directions, bars individual respectively to the rows of actuating elements in a first coordinate direction, first select magnets individual respectively to the rows of actuating elements in the second coordinate

direction, each of said rows in the second coordinate direction comprising actuating elements in all of said switching groups, the energization of any one of said first select magnets serving to prepare the associated actuating elements, second select magnets individual respectively to said switching groups, the energization of any one of said second select magnets serving to select for operation all of the bars associated with the corresponding switching group, operate magnets,



each serving a bar for each of said switching groups, the energization of any operate magnet in conjunction with said select magnets serving to move a particular bar of the selected switching group into operative relation with the corresponding prepared actuating element, and means acting on said bar for returning it to its normal position when said operate magnet is deenergized, said bar on its return movement acting upon the prepared actuating element to operate the associated set of contacts.

2,349,280

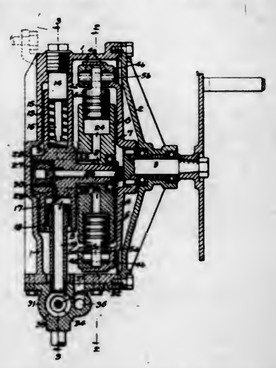
PUMP

Joseph F. Joy, Claremont, N. H.

Application March 18, 1942, Serial No. 435,187

6 Claims. (Cl. 103—161)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. A fluid pump comprising a pump casing, a shaft journalled in an end of said casing, an annular member coaxial with said shaft and carried by the inner end thereof, a pump base in said casing, a trunnion on said pump base movable between positions of varying eccentricity with relation to said shaft axis but parallel thereto, a pump body rotatable about the axis of said trunnion, cylinders in said pump body, pistons reciprocable in said cylinders connected to said annular member, discharge pressure responsive means adapted to decrease the eccentricity of said trunnion axis as the discharge pressure is increased, said pump base being slidable in said case from a position in which the trunnion has a maximum eccentricity with relation to the shaft to a position of less eccentricity; a regulating cylinder in said pump body axially parallel to the line on which said base is slidable, a piston in said cylinder connected to said pump casing, means to apply discharge pressure to said regulating cylinder, and spring means opposing sliding movement of said base.

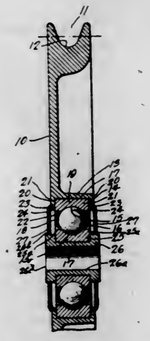
2,349,281

PULLEY BEARING

George H. Kendall, Noroton Heights, Conn.

Application February 7, 1942, Serial No. 429,877

7 Claims. (Cl. 308—191)



1. A device of the character described comprising a bimaterial unitary substantially integral rotatable structure including a circular body member in the form of a pulley or similar article and formed on its periphery to cooperate with a driving means running thereon, a single one piece preformed continuous hardened metal anti-friction bearing raceway ring mounted in said body concentric with said periphery forming a track for the rolling elements and of sufficient thickness to carry the normal rolling load, said body member being of different material than the ring but of a degree of hardness to withstand the load without materially changing its repose dimensions, and said ring having an unfinished outer surface permanently bonded to the material of the body to mount and hold the ring permanently in a given position in said body whereby the track surface may be finished with respect to the pitch line of said working periphery after mounting of the ring in the body and bonding it thereto so that the track surface may be brought into exact axial and concentric alignment with the pitch line of the working periphery of the body member.

2,349,282

COLORING OF ORGANIC DERIVATIVES OF CELLULOSE

Jean G. Kern, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York

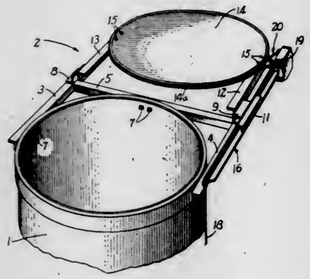
No Drawing. Application February 25, 1939, Serial No. 258,573

16 Claims. (Cl. 8—40)

1. A composition in the solid form for coloring organic derivatives of cellulose, organic solvents,

oils, resins, lacquers, and the like, comprising a solid solution of a water-insoluble organic coloring agent selected from the class consisting of dyestuffs for organic derivatives of cellulose and diazotizable aromatic amine bases which are intermediates for developed azo dyestuffs for said cellulose derivatives, in a water-soluble amide having a melting point of at least 50° C.

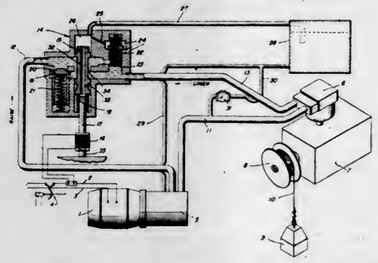
2,349,283
COVER MECHANISM
John A. King, George Kellogg, and Frank Goodwin, Interlaken, N. Y.
Application December 3, 1940, Serial No. 368,374
8 Claims. (Cl. 98—59)



1. A smokestack cover comprising, in combination, a support adapted to be secured to a smokestack in the proximity of the top thereof, a cover movably mounted on said support and movable between a covering and an uncovering position and overbalanced with respect to a dead-center position intermediate said covering and uncovering positions to assume either of said covering or uncovering positions, pivoted lever means mounted on said support for moving said cover to its positions, an operating lever pivotally mounted on said support and movable to two positions corresponding to the covering and uncovering positions of said cover and overbalanced with respect to said dead-center position to assume either of said two positions, operating means for pivoting said operating lever from either of its two positions past dead-center to shift the operating lever to the other of its two positions, a driving connection between said operating lever and said pivoted lever means whereby said operating lever is adapted to move said pivoted lever means from one of its positions through dead-center, said driving connection being loose to permit relative movement between the operating lever and pivoted lever means, locking means operatively connected to and swingable with said operating lever for locking unlocking said cover in either of its two positions and operated by said operating lever as it moves relative to said pivoted lever when said pivoted lever is in a state of rest in either of its two positions.

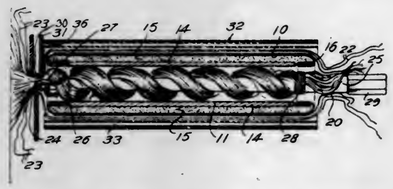
2,349,284
SAFETY DEVICE FOR HYDRAULIC POWER TRANSMISSION APPARATUS
Gerald W. Kinzelman, Washington, D. C.
Application April 7, 1942, Serial No. 437,924
4 Claims. (Cl. 254—173)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a drum hoist for raising and lowering a load, the combination comprising a first hydraulic pump-motor device of the rotary type connected to said drum, said device being operable as a fluid motor when driving said drum to raise a load and as a fluid pump when being driven by said drum as the load carried by said drum is permitted to lower itself through its own weight; a second hydraulic pump-motor device of the rotary type; a fluid transmission system connected between said first and second pump-motor devices; a dynamo electric machine connected to said second pump-motor device, said electric machine being connected to a power source, said electric machine being operable as a motor receiving energy from said power source when driving said second pump-motor device as a pump and as a generator feeding energy back to said power source when being driven by said



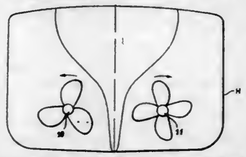
second pump-motor device operating as a motor; and valve means connected in said fluid transmission system for controlling the flow of fluid therethrough, said valve means including a stop valve operable either upon an interruption of current flow to said electric machine when operating as a motor or from said electric machine when operating as a generator to block fluid flow in said system, a check valve openable against a pre-selected fluid pressure to by-pass said stop valve after said current has been interrupted when said electric machine is being operated as a motor, and a second check valve openable against a pre-selected fluid pressure to by-pass said stop valve after said current has been interrupted when said electric machine is being operated as a generator.

2,349,285
METHOD OF PERMANENT WAVING AND A PERMANENT WAVING HEATER
Frederick Korf and William F. Zentler, Crestwood, N. Y., assignors to Sales Affiliates, Inc., New York, N. Y., a corporation of New York
Application June 23, 1932, Serial No. 618,878
31 Claims. (Cl. 132—36.2)



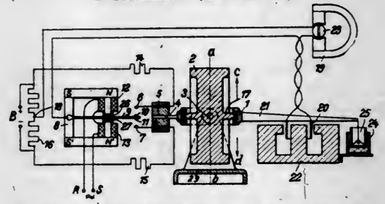
1. A hair waving tube of the character described comprising preformed tubular pliable enveloping walls containing a pulverulent material capable of being activated to generate heat envelope being formed with perforations, and an impermeable wrapper sheathing tightly encasing the same.

2,349,286
PROPELLERS FOR MULTIPLE PROPELLER SHIPS
Johann Kreitner, Brooklyn, and Robert M. Kristal, New York, N. Y.
Application June 6, 1940, Serial No. 339,086
3 Claims. (Cl. 115—37)



1. In a power-propelled water craft having a hull constructed to float in the water, the combination with said hull, of a plurality of power driven propellers spaced transversely on opposite sides of the center of said hull and symmetrically arranged relative thereto, each of said propellers having individual blades, the propeller on one side of the center of said hull having a different number of blades from the correspondingly arranged propeller on the opposite side of the center thereof.

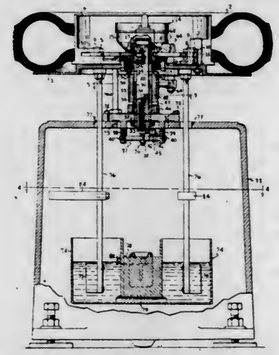
2,349,287
DEVICE FOR CONTROLLING PRECESSIONAL FORCES IN GYROSCOPES
Adolf Krüssmann, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian
Application March 1, 1940, Serial No. 321,805
In Germany February 10, 1939
4 Claims. (Cl. 74—5)



1. A device for opposing and counterbalancing precession of an angular rate gyroscope mounted for precessional movement comprising the combination of an electric relay system including an A. C. power source, an electromagnet energized by said A. C. source to produce an alternating magnetic field, a rotatable coil situated in the field of the electromagnet, means associating said coil and the gyroscope so that the coil is displaced relative to the electromagnetic field in proportion to the degree of precessional movement of the gyroscope and in a direction depending upon the direction of such precessional movement, to thereby provide an induced variable alternating electromotive force in said relay system, a servo motor in said system controlled by the induced electromotive force from the rotatable coil and by the alternating current delivered thereto by the alternating power source, said servo motor being rotatably connected to the gyroscope to thereby exert an oppositely directed torque about the axis of precession of said gyroscope counterbalancing the precession thereof.

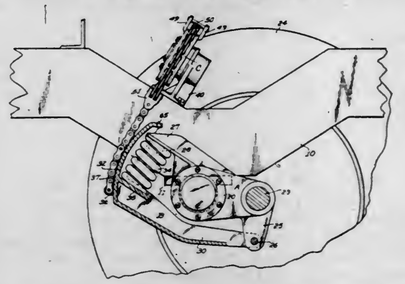
2,349,288
BALANCE TESTING MACHINE
Joseph P. Lannen, Detroit, Mich.
Application September 9, 1940, Serial No. 355,941
23 Claims. (Cl. 73—53)

1. In a balance testing machine, a work carrier formed with a central opening, a normally fixed support for the carrier upwardly projecting into said opening, an elongated element having an upper portion secured to said support for universally pivoting the carrier, and means within said opening for clamping the carrier to



said element, said element having a freely flexible length of substantially circular cross section extending in spaced relation to said support between said secured upper portion and said clamping means.

2,349,289
VEHICLE WHEEL MOUNTING
Glenn L. Larison, La Grande, Oreg., assignor to Larison Compensating Axle Corporation, a corporation of Oregon
Application March 12, 1943, Serial No. 478,867
6 Claims. (Cl. 280—124)

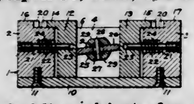


1. In a vehicle, a mounting for a pair of wheels including, a pair of wheel-carrying assemblies, said assemblies hinged at one end on said vehicle for up and down movement, the hinges of said wheel-carrying assemblies being in transverse alinement, said wheel-carrying assemblies extending in the same direction, each wheel-carrying assembly having a downwardly extending portion, an associated member located below each wheel-carrying assembly in the same vertical plane with the wheel-carrying assembly, one end of said associated member connected to the downwardly extending portion of the wheel-carrying assembly, the other end of the member extending beyond the hinge of its wheel-carrying assembly, intermediate means extending from the wheel-carrying assembly to its associated member, compensating mechanism connecting said other ends of said associated members, whereby upward movement of one wheel-carrying assembly will cause a force in the opposite direction to be exerted on the other wheel-carrying assembly.

2,349,290
METHOD OF IMPROVING THE ADHESION OF NYLON TO RUBBER
Dwight L. Loughborough, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application November 1, 1941, Serial No. 417,573
12 Claims. (Cl. 117—7)

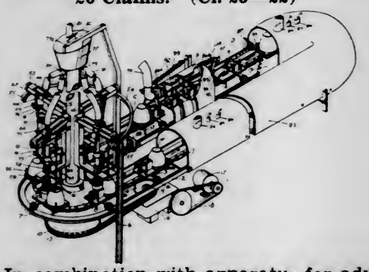
6. In a method of making a composite product in which cord comprising nylon yarn is associated with a vulcanizable but unvulcanized solid rubber composition and the rubber then subjected to vulcanization, the process which comprises the additional steps of treating the cord with a nylon solvent, immersing the treated cord in an aqueous dispersion of a rubber material, and drying the coated cord under a tension sufficient to maintain the cord in substantially its original length, all before associating the coated cord with the solid rubber composition.

2,349,291
VISE
Leo Meister, Irvington, N. J.
Application December 26, 1942, Serial No. 470,271
4 Claims. (Cl. 81—26)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A vise for holding objects for manual operation, comprising a chambered block having end and side walls, the end walls constituting fixed jaws, a step formed on the top of each of said jaws, two movable jaws in the block chamber movable to and from the fixed jaws, each formed with a portion adapted to slide on the tread of the step of the fixed jaws and cooperate with the riser of said step to grip objects between said jaws, a shaft rotatably journaled in the side walls between the movable jaws, and means carried by said shaft to move the movable jaws upon the rotation of said shaft.

2,349,292
METHOD AND APPARATUS FOR APPENDAGING POTTERY WARE
William J. Miller, Swissvale, and Ashley J. Reek, Carrick, Pa.; said Reek assignor to said Miller
Application May 7, 1941, Serial No. 392,276
26 Claims. (Cl. 25—22)



1. In combination with apparatus for advancing a line of appendage casting molds and prefabricated ware along a path wherein appendages are slip cast in said molds and united to the ware, means arranged to feed charges of slip to said molds whilst moving in said path, an appendage setting chamber through which the apparatus travels and means for reconditioning empty molds.

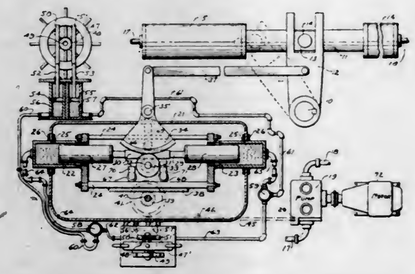
2,349,293
BACTERIA ANTIGEN FOR THE TREATMENT OF DIPHTHERIA
Orry Charles Morrison, Carroll, Iowa
No Drawing. Application May 2, 1938, Serial No. 205,623
7 Claims. (Cl. 167—78)

1. The method of producing immunizing material which comprises segregating a substantially pure culture of diphtheriae, multiplying the culture upon a protein medium, separating the resulting bacterial growth from the culture medium, subjecting the bacteria to a temperature of the order of 56° C. high enough to destroy them and to precipitate all protein matter therein, comminuting the bacteria, and removing all solid matter from the resulting ground material.

2,349,294
BACTERIA ANTIGEN FOR THE TREATMENT OF SCARLET FEVER
Orry Charles Morrison, Carroll, Iowa
No Drawing. Application May 2, 1938, Serial No. 205,624
7 Claims. (Cl. 167—78)

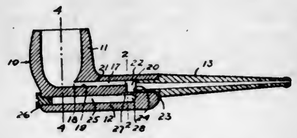
1. The method of producing immunizing material which comprises segregating a substantially pure culture of *Streptococcus scarlatinae,* multiplying the culture upon a protein medium, separating the resulting bacterial growth from the culture medium, subjecting the bacteria to a temperature of the order of 56° C. high enough to destroy them and to precipitate all protein matter therein, comminuting the bacteria, and removing all solid matter from the resulting ground material.

2,349,295
HYDRAULIC CONTROL MECHANISM
Charles H. Napier, Bethesda, Md.
Application April 10, 1943, Serial No. 482,881
4 Claims. (Cl. 60—52)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The combination with a ship's rudder, of actuating means for said rudder, control means for said actuating means, a double acting fluid operated telemotor comprising a pair of pistons connected together for operation as a unit, a pair of cylinders for said pistons, means connecting said cylinders together, bearing means for supporting said cylinders to permit the latter to move as a unit relative to said pistons, means connecting said rudder with said pistons so that only movement of said rudder will effect movement of said pistons, means connecting said movable cylinders to said control means for operation of the latter, and means for admitting fluid under pressure from a steering position to either one of said cylinders to effect movement thereof and of said control means in one direction to initiate operation of said rudder actuating means, movement of said rudder then being effective to move said pistons and cylinders as a unit in an opposite direction to restore said control means to its initial position and stop operation of said rudder actuating means.

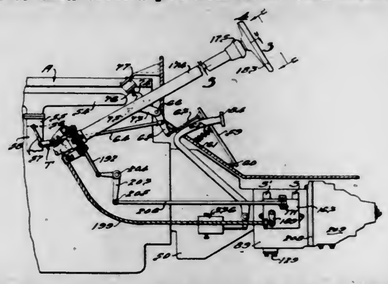
2,349,296
PIPE
Edward F. Needham, Alhambra, Calif.
Application September 30, 1942, Serial No. 460,182
1 Claim. (Cl. 131—215)



In a smoker's pipe, a body having a bowl portion at one end thereof, said body having a flat lower surface and having upwardly and outwardly flaring sides and a rounded top, said bowl portion having a flat lower surface and a curved upwardly flaring outer wall, said body having an upper bore the axis of which is substantially perpendicular to the axis of the bowl, said bore communicating at its inner end with the bowl, said body having a chamber adjacent to the other end thereof, said chamber being larger than and communicating with said bore, a stem having an end portion extending into said chamber, said stem having a hole therethrough, said hole having its axis below the axis of the bore, the inner end of said stem having a flat annular shoulder forming an obstruction in said chamber, the top of said chamber being flush with the top of said bore, a second bore extending forwardly from said chamber, said second bore being below and having its axis parallel to the first bore and arranged in the body of said pipe, said second bore being spaced from the first bore by a wall portion which is imperforate, said second bore being of larger diameter than the first bore and being disposed adjacent to the lower portion of the body, said second bore opening outwardly under the bowl, a plug closing the open end of said second bore, said body having a third bore therein, said third bore having its axis diagonally arranged to permit drilling the third bore by a drill inserted through the chamber from the rear end of the pipe, said third bore connecting the chamber and said second bore, said third bore being disposed in the body adjacent the inner end of said stem and affording communication between the first and second bores, said body having a portion overhanging the inner end of the second bore whereby a trap is provided, said overhanging portion terminating at its top adjacent the shoulder on the inner end of said stem.

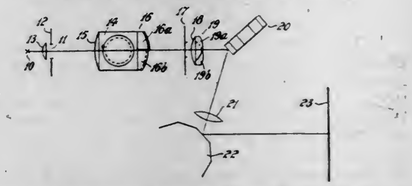
2,349,297
POWER TRANSMISSION
Carl A. Neracher, William T. Dunn, Augustin J. Syrovy, and Otto W. Schotz, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application January 16, 1941, Serial No. 374,674. Divided and this application March 9, 1942, Serial No. 433,920
12 Claims. (Cl. 74—346)

1. In a power transmission, a shift rail adapted for shifting from neutral position to a first drive establishing position and for further shifting in the same direction to a second drive establishing position; manually operable means for shifting said rail to said first position; a lost motion connection between said rail and said manually operable means operable to permit shifting of said rail to said second position while said manually



operable means remains in said first position, means separate from said manually operable means for shifting said rail to said second position, and means actuated by said separate rail shifting means opposing return of said manually operable rail shifting means to said neutral position during shift of said rail to said second position.

2,349,298
TELEVISION RECEIVER
Ferenc Okolicsanyi, Kensington, London, England, assignor to Scophony Corporation of America, New York, N. Y., a corporation of Delaware
Application July 31, 1940, Serial No. 348,892
In Great Britain August 3, 1939
11 Claims. (Cl. 178—7.3)

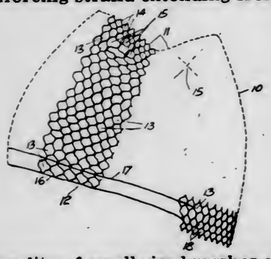


1. In a television receiver employing a mechanical scanner, an aperture an image of which is to be moved by said scanner, an optical focussing member having power in the scanning direction of said scanner and situated between said aperture and said scanner and being divided along planes parallel to said scanning direction into a plurality of focussing elements having their optical centres displaced relatively to one another in the scanning direction, a divided field lens member in the plane of said aperture for projecting light passing through each element thereof on to a corresponding element of said focussing member and an optical system having power in a direction at right angles to said scanning direction for forming with said focussing member a final image of said aperture.

2.349.299
HAIR NET
Saul Oliner, Brooklyn, N. Y.
Application July 1, 1943, Serial No. 492,983
6 Claims. (Cl. 132—49)

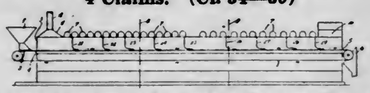
6. A self-adjusting hair net of interwoven strands forming a cap portion of large sized

meshes, said net having a crown opening and a bottom opening, a plurality of small sized meshes surrounding said crown opening, a number of extra large sized meshes formed by eliminating adjoining large sized meshes at selected points near said crown opening, a plurality of small sized meshes at the neck portion of said bottom opening, a reinforcing strand extending from the sides



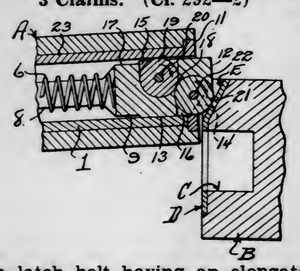
of said plurality of small sized meshes at the neck portion around the periphery of the net at its bottom opening, and another reinforcing strand extending around the net in spaced relation to and of greater length than said first mentioned reinforcing strand, the ends of said other strand being spaced apart less than the width of the plurality of small sized meshes at the neck portion of the net.

2,349,300
EXPLOSIVE
Fredrich Olsen, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Delaware
Application January 2, 1942, Serial No. 425,417
4 Claims. (Cl. 34—39)



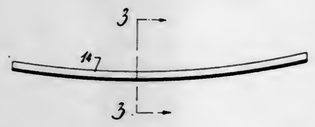
1. In the manufacture of explosives, the process of drying wet granular organic nitro explosive material, comprising, feeding the wet material upon a conveyor, moving the laden conveyor through an enclosure irradiated with near infrared light of an intensity such as to maintain a temperature of at least 65° C. at the upper surface of the grains on the conveyor, moving the conveyor at a rate such that the grains remain in radiation zone for at least five minutes, and discharging the material from the conveyor at the end of the enclosure.

2,349,301
ANTIFRICTION DOOR LATCH
Theodore A. Overby, Aberdeen, S. Dak.
Application March 2, 1942, Serial No. 433,049
3 Claims. (Cl. 292—2)



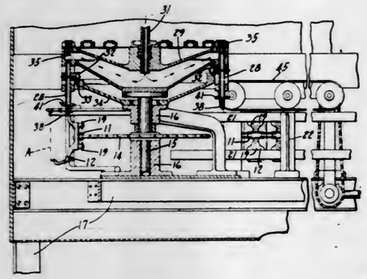
1. In a latch bolt having an elongated body provided with a head at its outer end, the said head having a pair of recesses therein communicating with each other and opening through the front and a side edge of the head respectively, a pair of parallel rollers rotatably mounted in and contacting in the respective recesses, the said rollers having side portions protruding through the openings in the front and side edges of the head for contact with a keeper and the side wall of a bolt casing respectively.

2,349,302
WHEELED SCRAPER
Thomas R. Paulsen, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Original application February 13, 1939, Serial No. 256,089. Divided and this application July 23, 1941, Serial No. 403,682
4 Claims. (Cl. 76—113)



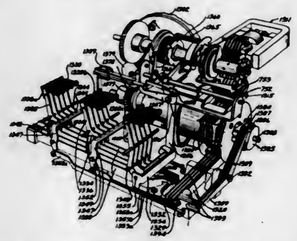
4. The method of making the blade for a dirt-digging scoop which consists in: taking a long narrow piece of plate metal; bending the blade cylindrically about an offset longitudinal axis; and bending it cylindrically about an offset transverse axis.

2,349,303
COATING MACHINE
Nicholas Pelosi, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 22, 1940, Serial No. 353,773
6 Claims. (Cl. 226—20)



1. In a machine for coating containers with paraffin and the like, the combination of a conveyor for carrying coated containers having an attached closure element adjacent a pouring opening along a predetermined path of travel, means for holding the closure element in a normally open position, and piercing means disposed adjacent the path of travel of the container, adapted to enter the said pouring opening to visibly mutilate the closure element when it is in an abnormally closed position over the pouring opening so that the container may be readily detected upon inspection and may be discarded, said piercing means comprising a hollow tube designed for the free passage of air therethrough to be charged in the coated containers when the tube is inserted into said pouring opening.

2,349,304
SELECTIVE SIGNALING SYSTEM AND APPARATUS
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application March 25, 1931, Serial No. 525,189
Renewed May 3, 1939
74 Claims. (Cl. 178—23)



1. In a telegraph selecting device, a series of groups of elements to be selected, a single magnet, and means to bring different ones of said groups under the mechanical control of said magnet.

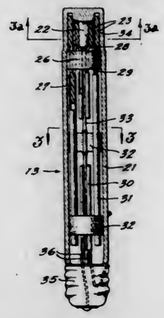
32. In a recorder, a typewheel for printing on a continuous record receiving material; and a roll adapted to control the path of the material and mounted on the same axis as the typewheel.

2,349,305
TWO-STROKE INTERNAL-COMBUSTION ENGINE
Herman Theodor Pyk, Saltsjo-Duvnas, Sweden
Application June 13, 1940, Serial No. 340,266
In Sweden April 6, 1940
5 Claims. (Cl. 123—32)



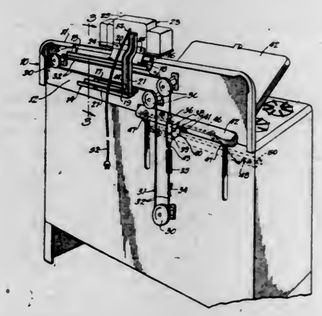
1. In a two-stroke internal combustion engine, a cylinder including a head and having piston-controlled scavenging air and exhaust ports in the wall thereof, a fuel injector centrally located in the cylinder head, and a piston including a head reciprocable in said cylinder, the peripheral marginal surfaces of the piston head and the cylinder head being conical to provide an annular frusto-conical clearance space immediately adjacent to the cylinder wall when the piston is at one end of its stroke, said space being inclined radially inwardly toward the head end of the cylinder, the portions of the surfaces of the cylinder head and the piston head immediately adjacent to the inner periphery of said marginal surfaces extending in directions respectively diverging from the imaginery conical envelope obtained by extending said marginal clearance space radially inwardly towards the axis of the cylinder and the portions of said surfaces inwardly of the first mentioned portions being shaped to provide a combustion chamber of shallow depth in relation to its diameter extending in open and unobstructed fashion to the inner margin of said conical clearance space and having substantial portions of its volume located on either side of said envelope and immediately adjacent to said clearance space when the piston is at said one end of its stroke.

2,349,306
THERMOELECTRIC DEVICE
William A. Ray, Los Angeles, Calif.
Application September 12, 1941, Serial No. 410,545
4 Claims. (Cl. 136—4)



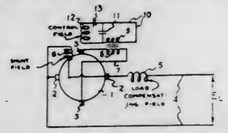
1. A thermoelectric generator comprising a plurality of pairs of elongated thermocouple elements annularly arranged in substantially parallel axial relation to each other and joined in electrical series to form a thermopile having hot and cold junctions at its opposite ends, and an elongated hollow cylindrical member of vitreous material having a closed end provided with an internal annular recess for so closely receiving the hot-junction portions of said elements that they are maintained in good heat-transfer relation to the member.

2,349,307
ACCESSORY MOUNTING FOR COOKING RANGES
Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application January 6, 1940, Serial No. 312,661
11 Claims. (Cl. 126—214)



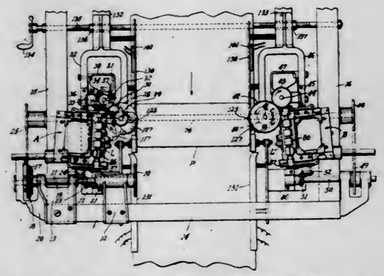
1. A range having heating means at a portion of the top thereof, a cover for said means when the latter is not in use, means pivotally supporting said cover at the rear portion thereof whereby the front of said cover may be swung upward from its horizontal position to render said heating means usable, an outside accessory unit shiftably mounted on said range, and means operatively connecting said cover to said unit so that said unit is shifted automatically in response to movement of said cover.

2,349,308
VOLTAGE REGULATOR
Jeff Smith Rhyne, Detroit, Mich.
Application July 20, 1943, Serial No. 495,432
4 Claims. (Cl. 171—223)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Means for regulating the output voltage of a generator comprising, in combination with a generator having a pair of output brushes and a pair of short-circuited brushes in alternating relation, a transformer having its primary in the circuit of one of said pairs of brushes, a resonant circuit containing the secondary of said transformer, a control field winding in said resonant circuit, a rectifier in series with said control field winding, and a shunt field winding connected to said output brushes and located in opposition to the field of said control winding.

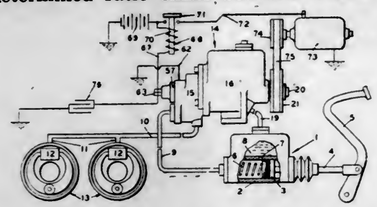
2,349,309
END LABELING PROCESS AND APPARATUS
August J. Schmidt, Glendale, and John Jackson, Brooklyn, N. Y., assignors to American Machine & Foundry Company, a corporation of New Jersey
Application March 2, 1940, Serial No. 321,820
2 Claims. (Cl. 216—53)



1. A process comprising heat sealing overlapped end folds of a package having a wrapper provided with an external fusible coating and thereby rendering tacky the exposed faces of the overlapped end folds, applying coated labels to said end folds while the exposed faces thereof are tacky, and heating the labeled package ends to secure the applied labels to said end folds.

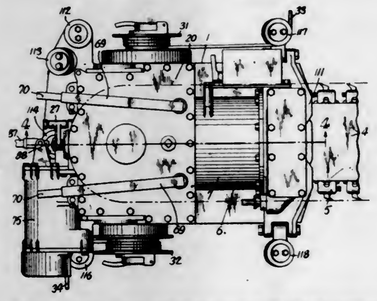
2,349,310
PUMP AND CONTROL MEANS THEREFOR
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application May 23, 1942, Serial No. 444,176
10 Claims. (Cl. 60—52)

2. In a fluid pressure actuating system, a source of fluid pressure, a fluid motor, conduit means for placing the source in communication with the fluid motor, a fluid pressure pump having its outlet communicating with the fluid motor, driving means for the pump, electrical means for controlling the driving means and comprising an electrical circuit and a switch, means for closing the switch by fluid pressure from the source, means for opening the switch when the pressure developed by the pump is such that a predetermined ratio exists between it and the



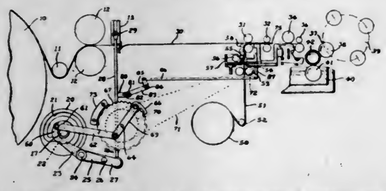
fluid pressure from the source, means for decreasing the pump-developed pressure in the fluid motor, and means for operating the last named means by a decrease of the pressure from the source.

2,349,311
MINING MACHINE
Leon E. Simmons, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application April 17, 1941, Serial No. 389,016
11 Claims. (Cl. 262—30)



1. In a mining machine, the combination comprising a main frame, a horizontal motor having a motor casing, a horizontal plane cutter bar having a cutter chain movable in an orbit about its margin, said motor casing having its bottom portion lying within the cutter chain orbit, and said main frame and motor casing providing guideways for slidingly receiving and supporting the rearward portion of said cutter bar.

2,349,312
CONTAINER MANUFACTURE
Walter E. Sooy and Rudolf William von Sydow, Middletown, Ohio, assignors, by mesne assignments, to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 18, 1939, Serial No. 309,796
15 Claims. (Cl. 93—81)

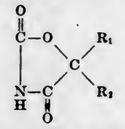


1. Apparatus of the character described for producing multi-wall convolutely wound container bodies or the like comprising means for feeding forward a main web for a distance equal to the blank length of a container body portion, means for feeding toward said main web a liner web of a length substantially equal to the perimeter of the formed container, means for applying adhesive to be effective only in the overlapping portions of said main web and said liner web to unite said webs together, and means for feeding said liner web into registering position with the portion of said main web which forms the container interior to be adhesively secured thereto to provide a protective lining upon the interior of the formed container.

10. The method of forming a convolute wound container body of the character described which comprises feeding a main body web of paper material, cutting off a length thereof sufficient to form two or more plies of the wound body, feeding a liner web of substantially the same width as the main web and adapted to provide a protective interior surfacing on the wound container body, cutting off a shorter length of the liner web sufficient to form an inner protective lining upon the wound container, applying the liner web in overlying relation to one surface of said main web, and winding the separated lengths in the direction of the grain of said material and with the liner web innermost and completely overlying the inner surface thereof.

2,349,313
DERIVATIVES OF 2,4-OXAZOLIDINEDIONE
Roger W. Stoughton, St. Louis, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application March 1, 1943, Serial No. 477,631
6 Claims. (Cl. 260—307)

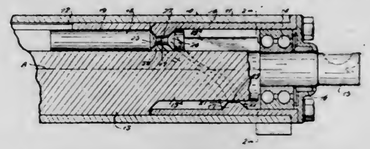
1. Compounds of the group consisting of those of the following formula:



in which R_1 and R_2 are radicals taken from the group consisting of unsubstituted saturated alkyl and unsubstituted saturated cycloalkyl hydrocarbon radicals, R_1 plus R_2 containing not less than six and not more than ten carbon atoms, and salts thereof, said compounds and salts being prepared for use as therapeutics.

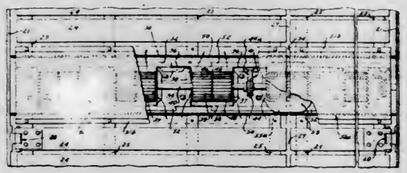
2,349,314
MOTION CONVERTING MECHANISM
Fred A. Truesdell, deceased, late of East Cleveland, Ohio, by Jetta Truesdell, administratrix, East Cleveland, Ohio, assignor of one-half to Wilmer S. Fallon, Cleveland, Ohio
Original application September 27, 1937, Serial No. 166,032. Divided and this application February 25, 1942, Serial No. 432,342
13 Claims. (Cl. 74—56)

1. In apparatus for converting rotary into reciprocating motion, a body having a plurality of axially slidable cam followers thereon, a second body substantially coaxial with the first body and having a cam engaged by said followers, one of said bodies being adapted for relative rotation to produce reciprocation of said followers, said second body being substantially cylindrical and said cam comprising an endless ridge having its base connected with said second body and having alternate relatively wide and



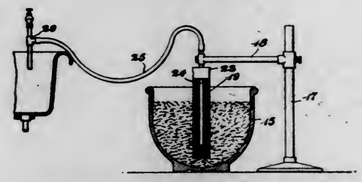
relatively narrow portions of which the relatively narrow portions lie substantially in a secant plane of the cylindrical body and have concavely curved side walls diverging toward the base of the cam.

2,349,315
AIR CIRCULATING SYSTEM FOR REFRIGERATOR CARS AND THE LIKE
William E. Van Dorn, Pasadena, Calif., assignor to Pacific Railway Equipment Company, Los Angeles, Calif., a corporation of California
Application July 9, 1940, Serial No. 344,509
3 Claims. (Cl. 98—6)



1. In a refrigerator car having a car floor and a liftable lading rack spaced above the floor; an air impelled unit extending transversely across the car in the space between the planes of the floor and rack, said unit including casing walls; and a casing cover for the unit mounted on the lading rack in the plane of its upper surface and adapted to carry load.

2,349,316
THROMBOKINASE
Norbert H. Vollé, Cincinnati, Ohio, assignor to The Kroger Food Foundation, Cincinnati, Ohio
Application July 27, 1940, Serial No. 348,061
11 Claims. (Cl. 167—74)



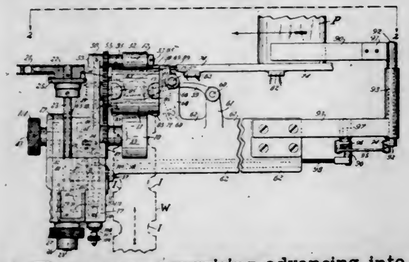
1. In the method of producing thrombokinase, the steps which comprise disaggregating substantially complete and uninjured rabbit brains freed from meninges, blood clots and blood vessels, extracting the resulting mass with an amount of acetone corresponding to approximately 25 cc. for each 7½ to 10 grams of brain, separating the fluid containing the extracting agent, twice repeating the disaggregating procedure followed by extraction with the same quantities of acetone, and dehydrating the residue under reduced pressure and atmospheric temperature.

2,349,317

LABELING MACHINE AND PROCESS

Millard F. Weida, Louisville, Ohio, assignor to American Machine & Foundry Company, a corporation of New Jersey

Application July 12, 1940, Serial No. 345,100
26 Claims. (Cl. 216—30)



1. The process comprising advancing into labeling position a compressible package provided with a wrapper having folds which are externally coated with a thermoplastic adhesive, heating said folds to make their thermoplastic coating tacky and pressing a label coated with thermoplastic adhesive against said folds with a pressure sufficient to compress said package by a member sufficiently heated to render the inner face of said label sufficiently tacky to cause adhesion of the label to said folds.

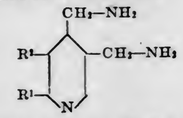
2,349,318

PYRIDINE COMPOUND AND PROCESS FOR THE MANUFACTURE THEREOF

Kurt Westphal, Wuppertal-Vohwinkel, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application February 3, 1940, Serial No. 317,119. In Germany February 21, 1939
15 Claims. (Cl. 260—297.5)

1. A compound of the formula



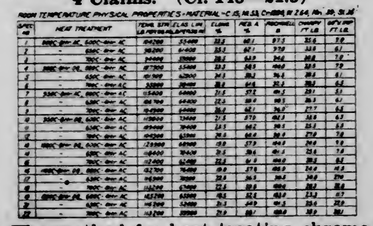
wherein R^1 stands for one of the substituents hydrogen and methyl, and R^2 for one of the substituents hydrogen and alkoxy groups, and the acid addition salts thereof.

2,349,319

PROCESS FOR HEAT TREATING NICKEL-CHROME-TUNGSTEN ALLOY STEELS

Arthur W. Wheeler, Alplaus, N. Y., assignor to General Electric Company, a corporation of New York

Application April 1, 1942, Serial No. 437,222
4 Claims. (Cl. 148—21.5)



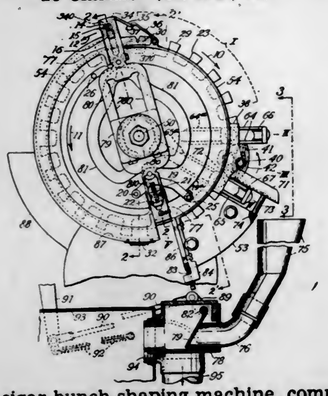
1. The method for heat treating chrome steel containing not more than about .15% carbon, about 2.6% tungsten, about .5% nickel and about 13% chromium which comprises heating the steel at about 1100 to 1200° C. for about 8 hours, quenching the steel and then reheating it at about 600 to 700° C. for about 4 hours.

2,349,320

TURRET SHAPING MACHINE FOR CIGARS

Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application July 16, 1938, Serial No. 219,509
16 Claims. (Cl. 131—83)



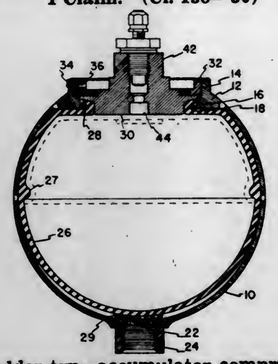
1. A cigar bunch shaping machine, comprising in combination, an endless traveling conveyor provided with a series of bunch shaping molds, of a plurality of covers traveling with said molds, a mold loading station, a seating member adjacent said station and operative to seat bunches in said molds, a trimmer arranged to cut surplus material projecting from bunches in said molds, a bunch shaping member, and means mounted on said shaping member for rotating said trimmer to cut the surplus tobacco from a bunch located in one mold while said shaper is operating upon a bunch in another mold.

2,349,321

ACCUMULATOR

John W. White, North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif., a corporation of California

Application September 1, 1942, Serial No. 456,948
1 Claim. (Cl. 138—30)



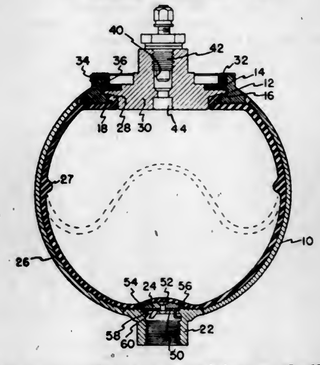
A bladder type accumulator comprising a shell having an air opening and a hydraulic opening, a flexible partition secured within said shell separating said air opening from said hydraulic opening, and an insert of powdered metal placed in the inner end of said air opening having a porosity that permits the passage of air, but of sufficient density to present a surface that is impervious to the flow of partition material, to protect said partition from damage when air is substantially lacking on one side of said partition and hydraulic pressure is applied on the other side of said partition.

2,349,322

ACCUMULATOR

John W. White, North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif., a corporation of California

Application October 2, 1942, Serial No. 460,467
2 Claims. (Cl. 138—30)



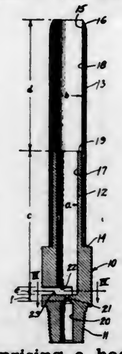
1. An accumulator comprising a shell; a flexible partition therein, one side of the partition being subjected to the pressure of a compressible fluid; an opening to permit a fluid to contact the other side of the partition; and spring biased cover means secured to said shell for limited movement and normally held over said opening in spaced relation to the inner end to provide for the passage of fluid, and adapted to close over the mouth of said opening when contacted by said partition to prevent extrusion of the partition into said opening.

2,349,323

BURNER

James A. Whittington, Evanston, Ill.

Application April 8, 1940, Serial No. 328,413
1 Claim. (Cl. 158—99)



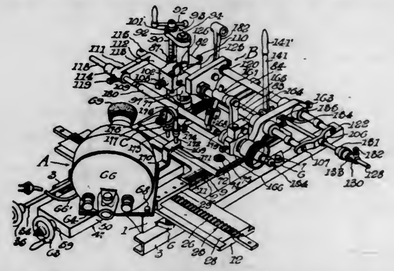
A burner comprising a body member having an elongate passage open at one end and a gas orifice at the other end thereof, and an air admitting slot in said body at the junction of said orifice and passage extending partially through the body from one side thereof with its inner end terminating between the longitudinal axis of the body and the opposite side thereof.

2,349,324

UNIVERSAL TOOL GRINDING MACHINE

Ernest Henry Wiedmann, San Diego, Calif.

Application November 10, 1941, Serial No. 418,498
19 Claims. (Cl. 51—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



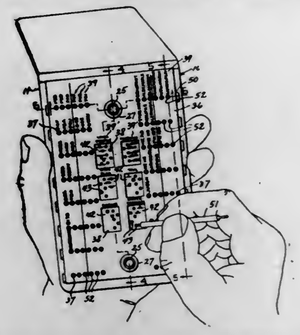
2. A universal grinding machine comprising in combination, a support, a frame adjustably mounted rotatably, vertically and horizontally on said support, a carriage slidably mounted on said frame, a work holder mounted on said carriage and adapted to rotatably support a work piece, rotary grinding means, means for actuating said rotary grinding means into engagement with the work piece, means for actuating said carriage on said frame for moving the work piece across said rotary grinding means, a rod mounted on said frame, and an adjustable stop mounted on said rod for limiting the sliding movement of said carriage on said frame.

2,349,325

AIRCRAFT SELECTOR

Robert G. Willard and William H. Van Benschoten, United States Navy

Application December 28, 1942, Serial No. 470,415
8 Claims. (Cl. 35—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



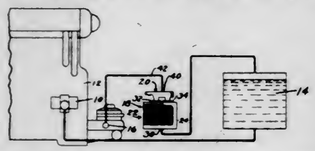
1. In combination, an identification device comprising a cover, a selector and a book, said selector and book hingedly mounted independently of each other in said cover, said selector

comprising a plurality of normally visible zones, each appropriately designated to represent a different make or model of equipment to be identified, selectively operable shielding members in said selector, each being adapted for eliminating different groups of said zones from view, said book having pages each containing data relating to at least one make or model of said equipment, each page provided with an index tab aligning with the zone selected representing the make or model of equipment corresponding to the data on said page.

2,349,326
EMULSION
Alexander L. Wilson, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application December 31, 1938, Serial No. 248,878
14 Claims. (Cl. 106—271)

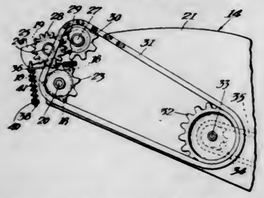
1. Emulsions comprising a continuous phase and a discontinuous phase dispersed therein by means of a reaction product of an acid-reacting fatty substance with one of the group consisting of morpholine and water-soluble, highly basic morpholine addition and substitution products.

2,349,327
VISCOSITY CONTROL VALVE
Weldon Worth, Dayton, Ohio
Application July 1, 1936, Serial No. 88,413
19 Claims. (Cl. 184—104)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



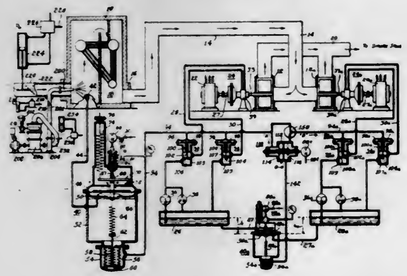
11. In an oil circulating system, a cooler, means for by-passing oil around said cooler, means for limiting the pressure of the oil supplied to said cooler, viscosity responsive means including a chamber wherein the pressure of oil flowing therethrough is a function of its viscosity, means to divert a portion of the oil from said system through said viscosity responsive means, and valve means responsive to the oil pressure in said chamber for controlling flow through said cooler and by-pass.

2,349,328
TRASH ROLL CONSTRUCTION
John L. Aasland, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 10, 1942, Serial No. 446,450
2 Claims. (Cl. 56—104)



1. In a corn picker, a pair of spaced side sheets, a pair of trash rolls for removing corn ears from stalks broken from the ground, means rotatably mounting one trash roll in the side sheets, a shaft rotatably mounted in the side sheets, a pair of arms pivoted on the shaft outside the side sheets for pivoting with respect to the side sheets, means rotatably mounting the other trash roll on the arms, whereby the said other trash roll is movable toward and away from the said one trash roll by virtue of pivoting of the arms on the side sheets, means driving the said one trash roll, a first sprocket secured to the said one trash roll, a second sprocket mounted on the shaft, a chain driving both sprockets, a first gear secured to the second sprocket, and a second gear meshing with the first gear and secured to the said other trash roll.

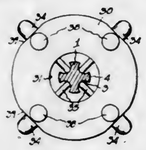
2,349,329
CONTROL SYSTEM
George R. Anderson, Mount Lebanon, Pa., assignor to John M. Hopwood, Mount Lebanon, Pa.
Application June 22, 1942, Serial No. 447,929
9 Claims. (Cl. 236—15)



2. Means for equalizing work performance of several fans creating draft in the combustion chamber of a furnace comprising for each of said fans a driving shaft coacting with a variable speed hydraulic coupling that has a vaned impeller attached to said driving shaft and a vaned runner fixed to a driven shaft connected to the respective fan, a tank for each coupling communicating therewith, fluid in each of said couplings to be energized by said impeller, the energized fluid impinging upon said runner and rotating it, a quantity of fluid in each of said tanks, pump means continuously tending to convey fluid from each tank into the respective coupling, measuring means influenced by the draft pressure in said furnace, control means responsive to said measuring means for regulating the passage of fluid between each tank and its coupling for maintaining sufficient fluid in the couplings to transmit to said fans the total power required to create a predetermined draft pressure in said furnace, and correction means responsive to the quantity of the fluid in each tank, said correction means coacting with said control means for equalizing the quantities of energized fluid in all of said couplings.

9. A control system for regulating the individual output of a plurality of fans operating in parallel, each fan being driven by a separate motor through a separate hydraulic coupling, each coupling being provided with a fluid reservoir, a pump, and piping for each tank and coupling whereby fluid may be circulated by each pump from its associated tank to its corresponding coupling and returned to its tank, said control system comprising means for adjusting the rate of flow of liquid from each tank to its associated coupling and from each coupling to its tank, thereby to regulate the quantity of fluid in each coupling and the power transmitted by it to its associated fan, and means responsive to variations in the relative quantities of liquid in said tanks for so adjusting the flow to and from said couplings that the power transmitted thereby to their respective fans and the outputs of said fans are caused to bear predetermined relationships to each other.

2,349,330
THREAD TAP GAUGE
Roy Anders, Center Township, Marshall County, Ind., assignor of one-half to John W. Pletcher, Jr., South Bend, Ind.
Application March 22, 1943, Serial No. 480,022
7 Claims. (Cl. 33—201)

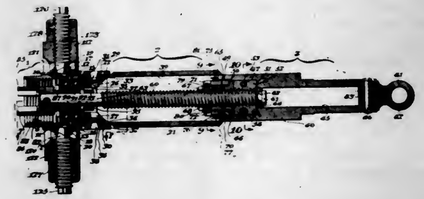


1. A thread tap gauge comprising an apertured block having a plurality of equi-spaced radial bores, a plurality of pins of equal length each axially slidable in a radial bore, and means for locking said pins in fixed position in said block.

2,349,331
CELLULOSE DERIVATIVE COMPOSITION AND ITS USE
Bjorn Andersen, Maplewood, Ernst A. Grenquist, Bloomfield, and Ralph H. Ball, Cranford, N. J., assignors, by mesne assignments, to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application November 19, 1936, Serial No. 111,594
7 Claims. (Cl. 106—181)

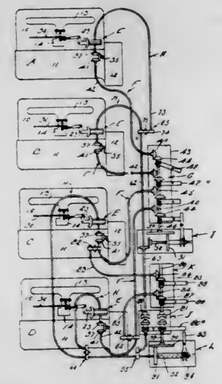
1. A composition of matter containing a derivative of cellulose and, as plasticizer, a compound selected from the group consisting of butyl acetonyl phthalate and methoxy ethyl acetonyl phthalates.

2,349,332
TAB ACTUATOR
Robert C. Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application February 21, 1942, Serial No. 431,837
5 Claims. (Cl. 74—424.8)



1. A device of the class described comprising a pivoted body section having thrust and pull bearings mounted therein, a relatively movable section carried thereby in telescopic relation therewith, provided with a bore and having a screw threaded bushing retained therein, a screw threaded shaft having a bearing washer mounted thereon arranged to cooperate with said thrust and pull bearings to prevent its axial movement, and having a neck forming a flange, said shaft being extended through said body and into said movable section in threaded engagement with said bushing, means wholly inclosed within said device arranged to vary the surface tension between the threads of said screw threaded shaft and the threads of said bushing, and an open sided yoke-shaped washer embracing said neck and being retained by the wall of said bore and serving to limit the outward movement of said movable section with respect to said body section.

2,349,333
MECHANISM FOR SYNCHRONIZING POWER UNITS
Arthur L. Armentrout, Long Beach, Calif.
Application September 23, 1942, Serial No. 459,413
10 Claims. (Cl. 60—97)

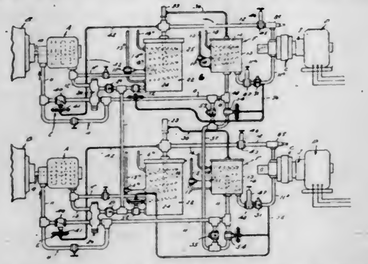


1. In combination a plurality of units each under control of a throttle, a differential mechanism for operating each throttle and each including two driven members having a planetary connection which is connected with the throttle, one of the driven members of each mechanism being driven by the unit controlled by that mechanism, and a selector means whereby any one of the units can be connected to drive the other driven member of each differential mechanism, the selector means including a unitary mechanism remote from the differential mechanisms and having a plurality of elements each driven by one of the units and a driver having driving connection with each of said other driven members of the differential mechanisms and engageable to be driven by any one of the said elements.

2,349,334
DRIVE FOR ELECTRIC GENERATORS
Arthur L. Armentrout, Long Beach, Calif.
Application September 23, 1942, Serial No. 459,414
14 Claims. (Cl. 290—4)

1. In an electrical generating system of the character described, a source of power, an alternating current generator, a fluid motor connected with the generator for operating it, a fluid pressure generator connected with the source of power to be driven thereby, a fluid connection delivering fluid under pressure from the pressure

generator to the motor, means for controlling the temperature of the fluid supplied to the motor,



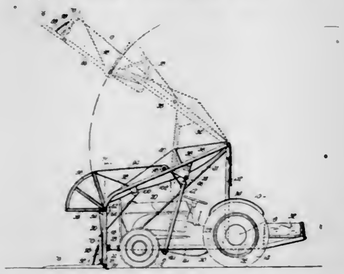
and a control for the fluid whereby it is delivered to the motor at a predetermined rate and pressure.

2,349,335

TRACTOR-CARRIED LOADING APPARATUS

Curtis C. Baldwin, Ottawa, Kans., assignor, by direct and mesne assignments, to C. Earl Hovey, trustee, Kansas City, Mo.

Application October 23, 1942, Serial No. 463,073
4 Claims. (Cl. 214—141)



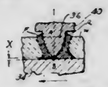
1. In tractor-carried loading apparatus of the character described, a frame adapted for attachment to the tractor; an upright support on the frame; a boom having one end hingedly mounted on said upright; a ram having its lower end pivotally connected to the frame and its upper end pivotally connected to the boom intermediate its ends; a loader pivotally attached to the free end of the boom, said loader comprising a section depending from the boom and a section in substantially horizontal position when the loader is in lowered condition; a hinge connecting said sections; and means operable in response to raising of said loader for moving said sections into substantially rectilinear relation to each other and to the boom.

2,349,336

CUTTING BLADE AND METHOD OF CUTTING THEREWITH

James W. Batchelder, Titusville, Pa., assignor, by mesne assignments, to The Fred Goat Co., Inc., Brooklyn, N. Y., a corporation of New York

Application April 23, 1940, Serial No. 331,108
2 Claims. (Cl. 164—70)



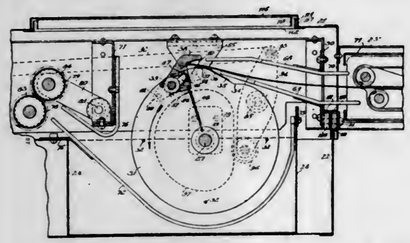
1. In a cutting member for sharply servering a traveling web of paper board without having the member pass completely through the web, a doubly tapered cutting blade comprising side faces disposed at an angle of from 55° to 80° with respect to one another, and a curved cutting edge having a radius of from 0.002 to 0.004 inch joining said faces.

2,349,337

PHOTOGRAPHIC PRINT TREATING APPARATUS

Arthur W. Caps and Paul Landrock, Rochester, N. Y., assignors to Photostat Corporation, Providence, R. I., a corporation of Rhode Island

Application December 11, 1942, Serial No. 468,628
14 Claims. (Cl. 95—94)



1. A photographic print treating apparatus, comprising a casing having therein a container for a print treating bath and an opening for receiving a print to be treated, a movable device having means for engaging the leading edge of a print inserted through said opening, print guiding means in said container, print feeding means, and actuating means for moving said device in one direction to immerse said print in said bath and for subsequently moving said device in another direction to advance the opposite edge of said print along said guiding means to said feeding means.

2,349,338

NONCORROSIVE HEAT-TRANSFER LIQUID

Leo J. Clapsadle, Buffalo, and Gordon B. Graham, Kenmore, N. Y., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application June 8, 1940, Serial No. 339,494
11 Claims. (Cl. 252—75)

1. A non-corrosive heat-transfer liquid comprising an aqueous solution of an alcohol, and an inhibitor containing as the essential corrosion preventive the hydrolyzed product of a silicic acid ester of a member of the group consisting of monohydric and polyhydric alcohols, said ester being present initially in the unhydrolyzed state in an amount not substantially greater than 1.0% by weight of the alcohol in the heat-transfer liquid.

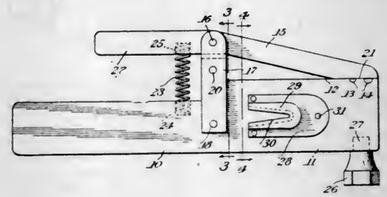
2,349,339

NAIL HOLDING TOOL

William R. Cloer, Hickory, N. C.

Application February 2, 1942, Serial No. 429,305
1 Claim. (Cl. 1—47)

In a nail holding tool, a flat elongated rectangular body having a longitudinal portion reduced transversely to form a flat, elongated and rectilinear handle, the inner longitudinal edge of the body being provided with a plurality of grooves of varying size extending transversely of the body adjacent its outer end, a pair of flat elongated plates secured to and extending transversely of the opposed side faces of the body and projecting beyond the inner longitudinal edge, a lever bent approximately at its mid-portion to form an obtuse angle between the bent ends thereof, a pivot supporting the mid-portion of the lever between the projecting end portions of the plates so that the lever is disposed to pivot with respect to the body, the said lever having an arm extending at an acute angle with the inner longitudinal edge of the body from the pivot point and having its outer end portion beveled to provide a face disposed to fit flat



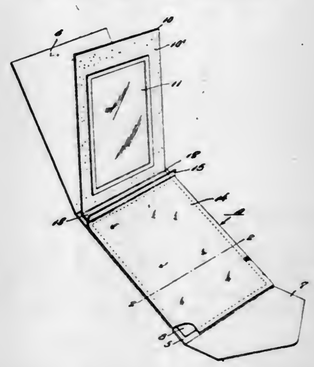
against the inner edge of the body wherein the grooves are formed so as to tightly grip nails in the grooves, the lever also having an inwardly directed portion disposed approximately parallel with the inner edge of the body when the opposed end portion is in closed position, and a coil spring arranged inwardly and parallel with the plates having one end fitted in a socket opening inwardly from the inner edge of the body and the opposite end in a confronting socket in the parallel portion of the lever to resiliently hold the beveled face of the lever against the co-acting grooved edge portion of the body.

2,349,340

PICTURE MOUNT

William A. Conway, Jr., Shamokin, Pa.

Application January 8, 1941, Serial No. 373,661
3 Claims. (Cl. 40—158)



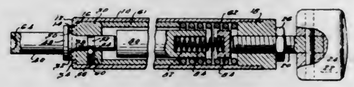
1. A picture mount of the class described, comprising a back, an adhesive-covered sheet secured to and of less dimensions than the back for adhesively receiving the rear of the picture, and a frame having a scored end edge adhesively united with one end of the sheet, whereby the frame is adapted to be swingably moved into position over the picture and secured to the sheet beyond the boundaries of the picture to seal the picture between the frame and sheet.

2,349,341

RIVETING DEVICE

Josef A Dissě, Detroit, Mich.

Application November 13, 1942, Serial No. 465,467
4 Claims. (Cl. 78—53.5)



4. A rivet bucking device comprising, in combination, a housing, a rivet engaging member guided for reciprocable movement in one end of said housing, a pair of inertia members independently reciprocable in said housing axially thereof, a spring constantly urging one of said inertia members toward said rivet engaging member, another spring constantly urging the other of said inertia members toward said rivet engaging member, said inertia members independently cooperating with said rivet engaging member whereby the force of movement of each thereof under the force of its respective spring is transmitted to said rivet engaging member independently of the other.

2,349,342

PROCESS OF MAKING SOLID FUEL BRIQUETTES

John A. Erickson, Jackson, Mich.

No Drawing. Application July 11, 1941, Serial No. 402,015
7 Claims. (Cl. 44—15)

1. The process of making solid fuel briquettes comprising the steps of heating under pressure at a temperature above 212 degrees Fahr. ground whole cereal in which the starch content is ungelatinized with water and sodium hydroxide, and simultaneously subjecting to a violent mixing and stirring agitation, the sodium hydroxide being in such proportion to the starchy content as to facilitate the rupturing of the starch granules, the water content being in such proportion to the other ingredients that at an intermediate stage of the cooking and mixing and stirring the mass becomes of heavy, thick, dough-like consistency and continued cooking and stirring results in substantial breakdown or rupturing of the starch granules and the conversion of a substantial portion of the starch into dextrin, and the mixture changes from such heavy, dough-like consistency to a transparent, amber-colored pourable fluid of sticky viscous consistency, adding such fluid in such consistency and while heated as a binder to briquettable solid fuel of approximate atmospheric dryness, mixing to distribute the binder and coat the fuel particles therewith, and molding with pressure into briquettes without the addition of added water to the briquettable mixture.

2,349,343

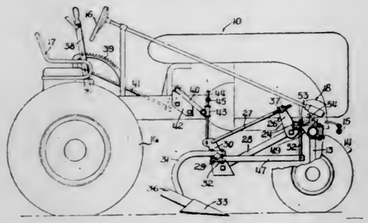
AGRICULTURAL IMPLEMENT

William S. Graham, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application March 3, 1941, Serial No. 381,475
8 Claims. (Cl. 97—47)

1. In combination, a tractor having a longitudinally extending body portion and a forward axle structure pivotable in a transverse plane with respect to the body portion, wheel means associated with the axle structure, a ground-working implement structure connected to the

body portion of the tractor and including a transversely extending ground-working tool located rearwardly of the forward axle structure, means for connecting the ground-working tool to the tractor body portion for vertical movement with respect thereto in its ground-working position, and means separate from the tool-connect-

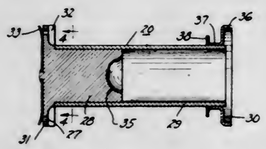


ing means for connecting the working tool to the axle structure for gauging the working depth thereof, whereby the working depth of the working tool will be governed by the pivotable forward axle structure, and means associated with said forward axle structure for adjustably setting the working tool with respect to the axle structure for various depths.

2,349,344
INSECTICIDE
Samuel I. Gertler and Herbert L. J. Haller, Washington, D. C., assignors to the United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Application August 21, 1943, Serial No. 499,506
4 Claims. (Cl. 167—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

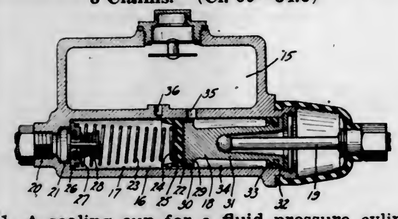
1. The process of destroying insects which comprises treating material liable to attack by said insects with an insecticidal composition containing as an essential active ingredient 4-phenylmorpholine.

2,349,345
PISTON
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 11, 1942, Serial No. 430,321
7 Claims. (Cl. 309—4)



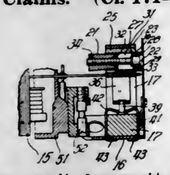
1. For use in a master cylinder having a cylindrical bore, a piston comprising a head portion upset to form a forward surface having a diameter approximately equal to the diameter of the cylinder bore, a body portion formed by cutting a tube to the required length and extending one end thereof over the small diameter end of the head portion, and a skirt portion formed by stamping and secured around the body portion adjacent its rear end.

2,349,346
SEALING MEANS
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 21, 1942, Serial No. 431,794
8 Claims. (Cl. 60—54.6)



1. A sealing cup for a fluid pressure cylinder comprising a lip portion, and a base portion having a plurality of angular grooves in the outer cylindrical surface thereof, said lip portion and base portion being substantially equal in outer circumference in order that fluid flowing past the base portion toward the lip portion will be forced to flow through said angular grooves.

2,349,347
WATT-HOUR METER
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application September 24, 1942, Serial No. 459,513
11 Claims. (Cl. 171—264)



1. A damping unit for watt-hour meters including a yoke of magnetic material, a U-shaped magnet secured approximately at its neutral point to said yoke, an armature carried by the yoke opposite to but spaced from the poles of the magnet and including a plug movable into and outwardly from the armature to decrease and increase the reluctance of the path between the poles through the armature, and a non-magnetic spacer separating the armature from the magnetic yoke, said yoke surrounding the magnet to protect it from stray magnetic fields.

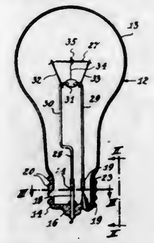
2,349,348
DIHYDROXY-ACETONE-DIETHER AND ITS MANUFACTURE
Adolf Grün, Basel, Switzerland, assignor to the firm J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application December 9, 1940, Serial No. 369,356. In Switzerland December 29, 1939
5 Claims. (Cl. 260—590)

1. An unsymmetrical dihydroxy-acetone diether of the following formula:

$$\begin{array}{l} CH_2.O.R_1 \\ | \\ C{=}O \\ | \\ CH_2.O.R \end{array}$$

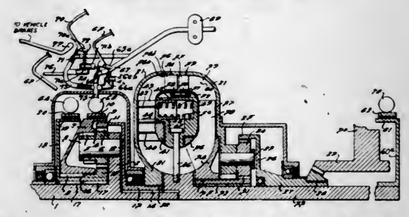
wherein R represents a radical selected from the group consisting of isopropyl, isobutyl, isoamyl, bromo-propenyl, cyclohexenyl, phenyl and o-methoxyphenyl, and R_1 represents a member of the group consisting of ethyl and phenyl.

2,349,349
INCANDESCENT ELECTRIC LAMP
Aaron Martin Hageman, Verona, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 2, 1942, Serial No. 449,443
14 Claims. (Cl. 176—32)



1. An incandescent electric lamp comprising a bulb terminating in a threaded neck portion adapted to fit a standard lamp socket, a glass disk closing the outer end of said threaded neck portion, leads passing through said disk, the outer ends of said leads functioning directly as socket contacts, mount support wires extending from the inner ends of said leads, and a filament supported by said wires.

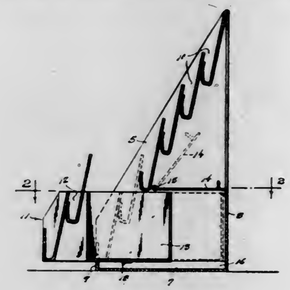
2,349,350
TURBOTRANSMISSION
Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 10, 1940, Serial No. 334,315
17 Claims. (Cl. 192—4)



10. In a transmission device for a vehicle having brakes, a driving shaft, a driven shaft, a turbounit interposed between the driving and driven shafts, forward and reverse driving means between the driving shaft and turbounit, pressure inducing means under the influence of the driven shaft, means operated by the pressure inducing means to actuate the forward and reverse driving means, selectively operable manual means controlling the pressure inducing means to actuate the forward and reverse driving means, manually operable means controlling the pressure inducing means to reverse the direction of the turbounit to apply a braking force, and means operable after a substantially predetermined movement of said manually operable means to actuate the vehicle brakes.

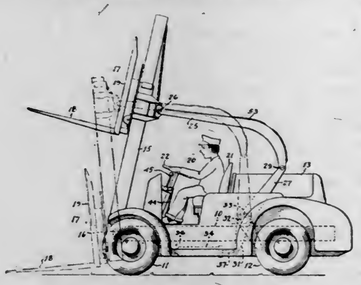
2,349,351
DISPLAY RACK
Edward P. Jarvis, Los Angeles, Calif.
Application January 19, 1942, Serial No. 427,337
4 Claims. (Cl. 312—119)

2. In a display rack: the combination of a cabinet having, in its bottom portion, a drawer-closet which opens to the front and is provided with a frontal face extending upwardly from the forward opening of the closet and which said frontal face is formed with a series of fixed, terraced, upwardly-opening pockets, each of said fixed pockets having a relatively high rear wall which, excepting in the instance of the uppermost pocket, extends upwardly beyond the floor of the pocket thereabove and forms a front wall



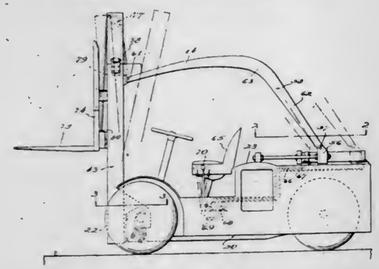
for the latter; and a drawer for said drawer-closet provided with a frontal face formed with an upwardly-opening pocket, said drawer pocket having a relatively high rear wall which, in the closed position of the drawer, extends upwardly beyond the floor of the lowermost fixed pocket to operate as a front wall for the latter and whereby the pocket of the drawer constitutes and has the appearance of being a continuation of the series of fixed pockets.

2,349,352
INDUSTRIAL TRUCK
George V. Johnson, Portland, Oreg., assignor to Willamette Hyster Company, Portland, Oreg., a corporation of Oregon
Application January 19, 1942, Serial No. 427,347
16 Claims. (Cl. 214—113)



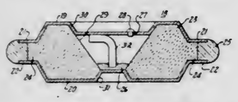
1. An industrial truck comprising a chassis, a normally vertically extending load supporting frame pivotally mounted on said chassis adjacent the lower end of said frame, a load supporting member mounted for vertical movement on said frame, an operator's compartment on said chassis, actuating means pivotally connected to said frame for effecting tilting movement thereof and including at least a portion extending over said operator's compartment and downwardly behind the operator and providing protection for an operator therein from objects falling from above, and controllable power means for driving said actuating means for determining the angular relation of said load supporting frame and said chassis.

2,349,353
INDUSTRIAL TRUCK
George V. Johnson, Portland, Oreg., assignor to Willamette Hyster Company, Portland, Oreg., a corporation of Oregon
Application February 10, 1943, Serial No. 475,364
16 Claims. (Cl. 214—113)



1. In an industrial truck, the combination of a chassis having a pair of forwardly extending frame members, supporting means movably connected to each of said forwardly extending frame members and fixedly connected to an axle housing, said axle housing rotatably supporting a shaft and wheels, said axle housing also supporting a load carrying frame.

2,349,354
ELECTRIC SWITCH
Wilber M. Johnson, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application June 1, 1942, Serial No. 445,530
3 Claims. (Cl. 200—152)



3. A mercury switch comprising a pair of opposed metal discs spaced a short distance apart, an annular spacer of insulating material filling the space between said discs except for the central opening in said annular spacer, said opening being tapered so as to define a frustro-conical cavity bounded at its ends by center portions of said discs, a contact secured to the center portion of the disc defining the larger base of the cavity and extending axially of the cavity to within a short distance of the center portion of that disc which defines the smaller base of the cavity, and a quantity of mercury in said cavity sufficiently large to bridge the gap between said contact and the said disc which defines the smaller base when said smaller base is lowermost and horizontal, said quantity of mercury being insufficient to bridge the space between the said center portions of the discs in any position of the switch.

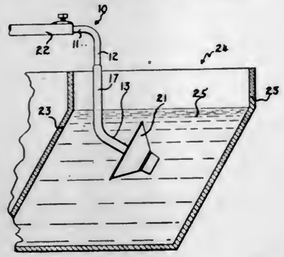
2,349,355
SIGNAL
John F. Kepler, Chicago, Ill.
Application December 31, 1940, Serial No. 372,587
2 Claims. (Cl. 177—327)

1. A traffic signal device comprising an indicator face including a plurality of portions significant of respective traffic conditions, means for successively illuminating said face portions to render them prominent in predetermined sequence, an opaque shield member having an advance edge, means for advancing said shield member, advance edge foremost, across and into light-shielding relation with each of said face portions during its illumination, and indicator



light means disposed substantially coincident with said shield edge and advanceable with said shield member to assist an observer to ascertain the degree to which said face portions are shielded.

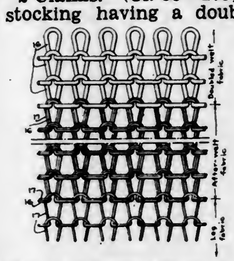
2,349,356
HOLDER FOR ELECTROLYTIC DEPLATING
Ralph R. La Motte, Richmond, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application April 25, 1941, Serial No. 390,230
5 Claims. (Cl. 204—297)



1. A device for holding in an electrolytic deplating bath an article having an opening therein, by contact with and support of the article at the opening, comprising a metallic rod member having a threaded end, a shoulder near the threaded end, and a non-conducting coating covering the shoulder and a considerable portion of the rod on the side of the shoulder away from the threaded end, a first non-conducting member of annular form positioned on the rod in abutment with the shoulder, a lead member of annular form positioned on the rod in abutment with the first non-conducting member and having a peripheral surface adapted to engage the opening in the article to be deplated, and a second non-conducting member having threaded engagement with the threaded end of the rod and completely enclosing the same and abutting the lead member, the lead member being easily removable for replacement by virtue of the threaded engagement of the second non-conducting member and the exposed surface of the lead member so that bubbling due to electrolysis is kept to a minimum by abutment of the lead member with the non-conducting members, the lead member constituting the support for the article by engagement of the opening therein.

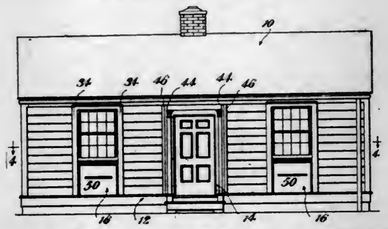
2,349,357
STOCKING
Joseph Largman, Philadelphia, Pa.
Application April 13, 1943, Serial No. 482,841
2 Claims. (Cl. 66—173)

1. In a stocking having a doubled top welt



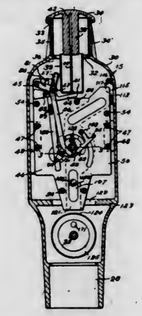
knitted of yarn of a given denier and a non-reinforced leg portion knitted of yarn of a denier materially less than said given denier, a reinforced after-welt portion extending below said top welt and interknitted with said leg portion, said after-welt portion being knitted throughout of the two yarns respectively forming said top welt and said leg portion of the stocking, the yarn of the top welt being continued into the knitted body of the leg portion of the stocking to reinforce the body yarn of said leg portion throughout all of the courses forming said after-welt.

2,349,358
BUILDING STRUCTURE
Robert W. McLaughlin, Jr., Bedford, N. Y., assignor to American Houses, Inc., New York, N. Y., a corporation of Delaware
Application August 13, 1941, Serial No. 406,572
1 Claim. (Cl. 20—4)



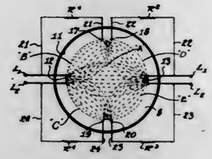
In a building, in combination, a plurality of prefabricated wall units of substantially equal width, said units being substantially at least the height of a single story of said building, each said unit comprising a plurality of spaced, vertical, weight-supporting studs and wall closure means affixed thereto, means for holding said units in side by side position to form a wall, alternate ones, at least, of said units comprising decorative architectural panels and supplemental casings covering and hiding from view the lines of jointure between adjacent units, said casings extending substantially the full height of said units and comprising strips forming trim for said architectural panels and being recessed to receive the ends of outer wall-covering elements associated with adjacent wall units.

2,349,359
PARKING METER
Charles A. MacCordy, Fulton, N. Y.
Application February 27, 1941, Serial No. 380,939
5 Claims. (Cl. 194—61)



2. In a parking meter, a casing, a pendent and normally visible stationary signal mounted in said casing, a hollow legal parking signal mounted within the casing for vertical movement upwardly from a normal concealed non-signaling position to a visible signaling position in which the stationary signal is concealed therein, a supporting member for said legal parking signal shiftable to lift said signal to signaling position, latch means biased to automatically latch the supporting member against return movement when the legal parking signal is moved to signaling position, time-controlled means for releasing said latch means to permit the legal parking signal to drop to non-signaling position, coin-releasable means manually shiftable to cause actuation of said time-controlled means, and means operable by such manual shifting of said coin-releasable means and having a thrust connection with said supporting member to cause the latter to lift the legal parking signal to its latched signaling position, said casing including means through which the stationary signal is normally visible from all directions around the meter.

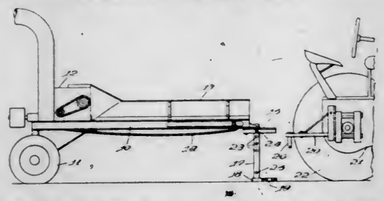
2,349,360
DISK-TYPE FLUORESCENT LAMP
John W. Marden, East Orange, and George Meister, Newark, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 24, 1942, Serial No. 428,058
6 Claims. (Cl. 176—122)



1. An electric discharge lamp comprising an envelope of glass forming a disk-shaped discharge chamber of relatively large area and substantially unobstructed throughout its enclosed space, a coating of fluorescent material on the walls of said chamber, an ionizable medium in said discharge chamber, a set of electrodes disposed therein adjacent the peripheral edge of the envelope and between which a main diffused electric discharge occurs with attendant excitation

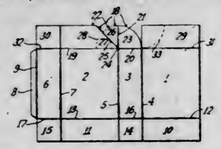
of said fluorescent coating upon application of a potential to said electrodes, and means to provide in said chamber at least one auxiliary diffused electric discharge path in electrical parallel with said main diffused electric discharge whereby the plurality of resulting diffused electric discharges excite substantially the entire coating of fluorescent material.

2,349,361
HITCH
Raymore D. MacDonald, Battle Creek, Mich., assignor to International Harvester Company, a corporation of New Jersey
Application May 9, 1942, Serial No. 442,311
3 Claims. (Cl. 280—33.4)



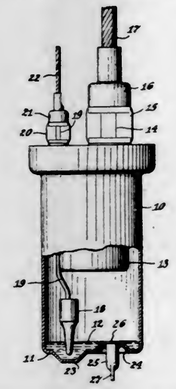
1. For use with a transportable unit having a rolling ground support at one end: means for supporting the other end of the unit on either the ground or on the draft element of a vehicle, comprising a first member connected to said end of the unit and having an aperture, a second member, means connecting said second member to the said end of the unit for vertical movement between an upper position adjacent the first member and a lowered position adjacent the ground, said second member being apertured and adapted to cooperate with the apertured first member to form a clevis for connection to a draft element, means adapting the second member for engagement with the ground when in lowered position, and means for locking the second member in lowered position for the supporting of said end of the unit when disconnected from the draft element.

2,349,362
CONTAINER
Donald E. Marshall, Summit, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application October 24, 1941, Serial No. 416,309
10 Claims. (Cl. 229—17)



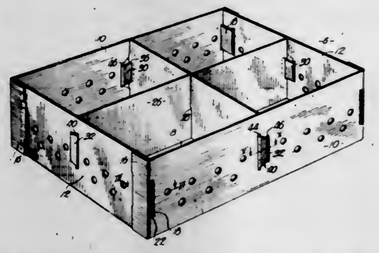
1. As a new article of manufacture, a carton blank having face and side sections, and flaps and tabs thereon in foldable relation to said sections, said flaps including a broad flap dependent from both a face and a side section for the full width of said sections, and said broad flap having fold lines for folding said flap in multiple layers and having an edge indented along a portion of a line extending from the juncture of the broad flap and said side section to the juncture of the broad flap and said face section through a point on the broad flap in alignment with the juncture of said face and said side sections.

2,349,363
METAL CASING DISCHARGE DEVICE
Donald E. Marshall, Allwood, and William J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 17, 1942, Serial No. 447,360
6 Claims. (Cl. 250—27.5)



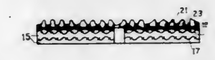
1. A discharge device comprising a sealed metal casing having a bottom for support of a pool cathode, a pool cathode in said casing, and means formed as part of said bottom for limiting the height of said pool cathode.

2,349,364
CHICK SHIPPING BOX
Richard C. Marshall, Jr., Kansas City, Mo., assignor to Crook Paper Box Company, North Kansas City, Mo., a corporation of Missouri
Application June 12, 1942, Serial No. 446,727
1 Claim. (Cl. 229—15)



In a shipping box of the character described, a tray-like section having a bottom and side walls, each of the latter being provided with a pair of slots in parallel relation, one slot of each pair being longer than the other slot; a partition in the section to divide the same into a number of stalls, said partition having an opening near the end thereof; and a tongue on the partition, extending outwardly through the longer slot in the proximal side wall, thence inwardly through the shorter slot to secure the partition in place, said tongue being extended through the opening in the partition, said tongue having a tapered portion diverging from a point spaced from the free end of the tongue to a line of meeting of the tongue with the partition to create a portion of substantially greater width than the length of said opening in the partition.

2,349,365
FLEXIBLE ABRASIVE ARTICLE
Harry C. Martin and Joseph B. Aust, Niagara Falls, N. Y., assignors, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application July 9, 1936, Serial No. 89,800
Renewed September 26, 1938
12 Claims. (Cl. 51—197)



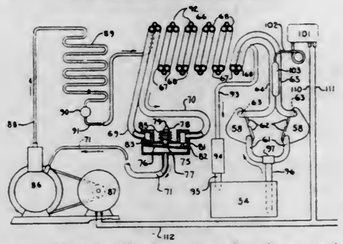
1. A flexible abrasive disc comprising a backing consisting of a sheet of heat-hardened phenolic resin containing a non-metallic reinforcement embedded within it and a layer of cloth firmly attached to a surface of the resin sheet, and a substantially single layer of abrasive grains bonded to the cloth by a heat-hardened phenolic resin, said disc being characterized by sufficient strength and stiffness so that it is adapted to be driven from the center alone while being resiliently supported and by sufficient flexibility so that it can be bent while being applied to a workpiece in such a way that only a portion of the disc is in contact with the work at any given time and the remainder of the disc is disposed at an angle with respect to the working portion.

2,349,366
METHOD FOR GEOPHYSICAL PROSPECTING
Charles A. Moon, Caracas, Venezuela, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application March 12, 1942, Serial No. 434,421
9 Claims. (Cl. 250—83.6)



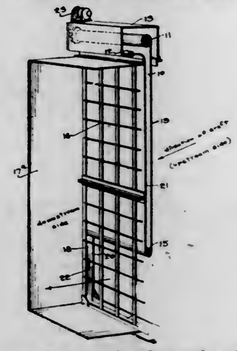
1. Method of simultaneously drilling and prospecting a well bore that comprises the following sequence of operations: partially withdrawing the drill string from operative position within the well bore; placing a prospecting instrument of a type capable of measuring radiations which will pass through the drill stem within the partially withdrawn drill stem near the drill bit; returning the drill string to its original position at a measured rate of movement; removing the prospecting instrument from the drill stem; and correlating indications from the prospecting instrument with measurements of movement of the drill string to obtain indications of the character of formations traversed by the well bore.

2,349,367
REFRIGERATING APPARATUS
Glenn Muffly, Springfield, Ohio
Original application August 26, 1935, Serial No. 37,789. Divided and this application January 23, 1939, Serial No. 252,293
11 Claims. (Cl. 62—2)



3. In a refrigerating system having a plurality of evaporators, a control having a chamber with a pressure responsive wall and charged with a volatile fluid, and means forming a passage connected with said chamber and extending it so that the chamber in combination with its extension is influenced by temperature changes of at least two zones, in each of which temperature changes are produced by the operation of one of said evaporators, said control being so constructed and arranged that it acts to regulate the relative refrigerating effects produced by said evaporators.

2,349,368
DAMPER CONSTRUCTION
Charles L. Myers, Philadelphia, Pa.
Application August 16, 1941, Serial No. 407,135
17 Claims. (Cl. 160—85)

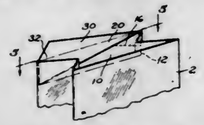


4. A damper for controlling the draft through a flue comprising, in combination, an extensible curtain of flexible material adapted to be drawn across the flue opening to close off more or less of the latter, and baffle means fixedly positioned in the flue for operative association with the free end of the curtain for controlling the flow characteristic of the damper as said curtain approaches its fully closed position.

2,349,369
BAG CLOSURE
Wilbur H. Norseen, Chadds Ford, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 22, 1941, Serial No. 407,854
3 Claims. (Cl. 229—62)

1. A package comprising a heat sealed bag closure device, said device comprising a triangu-

lar blank, the said blank having edges meeting at right angles and being folded about lines per-



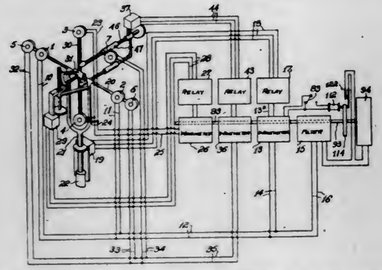
pendicular to said edges at their mid-points, one of said folds being inside the bag and the other being conterminous with the mouth of the bag.

2,349,370

RADIANT ENERGY LOCATING SYSTEM

Harry Orner, Cleveland Heights, Ohio

Application September 19, 1940, Serial No. 357,360
6 Claims. (Cl. 177—352)



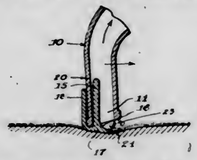
5. In an apparatus responsive to the position in space of a source of energy with respect to the apparatus, a first group of two energy detecting devices movable in a direction in a plane in space relation, a third energy detecting device movable in the said plane of the other two devices and on a medial line between them, and movable toward and from a line connecting them, automatic means responsive to the source of energy for moving the devices into and out of coincidence with the energy wave front emanating from the energy source.

2,349,371

AIR CLEANING DEVICE

William N. Patterson, Detroit, Mich., assignor, by mesne assignments, to The Sparks-Withington Company, Jackson, Mich., a corporation of Ohio

Application December 5, 1940, Serial No. 368,595
3 Claims. (Cl. 15—157)



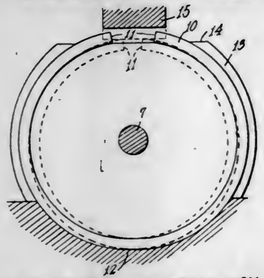
1. In an air cleaning device, such as a vacuum cleaner or the like, a nozzle having a narrow elongated intake opening, and a one-piece attachment for said nozzle to render the same suitable for removing water from fabric which comprises a blade of rigid material having a portion arranged to be received by one wall of said nozzle, and a portion to project outwardly from said nozzle, the edge and ends of said portion being curved in the direction of but below the other wall of said nozzle whereby to collect water from said fabric and position the same for removal through said nozzle.

2,349,372

METHOD OF PROCESSING SPLIT PISTON RING ELEMENTS

Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan

Application February 23, 1942, Serial No. 431,993
6 Claims. (Cl. 29—156.6)



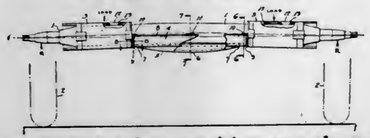
1. The method of forming thin split steel piston ring elements comprising the steps of coiling a thin split steel element of circular outline from ribbon steel coiled edgewise, supporting such element radially at a point substantially opposite the split thereof and axially supporting the sides thereof substantially throughout its diameter to prevent any substantial lateral distortion during subsequent forming steps, and while so supported changing the element from its coiled circular outline to a permanently set oblate outline when in relaxed condition with the major axis thereof approximately at right angles to a radial line extending between the ends thereof at the split by simultaneously applying a plurality of radially and inwardly directed forming blows to the free ends of such ring element while it is at normal room temperature.

2,349,373

TRAILER AXLE

Robert W. Pointer, Portland, Oreg., assignor to Willamette Iron & Steel Corporation, Portland, Oreg., a corporation of Oregon

Continuation of application Serial No. 318,478, February 12, 1940. This application December 12, 1941, Serial No. 422,761
6 Claims. (Cl. 301—129)



1. A trussed axle comprising an axle member having a camber imparted thereto, anchor means near each end of said axle, and a generally semi-cylindrical metal shell having an outwardly directed longitudinal rib and partially enclosing said axle member and attached at its ends to said anchor means, said rib being disposed in a direction opposite to said camber.

2,349,374

MANUFACTURE OF SHOES AND SHOE PARTS

Arthur F. Pym, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application February 19, 1942, Serial No. 431,547
12 Claims. (Cl. 12—142)

1. In the manufacture of shoes, that improvement which consists in molding a one-piece plas-

tic unit having an interior surface shaped to a final contour corresponding to that of the back part of a last or foot and having an over-sized exterior of unfinished formation, thereafter re-



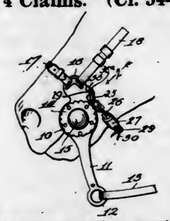
ducing the exterior of said unit to a desired surface contour corresponding to that of the exterior of the back part of a shoe, and securing said unit to a shoe forepart unit to provide a shoe.

2,349,375

CONVERTIBLE HACKAMORE BOSAL BIT

Fredrick A. Ray, Van Nuys, Calif.

Application March 27, 1941, Serial No. 385,405
4 Claims. (Cl. 54—6)



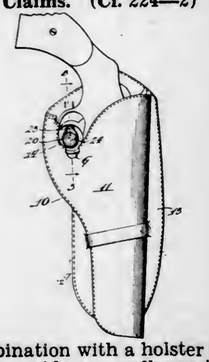
1. In a hackamore bit, a pair of cheek pieces, means carried by said cheek pieces for detachably securing a bit, an eye on the upper portion of each cheek piece, a bosal detachably connected to the eyes of the two cheek pieces, lugs projecting rearwardly from the lower rear portions of said eyes, there being recesses formed in the cheek pieces below said lugs, blocks fitting snugly within said recesses, releasable connections between said blocks and lugs and a curb connected to said blocks.

2,349,376

SAFETY LATCH FOR PISTOL HOLSTERS

Frederick A. Ray, Van Nuys, Calif.

Application March 13, 1942, Serial No. 434,523
3 Claims. (Cl. 224—2)



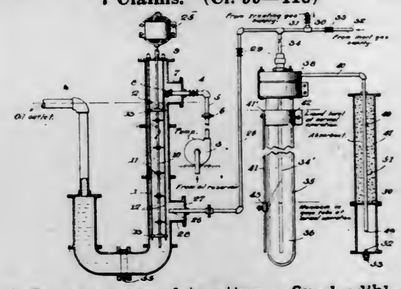
3. The combination with a holster having front and rear walls, said rear wall provided with an opening and said front wall having a notch in alignment with said rear wall opening, said opening and notch positioned opposite the trigger guard of a pistol inserted in the holster, of a plate hinged to the outer face of the rear wall of the holster above the opening therein, a hollow stud having a closed end carried by said plate and projecting through the opening in said rear wall, the wall of said stud being provided with openings, a second plate having its ends secured to the rear wall of the holster to the sides of the opening therein with the intermediate portion of said second plate extending through the openings in said stud and an expansive spring positioned within said stud between the closed forward end thereof and the intermediate portion of said second plate.

2,349,377

PROCESS OF TREATING FATTY MATERIAL

Herbert Otto Renner, Des Plaines, Ill., assignor, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill., a corporation of Illinois

Application January 10, 1940, Serial No. 313,284
7 Claims. (Cl. 99—118)



1. In a process of treating refined edible oils, fatty oils and fatty acids, by peroxidation and which treated materials are suitable after such peroxidation for use as bleaching agents in bread dough, except that they contain minor constituents which produce off-flavors and off-odors when such treated material has been incorporated in bread dough as a bleaching agent and is subjected to baking conditions, as a pre-treatment to avoid the development of such off-flavors and off-odors, the step which consists in treating a body of such refined edible fat possessing such constituents with a material selected from the following halogens: chlorine, iodine, bromine, when chlorine is used the amount being from about 0.05 percent to about 1.00 percent, when iodine is used the amount being from about 0.001 percent to about 0.002 percent, and when bromine is used the amount being about 0.01 percent, each being based on the weight of the fat treated, the treatment being conducted with thorough mixing, so that the contact between the halogen and the fat is such that the halogen acts on those constituents of the fat which otherwise would produce off-flavors and off-odors, the amount of the halogen being insufficient to substantially change the physical and chemical properties of the fat exclusive of those minor constituents which are capable of producing off-flavors and off-odors.

2,349,378

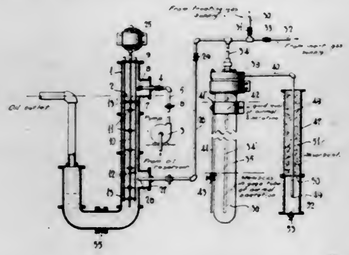
APPARATUS FOR TREATING FATTY MATERIAL

Herbert Otto Renner, Des Plaines, Ill., assignor, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill., a corporation of Illinois

Original application January 10, 1940, Serial No. 313,284. Divided and this application October 20, 1941, Serial No. 415,801
5 Claims. (Cl. 261—93)

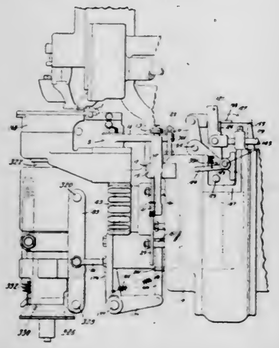
1. Apparatus comprising a U-shaped tube for continuous passage of liquid therethrough and

with the parallel arms thereof extending upwardly, means for introducing liquid into a first arm of said tube at an upper level therein, means for introducing a treating reagent for the liquid into said first arm at a lower level therein, the other of said arms having an outlet opening in the upper portion thereof for the discharge of



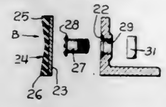
treated liquid, and a rotary agitator in said first arm removably suspended from the top thereof and having a plurality of disc-like elements, each extending in its respective single plane well across the cross sectional area of said first arm and capable of effecting agitation without propelling the material being treated lengthwise of said arm.

2,349,379
MACHINE FOR OPERATING UPON SOLES
Fred Ricks and John William Pratt, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application March 24, 1942, Serial No. 435,992
In Great Britain April 29, 1941
8 Claims. (Cl. 12—27)



1. In a machine for operating on soles, a support for a sole to be operated upon, an edge gage for the sole, means for moving said sole support to accommodate the removal of a sole from and the presentation of a new sole to the operating instrumentalities of the machine, operator-controlled means for shifting the edge gage from an initial position to vary the locality of the operation in relation to the edge of the sole, and means controlled by said sole-support moving means for returning the edge gage to said initial position when the sole-support moving means is operated to accommodate the removal of a sole from and the presentation of a new sole to the operating instrumentalities of the machine.

2,349,380
THRESHER CYLINDER
Edward L. Rietz, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 20, 1941, Serial No. 384,300
2 Claims. (Cl. 130—27)



1. In a thresher, a cylinder, a plurality of threshing means extending generally longitudinally of the cylinder, each threshing means comprising an angle bar having one leg disposed circumferentially of the cylinder and removably secured thereto, the other leg of the angle bar extending radially outwardly from the cylinder, a beater member adapted for removable attachment to the leading face of said radial leg, said member comprising a backing plate having a front flush face and carrying studs on its back face which studs are adapted to pass through a hole formed in the radial leg for attachment thereto, a resilient beater strip bonded to the backing plate on its front flush face and substantially covering said face of the plate and being thickened in cross section along it radial inner and outer edges, and removable means cooperable with said studs whereby the beater member may be reversibly mounted to make the inner edge of the beater strip serve as a beating edge when the outer edge has become worn, both the inner and outer edges and the intermediate portion of the beater strip being exposed to crop material in the original and reversed positions thereof on the said radial leg of the angle bar, the bonding of the beater strip to the backing plate being the sole attachment for the resilient strip thereby exposing its entire surface to crop material free of protuberances.

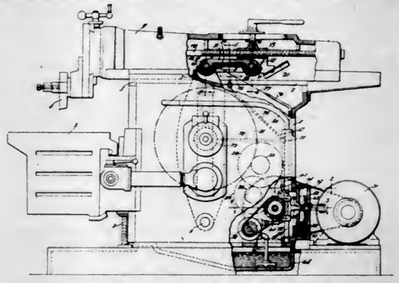
2.349.381
PROCESS OF TREATING SOYBEAN OIL
Harvey D. Royce, Savannah, Ga., assignor to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey
No Drawing. Application September 4, 1941, Serial No. 409,584
5 Claims. (Cl. 260—398.5)

1. The method of stabilizing soy bean oil against flavor reversion, which comprises the step of heating the oil at a temperature between 240° C. and 300° C., out of contact with the air and in the presence of finely divided particles of metal selected from the group consisting of zinc, magnesium and tin for a period of between 10 and 120 minutes.

2,349,382
MACHINE TOOL
John H. Schreiber, St. Louis, and Francis H. Dean, Normandy, Mo., assignors to General Engineering & Mfg. Co., St. Louis, Mo., a corporation of Missouri
Application December 12, 1940, Serial No. 369,698
6 Claims. (Cl. 184—6)

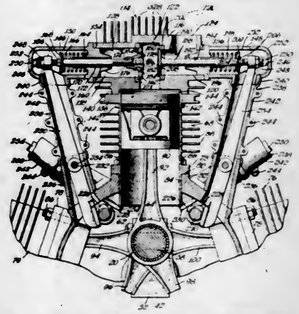
1. In a machine tool having elements mounted for operation, a motor, and mechanism operative by said motor for operating said elements; control means movable manually from one position to another position to control initiation of any operation of said mechanism by said motor, a

device for preventing effective movement of said control means from said one position and thereby preventing initiation of any operation of said mechanism by said motor, and a pump operated



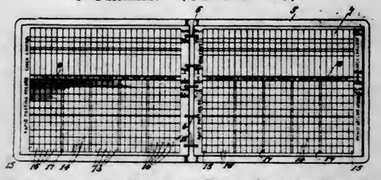
by said motor for applying liquid under pressure to said device and thereby moving said device to a position to permit operation of said means and also to permit all operations of said mechanism by said motor.

2,349,383
AIRCRAFT ENGINE
Andrew Scott, Gary, Ind.
Application April 9, 1941, Serial No. 387,738
3 Claims. (Cl. 123—188)



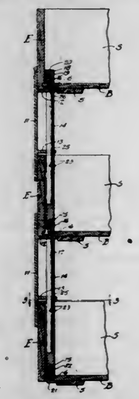
1. In an engine of the type described, the combination of a valve stem having spaced abutments at one end thereof, a valve head threadedly connected with said stem, and having a conical bore adapted to surround said abutments, and key means engaging said abutments and coacting with the wall of said bore to be clamped into holding engagement with said abutments when the valve is turned relatively to the stem in one direction, to fixedly locate the stem and the valve head.

2,349,384
POSTING AND CHECK REGISTER
Robert Lape Smith, Little Falls, N. J.
Application October 15, 1941, Serial No. 414,990
5 Claims. (Cl. 283—66)



1. In a loose-leaf account book, a series of multiple sheets each comprising a rectangular posting section leaf turning on the lower part of the length of the hinge-line of the book and a separate rectangular control section leaf turning on the upper part of the length of the hinge-line of the book independently of the turning of the posting section leaf of that sheet, each leaf being freely removable from and replaceable in the book, each face of each section of each sheet matching a corresponding face of the other section of that sheet, corresponding faces of each section of a particular sheet carrying pagination indicia allocated and common and peculiar to those two faces of the sections of that particular multiple sheet, the indicia being such as to show sequence relation as between the two sides or faces of each multiple sheet and as between each sheet and its neighbor and to make possible the ready matching of a particular face of one section of a particular multiple sheet with the corresponding face of the other section of that sheet; the faces of each section of a multiple sheet being divided into registering vertical columns, columns in the posting section carrying customers' numbers in sequence (one for each such column) and in horizontal alignment across said column; all of said registering columns of both sections being cut by a multiplicity of spaced horizontal lines, and the spaces in the column at the left-hand vertical margin of the control section carrying indicia printed to be read in a line parallel to the vertical margin of that section and referring to the names and addresses and other particulars about customers and their accounts, with succeeding vertical columns registrable with corresponding columns of the corresponding posting section page; all substantially as and for the purposes set forth.

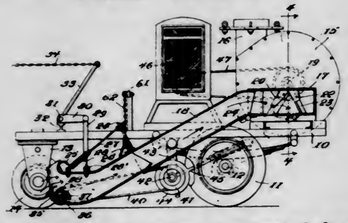
2,349,385
TRAY TIER SUPPORT
Walter L. Snelling, Chicago, Ill., assignor to Horder's, Incorporated, Chicago, Ill., a corporation of Illinois
Application November 18, 1942, Serial No. 466,044
9 Claims. (Cl. 211—126)



8. For use with a tier of like desk trays having vertical walls, four corner supports each comprising an angle post engageable exteriorly with corners of upper and lower trays, there being through each tray bottom a corner hole adjacent the inner face of the corner, spaced means having apertures and extending transversely of the angle post to the inside thereof at points spaced from the ends of the posts, the upper of said means affording support for the upper

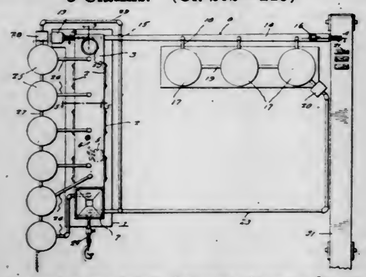
tray when rested thereon, and means for locking the post in a fixed position of engagement with the corners of registering upper and lower trays comprising a bolt extending vertically through the holes thereof and in locking engagement with the apertures of said spaced means inwardly of the angle post and abutting the underside of the upper of said spaced means.

2,349,386
HAY HANDLING APPARATUS
Ralph E. Stoetzl and Andrew C. Thompson, Madera, Calif.
Application November 4, 1941, Serial No. 417,834
1 Claim. (Cl. 56—27)



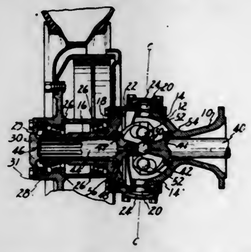
In a loading apparatus, a wheeled frame, a blower mounted on the rear of the frame, a rigid conduit supported on the frame having its main portion disposed at one side of the latter and extending in the direction of its travel, a transversely arranged extension connecting the rear end of the said conduit with the inlet of the blower, a pickup conduit section aligned with and hingedly connected to the forward open end of the main portion of the said rigid conduit, the said pickup section having an inlet opening at the front end thereof, a rotatably driven feed roller supported transversely at the bottom of the said inlet opening, a plurality of circumferentially disposed arcuate pickup elements mounted eccentrically about exterior segmental portions of the said roller, a pair of rigid arms extending upwardly from the forward end of the main portion of the rigid conduit, a forwardly extending rod flexibly connected with the upper end of each arm, and a tension spring providing connection between the front end of each rod and the forward end of the pickup conduit section for resiliently supporting the latter.

2,349,387
MANUFACTURE OF SMOKELESS FUEL
Kindred L. Storrs, Salt Lake City, Utah, assignor to The Coal Logs Co. Inc., Salt Lake City, Utah, a corporation of Utah
Application January 7, 1943, Serial No. 471,625
3 Claims. (Cl. 202—119)



1. A fuel and high temperature coke manufacturing apparatus comprising, a vibrating retort for receiving and heating the material from which the fuel is to be produced, an extrusion unit communicating with the retort for receiving the material therefrom, said extrusion unit including means for molding and compressing the material, means for further heating progressively the molded and compressed material, and means for removing by-products from the material at spaced points in the second-named means, condensing portions of said by-products and returning all or a portion of the non-condensable by-products as fuel to said retort.

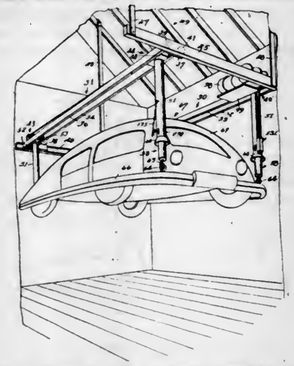
2,349,388
STEERING DRIVE AXLE
Edward B. Sturges, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 17, 1941, Serial No. 393,856
7 Claims. (Cl. 180—43)



5. In a steering and driving wheel construction for automotive vehicles, an axle housing and a wheel spindle having their contiguous ends shaped to form a housing, king pins connecting said ends in swinging relation, a drive shaft in the axle housing and a stub shaft in the wheel spindle, a universal joint of the self-centering constant velocity type mounted in said housing and including a pair of yoke members having torque transmitting members therebetween for drivably connecting the drive shaft and the stub shaft, a member secured between said yoke members for limiting movement of said yoke members toward each other, an annular shoulder formed in the inner surface of said axle housing end concentric with said shafts, a thrust ring mounted on said shoulder and so positioned that at times dependent on axial movement of said shafts it is in bearing engagement with said adjacent yoke member for transmitting forces in the universal joint into the axle housing and for positively limiting the amount of endwise movement tending to separate said universal joint yet providing for the necessary movement axially of one yoke member relative to the other.

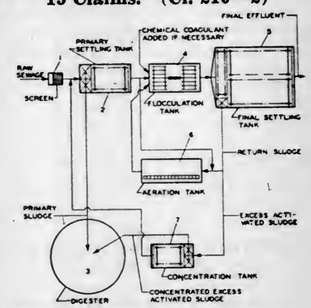
2,349,389
HOIST
Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application December 1, 1943, Serial No. 512,677
23 Claims. (Cl. 254—144)

1. In an automobile hoist, the combination of an elevated support, a plurality of automobile-engaging and supporting devices carried by said support, means for jointly raising and lowering said devices, certain of said supporting devices being movable relative to their support and to other ones of said supporting devices and relative to an automobile to be lifted, whereby an operator may easily place said supporting devices in selected positions on an automobile even though the automobile is not accurately centered



relative to the hoist, said movable supporting devices, when a hoisting movement is commenced, being moved to accurately centered positions relative to the automobile.

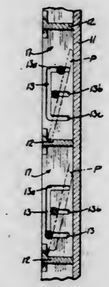
2,349,390
SYSTEM FOR TREATING SEWAGE
Samuel L. Tolman, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application May 16, 1942, Serial No. 443,237
15 Claims. (Cl. 210—2)



1. A sewage treating system including a primary settling tank, a mechanically agitating mixer positioned to receive the effluent from said primary settling tank, a secondary settling tank positioned to receive the effluent from said mixer, means for removing sludge from said secondary settling tank, means for diverting part of said sludge and feeding it to the influent of said mixer, and means for aerating the diverted sludge.

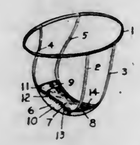
2,349,391
DOOR RACK
Joseph Usoskin, New York, N. Y.
Application April 16, 1943, Serial No. 483,247
2 Claims. (Cl. 211—41)

1. A rack device for doors and the like comprising side walls and a rear wall and a plurality of partitions dividing the same into a series of compartments, the side walls being provided with a plurality of vertical slots, each of said vertical slots being provided with a series of horizontal extensions, retaining rods extending transversely of the rear wall and connecting the side walls, said retaining rods having reduced ends which are located in the slots formed in said side walls, said reduced ends of said retaining rods being movable vertically in the respective vertical slots and being



also movable horizontally in any of the horizontal extensions formed in the side walls, and clamping means for holding the retaining rods in adjusted position.

2,349,392
HOLDER
Joseph Weber, New York, N. Y., assignor to Weber Foundations, Inc., a corporation of New York
Application June 27, 1941, Serial No. 400,125
2 Claims. (Cl. 128—289)

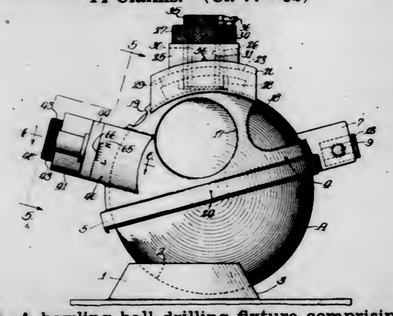


1. In a holder for pads, a belt and a pocket holder suspended therefrom, gathers along the side marginal edges of said pocket to provide fullness and to permit longitudinal stretching and a lining of elastic water proof material secured to said gathers of said holder, and an elastic tape secured to said gathers and said water proof lining at each of the sides of said pocket and to said belt to suspend said pocket from said belt, and fasteners secured to the ends of said pocket to secure said pad in said pocket, and loops securing said fasteners at the ends of said pocket.

2,349,393
CONCENTRATION OF SYLVINITE ORES
Arthur J. Weinig, Golden, Colo., assignor to Potash Company of America, Denver, Colo., a corporation of Colorado
No Drawing. Application February 5, 1940, Serial No. 317,315
4 Claims. (Cl. 209—166)

1. The process of treating sylvinite ore, which comprises the treatment of such an ore in a solution saturated with respect to sodium chloride and potassium chloride and containing sodium chloride particles and potassium chloride particles in undissolved form, preferentially filming the undissolved potassium chloride particles with a collector reagent consisting of an alkali salt of a sulfated alcohol having from five to fourteen carbon atoms in the molecule, and froth floating the particles so filmed on the surface of the solution.

2,349,394
BOWLING BALL DRILLING FIXTURE
Emmett E. Widdis, North Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application December 12, 1941, Serial No. 422,717
14 Claims. (Cl. 77—62)

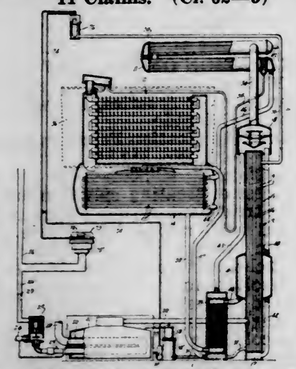


1. A bowling ball drilling fixture comprising a shell fitted snugly over the bowling ball and supported thereby, a drill guide carried by said shell, a cradle block having an upwardly exposed recess of spherical contour with substantially the same radius of curvature as the ball, and means adjustable to secure the shell in fixed relation to the ball.

2,349,395
ROLLING MAGNESIUM AND MAGNESIUM ALLOYS
Julius Züblin, Glarisegg, near Steckborn, Switzerland
No Drawing. Application November 19, 1941, Serial No. 419,802. In Switzerland November 29, 1940
8 Claims. (Cl. 80—60)

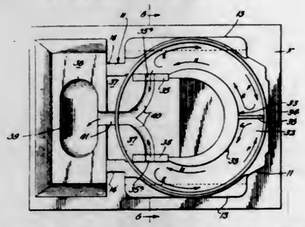
1. A process for rolling magnesium and alloys thereof which comprises the step of providing the surface of the material to be rolled with a resin-like coating which contains oxide of the said material as a component thereof and which forms a rollable protective layer between roll and material.

2,349,396
REFRIGERATION
Sven W. E. Andersson, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 21, 1941, Serial No. 407,745
11 Claims. (Cl. 62—5)



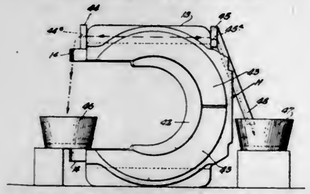
2. In refrigeration apparatus, a generator, a steam boiler, a heater for said boiler, a conduit to conduct steam from said boiler to said generator to effect heating of the latter, a pump for raising to a higher level condensate formed at said generator, a conduit for conducting the raised condensate to said boiler, and a control responsive to warm condensate formed at said generator for controlling said heater.

2,349,397
APPARATUS FOR FORMING BEARING METAL SURFACES ON BACKING METALS
Charles M. Angel, Huntington, W. Va.
Original application November 24, 1941, Serial No. 420,210. Divided and this application May 13, 1943, Serial No. 486,902
4 Claims. (Cl. 22—123)



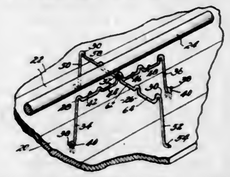
1. In apparatus for forming hub liner bearings on a locomotive drive box or the like, a hub liner mold cavity having the driving box hub surface as its bottom wall, a hub liner casting ring for its outer wall, and the drive bearing crown surface for its inner wall, walls of fireproof material at the legs of said surface, spillways which form a dam for molten metal in said fireproof walls, an insert wall of fireproof material, said insert wall resting edgewise on the hub surface and being adapted to divide said hub liner bearing into two sections, a sand core adjacent said fireproof walls, an ingot mold in said sand core, ducts in said core for conducting molten metal away from said cavities as defined by said insert wall, to said ingot mold.

2,349,398
APPARATUS FOR FORMING BEARING METAL SURFACES ON BACKING METALS
Charles M. Angel, Huntington, W. Va.
Original application November 24, 1941, Serial No. 420,210. Divided and this application May 13, 1943, Serial No. 486,903
2 Claims. (Cl. 22—58)



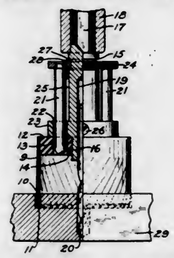
1. In apparatus for forming shoe and wedge liners on a locomotive driving box or the like, a shoe and wedge liner mold cavity, the shoe and wedge liner surface of the driving box constituting the bottom wall of said cavity, flanges on said driving box, said flanges constituting the side walls of said cavity, strips of fireproof material across the ends of said flanges, said strips constituting the end walls of said cavity, spillways which form a dam for molten metal in said strips, said spillways being adapted to conduct molten bearing metal away from said cavity.

2,349,399
REINFORCING BAR SUPPORT
William Powell Awbrey, Kansas City, Mo.
Application March 23, 1942, Serial No. 435,917
9 Claims. (Cl. 72—122)



1. A support for concrete-reinforcing rods comprising a wire framework having a plurality of vertically offset rod seats disposed in two vertical planes, said planes being in relatively angled relation.

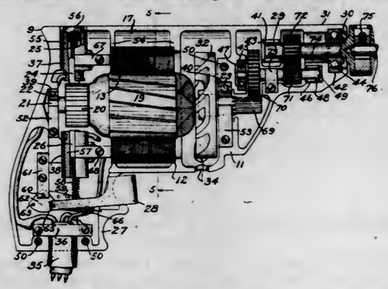
2,349,400
SAW
Wendell K. Beckwith, Whitewater, Wis., assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 21, 1942, Serial No. 427,634
1 Claim. (Cl. 77—69)



A hole saw, comprising, a relatively thin one-piece tubular sheet-metal blade of uniform thickness throughout its entire area and having a continuous cylindrical driving portion at one end and an annular series of outwardly and inwardly off-set successive teeth at its opposite end connected to said driving portion by helical corrugations of gradually diminishing depth extending away from the teeth and along the axis of the tube, and a blade centering and driving element confined within and rigidly secured to said cylindrical blade driving end portion.

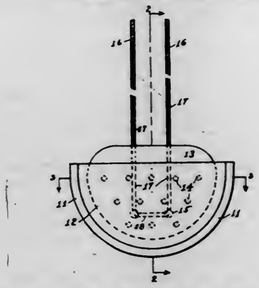
2,349,401
PORTABLE ELECTRIC TOOL
Wendell K. Beckwith, Whitewater, Wis., assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 21, 1942, Serial No. 427,635
11 Claims. (Cl. 172—36)

1. A portable electric tool, comprising, a casing having two closure sections provided with a pistol grip handle at one end and a power outlet opening at the opposite end, said casing sections coacting with each other along a single plane extending from end to end thereof and being detachable along said plane, an electric motor housed within the medial portion of said casing between said closure sections, means for directly attaching each of said casing sections to the field of said motor, means for transmitting motion from said motor through said outlet opening, and means associated with the handle end of said casing for controlling the operation of said motor, said motion transmitting and motor control



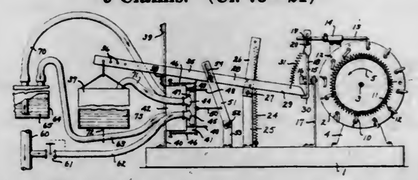
means being fixedly mounted in one of said closure sections so as to remain therein when the other closure section is removed.

2,349,402
DEODORANT AND MOTH PREVENTING CAKE
Morris Beibin, Brooklyn, N. Y.
Application September 29, 1942, Serial No. 460,177
1 Claim. (Cl. 299—24)



In a deodorant and moth preventing cake, a reinforcing and anchoring member in said cake, openings in a part of said member located within said cake and flexible suspending means having therein a loop portion, each of the legs of said portion extending through one of said openings, said suspending means thereby being in engagement with said member interiorly of said cake, whereby said flexible means may have the inner portion thereof introduced by means of said member into said cake to be anchored therein.

2,349,403
AUTOMATIC SAMPLER
John W. Bertetti, Galveston, Tex.
Application September 12, 1940, Serial No. 356,412
9 Claims. (Cl. 73—21)



1. A device for obtaining a composite sample of fluid from a source of fluid, said device including a displacement chamber, a quantity of liquid therein, said liquid being neutral with respect to the fluid to be sampled, a conduit be-

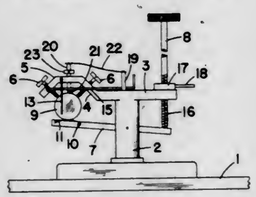
tween said source and chamber, means for supplying fluid from the source to the conduit at a constant pressure, a mass including a leaky container, means for conducting displaced liquid to said container, means comprising said container for closing the passage through said conduit when the container and liquid from said displacement chamber exceed a predetermined weight, and time controlled means including said first mentioned means for opening the passage at predetermined intervals.

2,349,404

CLAMPING MEANS FOR FORCE-RESPONSIVE ELEMENTS

Donald W. Blair, Houston, Tex., and Frank G. Boucher, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 22, 1941, Serial No. 403,484
8 Claims. (Cl. 265—1.4)



1. A clamping device for a force measurement instrument of the type including a force-responsive element capable of suspension for response to said force which comprises a first clamping member carrying a plurality of clamping points, and a second clamping member carrying at least one clamping point arranged symmetrically with respect to said plurality of clamping points, said plurality of clamping points and said single point being arranged on opposite sides of a portion of said force-responsive element, and means for adjusting the relative positions of said clamping points so as to place them in clamping or non-clamping position as desired.

2,349,405

β-CYANOETHYLATED ARYL ω-METHYL SULPHONAMIDES

Herman A. Bruson and Thomas W. Riener, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application June 4, 1943, Serial No. 489,700
6 Claims. (Cl. 260—465)

5. As a new compound, a γ-aryl-γ-(sulphonamido)-pimelonitrile.

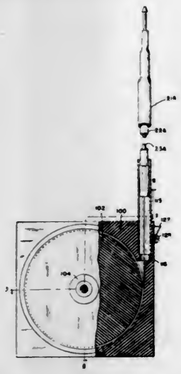
2,349,406

ANTENNA CONSTRUCTION

Emil Carlson, Detroit, Mich., assignor to Pioneer Specialty Company, Detroit, Mich., a corporation of Michigan

Application June 22, 1940, Serial No. 341,953
1 Claim. (Cl. 250—33)

An extensible and retractible antenna construction comprising a plurality of telescoping members, one slidable within another, a flexible but relatively incompressible filamentary element connected to an inner one of said members and also extending through and from the outer thereof, and means for actuating said element to project and retract the inner member, comprising a casing having a substantially cylindrical chamber therein closed at one end by an end wall, a reel rotatable in the chamber and held against longitudinal movement therein, one face of said reel closely abutting and being closed by said end wall, the filamentary element being connected to the reel, said reel having a substantially cylindrical winding surface upon which said filamentary element may be wound to retract the antenna element and from which it may be unwound to project said antenna element, a guard portion rotatable with said reel and surrounding but spaced from said winding surface, the spacing between said winding surface and guard portion forming a slot opening laterally against said end wall of greater thickness than said filamentary element but less than twice the thickness thereof, and a guide opening extending through the casing at its closed end terminating at and substantially tangentially with respect to said wind-



ing surface, means at the open end of the slot for feeding the filamentary element laterally into and from the same when the reel is turned to wind and unwind said filamentary element, the winding surface and the inner surface of said guard portion being relatively smooth, whereby the turns of said filamentary element may slide laterally in and out of said slot as said element is wound and unwound, said reel and guard portion being integral, the winding surface being longer than the guard portion and projects beyond the open end of the slot, said means for feeding the filamentary element comprising an opening through said casing large enough to permit the filamentary element to pass freely therethrough but of insufficient size to permit buckling of said element, said opening extending substantially tangentially with respect to said winding surface and angularly inwardly toward said slot, to feed the filamentary element onto said winding surface and angularly inwardly toward the bottom of said slot as the reel is turned to wind the filamentary element thereupon, and vice versa.

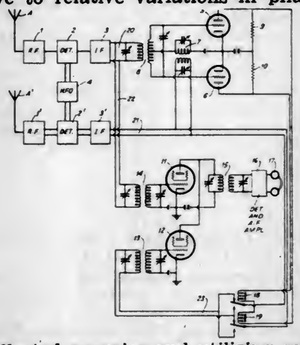
2,349,407

DIVERSITY RECEIVING SYSTEM

Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 31, 1941, Serial No. 425,021
19 Claims. (Cl. 250—20)

1. The method of operating a diversity receiving system which includes collecting signal energy at two spaced points, combining the energies collected, producing a single voltage responsive to relative variations in phase of the



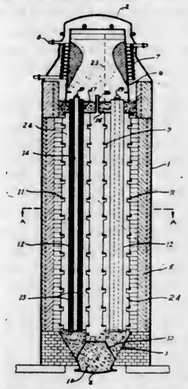
two collected energies and utilizing said voltage to produce fixed changes of 180° in the phase relation of the combined energies.

2,349,408

METHOD AND APPARATUS FOR THE PRODUCTION OF MAGNESIUM

Harry P. Davis, Palo Alto, Calif.; Clarita Davis, administratrix of said Harry P. Davis, deceased, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee for the benefit of Reconstruction Finance Corporation, San Francisco, Calif., a corporation of the United States

Application February 20, 1942, Serial No. 431,752
3 Claims. (Cl. 266—34)



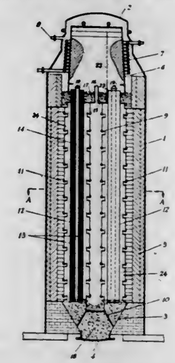
1. An apparatus for the production of metallic magnesium by reducing magnesium oxide-containing material with the aid of reducing agents, capable of exclusively furnishing solid reduction products, comprising in combination a longitudinally extended receptacle of substantially tubular shape, closed at the bottom of the lower portion adapted to be heated to serve as a retort, and provided with a removable cover at the top of the upper portion adapted to be kept cool, to serve as a condenser, a removable condenser liner positioned in the upper portion, sealing means for preventing the passage of vapor from the heated portion to enter into the interspace between the condenser liner and the receptacle wall, a plurality of charge container tubes with vapor conducting means centrally positioned therein, and causing the vapor to escape through a plurality of relatively small passageways, which means open into a common condenser.

2,349,409

METHOD AND APPARATUS FOR THE PRODUCTION OF MAGNESIUM

Harry P. Davis, deceased, late of Palo Alto, Calif., by Clarita Davis, administratrix, Palo Alto, Calif., assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee for the benefit of Reconstruction Finance Corporation, San Francisco, Calif., a corporation of the United States

Original application February 20, 1942, Serial No. 431,752. Divided and this application April 29, 1943, Serial No. 485,000
4 Claims. (Cl. 266—19)



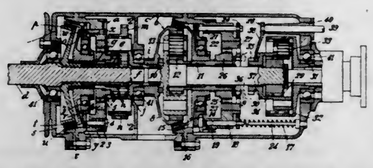
1. An apparatus for the production of metallic magnesium by reducing magnesium oxide-containing material with the aid of reducing agents capable of exclusively furnishing solid reduction products, comprising in combination a longitudinally extended receptacle of substantially tubular shape, closed at the bottom of the lower portion adapted to be heated to serve as a retort and provided with a removable cover at the top of the upper portion adapted to be kept cool to serve as a condenser, and a plurality of vapor-conducting means uniformly being embedded in the surrounding charge and adapted to establish proper communication between the interior of the charge and the common condenser.

2,349,410

VARIABLE SPEED EPICYCLIC GEARING

Edgar Joseph de Normanville, Hatch End, England

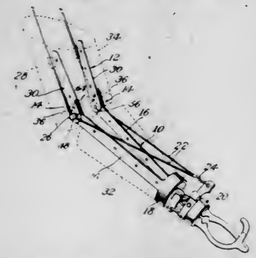
Application April 26, 1943, Serial No. 484,622
In Great Britain June 5, 1942
1 Claim. (Cl. 74—290)



A variable speed epicyclic "underdrive" mechanism having in combination a driving sun pinion, controlling sun pinion, a driven planet pinion carrier, interengaging planet pinions mounted on the carrier and engaging the sun pinions, a unidirectional locking device for preventing rotation of the controlling sun pinion in one direction and thereby varying the speed ratio between the driving and driven members, con-

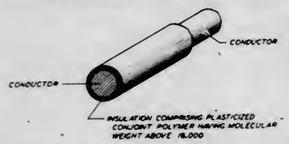
trollable friction means for preventing relative rotation of the driving and controlling sun pinions to provide a direct drive connection between the driving sun pinion and the driven planet carrier, a stationary member, and additional friction means for interconnecting the controlling sun pinion and the stationary member when the unidirectional locking device is in action.

2,349,411
ARTIFICIAL ARM JOINT
David W. Dorrance, San Jose, Calif.; May Belle Dorrance executrix of said David W. Dorrance, deceased
Application April 16, 1942, Serial No. 439,272
3 Claims. (Cl. 3—12)



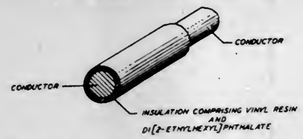
3. An artificial arm comprising forearm and brachium sections each embodying rigid straps extending longitudinally thereof, plates arranged in spaced parallel relation to the lower end portions of the brachium straps, said plates being provided at their upper ends with flanges extending therefrom in the direction of the brachium straps and secured to said straps, the upper end portions of the forearm straps being located between the said plates and the lower end portions of the brachium straps, and pivots extending through the plates and said end portions of the straps, the upper ends of the forearm straps being inclined and cooperating with the flanges of the plates to limit the swinging movement of the forearm section with relation to the brachium section in one direction.

2,349,412
VINYL RESIN COMPOSITION
Stuart D. Douglas, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application December 6, 1939, Serial No. 307,786
12 Claims. (Cl. 174—125)



7. A conductor for electric current electrically insulated with a plastic composition having over a wide range of temperatures high tensile strength and toughness coupled with flexibility, resiliency, high dielectric strength and resistance to cutting, abrasion and attack by water, mineral acids, alkalies and oils, said composition comprising a conjoint polymer of a vinyl halide with a vinyl ester of a lower aliphatic acid, containing from about 85% to about 95% by weight of combined vinyl halide and having an average molecular weight above 18,000, intimately combined with a plasticizer in amounts ranging from about 15% to about 60% of the total amount of said resin and plasticizer; the amount of said combined vinyl halide in said resin, said average molecular weight and the proportion of said plasticizer to said resin being correlated as defined by said values whereby said composition is flexible at temperatures as low as about —17° C. and relatively highly resistant to wire cutting at temperatures as high as about 80° C.

2,349,413
ELECTRICAL CONDUCTOR CARRYING VINYL RESIN COMPOSITION
William F. Hemperly, Bloomfield, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application May 16, 1940, Serial No. 335,504
14 Claims. (Cl. 174—125)



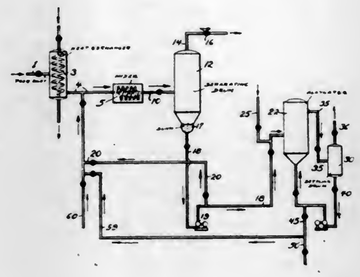
1. Electrical conductor carrying an insulating composition comprising a resinous monovinyl polymer derived predominantly from monomeric vinyl chloride and a plasticizer comprising di(2-ethylhexyl) phthalate.

2,349,414
PLASTIC COMPOSITION
James P. Ferrer, South Charleston, and Stuart D. Douglas, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application June 25, 1940, Serial No. 342,266
5 Claims. (Cl. 260—36)

1. A shaped article having its form defined by thin sheet material, said sheet material being characterized by high tensile strength and freedom from tackiness, together with flexibility, resiliency, elasticity and resistance to oil, moisture and perspiration, and being composed of a homogeneous dispersion of a vinyl resin, plasticizer and a small amount of a stabilizer, said vinyl resin being a conjoint polymer of vinyl chloride with vinyl acetate containing from about 80 to 95% of copolymerized vinyl chloride and having an average molecular weight greater than 15,000, and said plasticizer being present in an amount between about 22% and about 55% by weight of the sheet material.

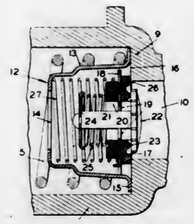
2,349,415
CHEMICAL PROCESS
Arthur A. Draeger and William B. Franklin, Baytown, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
Application April 8, 1942, Serial No. 438,128
12 Claims. (Cl. 62—170)

1. A process for extracting an olefinic component from a mixture containing olefinic and paraffinic components which comprises discharging a liquefied mixture thereof into a zone where it contacts concentrated sulfuric acid and controlling the temperature conditions prevailing in the extraction zone, at least in part, by reducing the pressure on the extraction zone so that at least part of the paraffinic components is evaporated and the heat thereby absorbed compensates, at least in part, for the heat evolved during the



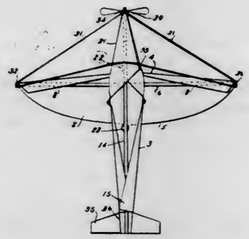
reaction between the acid and the olefinic components.

2,349,416
VALVE CONSTRUCTION
Walter R. Freeman, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application June 8, 1942, Serial No. 446,252
2 Claims. (Cl. 60—54.6)



1. In combination with a retracting spring for a fluid pressure producing piston and a cylinder having an outlet port situated in its forward end wall remote from the piston and connected to a fluid pressure actuating system, said spring being interposed between the outlet port end of the cylinder and the piston, a valve mechanism for permitting fluid under a very low pressure to flow from the cylinder through the outlet when the piston is moved forwardly in the cylinder but preventing fluid from returning to the cylinder from the system when the piston is retracted except when above a predetermined pressure greater than said low pressure, said valve mechanism comprising a supporting member having a portion held between the outlet port end of the spring and the wall end of the cylinder which surrounds the outlet port, a valve member having an opening therethrough and carried by the supporting member, said valve member having a surface for engaging the end wall surface of the cylinder inwardly of that cooperating with the supporting member, a spring interposed between the supporting member and the valve member for exerting a predetermined constant force to place said last named surfaces in pressure engagement, and check valve means for the opening in the valve member preventing flow of fluid through the valve member toward the cylinder when the valve member is in operative position.

2,349,417
TOY KITE
Frank Gene, also known as Yee Ming Hor, Maricopa County, Ariz.
Application May 2, 1942, Serial No. 441,424
5 Claims. (Cl. 244—154)



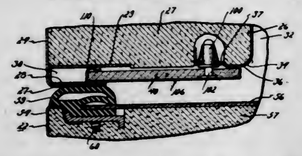
1. A toy kite comprising a transverse wing member and a longitudinal body member, said wing member being composed of a blank of a single sheet of paper, having a straight forward edge and a rear edge rounded forward at the ends, a transverse stiffening beam secured to the top side of said blank, the forward edge of said blank folded over rearwardly to form retention tabs for the ends of said beam and to form an inverted V shaped folded leading edge with the apex in the center thereof, said body member being composed of a longitudinal blank of paper shaped to afford a forward body portion and an extended tail rear portion strengthened longitudinally by a stiffening member attached to its top surface, said body member being attached to the top surface of said wing member so that its center is at right angles to the supporting member on said wing, and so that the under surface of said body affords support of substantial width for the rear edge of said paper portion of said wing member.

2,349,418
METHOD FOR RECOVERING AND REFINING CYCLOPENTADIENE
William Ludomier Glowacki and Elliott Preston, Pittsburgh, Pa., assignors to Koppers Company, a corporation of Delaware
No Drawing. Application November 1, 1940, Serial No. 363,914
1 Claim. (Cl. 260—666)

A process for producing from cyclopentadiene, and the like, present in gases and vapors evolved from such solid fuels as coal during a carbonization step therefor, a material having at ordinary temperatures a vapor pressure lower than said cyclopentadiene and into which said material is susceptible of re-conversion by simple heating, said process comprising: bringing gases and vapors from said carbonization step into contact with a medium for absorbing cyclopentadiene, and the like, therefrom; removing so-charged medium from contact with residual gases and vapors and thereafter heating such medium to vaporize thereby absorbed constituents of said gases and vapors; cooling the so-vaporized constituents to condense them; fractionally distilling the so-condensed vapors and separating therefrom a liquid product that contains the cyclopentadiene admixed with other constituents thereof and that is substantially completely distillable, at normal pressures, be-

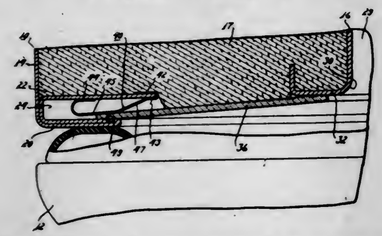
low the boiling temperature of pure benzene; boiling said liquid product at a temperature less than about 60° C. and at substantially atmospheric pressure with return of material volatilized during said boiling to the bulk of the liquid being boiled until the cyclopentadiene is converted into a polymer thereof; and thereafter separating said polymer from more volatile material associated therewith by heating under pressure conditions less than atmospheric.

2,349,419
REFRIGERATING APPARATUS
Martin J. Goulooze, Grand Rapids, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application July 28, 1941, Serial No. 404,271
1 Claim. (Cl. 220—9)



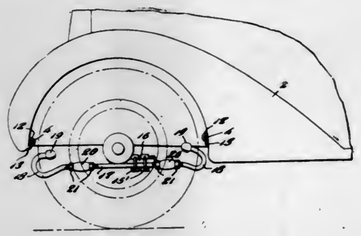
In a cabinet construction, the combination of inner and outer shells having heat insulation therebetween and being provided with a door opening, said shells having edge portions bent inwardly toward each other, the edge portion of one of the shells being bent to form a pocket opening toward the edge portion of the other shell, an insulated breaker strip bridging the space between said shells and having one edge thereof received in said pocket, a thin metallic strip covering the outer face of the breaker strip and extending around the edges thereof, said metal strip on the outer face of the breaker strip contacting the front wall of the pocket and having a resilient extended portion formed thereon extending along the rear face of the breaker strip and engaging the rear wall of the pocket and frictionally securing the breaker strip and metal covering in said pocket, and means for connecting the opposite edge of the breaker strip to the other shell.

2,349,420
REFRIGERATING APPARATUS
Martin J. Goulooze, Grand Rapids, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application October 16, 1941, Serial No. 415,187
2 Claims. (Cl. 220—9)



2. In a cabinet construction, the combination of inner and outer shells having heat insulation therebetween and being provided with a door opening, said shells having edge portions bent inwardly toward each other, the edge portion of one of the shells being bent to form a pocket opening toward the edge portion of the other shell, said pocket having inner and outer walls, a breaker strip bridging the space between the two shells and adapted to engage the inwardly extending portions thereof, said breaker strip having one edge thereof received in the pocket of one of the shells and having the outer surface thereof beveled and adapted to be held in engagement with the outer wall of said pocket, and a resilient member in said pocket having one end thereof provided with a loop for encompassing the edge of the inner wall thereof, and the opposite end of said member extending into the pocket and formed in a resilient loop of a size to substantially traverse the pocket, said loop being in engagement with the inner wall of the pocket and inner surface of the breaker strip for pressing the breaker strip against the outer wall of the pocket and thereby holding the breaker strip in contact with the inwardly extending portions of both shells.

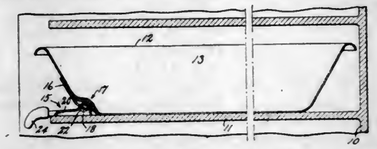
2,349,421
FRONT FENDER SHIELD
George G. Green, Honolulu, Territory of Hawaii
Application April 2, 1942, Serial No. 437,440
3 Claims. (Cl. 280—153)



1. A displaceable shield device for a front vehicle fender, comprising a shield, means carried by the shield and engaging the fender for holding the upper portion of the shield inwardly against the fender and permitting vertical movement of said shield relative to said fender, arms within the fender carried by and projecting laterally from the vehicle frame to extend toward the shield across the adjacent vehicle wheel at the front anad rear of the latter, tubular bearings carried by the outer ends of said arms, rods carried by and projecting inwardly from the shield and slidably extending through said bearings, tension springs connecting the inner ends of said rods with the vehicle frame to yieldingly hold the lower portion of the shield inwardly against the fender, and a bar secured in a horizontal position to the steering arm of the vehicle wheel and having curved ends extending around the front and rear of said wheel to engage and force the lower portion of the shield outwardly from the fender against the action of said springs when the wheel is steered beyond a limited angle from their straight course.

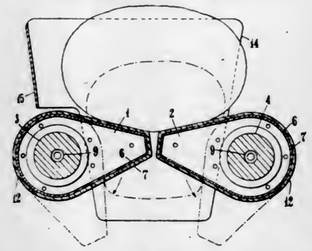
2,349,422
ICE TRAY
Robert Lay Hallock, Larchmont, N. Y.
Application October 24, 1940, Serial No. 362,553
7 Claims. (Cl. 62—108.5)

7. The combination with a cooling element having a shelf or support, of a tray body adapted to rest on said support and having a side wall dished inward to form a pocket in the exterior surface thereof, which pocket has a wall portion substantially horizontal and spaced from said support, a part secured to said tray body in the vicinity of said pocket, and a turnable member carried by said part, said elements be-



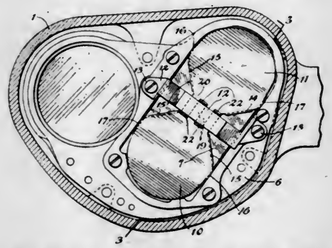
ing so constructed and arranged that said member is operable to produce a separating force between said substantially horizontal wall portion and said support while exerting a substantially zero force of action or reaction on said part.

2,349,423
MANUFACTURE OF TIN BREAD
Laurence Seymour Harber, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England
Application December 20, 1941, Serial No. 423,847
In Great Britain January 9, 1941
4 Claims. (Cl. 107—7)



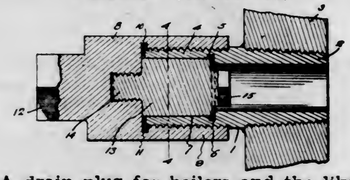
4. Dough oiling and delivery apparatus comprising a pair of cooperating flaps mounted for rotation upon parallel axes, each flap comprising a hollow element having perforated walls, a layer of felt covering the exterior surfaces of said walls, and means for delivering oil to the interior of the flaps.

2,349,424
OPTICAL INSTRUMENT
Kennard W. Harper, East Aurora, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application October 9, 1942, Serial No. 461,643
5 Claims. (Cl. 88—33)



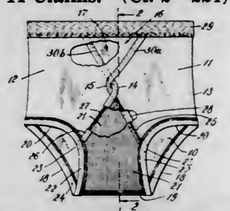
1. In a device of the character described in combination with an optical element, a support and means to retain said optical element on said support, of a light shield for said optical element, said light shield comprising a pair of separate shield members having integral opposed projection portions, said shield members being in opposed relation with said projection portions in adjacent relation and said securing means extending over said projection portions to retain said shield members on said optical element.

2,349,425
DRAIN PLUG
Clarence E. Hartley, Salisbury, N. C., assignor of one-half to William T. Curlie, Salisbury, N. C.
Application December 7, 1943, Serial No. 513,315
2 Claims. (Cl. 138—89)



1. A drain plug for boilers and the like comprising a nipple having an externally threaded rear end for connection to a boiler, an externally threaded front end, an annular internal groove therein intermediate said ends, and an enlarged bore forwardly of said groove, a gasket seated in said groove, a cap member turned onto said front end, and a cylindrical pilot in said cap member fitting in said enlarged bore and bearing against said gasket.

2,349,426
UNDERGARMENT
Asa J. Harwood, Richmond, Ind., assignor to The Atlas Underwear Company, Piqua, Ohio, a corporation of Ohio
Application November 25, 1943, Serial No. 511,689
11 Claims. (Cl. 2—224)

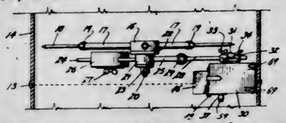


1. A nether garment which comprises a back section, a pair of front sections connected along their outer side edges to the adjacent side edges of the back section, the inner edges of the front sections being spaced apart at their lower ends and crossing between their upper and lower ends to form overlapping portions of the sections above the point of crossing of said edges, a two ply crotch insert having both plies connected to the central portion of the lower end of the back section, said insert extending into the space between the lower ends of the inner edges of the front sections and having one ply connected to one of said edges only and the other ply to the other of said edges only, said plies and overlapping portions being separable to afford access to the interior of the garment, and a waistband connected to the upper edges of the front and back sections.

2,349,427
INDUSTRIAL X-RAY FILM HOLDER
George R. Heimerich, Denver, Colo.
Application August 10, 1943, Serial No. 498,130
17 Claims. (Cl. 250—65)

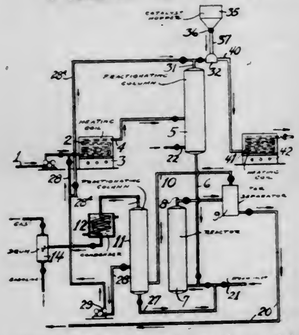
1. Means for supporting an X-ray film on the interior of a hollow object comprising: a tripod

block; extendable legs projecting from said tripod block for engagement with the inner surfaces of said object; a hub member rotatably mounted on



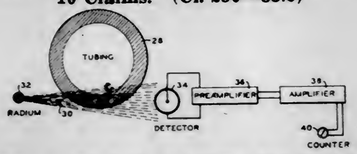
said block; an arm extending from said hub member; and film supporting means carried by said arm.

2,349,428
ART OF TREATING HYDROCARBONS
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 30, 1939, Serial No. 311,832
2 Claims. (Cl. 196—49)



1. A process for treating crude residual oils to obtain vaporizable constituents suitable for further cracking treatment which comprises heating said oil to a temperature sufficient to vaporize a portion of said oil, thereafter separating the vapors so formed from the unvaporized residue, reducing the pressure on the unvaporized residue so separated, maintaining said residue at said reduced pressure for a period between 1 and 2 minutes and at a temperature between 775 and 800° F. so as to materially viscosity break said residuum, thereafter separating the vapors formed during said viscosity breaking treatment, condensing a portion of said last-named vapors and combining the portion so condensed with said fresh oil prior to said first-named heating step.

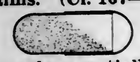
2,349,429
METHOD AND APPARATUS FOR MEASURING THICKNESS
Gerhard Herzog, Houston, Tex., and James Henry Stein, Elmhurst, N. Y., assignors to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Application April 29, 1942, Serial No. 440,900
10 Claims. (Cl. 250—83.6)



1. The method of measuring the thickness of the wall of a curved object such as a still tube, tion within the insulator.

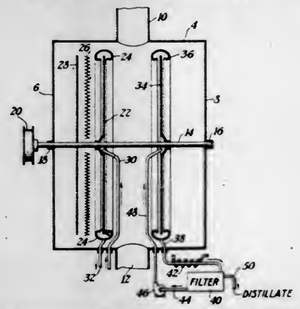
still shell or the like which comprises directing a beam of penetrative radiation tangentially through a section of the wall and determining the amount of the radiation transmitted through the section.

2,349,430
MEDICAL CAPSULE
Gordon D. Hiatt and John Emerson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 15, 1941, Serial No. 393,578
9 Claims. (Cl. 167—83)



1. A medical capsule essentially consisting of a container of a lower fatty acid ester of cellulose having an acyl content of 13–20% having contained therein a medical substance.

2,349,431
DISTILLATION APPARATUS
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
Application May 22, 1940, Serial No. 336,563
8 Claims. (Cl. 202—205)



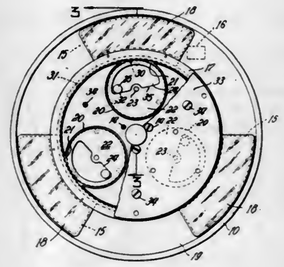
1. High vacuum distillation apparatus comprising vaporizing and condensing surfaces separated by substantially unobstructed space characterized by a highly polished metal, heat reflecting condensing surface and means for maintaining condensate thereon in a film of sufficient thinness that the condensate will absorb substantially less heat than would be absorbed by a film of the same condensate draining from a vertical surface by gravitational flow.

2,349,432
SPARKING PLUG
Bernard Hopps, Rugby, England, assignor to Lodge Plugs Limited, Rugby, England
Application October 6, 1942, Serial No. 460,999
In Great Britain February 26, 1942
1 Claim. (Cl. 123—169)



For use in a sparking plug, the combination of a ceramic insulator, a pair of electrode parts arranged within a bore in the insulator, a plain glass seal situated between the adjacent ends of the electrode parts, and a metal wire extending through the seal and serving to effect electrical connection between the electrode parts, the glass and wire having substantially the same coefficient of thermal expansion as the insulator, and the glass serving also as the sole means for securing at least the inner electrode part in position within the insulator.

2,349,433
MOTION PICTURE PROJECTOR SHUTTER AND HEAT SHIELD THEREFOR
Albert S. Howell, Culver, Ind., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application July 16, 1942, Serial No. 451,120
5 Claims. (Cl. 88—19.4)

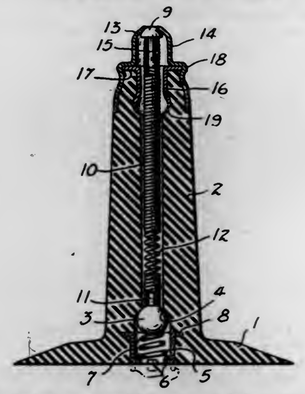


1. In a motion picture projector, a shutter structure comprising a rotatable shutter disk having a light passing portion displaced radially from the axis of rotation to periodically traverse a projector light beam of such projector pursuant to rotation of said shutter, a heat shield ring rotatable coaxially with said disk, a heat shield member on said ring overlappable with said light passing portion axially of the disk, said ring being rotatively adjustable relatively to said disk to determine the amount of such overlap, speed-responsive means comprising inertia disks disposed in flatwise juxtaposition with the shutter disk, said inertia disks having their centers of mass disposed eccentrically of their peripheries and being pivotally connected with said shutter disk on axes concentric with their peripheries and spaced angularly about and parallel to the axis of said shutter disk to be urged in one direction by centrifugal force incident to rotation of said shutter disk, said inertia disks being within a plane-like space bounded by the inner periphery of said ring and with a part of their peripheries in proximate relation with such inner periphery, said outer peripheries of the inertia disks being smaller in diameter than the inner periphery of said ring, elongated springs connected respectively between the inertia disks and said ring, said springs being windable onto the peripheries of their respective inertia disks while being payed out from the inner periphery of said ring to occupy one position and then unwindable from said inertia disk peripheries onto said ring periphery to occupy another position, incident to rotation said ring in one direction toward one limit of the aforesaid adjustment while winding onto said inertia disks and rotating said ring in the opposite direction toward the other limit of such adjustment while unwinding from said inertia disks, said springs being biased toward one of their said positions to urge said ring into the adjustment wherein the heat shield member is in registry with said light passing portion, and the pivotal movement of said inertia disks under said centrifugal force being in the direction to place said springs in the other of their positions and to thus displace the shield member from said light passing portion.

2,349,434
INSECT REPELLENT
Julius Hyman, Chicago, Ill., assignor to Velsicol Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 10, 1943, Serial No. 494,261
8 Claims. (Cl. 167—32)

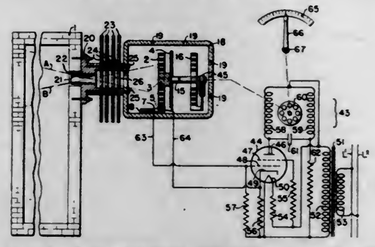
5. An insect repellent composition comprising a substantially non-volatile, refined, relatively inert, compatible fixative solvent having dissolved therein a poly-methyl naphthalene selected from the group consisting of 2,6-dimethyl naphthalene, 2,3,6-trimethyl naphthalene and 2,3,6,7-tetramethyl naphthalene.

2,349,435
AIR VALVE
Arthur Keefe, Akron, Ohio
Application October 17, 1940, Serial No. 361,498
15 Claims. (Cl. 277—42)



1. A valve assembly, comprising in combination, a compressible apertured stem, an inner ferrule expanded radially against said stem, an inner ferrule flange overlying the end of said stem, an outer ferrule compressed radially against said stem, a radially inwardly extending flange forming the upper extremity of said outer ferrule, and a movably mounted plug in said outer ferrule making substantially dust sealing engagement with said outer ferrule flange.

2,349,436
TEMPERATURE MEASURING DEVICE
Earl A. Keeler, Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 31, 1938, Serial No. 199,121
14 Claims. (Cl. 73—355)



11. Measuring apparatus including a device formed of metals having different temperature

coefficients of expansion and supported at one end and carrying a contact at its other end, a relatively fixed contact associated with said first mentioned contact and adapted to be engaged thereby, means for focussing radiation from a hot body whose temperature is to be measured on said device, means mechanically connected to said device and operative to vary the position of said device as required to neutralize the effects of ambient temperature variations on the relative positions of said contacts, means independent of said hot body adapted to exert a controlling action on said device, registering means, and electronic valve means having a connection with and under control of said contacts to control said independent means and said registering means.

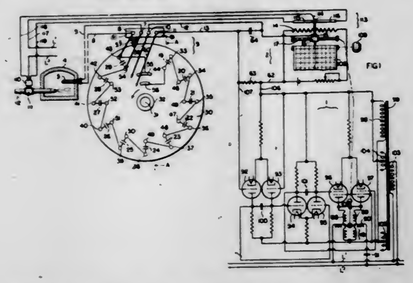
2,349,437

MEASURING AND CONTROL APPARATUS

Earl A. Keeler, Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 7, 1941, Serial No. 373,450

8 Claims. (Cl. 171—95)



1. The method of measuring the magnitude of a minute direct electromotive force which includes the steps of successively connecting said electromotive force to a plurality of electrical capacitive reactance devices to charge the latter, opposing the electromotive force produced by said devices connected in series to a known electromotive force, and varying said known electromotive force as required to effect a balance between said opposed electromotive forces.

2,349,438

PROCESS OF PRODUCING A GAS SUITABLE FOR THE SYNTHESIS OF HYDROCARBONS

Heinrich Koppers, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application November 25, 1939, Serial No. 306,077. In Germany December 3, 1938

1 Claim. (Cl. 252—373)

Process of producing a gas suitable for the synthesis of hydrocarbons and containing therefor CO and H_2 in ratio of from 1:1 up to 1:2, comprising: mixing producer gas that is rich in carbon dioxide and that has been produced by simultaneous passage of oxygen and steam through, for concurrent thermal reaction with, incandescent solid carbonaceous fuel, with at least one of the hydrocarbon gases of the group consisting of coke oven gas, natural gas, and residual gas from the synthesis of hydrocarbons, and with steam; and heating the mixture to a temperature between 1100 and 1200 degrees centigrade so as to thereby react the hydrocarbon gas of the mixture with the steam and with the CO_2 of the producer gas, the producer gas being mixed in proportion to the hydrocarbon gas so that the amount of CO in the producer gas together with the CO formed by cracking of the hydrocarbons of the hydrocarbon gas by reaction with the CO_2 of the producer gas and steam is such as to produce in the final reaction gas CO and H_2 in ratio of 1:1 to 1:2.

2,349,439

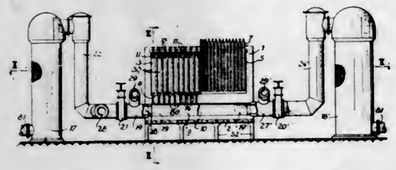
CONTRIVANCE FOR THE HEATING OF GASES

Heinrich Koppers, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

Application December 27, 1939, Serial No. 311,135

In Germany December 31, 1938

7 Claims. (Cl. 23—277)



1. Apparatus for carrying out endothermic gas reactions comprising: a pipe heating chamber in which are arranged vertically a row of pipes through which the gas to be treated is conducted, a combustion chamber disposed alongside said pipe heating chamber, a partition wall between the combustion and pipe heating chambers, port means in the lower part of the combustion chamber for inlet of combustion air and fuel gas thereto for ignition at the lower part of the combustion chamber, outlet means for off-flow of smoke-gases at the lower part of the pipe heating chamber, port openings between the upper parts of the chambers for the passage of the hot combustion gases produced in the combustion chamber into the pipe chamber, and port openings between the lower parts of the chambers for circulation of off-flowing smoke gases from the lower part of the pipe heating chamber back into the lower part of the combustion chamber at the region of the port means for inlet of combustion air and fuel gas to lower part of the combustion chamber.

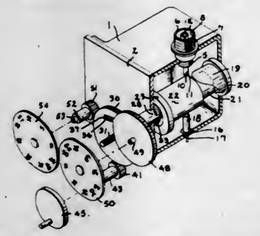
2,349,440

WAVE METER

Stephen D. Lavoie, Dayton, Ohio

Application September 24, 1941, Serial No. 412,102

13 Claims. (Cl. 250—39)



1. A wave meter for measuring ultra-high frequencies comprising an electrically resonant chamber including a closed metal container, a

first metal portion secured to and projecting inwardly from one wall of said container, a second metal portion secured to and projecting inwardly from the wall approximately opposite said first metal portion to form an electrical capacity therebetween, the free ends of said metal portions being shaped to present to each other an increment of area variable in accordance with a predetermined function as said portions are moved relatively, means for changing the resonance frequency of the resonant circuit thus formed by said container and said portions comprising means for moving the free ends of said portions relatively toward and away from one another, and coupling means positioned within said container for applying unknown frequencies to the resonant chamber and for withdrawing the oscillations from the resonant chamber for measuring purposes, said coupling means including input and output electrodes of rod-like configuration and arranged coaxially in line with one another on opposite sides of said metal portions.

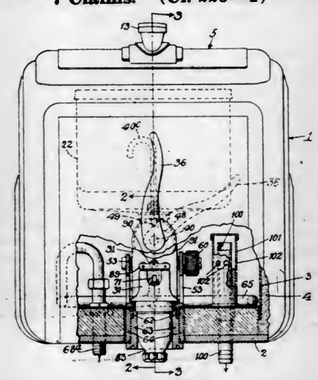
2,349,441

DISPENSING DEVICE FOR BEVERAGES

James K. Lund, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application August 14, 1941, Serial No. 406,747

7 Claims. (Cl. 225—1)



1. A dispensing device for beverages, comprising a casing, open at the top a removable cover therefor, a sirup container in the casing, a sirup measuring and mixing device in the casing, a frame mounted in the casing and separate from the sirup measuring and mixing device and the casing and a single removable connecting device out of contact with the casing for disconnecting the sirup container and the sirup measuring and mixing device with said frame and the casing, so that the sirup container and sirup measuring and mixing device may be removed through the open top of the casing.

2,349,442

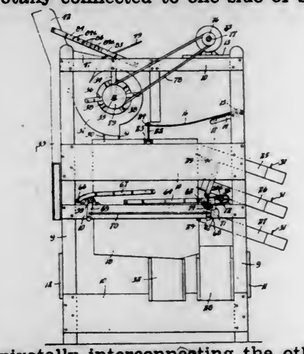
SEED GRADING MACHINE

George Lundin, Dassel, Minn.

Application June 12, 1941, Serial No. 397,701

4 Claims. (Cl. 209—317)

1. A machine for grading seed and the like comprising a frame, a shaker box supported therefrom, a plurality of screens carried by said box at different levels and of successively finer mesh from top to bottom of the box, each of said screens having a receiving end and a delivery end, chutes supported adjacent the delivery ends of the respective screens and to which the respective screens deliver, means for feeding the material to be graded onto the receiving end of the uppermost screen, bell crank levers pivotally supported respectively adjacent opposite sides of said box, each bell crank lever having one arm pivotally connected to one side of said box,



a link pivotally interconnecting the other arms of the two bell crank levers, a member pivoted for swinging movement on the pivot of one of said bell crank levers, means for oscillating said member, and means for releasably connecting one of the arms of the bell crank lever pivoted on the same pivot as said member to said member at various arcuately swung positions relative to said member.

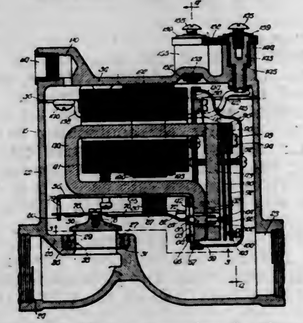
2,349,443

BURNER CONTROL APPARATUS

Lourdes V. McCarty, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

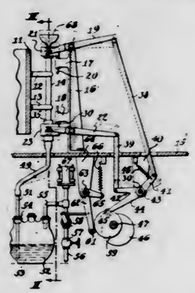
Application April 25, 1941, Serial No. 390,247

13 Claims. (Cl. 175—336)



1. In combination, a member having a predetermined first stationary position and movable therefrom to a second position, an electromagnet and an armature therefor having a retracted position and an attracted position, energy storing means connected to said member and reacting in a direction for moving it from its said first stationary position to its said second position, and connections between said armature and said means whereby the energy stored thereby increases in the movement of said armature toward said electromagnet responsive to energization thereof, the energy stored in said energy storing means by movement of said armature to said electromagnet becoming effective for moving said member from its said first position when said armature approaches its fully attracted position.

2,349,444
APPARATUS FOR INSIDE COATING
Michael E. McGowan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 29, 1940, Serial No. 343,229
7 Claims. (Cl. 91—18)



1. Apparatus for coating the inside of vitreous envelopes comprising a conveyor carrying said envelopes, means for causing said conveyor to index a plurality of said envelopes sequentially, a bracket mounted adjacent said conveyor and provided with lugs, levers pivoted on said bracket, upper and lower manifolds operatively connected to said levers, arms extending from said manifolds to and slidable in said lugs to cause said manifolds to reciprocate toward and away from one another upon movement of said levers so as to either grippingly connect with or release indexed envelopes, a shaft carrying a plurality of cams, a bell crank lever actuated by one of said cams and having one arm connected to one, and another connected to another of said manifold connected levers, means for turning said shaft so that said manifolds reciprocate toward and away from one another at predetermined intervals in synchronism with the indexing of said conveyor, a container holding a supply of coating fluid, means connecting said lower manifold to the fluid in said container, a source of compressed air, means connecting said source to said container over said fluid, another bell crank lever, a valve for controlling said compressed air, means connecting said other lever and valve, said other cam operating said other bell crank lever to open said controlling valve to admit air and force said coating fluid into said lower manifold and connected envelopes, after the latter have been gripped between said manifolds, for flushing said fluid over the inner surfaces of said envelopes, and then close said valve and allow said fluid to drain back into said container.

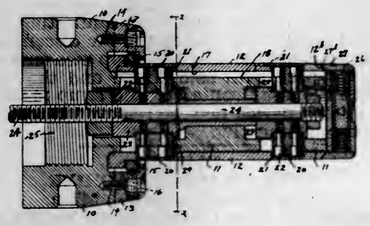
2,349,445
METHOD OF MAKING BITUMINOUS PAVING COMPOSITIONS AND PAVEMENTS
Frank B. McGrane, Quincy, Mass., assignor to Colprovia Roads, Inc., Rochester, N. Y., a corporation of New York
No Drawing. Application May 8, 1940, Serial No. 333,935
7 Claims. (Cl. 106—280)

1. In a method of making a paving composition, the steps comprising utilizing a normally solid paving bituminous cement, powdered hard bitumen and a substantially non-volatile flux oil having a viscosity Furol at 122° F. between 100 and 2500 seconds and constituting at least about 20% of the bituminous binder material in the composition, commingling said paving bituminous cement in a heat-liquefied condition with said flux oil, coating the aggregate particles with the flux oil and paving asphalt cement while the flux oil acts as a carrier for paving bituminous cement unamalgamated therewith, and then incorporating the powdered hard bitumen and distributing it throughout the mass, thereby forming a paving composition wherein the aggregate particles substantially uniformly throughout the mass are coated with the flux oil containing paving bituminous cement unamalgamated with the flux oil and containing powdered hard bitumen that is unamalgamated with the flux oil and paving bituminous cement, said composition being adapted upon consolidation in place and upon amalgamation of the flux oil and powdered hard bitumen to produce a pavement resistant to internal movement in which aggregate particles are bonded both by the paving bituminous cement and by the cement resulting from the amalgamation of the flux oil and the powdered bitumen.

2,349,446
MANUFACTURE OF BITUMINOUS PAVEMENTS AND PAVING COMPOSITIONS
Frank B. McGrane, Quincy, Mass., assignor to Colprovia Roads, Inc., Rochester, N. Y., a corporation of New York
No Drawing. Application May 9, 1940, Serial No. 334,163
9 Claims. (Cl. 106—280)

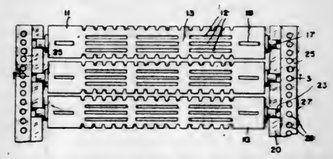
1. That improvement in the art of making bituminous paving and the like compositions which consists in preparing a first batch portion by mixing relatively coarse aggregate particles with bituminous cement in liquid form so that said particles are coated thereby, preparing separately a second batch portion by mixing relatively fine aggregate particles with fluxing oil and with powdered hard bitumen adapted to gradually amalgamate with the fluxing oil so that said particles are coated thereby and the flux and powdered hard bitumen are distributed substantially evenly throughout said second batch portion; and thereafter bringing the two batch portions together and mixing them until they are distributed substantially evenly throughout each other.

2,349,447
EXPANDING CHUCK
Andrew S. Martin, Salem, Ohio
Application December 8, 1943, Serial No. 513,655
4 Claims. (Cl. 279—2)



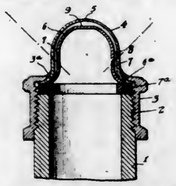
2. In an expanding chuck, the combination of an arbor having a hollow body extending therefrom, a plurality of longitudinally extending raised cam areas thereon, a plurality of slots in said body, expanding sleeve members positioned around said body, each of the said sleeve members having a plurality of longitudinally extending raised cam areas on its inner surface, matching the raised cam areas on the said body, and means for rotating the said sleeve members about the said body to cause the said cam areas to engage and move the said sleeve members outwardly, said means comprising a plurality of moving cams positioned through the said slots and engaging the said sleeve members, a moving rod in the said hollow body, the said moving cams attached thereto for movement thereby, the said sleeve members having cam shaped pockets formed therein, in which the said moving cams engage.

2,349,448
GRATE FOR BOILERS, FURNACES, AND THE LIKE
George G. Marx, Detroit, Mich.
Application November 13, 1941, Serial No. 418,933
2 Claims. (Cl. 126—163)



1. A grate structure for a furnace consisting of a plurality of grate bars having vertical air channels and having longitudinal air passages connected therewith, said passages being open to the ends of said bars, a grate rest for said bars, said grate rest having openings adapted to register with the open ends of said passages, whereby to provide continuous air channels from beyond said rest to said vertical air channels, means for spacing said rest from the side wall of the furnace, and a perforated cover plate for the space so produced.

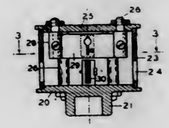
2,349,449
FOG NOZZLE
Gordon R. Meador, Fresno, Calif.
Application February 20, 1942, Serial No. 431,641
3 Claims. (Cl. 299—114)



1. A nozzle for delivering a fog, which comprises a pair of substantially semi-spherically shaped domes forming a space therebetween for the passage of fluid, the outer dome having an orifice in its apex and the inner dome having a plurality of orifices spaced from its apex and angled to direct the movement of the water both towards the orifice of the outer dome and in a rotary direction, the orifices in the inner dome being tapered.

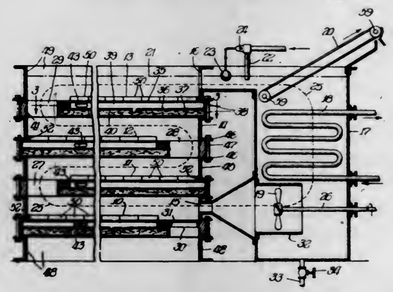
2,349,450
APPARATUS FOR DYNAMIC BALANCING
Gotthold Harry Meinzer, Glendale, Calif.
Application August 2, 1941, Serial No. 405,174
16 Claims. (Cl. 73—53)

1. Apparatus for measuring the dynamic unbalance of a rotating element, comprising: a resilient supporting means; a body member including an opaque circumferential shell mounted on and arranged to be rotated in axial alignment with said element; two opaque plane surfaces mounted substantially edge to edge in said body at an angle of 90°, each of said planes having a relatively minute opening arranged in the axis of rotation of said body and said shell



having oppositely disposed windows arranged in lines normal to said planes; means for projecting a collimated light beam through said windows, against said planes and through said openings as said planes come into positions approximately normal to said beam, and a screen arranged to receive and visualize the images of said openings produced by the projection of said light beam therethrough.

2,349,451
FREEZING OF LIQUIDS
William H. Motz, Oak Park, Ill.
Application November 26, 1940, Serial No. 367,275
10 Claims. (Cl. 62—105)

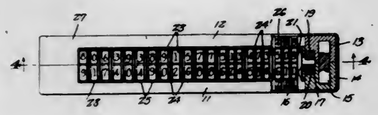


1. In an apparatus of the character described, a plurality of upwardly opening cellular freezing beds arranged one above another in generally horizontal positions, means for causing a stream of liquid to be frozen to flow across each of the beds in succession, means for reducing the temperature of the beds to freeze the liquid in the cells, and means for raising the temperature of the beds to liberate the frozen shapes from the cells into the moving stream, said apparatus being so constructed and arranged as to utilize the moving stream to carry off the frozen shapes from all of the beds to a common point of discharge.

2,349,452
SCORE CARD
Nickolas J. Musolino, Campbell, Ohio
Application January 20, 1942, Serial No. 427,490
1 Claim. (Cl. 40—68)

A score registering device comprising an elongated housing formed of two similar sections arranged in superposed relation, blocks secured within the ends of the housing sections and equal in thickness to the depth of the sections, dowel pins engaging the blocks to secure the housing

sections in assembled relation, smaller blocks recessed in said first blocks and having polygonal openings, rods extending longitudinally of the housing and having polygonal ends seated in the openings of said smaller blocks, plates contacting with the inner sides of the blocks and having openings through which the rods extend, count-



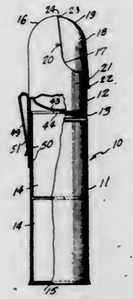
ing wheels rotatably mounted on the rods, the top and bottom of the housing being provided with windows through which the numerals on the wheels may be read and the lateral sides of the housing being provided with openings through which all of the wheels are exposed for operation, and washers located between the wheels and between the plates and the adjacent wheels.

2,349,453

FLASHLIGHT

Philip X. Noel, Bridgeport, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut

Application November 21, 1941, Serial No. 419,869
2 Claims. (Cl. 240—10.67)



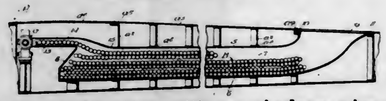
1. A flashlight comprising a cylindrical casing having a rounded end wall and having an opening in a side wall and part of said end wall, a closure for said opening pivoted to the casing and shaped to fill out the general contour of the casing when in closed position and said end wall and said closure when in this position together forming a substantially semi-spherical end for the casing, a spring contact secured to said casing and insulated therefrom, said contact extending to a position to engage a pole of a battery in said casing, a lamp socket carried by said closure to move therewith and disconnected from said contact when the closure is in the closed position, and said contact being positioned to close the circuit from the battery to a lamp in said socket when the closure is in open position, said closure when in open position being in alignment with the rounded end wall of the casing and extending laterally from said end wall as a continuation thereof over the opening and the lamp, and the light from the lamp is directed laterally.

2,349,454

AMMUNITION CONTAINER

George W. O'Hare, Bellflower, and Conrad Harley, Los Angeles, Calif., assignors, by mesne assignments, to Consolidated Vultee Aircraft Corporation, a corporation of Delaware

Application February 26, 1941, Serial No. 380,608
2 Claims. (Cl. 89—33)



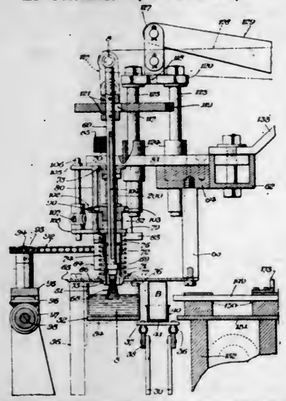
1. In combination with an airplane wing embodying a series of laterally spaced cross ribs with alined openings therein and a skin around the ribs with a hole in one portion thereof, and having a machine gun mounted therein, an ammunition container comprising an elongated tube for a cartridge belt, including rigidly connected top, bottom and side walls, extending through, and fitting snugly within, said openings in the ribs, serving also as a structural or reinforcing part of the wing, having one end thereof open and curved, and in registry and connected relation with the hole defining portion of the skin in order to permit the belt to be inserted into the tube interior from the exterior of the wing, and having its other end provided with a belt guide leading to and terminating adjacent the machine gun, and a removable cover plate for said one end of the tube, shaped conformably to, and fitting removably within, the hole in the skin and forming a part of the wing skin when it is in its normal or operative position.

2,349,455

APPARATUS FOR INTERNALLY COATING CONTAINERS

Eric P. Olson, New York, N. Y., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application March 18, 1943, Serial No. 479,583
15 Claims. (Cl. 91—37)



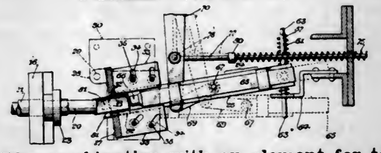
1. The combination with a receptacle for coating material, and means for supporting an open-top box adjacent thereto, of a depending brush, means for supporting said brush and alternately positioning it over said receptacle and an adjacent box on said supporting means, and means for independently reciprocating said brush at the limit of each positioning movement thereof, thereby dipping the brush into the contents of the receptacle and transferring the charge to and painting the interior surface of said box.

2,349,456

MEANS FOR APPLYING TUBULAR ARTICLES TO DIES AND THE LIKE

Eric P. Olson, Brooklyn, N. Y., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application March 18, 1943, Serial No. 479,584
8 Claims. (Cl. 214—1)



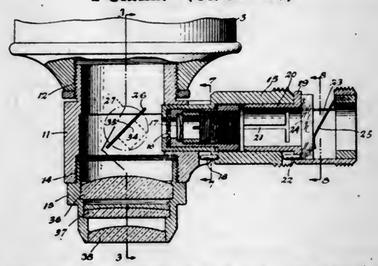
3. The combination with an element for telescopically receiving a tubular article, of means including an oscillatory carriage for alternately positioning such article in spaced angular relation to, and in axial alignment with said element, and means including a plunger reciprocative longitudinally of and in axial alignment with the article for moving the article to and in lapping relation with the opposing end of said element when the article is angularly disposed, and for moving the article longitudinally of and upon said element when the article is in axial alignment with the element.

2,349,457

VERTICAL ILLUMINATOR FOR MICROSCOPES

Harold Osterberg, Buffalo, and Kennard W. Harper, East Aurora, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York

Application January 2, 1941, Serial No. 372,850
1 Claim. (Cl. 88—40)



A vertical illuminator for microscopes including a body portion having an opening for admitting light at one side thereof at an angle to the optical axis of the microscope, a tubular member slidable in said opening and frictionally retained therein, a second tubular member having a portion in telescoping relation with said first tubular member and frictionally retained therein, said tubular member extending into said opening having an iris diaphragm adjacent the end thereof extending into said opening and said second tubular member having a filter holding portion and an opening in said portion to allow rapid insertion or removal of filters in said filter holding portion, means for aligning said tubular members with each other, a partial reflector in said optical axis in alignment with said tubular members, means for angularly adjusting said reflector, said iris diaphragm being adjacent said reflector and said reflector being arranged at an angle to the optical axis to reflect light admitted through said tubular members into the illuminator to the object and said reflector being adapted to allow light rays from the object to pass therethrough to the eye of the observer.

2,349,458

REACTION OF PARAFFINIC HYDROCARBONS

John J. Owen and Eldon E. Stahly, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 26, 1938, Serial No. 242,572
7 Claims. (Cl. 260—683.4)

5. A process for the production of a composition composed predominantly of saturated, branched chain, normally liquid hydrocarbons boiling in the gasoline range which comprises reacting at least one low boiling isoparaffin with at least one normally liquid paraffin of different molecular weight than the low boiling isoparaffin, under alkylation reaction conditions in the presence of a metal halide-aluminum halide double salt complex wherein the metal is other than aluminum.

2,349,459

MANUFACTURE OF PHENYL o-PHENOXYBENZOATE

John H. Pearson, Flushing, and Berndt W. Hammarén, Floral Park, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application July 30, 1940, Serial No. 348,448
8 Claims. (Cl. 260—476)

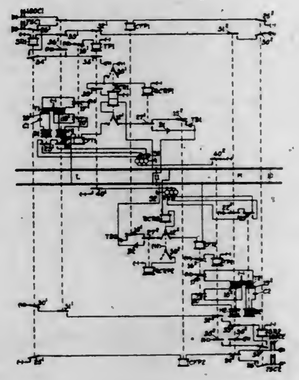
1. In the manufacture of phenyl o-phenoxybenzoate from crude diphenyl carbonate containing iron impurities by catalytic rearrangement of the diphenyl carbonate, the improvement which comprises separating iron impurities from said diphenyl carbonate prior to effecting said rearrangement.

2,349,460

CODED TRACK CIRCUIT SIGNALING SYSTEM

Robert M. Phinney and Oscar S. Field, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.

Application December 14, 1940, Serial No. 370,186
29 Claims. (Cl. 246—33)



1. In a duplex track circuit of the coded type comprising, a section of track, code creating apparatus at each end of said section for creating codes each consisting of a plurality of impulses, code responsive apparatus at each end of said section distinctly responsive to such codes, double

throw contacts at each end of said section operating in substantial synchronism to connect the code creating apparatus at one end of said section to the code responsive apparatus at the other end of said section through the rails of said section and connect the code creating apparatus at the other end of said section to the code responsive apparatus at said one end of said section through the rails of said section alternately, said double throw contacts assuming alternate positions at such a slow rate that complete codes each consisting of a plurality of impulses may be transmitted alternately in opposite directions through the rails of said section during such alternate connections, and means at the ends of said section controlled through the track rails of said section for operating said double throw contacts.

2,349,461

MANUFACTURE OF AMINES

Henry Reginald Clive Pratt, Halewood, near Liverpool, and George Oswald Morris, Eccleston Lane Ends, near Prescot, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 14, 1941, Serial No. 398,114. In Great Britain July 18, 1940

9 Claims. (Cl. 260—583)

1. The process for the manufacture of lower aliphatic amines having at least two carbon atoms attached to the nitrogen atom, which comprises reacting hydrogen with a mixture of a lower aliphatic nitrile and at least one lower aliphatic aldehyde, the molar ratio of nitrile to aldehyde being not more than about 2:1, and said reaction being carried out in the presence of a hydrogenating catalyst at a temperature within the range of 180° C. to 400° C.

2,349,462

ADDITION AGENT FOR LUBRICATING OIL AND METHOD OF MAKING SAME

Raymond Reuter, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Original application February 20, 1940, Serial No. 319,839. Divided and this application December 7, 1940, Serial No. 369,120

6 Claims. (Cl. 260—461)

1. The method of producing an addition agent for hydrocarbon oils, which comprises reacting an ester of phosphorous acid with an alkyl aroxy alkanol at such temperature and for such period of time as to introduce into said ester at least one alkyl aroxy alkanol group.

2,349,463

AIR VALVE

John T. Riddell, Chicago, Ill.

Application May 16, 1942, Serial No. 443,239

2 Claims. (Cl. 273—65)



1. An air valve comprising a rigid body having a passage therethrough and a portion of said passage being inwardly tapered to form a valve seat, a valving member of elastic material disposed within said body and having its inner end tapered for conforming engagement with said valve seat, said valving member having its tapered end axially split for a substantial distance within said seat and having a passage in its opposite end leading to the split portion, and a pressure member mounted in said body and axially adjustable therein, said pressure member bearing upon said valving member to force the same along said seat to closingly compress the split portion thereof, and said bearing member having an opening aligned with the passage therein.

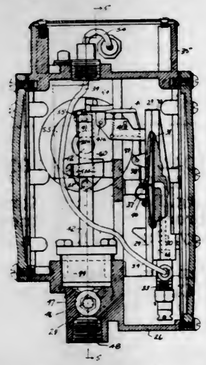
2,349,464

FLUID RELEASE VALVE AND ACTUATING MECHANISM

Harry N. Rider and Fred G. Dieter, Youngstown, Ohio, assignors to "Automatic" Sprinkler Company of America, Youngstown, Ohio, a corporation of Delaware

Application October 19, 1942, Serial No. 462,630

5 Claims. (Cl. 169—17)



1. In a valve actuating mechanism, a fluid relief valve, a valve lever in operative connection therewith, a tiltable latch lever positioned adjacent said valve lever and adapted to normally hold the said valve lever in inoperative position, a supporting element engageable beneath said tiltable latch lever, and means engageable with said supporting element for moving the same to permit the tilting of the said latch lever, said means comprising a pressure responsive device.

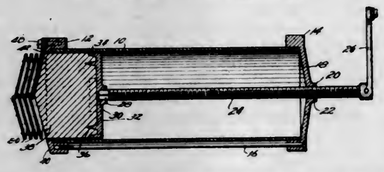
2,349,465

METHOD OF AND APPARATUS FOR SLICING MEAT

Carl V. Rupin, Topeka, Kans.

Application September 11, 1941, Serial No. 410,412

11 Claims. (Cl. 146—164)



1. The method of preparing and slicing meat comprising preforming an elongated body of meat, freezing said meat, rotating and uniformly feeding said meat to a knife radially disposed to the axis of rotation of said body of meat to form a helical slice of substantially uniform thickness.

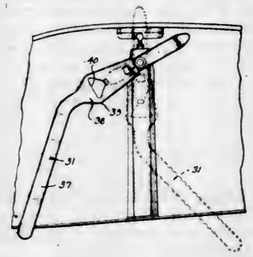
2,349,466

FENDER SHIELD LATCH MECHANISM

William B. Schueren, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application October 2, 1941, Serial No. 413,247

2 Claims. (Cl. 292—209)



1. A latching mechanism for a fender shield comprising a latching finger pivotally mounted in proximity to its center on said shield, said finger including a fender engaging portion on one side of said pivot and a tail portion on the other side, said tail portion having its tip bent back on itself to form a hook, a tongue struck from said tail portion between said hook and the pivot point of said finger, a lever having a pair of openings therein for receiving said tongue and said hook, the opening for receiving said hook having a portion which is larger than said hook and through which said hook may be bodily passed and said opening also having an additional portion of substantially the same width as the width of said hook, the portion of said lever which defines the end of said last mentioned portion of said opening being arranged to be engaged by said hook after said hook has passed through said first portion of said opening.

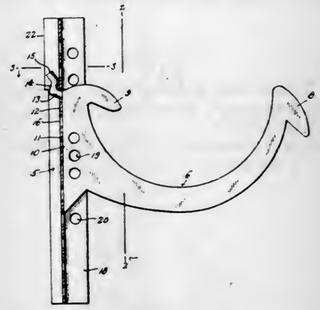
2,349,467

GUTTER HANGER

Thomas L. Scott, Johnstown, Pa.

Application May 19, 1943, Serial No. 487,657

1 Claim. (Cl. 248—48.2)



A trough hanger comprising a bracket including a vertical channel portion, an arcuate trough supporting arm having a straight inner end positioned within the channel and against the base thereof, and readily detachable means between the arm and the bracket, said readily detachable means consisting in the provision of an offset pin on the inner end of the arm and having the bracket formed with an opening for receiving the pin.

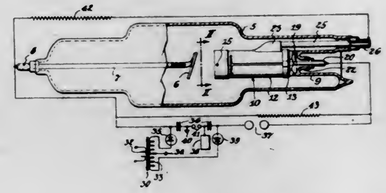
2,349,468

ELECTRON EMISSION DEVICE

Charles M. Slack, Glen Ridge, and Louis F. Ehrke, Newark, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 22, 1942, Serial No. 451,902

7 Claims. (Cl. 250—142)



1. An electron discharge device comprising an envelope, electrodes in said envelope between which a high potential difference occurs during operation of said device, metallic leading-in conductors connected to said electrodes for transmitting energy thereto and having a spacing therebetween exteriorly of said device less than that necessary to prevent spark-over at the applied voltage, and means for energizing said device for a period of time so short that ionization of air with attendant spark-over between the closely spaced metallic conductors does not occur regardless of the high instantaneous potential difference existing between said conductors.

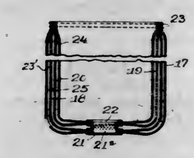
2,349,469

FILTER

Edward C. Sloan, Geneva, Ill., assignor to Jesse B. Hawley, Geneva, Ill.

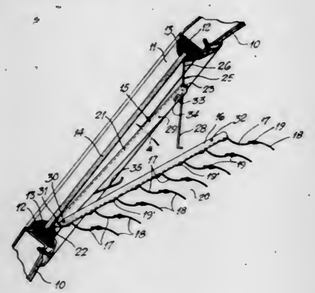
Application August 14, 1941, Serial No. 406,830

7 Claims. (Cl. 210—204)



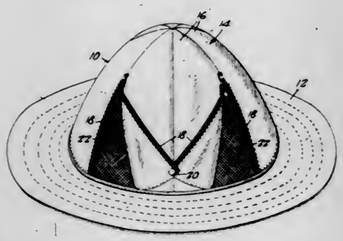
7. In a multiple stage filter, an outer and an inner pair of accreted, fibrous pulp shells, the walls of the inner pair being spaced from each other and from the walls of the outer pair, said shells being concentric and secured together around one end, the two shells of each pair each having an opening in its central portion of the other end and secured together around said openings but unattached with relation to each other from the end having the opening to the opposite secured ends, perforate means for spacing apart the apertured central portions of the two pairs, said pairs being positioned so that the fluid being filtered will pass first through one shell of each pair into the space between each pair of shells, and then through the other shell of each pair into the space between pairs, and then out through said perforate means, the fibers of the shells of one of said pairs being coated with resin and having particles of inert material uniformly distributed in the interstices between the fibers thereof, the resin being of such character and so applied that it assists in effecting said uniform distribution.

2,349,470
BLIND FOR AUTOMOBILE WINDOWS
Merl A. Stanfield, Bellflower, Calif., assignor to Godfrey Bell, Los Angeles, Calif., doing business under the name of Shehan Mfg. Co.
Application July 5, 1941, Serial No. 401,119
5 Claims. (Cl. 189—63)



1. In combination with a window frame within which a pane of glass is mounted and which frame carries a deformable portion within which the edge of the glass is directly seated, a slatted blind structure including mounting units comprising a pair of rigid members articulately connected intermediate their free ends, the free ends being designed to be forced between the surface of the window glass and the deformable frame member, said mounting units having a toggle action so that when the sections of each unit are moved in longitudinal alignment the ends of the sections will move oppositely to a seated position, means for latching said sections in said longitudinally aligned position, a blind carried by said mounting units and pivoted thereto along the lower edge thereof, and means embodied in the articulate connection between the elements of the mounting units permitting adjustable variation in the length of said mounting units.

2,349,471
HEADGEAR
Frank L. Starbeck, Montevideo, Minn.
Application October 9, 1942, Serial No. 461,460
2 Claims. (Cl. 2—176)

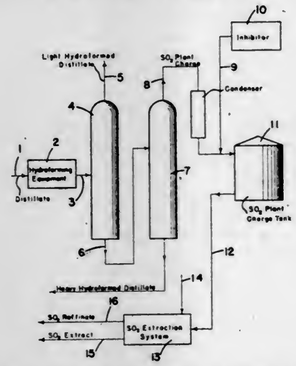


1. In a head gear, a crown comprising a plurality of similarly contoured pieces secured together, certain of said pieces being detached one from the other to provide flaps foldable back upon themselves to form openings in the crown, mesh like material spanning the openings, and slide fasteners coacting with said flaps and other pieces in the crown for fastening the flaps to the crown and close the openings.

2,349,472
OIL PROSPECTING METHOD
Millard S. Taggart, Jr., Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application June 7, 1939, Serial No. 277,891
10 Claims. (Cl. 23—230)

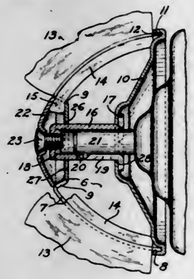
1. A method for prospecting for petroleum deposits which comprises subjecting samples of the surface soil from spaced points in the area under investigation to the action of hydrocarbon gas in a sealed zone and determining the amount of the hydrocarbon gas taken up by the individual soil samples.

2,349,473
EXTRACTION WITH SULPHUR DIOXIDE
Richard E. Tannich, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 14, 1942, Serial No. 458,311
4 Claims. (Cl. 196—37)



1. In a method in which a petroleum fraction containing olefins is extracted with SO_2, the steps of introducing into said petroleum fraction prior to its contact with SO_2 an oxidation inhibitor and maintaining said inhibitor in the mixture until the SO_2 is separated from the hydrocarbons.

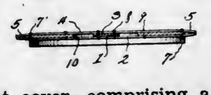
2,349,474
FAN
Joel R. Thorp, West Allis, Wis., assignor to The Fulton Company, West Allis, Wis., a corporation of Wisconsin
Application November 24, 1941, Serial No. 420,159
9 Claims. (Cl. 170—173)



1. In combination, a hollow semi-ovoid hub member having an integral flat portion at its

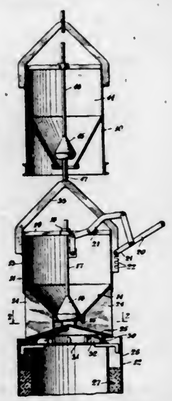
smaller end and spiral-helical blade receiving slots terminating short of the larger end of said member and being provided with enlarged blade insertion openings at the periphery of said flat portion, an annular centering plate having a groove coacting with the larger end of said member and being provided with a central opening, a longitudinally split supporting sleeve piercing said central opening and said flat hub portion and having integral lobes coacting with said plate, and clamping means coacting with said sleeve and with the front of said hub member, said clamping means comprising a disk engaging said hub member near the periphery of said flat portion to close said blade insertion openings and a screw coacting with said disk and with an end wall of said sleeve to maintain the hub in assembled condition.

2,349,475
BASKET COVER
James W. Trew, Gettysburg, Pa., assignor of one-fourth to Vernon E. Ramsey, Suffolk, and one-fourth to Raymond G. Ramsey, Driver, Va.
Application October 28, 1942, Serial No. 463,669
6 Claims. (Cl. 217—124)



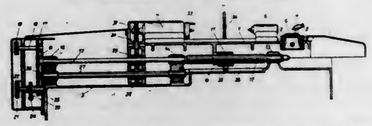
1. A basket cover, comprising a flat circular wall body, crossed slats disposed over each of the two sides of the body, the crossed slats on one side of the body being in opposed relation to those slats upon the other side of the body, a hoop disposed upon one side of the body, the slats on the said one side of the body being between the body and the hoop, and means securing the hoop, body and slats together.

2,349,476
APPARATUS FOR CHARGING CONCRETE MOLDS
William Walter Trickey, Essex Fells, N. J., assignor to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey
Application February 26, 1941, Serial No. 380,575
4 Claims. (Cl. 214—17)



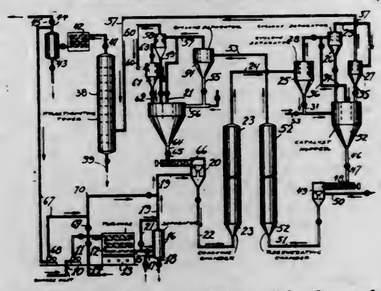
1. A portable concrete charging bucket comprising a hopper for containing concrete, said hopper having a bottom wall and a port therein for discharging concrete, valve means for closing said port, a plurality of brackets secured to the underside of said bottom wall and extending downwardly below said hopper, and a plate spaced from said port and valve and underlying the same and engaging the lower edges of said brackets, said brackets being substantially radially disposed so as to provide unobstructed passage for concrete flowing from said port and along the upper surface of said plate to points beyond the outer edge thereof.

2,349,477
THREAD GRINDING MACHINE
Fernand Turrettini, Bellevue-Geneva, Switzerland, assignor to the firm Societe Genevoise d'Instruments de Physique, Geneva, Switzerland, a firm of Switzerland
Application December 8, 1942, Serial No. 468,269
In Switzerland July 2, 1942
6 Claims. (Cl. 51—95)



1. A thread grinding machine comprising a grinding wheel, a frame, a lead screw, a nut fitted on said screw, a work piece supporting table mounted on said frame and movable in one direction into grinding position in which the table engages the nut, a wheel dressing device on said table, an abutment for limiting the movement of the table in the opposite direction to a dressing position in which said dressing device is operatively positioned with respect to said wheel, and manually controlled fluid pressure operated means for selectively moving said table into either of said positions.

2,349,478
CONVERSION OF OILS
Charles W. Tyson, Summit, and Carl O. Tongberg, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application June 12, 1940, Serial No. 340,070
4 Claims. (Cl. 196—52)



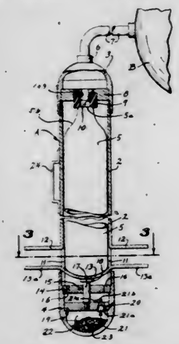
1. In the catalytic cracking of hydrocarbon oil wherein the catalyst is suspended in powdered form in a stream of oil vapors to be converted and the resulting stream passed through a cracking zone and wherein the catalyst after separation from the cracked products is passed through a regenerating zone; the improvement which comprises maintaining both the cracking and the regenerating zones under a total pressure in excess of two atmospheres and maintaining a partial pressure of oil vapors within the said cracking zone at not substantially exceeding one atmosphere.

2,349,479
HEEL LIFT PROTECTOR
Edith B. Van Sant, Hollywood, Calif.
Application December 4, 1941, Serial No. 421,637
2 Claims. (Cl. 36—73)



1. In a heel protector, a split resilient band of angular cross section, said band having a bottom flange disposed to lie flat against the edge margin of the bottom face of a heel, an upstanding flange disposed to embrace the lower part of the peripheral surface of a heel, said upstanding flange being corrugated to provide transverse ridges, and means for fastening the said band to a heel.

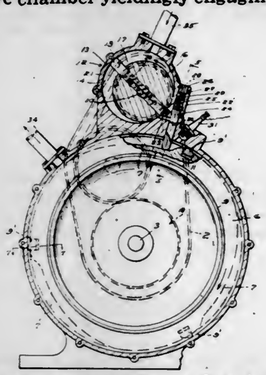
2,349,480
INFLATING DEVICE
Udell Clifford Walk, Palo Alto, Calif.
Application December 18, 1942, Serial No. 469,439
6 Claims. (Cl. 222—5)



1. In an inflating device, the combination of a housing, a gas cartridge slidably arranged therein, a piercing element fixed in one end of said housing, manually controlled means for forcing the cartridge against the piercing element, said means including a handle rigidly attached to said housing, a slidable handle member spaced from said rigid handle and adjacent to the end of said cartridge opposite the end sought to be punctured, automatic means for forcing said cartridge against said piercing element upon immersion of the device in water including a piston adapted to abut against said slidable handle member, said piston having a piston head, a chemical adapted to produce gas upon contact with water stored behind said piston head, means to convey water to said chemical upon immersion of the device, and means to prevent escape of gas through said water conveying means.

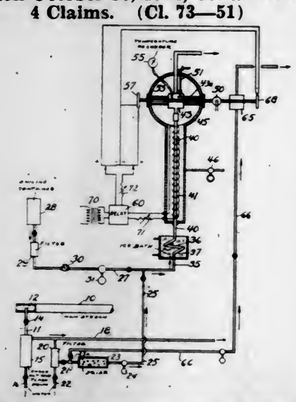
2,349,481
ROTARY ENGINE
Robert C. Wallace, Wilmington, Calif.
Application August 27, 1942, Serial No. 456,406
1 Claim. (Cl. 123—14)

A rotary engine comprising a housing, a shaft journaled in said housing, a rotor fixed on said shaft and operable in the housing, said rotor having a plurality of circumferentially spaced combustion chambers in its periphery, a fuel pump on the housing, said pump including a casing having a circular chamber therein, a shaft mounted off center in the chamber, a rotor fixed on the second-named shaft, means connecting said second-named shaft to the first-named shaft for actuation thereby, a valve chamber in the casing, said casing having a passage therein establishing communication between the valve chamber and the pump chamber, a valve slidable in the valve chamber and riding on the periphery of the first-named rotor, a removable closure block in the valve chamber, set screws in said valve chamber securing said block in position, coil springs in the valve chamber yieldingly engaging the valve



with the first-named rotor, a bar in the valve chamber engaged with said coil springs, screws adjustably mounted in the block and engaged with the bar for adjusting the coil springs, said valve having a port extending therethrough communicating, at one end, with the passage when the valve is in raised position and, at its other end, with the combustion chambers when said valve is in lowered position, said valve constituting means for conveying compressed fuel from the pump chamber to the combustion chambers, and a spark plug mounted on the housing for firing the charge in the combustion chambers.

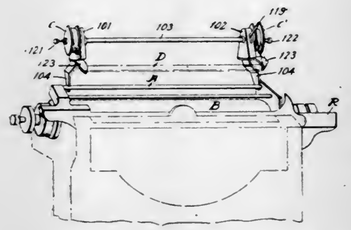
2,349,482
AUTOMATIC ANILINE POINT RECORDER
Albert B. Welty, Jr., Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 30, 1941, Serial No. 417,215
4 Claims. (Cl. 73—51)



2. In the refining of oil, apparatus for continuously indicating the aniline point of the oil,

which comprises means for diverting a small stream of the refined oil, means for mixing a substantially equal volume of aniline in a stream with the diverted oil, a cooler adapted to cool the stream of mixture below its point of miscibility, a heater adapted to heat the cooled stream of mixture above its point of miscibility, a transparent cell adapted to receive the thus treated mixture, means for directing a beam of light through the cell, means governed by the light issuing from the cell for deactivating the heater when the liquid is miscible and for activating the heater when the liquid is immiscible whereby the mixture is maintained at its aniline point, and means for continuously indicating the temperature of the mixture in the cell.

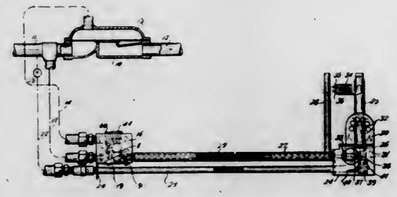
2,349,483
TYPEWRITING MACHINE
François Willheim, Vinay, France; vested in the Alien Property Custodian
Application January 11, 1940, Serial No. 313,429
In France January 23, 1939
3 Claims. (Cl. 197—153)



1. In a typewriter having a main frame and a platen carriage, the combination comprising two bobbins, a mandrel for each bobbin, bearings for said mandrels, rigid connecting means between said bearings, supporting brackets for said bearings pivotally engaging and movable with said carriage, an auxiliary ribbon adapted to wind on and unwind from said bobbins, guiding means on said bearings for said auxiliary ribbon, selective mandrel actuating means carried by said bearings and means for operating the particular mandrel actuating means selected, said last-named means including an arm connected to said mandrel actuating means and projecting from a bearing and a cam member on said main frame arranged in the path of movement of said arm as the latter moves with said carriage, said cam member engaging and displacing said arm during its movement in said path and thereby simultaneously displacing and moving the mandrel actuating means.

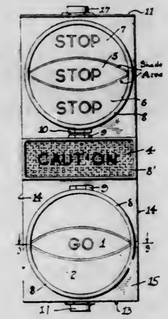
2,349,484
PILOT VALVE
Julius Converse, East Cleveland, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application April 25, 1942, Serial No. 440,518
4 Claims. (Cl. 277—21)

1. In apparatus of the character described, means for selectively connecting a pressure chamber with a gas line or with a bleed line, comprising a pair of valve seats associated with said gas line and bleed line, a fluid connection between said valve seats, a conductor from said connection to said pressure chamber, two ball valves each biased toward one of said valve seats, the first ball more



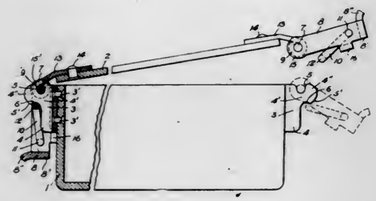
strongly than the second, the fiirst ball, when seated, engaging the second ball and holding the latter off its seat, and actuating means projecting through said bleed line for unseating the first ball and moving it laterally away from engagement with the second ball for enabling the latter to seat itself.

2,349,485
STREET TRAFFIC SIGNAL
Henry B. Corley, Washington, D. C.
Application November 1, 1941, Serial No. 417,557
3 Claims. (Cl. 177—337)



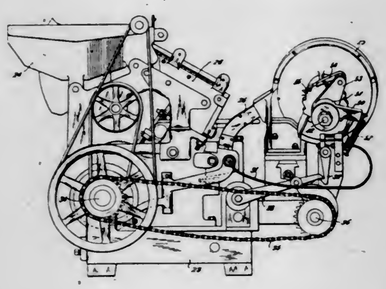
1. In a traffic signal light of the type described, the combination of a casing, a series of three lenses of like color, comprising a central lens having its opposite edges oppositely curved to form an approximate ellipse, an upper lens adjacent the central lens and having both its edges upwardly curved to form a crescent-shaped lens, and a lower lens having both its edges downwardly curved to form a reversely disposed crescent-shaped lens, expanding light-reflecting partitions shaped to have their outward edges contact the respective edges of the aforesaid lenses to form separate light compartments, and separate light bulbs disposed behind each of the aforesaid lenses to permit of successive illumination of the said lenses, whereby time lapse of red and green signals is indicated by the area of illumination of those signals throughout the period of illumination of either of those colored signals.

2,349,486
COMBINED HINGE AND LATCH
Loring Pickering Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application July 22, 1943, Serial No. 495,738
7 Claims. (Cl. 16—147)



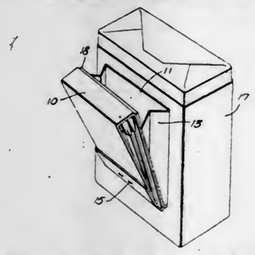
1. In a combined hinge and latch, a combined latch keeper and hinge leaf having an upper open-top seat and a lower open-bottom seat; a hinge pintle removably engaging one of said seats, a hinge leaf pivotally connected with said hinge pintle, and a resilient latch having means pivotally connecting it with said last named hinge leaf and means having removable engagement with the other of said seats.

2,349,487
FEED MECHANISM
Frank B. Davis, University Heights, Ohio, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Original application August 19, 1939, Serial No. 291,049. Divided and this application September 27, 1941, Serial No. 412,669
2 Claims. (Cl. 10—169)



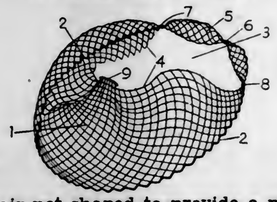
1. A feeding mechanism including a hopper for receiving a batch or mass of loose articles, a delivery chute extending from the hopper, a delivery member for delivering the articles one at a time from the hopper to the upper end of the delivery chute, said delivery member being in the form of a disk, a shaft for supporting and rotating said disk with its axis inclined with respect to both the horizontal and the vertical, said disk having equally spaced peripheral notches each adapted to receive one of said articles in the lower part of the hopper when the lower part of the disk passes through said batch or mass of articles and to elevate the same and deliver it to the upper end of said chute, and means for giving said disk step-by-step movements equivalent to the angular distance between the notches, said means comprising a ratchet wheel mounted on said shaft, a bell crank lever loosely mounted on the shaft, a pawl pivotally connected with one arm of the bell crank lever and engaging the ratchet wheel to actuate the same, a power shaft, and means operatively connecting said power shaft with the second arm of the bell crank lever.

2,349,488
COMBINATION MATCH BOOK AND EMERGENCY ASH TRAY
Charles S. Dement, Maywood, Calif.
Application April 4, 1942, Serial No. 437,713
1 Claim. (Cl. 206—48)



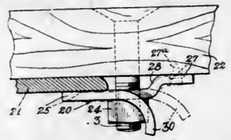
The combination with a match book of an emergency ash tray formed of fireproof material and having front and rear walls and bellows structure side walls adapted to permit the ash tray to be collapsed flat against the match book, means for attaching the ash tray at the bottom to the bottom of the match book, an adhesive coating on the rear wall of the ash tray for adhesively securing the ash tray to a cigarette package to provide a match book, an emergency ash tray, and a cigarette package as a unitary structure, and a transverse reinforcing member carried by the upper end of the front wall of the ash tray, said member being of greater thickness than the front and rear walls of the ash tray combined and extending rearwardly beyond the front wall so as to overlie the upper edge of the rear wall when the ash tray is in collapsed condition and thus form a closure for the upper end of the tray.

2,349,489
HAIR NET
Lilly Daché-Després, New York, N. Y., assignor, by mesne assignments, to Weco Products Company, Chicago, Ill., a corporation of Illinois
Application March 29, 1943, Serial No. 480,942
10 Claims. (Cl. 132—49)



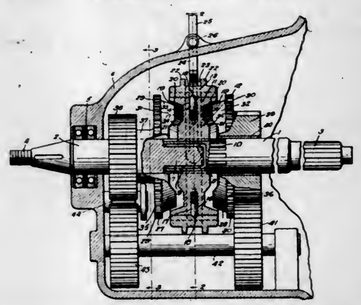
1. A hair net shaped to provide a plurality of openings, said openings being separated and partially defined by a band of the same material as the remainder of the net, said band being tightly gathered transversely and tied at spaced points therealong.

2,349,490
FLOOR SECURING CLIP
Ernest G. Doke, Chicago, Ill., assignor to Mac-Lean-Fogg Lock Nut Company, Chicago, Ill., a corporation of Illinois
Application October 2, 1941, Serial No. 413,261
4 Claims. (Cl. 189—35)



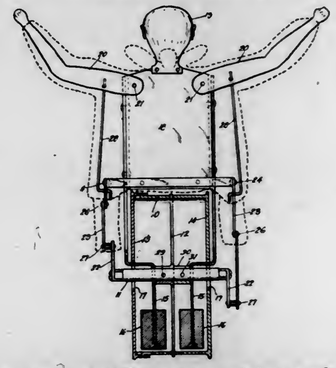
1. A rigid unitary floor securing clip of the character described comprising, in combination, a sill-engaging flange, a horizontal board-engaging flange of substantial area, an integral web connecting said flanges, the major portion of said web being offset from the board-engaging flange whereby it occupies a position in spaced relation to the board when installed, said major portion of said web being provided with an opening to receive a fastening bolt, and a tongue projecting from said major portion and in adjacent vertically spaced relation to the opposed face of the board-engaging flange throughout its full extent whereby it may be readily engaged by a tool inserted between the opposed faces of the board engaging flange and tongue and bent into locking engagement with a nut on said bolt and in engagement with said major portion.

2,349,491
SYNCHRO-SHIFTING TRANSMISSION CLUTCH
Joseph J. Dugas, New Orleans, La., assignor to Higgins Industries, Inc., New Orleans, La., a corporation of Louisiana
Application December 1, 1942, Serial No. 467,520
1 Claim. (Cl. 192—53)



Synchro-shifting transmission clutch comprising normally relatively rotatable axial driving and driven shafts, a gear freely rotatable on the driving shaft, a gear fixed to the driven shaft, said gears being permanently connected through a train of gearing including a reverse idler and having a substantially one to one ratio, a slidable clutch member between said gears splinably mounted on said driving shaft to rotate therewith and slide thereupon comprising a drum having annular grooves of angular cross-section on opposite sides and a sleeve mounted about the periphery of said drum having internal faces splinably interdigitating with external teeth on the periphery of said drum, whereby said sleeve is slidable laterally beyond either side of said drum, a spring detent normally maintaining said sleeve in fixed mid-position to said drum, said gears being parts of respective complementary clutch members each including an annular flange of angular cross-section positioned to be engaged by the adjacent friction faces of the adjacent annular groove of said drum, each clutch member having teeth about its periphery positioned to be engaged by the teeth of said sleeve when in laterally extended position, and an operating lever for moving said clutch member into engagement with either of said complementary clutch members whereby the friction faces of said drum first engage the corresponding friction faces of the complementary clutch member, limiting the sliding movement of said drum, further movement of said operating lever in the same direction overcoming said detent and bringing the teeth of said sleeve into engagement with the teeth of the adjacent flange.

2,349,492
ANIMATED FIGURE
Willard D. Eakin, Northampton Township, Summit County, Ohio
Application July 31, 1942, Serial No. 452,980
2 Claims. (Cl. 46—109)



1. An animated figure comprising a wheel having a peripheral wall, a hub and means rigidly connecting the hub with a part of the peripheral wall which is at a distance axially inward from the side margins of the peripheral wall, an axle fixed in the hub to rotate with the wheel, side closure members rigid with said peripheral wall, at least one of the same being formed with a central hole substantially larger than the axle, the axle projecting outward through said hole, a member rotatably mounted on the axle, extending through said hole and having a downwardly extending portion within the wheel, a weight on the downward extending portion of said member and positioned wholly within the wheel, and a mechanism mounted outside of and supported wholly by the wheel, said mechanism having constant positive-drive connection with said member and with said axle and being thus adapted to be positively driven by their relative movement.

2,349,493
SWAGING TOOL
Hugo E. Enders, Belleville, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application June 3, 1943, Serial No. 489,544
1 Claim. (Cl. 81—10)

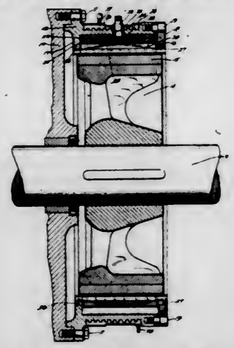
A swaging tool for use in locking a machine screw in the metal wherein it is countersunk, in-

cluding a staff member having a lower transverse straight edge portion adapted to fit within the kerf of the head of said screw to leave a vacant space at one end portion of said kerf, and a spring retracted channel swage member slidably mounted upon and embracing said staff member at the side thereof opposite said vacant space, said swage



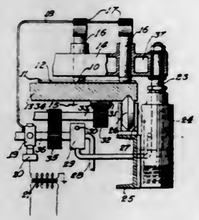
member projecting above said staff member and having at its lower end a bit provided with opposite intersecting cam inclines adapted to swage metal into the end portion of said kerf opposite said vacant space against the lower straight edge portion of the staff member to forcibly shift the tool to occupy said vacant space.

2,349,494
ASSEMBLY FOR CLUTCHES AND BRAKES
Thomas L. Fawick, Akron, Ohio
Application May 2, 1941, Serial No. 391,509
14 Claims. (Cl. 188—152)



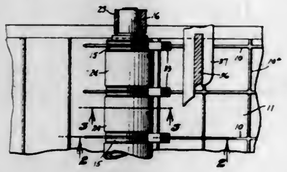
1. The combination of two relatively rotatable structures, one of the same having a frictional engagement surface and the other comprising a circumferential series of wear shoes adapted to engage said frictional engagement surface, a fluid-distensible member for effecting such engagement, rigid means providing a mounting for said fluid-distensible member, and interlocking means engaging said rigid means and said wear shoes for transmitting torque from one of the same to the other, and retaining means detachably secured to said rigid means for retaining the said interlocking means in position, the said interlocking means being removable from said rigid means by relative movement in a direction lying in an axial plane of the assembly but only when the said retaining means is not in position, the said retaining means comprising a circumferential series of hood-shaped cap members detachably secured to said rigid means.

2,349,495
APPARATUS FOR PRODUCING SHEETLIKE MATERIAL
Donald E. Gillum, Hermosa Beach, and Dale H. Van Riper, Los Angeles, Calif., assignors to North American Aviation, Inc., Inglewood, Calif., a corporation of Delaware
Application June 4, 1942, Serial No. 445,822
4 Claims. (Cl. 219—4)



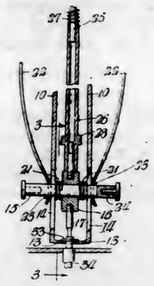
1. In an apparatus for strengthening sheet metal, a horizontally movable table for supporting sheet metal with wire mesh thereon, a welding cross head above the table, a series of welding electrodes carried by said cross head, means for shifting the cross head vertically to apply and retract the electrodes with respect to the work on the table, means for supplying welding current to said electrodes when lowered to engage the work, and mechanism actuated by the table and controlling, in timed relation thereto, the cross head shifting means and welding current supply means at each line of wire mesh joints.

2,349,496
APPARATUS FOR PRODUCING SHEETLIKE MATERIAL
Donald E. Gillum, Hermosa Beach, and Dale H. Van Riper, Los Angeles, Calif., assignors to North American Aviation, Inc., Inglewood, Calif., a corporation of Delaware
Application May 4, 1942, Serial No. 441,600
13 Claims. (Cl. 219—4)



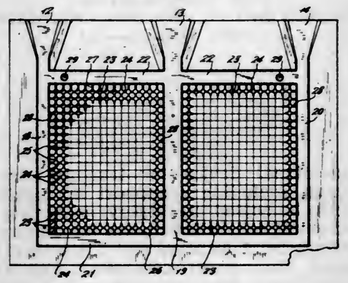
1. In an apparatus for applying to sheet material stiffening ribs adapted to be fused into bonding relation therewith: a table for supporting the sheet material for movement thereon; an axially alined series of spaced bonding rollers adapted to ride adjacent the sheet material, each roller including guide means adapted to receive and apply rod-like reinforcing elements to said sheet material; means operating through said rollers to heat said material and reinforcing elements to fusing temperatures thereby to bond said reinforcing elements to said sheet material; and pressure rollers operating substantially in line with, and located in the spaces between, said bonding rollers and bearing against said sheet material independently of, and insulated from, the bonding rollers along the line of applied bonding heat to hold said material against warping, said bonding rollers and pressure rollers being mounted upon a common rotatable support.

2,349,497
HAND AND PINION REMOVER
Gunnar D. Gustafson, Chicago, Ill.
Application June 13, 1942, Serial No. 446,863
8 Claims. (Cl. 81—6)



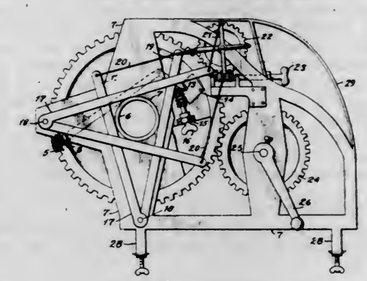
1. In combination with a turret having pairs of oppositely disposed tools projecting from its periphery, means in which said turret is mounted for a turning movement about its axis and whereby the desired tool of any one pair may be disposed in working position, a stem-like element carried by said means in line with the other tool of said one pair, and spring-pressed means having a sliding guided engagement with said element for movement into and out of engagement with the other tool of said one pair thereof, said last mentioned means when engaged with said other tool, locking the turret against turning movement to hold said desired tool in working position and when disengaged from said other tool permitting the turret to be turned about its axis to dispose another of said tools in said working position.

2,349,498
CASTING SHOT
James E. Hatfield, Shaker Heights, Ohio, assignor to Grant Storage Battery Company, Minneapolis, Minn., a corporation of Minnesota
Application September 22, 1942, Serial No. 459,240
1 Claim. (Cl. 22—153)



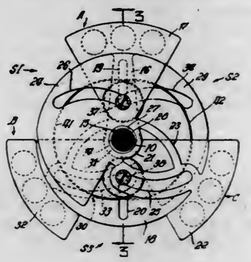
A mold for making shot having pouring gates at the top and a series of upright feeding channels leading to the bottom of the mold with air venting means between the pouring gates, and a series of shot cavities arranged in horizontal rows between the upright feeding channels, each row of cavities being directly connected with the upright feeding channels and each cavity being directly connected to the cavities above and below it, whereby the molten metal, on being poured into the gates, gradually fills the upright feeding channels and successively flows into the horizontal rows of cavities, each cavity being vented upwardly.

2,349,499
PIPE CUTTER
Robert R. Hayden, Cross Timbers, Mo.
Application April 28, 1941, Serial No. 390,724
1 Claim. (Cl. 29—67)



A cutting machine comprising a rotary head mounted on a hollow shaft, means to rotate the head, a hack saw blade mounted pivotally at one end to the head, means comprising worm mechanism mounted on the head and connected to the opposite end of said blade to adjust the blade toward and away from the center of the hollow shaft, a housing for the rotary head, work clamp means comprising angularly spaced pairs of levers on a face of the housing each pair of levers being pivotally connected at one end and being connected at their other ends by links to the respective ends of a spoked member, the spoked member being mounted on a shaft in the housing, worm means to rotate said spoked member whereby the respective members of each pair of levers are moved substantially simultaneously toward each other to clamp the work in the path of the saw and substantially concentrically with the rotating head.

2,349,500
ROTATABLE SHUTTER FOR MOTION PICTURE PROJECTORS
Albert S. Howell, Culver, Ind., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application July 16, 1942, Serial No. 451,121
3 Claims. (Cl. 88—19.4)



1. In a rotatable shutter structure, a rotatably mounted frame member provided with a light shield portion spaced radially from the rotational axis of said structure, a pair of light shield members associated with said frame member for pivotal adjustment about said rotational axis and each provided with a light shield portion of an angular extent substantially equal to that of the frame light shield portion and spaced radially from said rotational axis equidistantly with the frame light shield portion and being disposed

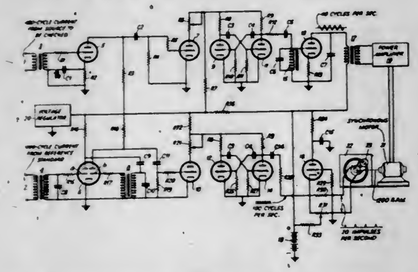
relative to each other to facilitate pivotal adjustment of the adjustable shield members from a spread formation wherein all of said shield portions are distributed substantially equiangularly with reference to said rotational axis to provide three light passing portions of substantially equal angular extent disposed substantially equiangularly with reference to said rotational axis and into overlapping relation within a common position diametrically opposite with respect to the frame shield portion to provide two light passing portions of substantially equal angular extent disposed substantially equiangularly with reference to said rotational axis, and speed responsive means sensitive to the rotational speed of said structure and operable to position said adjustable shield members in said spread formation and in said overlapping relation respectively at a slow and a high rotational speed of said structure.

2,349,501

FREQUENCY DRIFT INDICATOR

Alfred Kahn, Hollis, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application August 28, 1941, Serial No. 408,633
14 Claims. (Cl. 172—245)



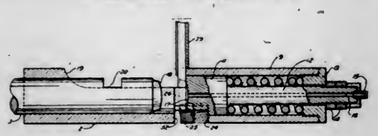
1. A synchronism indicator for comparing the frequency of a local alternating current source with that of a predetermined standard frequency source, comprising electronic circuits for dividing the frequencies of the two sources by different factors, a motor synchronously driven by an amplified current which is a sub-harmonic of the frequency of said local source, a lamp of the gaseous discharge type mounted for rotation on the shaft of said motor, and means for exciting said lamp by short sharp impulses substantially once per revolution of said motor shaft, said impulses being derived from the frequency dividing circuit appropriate to said standard frequency source.

2,349,502

BOTTLE-CAP RECLAIMING MACHINE

Otto A. Koehler, San Antonio, Tex.

Application August 13, 1942, Serial No. 454,668
5 Claims. (Cl. 113—38)



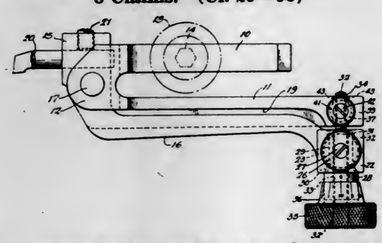
1. In a bottle cap reforming machine, a stationary die having a cap receiving recess, a reciprocating die movable to and from said stationary die, a frame movable by said reciprocating die, a chute adapted to deliver caps by gravity to a position in front of said stationary die, means operated by the movement of said frame to control the dropping of said caps, a gate operably attached to said frame for movement into position to support a cap adjacent said recess for reforming and to then release it, and means to remove said cap from said stationary die.

2,349,503

MICRO BORING AND TURNING DEVICE

Charles M. Kouba, Chicago, Ill., assignor of one-half to Gay M. Bonebrake, Chicago, Ill.

Application August 6, 1943, Serial No. 497,695
8 Claims. (Cl. 29—98)



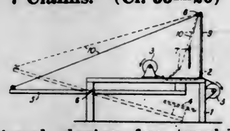
1. A micro boring and turning device comprising a support provided with a shank receivable in the tool post of a lathe or other suitable machine tool, a lever pivoted to the support, a tool carried by the lever, an oscillatory nut element carried by the lever at a point remote from its pivot, an opposed oscillatory nut element carried by the support, said nut elements oscillating around axes parallel with the lever axis, and a micrometer screw having threaded portions provided with threads of different pitch, each of said threaded portions cooperating with one of said oscillatory nut elements.

2,349,504

APPARATUS FOR INSTRUCTION IN DRAWING

Bruno Lamberger, Gwelo, Southern Rhodesia, Union of South Africa

Application July 17, 1942, Serial No. 451,253
7 Claims. (Cl. 35—26)



1. Educational device for teaching drawing or painting, including a support for holding a drawing to be copied on display, a copying surface and pupil controlled means for eliminating the drawing from display, and for returning it to display, said pupil controlled eliminating means becoming effective whenever the pupil moves a drawing implement to that operative position with respect to said copying surface, in which position the drawing could have been traced onto said copying surface if it had been displayed on said support.

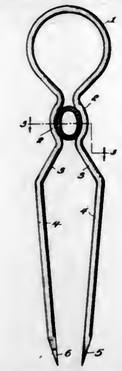
2,349,505

GARDEN HOSE HOLDER

John Lohne, Denver, Colo.

Application March 30, 1943, Serial No. 481,127
3 Claims. (Cl. 248—85)

1. A garden hose holder comprising a pair of companion jaws for receiving a hose between the same to set up a clamping engagement therewith, a substantially circular spring handle formed on and rising from the jaws for urging the latter together, intermediate members formed



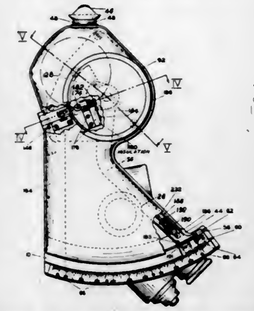
on and depending in diverging relation from the jaws, prongs formed on and depending from the intermediate members in converging relation, and ground penetrating teeth formed on the lower ends of the prongs.

2,349,506

RECORDING NAVIGATION INSTRUMENT

Gunne Lowkrantz and Edwin A. Link, Jr., Binghamton, N. Y., assignors to Link Aviation Devices, Inc., Binghamton, N. Y., a corporation of New York

Application April 7, 1941, Serial No. 387,340
8 Claims. (Cl. 234—1)



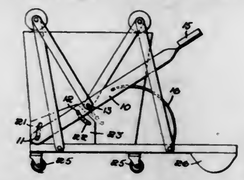
1. In a sextant of the character described having a side, the combination comprising a rotatable index arm, a graduated scale cooperating with said index arm, a mechanism constructed and arranged to rotate said index arm, a hand operable member connected to said mechanism and extending externally of the instrument, a movable record receiving member associated with said first member for movement in a plane parallel to the plane of said first member, said index arm, said hand operable member and said record receiving member being arranged for movement in parallel planes on the same side of the sextant, marking means mounted adjacent the said record receiving member, and means for changing the relative positions of the record receiving member and marking means in addition to said movement of the record receiving member to make a record of the position of the said record receiving member corresponding to that of the said index arm.

2,349,507

LEVER MECHANISM

Harry C. MacGraham, Wellesley Hills, Mass.

Application July 30, 1943, Serial No. 496,828
3 Claims. (Cl. 74—516)



1. A mechanism for shifting the leverage of a lever during a single uni-directional stroke of that lever, comprising the combination, with the beam of the lever, of two fulcrum pins set on the beam at different distances from the work point of the lever; and a support with two separate slots each providing a bearing for one of said pins to act as a fulcrum; the beam of said lever being mounted for endwise movement relative to the support during its stroke; the said slots having edges which are cams guiding their respective pins for the stroke-travel of the beam to cause endwise movement of the beam such that the pins successively have fulcrum bearing during the stroke.

2,349,508

ADHESIVE COMPOSITION OF MATTER

Gerry Mack, Jackson Heights, N. Y., assignor to Advance Solvents and Chemical Corporation, a corporation of New York

No Drawing. Application November 28, 1941, Serial No. 420,811
10 Claims. (Cl. 260—23)

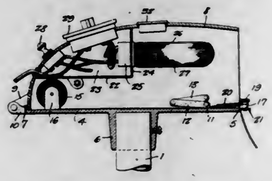
1. A stabilized, pressure sensitive, adhesive composition comprising a high molecular weight polyisobutylene, a thermoplastic adhesion and tack producing resin, a non-volatile plasticizer, and, as a stabilizer, a liquid fatty mono-ester formed by the reaction of a fat acid with a monohydric aliphatic compound selected from the group consisting of the normal primary alcohols and their glycol monoethers.

2,349,509

ELECTRICAL HEATING APPARATUS

Leonard Marano, Brooklyn, N. Y.

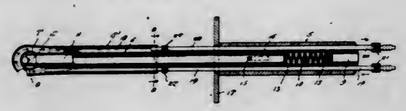
Application April 30, 1942, Serial No. 441,189
2 Claims. (Cl. 219—19)



1. In an electrical heating apparatus for the hands, a receptacle including a flat bottom wall and an open front for the passage of the hands within the receptacle to rest upon the bottom wall, said bottom wall having a straight front edge and outwardly curved side edges merging into a curved rear edge, a truncated substantially semioval shaped hood like wall member having its lower edge seated on the bottom wall about the curved edges thereof, a partition secured to the inner face of said wall member and provid-

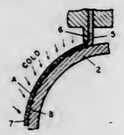
ing a closed compartment for conductors, a vertical wall included in the partition, sockets secured to said vertical wall, shielded lamp bulbs mounted in the sockets and disposed in overlying relation to the bottom wall and in parallelism therewith, and switch means in circuit with the sockets.

2,349,510
ELECTRODE HOLDER
Carl Mathews and Charles Chinzi, Jackson, Mich.
Application September 2, 1943, Serial No. 500,966
1 Claim. (Cl. 219—8)



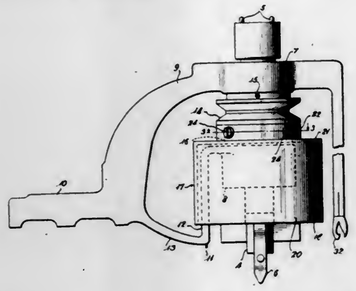
In an electrode holder, an outer sleeve having openings arranged oppositely to each other and adjacent one end of said sleeve to receive an electrode, said end of the sleeve being enlarged and provided with a curved wall to engage the electrode between said openings, a handle secured to the sleeve, a spring pressed inner sleeve slidable in the outer sleeve and including a solid forked head at one end operating in the enlarged end of the outer sleeve to engage and force the electrode against the curved wall of the enlarged end of the outer sleeve between said openings, manually operated means carried by the handle and connected to the inner sleeve for retracting the head from the electrode, a cooling jacket mounted on and surrounding a portion of the outer sleeve and the enlarged end thereof, said jacket having opposite walls flattened against the enlarged end of the outer sleeve and provided with openings matching the first-named openings to permit the electrode to extend therethrough, and inlet and outlet cooling fluid conduits connected to the jacket with the discharge end of the inlet conduit located adjacent the enlarged end of the outer sleeve and the flattened walls of the jacket to cause cooling fluid to pass in contact with the curved wall of the enlarged end of said outer sleeve.

2,349,511
METHOD OF MAKING CAPSULES
Louis P. Miller, Cleveland Heights, Ohio, assignor to American Home Products Corporation, Jersey City, N. J., a corporation of Delaware
Application January 28, 1941, Serial No. 376,311
2 Claims. (Cl. 18—57)



1. In the method of making gelatin capsules the steps which comprise, heating gelatin to a temperature range of about 140° F. to about 160° F., to reduce it to molten form, flowing such molten gelatin onto a sheet forming surface maintained at 90° F., simultaneously cooling the exposed side of the sheet to a temperature of from about 45° F. to about 65° F. while subjecting the surface contacting side of the sheet to a temperature of about 90° F.

2,349,512
TWISTER TUBE ASSEMBLY FOR SPINNING MACHINES
Michael D. Moraros, Nashua, N. H.
Application October 2, 1943, Serial No. 504,769
2 Claims. (Cl. 57—128)



1. In a twister tube assembly for spinning machines, a twister tube, spaced upper and lower bearings rotatably supporting said tube, a pulley on said tube between said upper and lower bearings, a depending flange on said pulley, a bell-shaped bearing protector sleeve secured to said flange and extending downwardly over said lower bearing, said sleeve comprising a plurality of arcuate sections independently secured to said flange.

2,349,513
METHOD OF MAKING LOCK NUTS
Benjamin H. Mortus, Shaker Heights, Ohio, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 9, 1943, Serial No. 471,832
1 Claim. (Cl. 10—86)

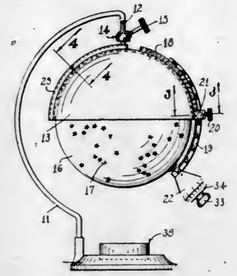


The process of making a lock nut which comprises drilling, facing and reducing the end of a blank externally at one end, slotting the reduced end of the blank, tapping the blank for its full length so as to produce a blank having a thread with a uniform pitch from one end of the blank to the other, forcing the slotted sections of the blank inwardly until they engage each other for a substantial part of their length, and retapping the blank at the reduced end with an undersize tap.

2,349,514
PROCESS FOR DEODORIZING AND DECOLORIZING LEVULINIC ACID
Wendell W. Moyer, Decatur, Ill., assignor to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware
No Drawing. Application July 20, 1942, Serial No. 451,656
12 Claims. (Cl. 260—526)

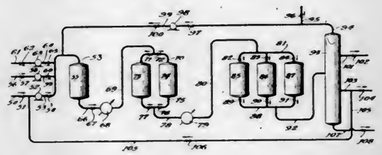
1. A process of deodorizing and decolorizing a technical grade of levulinic acid, which comprises subjecting said acid to reaction with a deodorizing quantity of sodium chlorite and a decolorizing quantity of hydrogen peroxide, and continuing said reaction until all undesirable odor and color has been removed.

2,349,515
ASTRONOMICAL EDUCATIONAL DEVICE
Edward E. Oberst, New Haven, Conn.
Application August 14, 1942, Serial No. 454,822
13 Claims. (Cl. 35—47)



1. An educational appliance comprising a transparent sphere, a hollow non-transparent substantially hemispherical hood embracing and closely fitting the upper portion of said sphere, means for supporting said hood and attaching the sphere thereto, means for rotating said sphere relatively to the hood about two axes one of which is transverse with respect to the other, and elements on said sphere to denote the heavenly bodies, the inner and outer surfaces of said elements being of contrasting colors and the color of the outer surface being substantially the same as that of the interior of the hood.

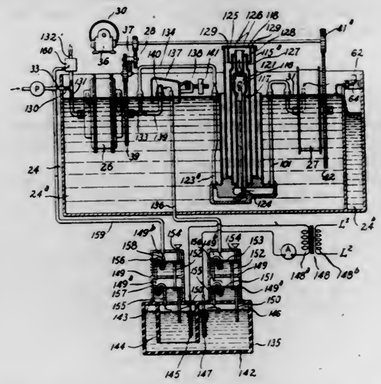
2,349,516
TREATMENT OF PARAFFINS
Herman Pines and Herman S. Bloch, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 31, 1941, Serial No. 396,172
11 Claims. (Cl. 260—683.5)



9. A process for isomerizing paraffins which comprises passing the same in series through a plurality of solid masses comprising an isomerizing catalyst, and maintaining said masses at successively lower isomerizing temperatures in the direction of flow of the paraffins therethrough, said masses being of increasing volume in the direction of decreasing temperatures, whereby to provide a longer contact time in the last than in the first mass of the series.

2,349,517
CALORIMETRY OF LOW QUALITY COMBUSTIBLE GASES
Clarence S. Pinkerton, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 10, 1941, Serial No. 387,876
10 Claims. (Cl. 73—190)

1. In the art of calorimetry of low quality combustible gases, the method which consists in effecting a continuous volumetrically constant flow of the low quality combustible gas, effecting continuous volumetrically proportional flows of air and substantially pure oxygen, effecting combustion of said flow of gas in the presence of said flows of air and oxygen, directly ascertaining the value of the temperature of the products of such combustion, utilizing said ascertained

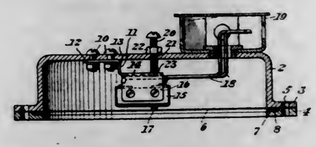


value as a measure of the total heating value per unit volume of said gas, the quantity of oxygen thus supplied being in excess of that required to effect complete combustion of said gas, and the quantity of inert gases in said air being insufficient to cause accidental extinguishment of the combustion flame.

2,349,518
PURIFICATION OF PHTHALIC ANHYDRIDE
Frank Porter, Syracuse, N. Y., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application January 18, 1941, Serial No. 375,020
8 Claims. (Cl. 260—342.5)

1. In a process of purifying phthalic anhydride obtained by the vapor phase oxidation of organic substances and containing impurities which are not sulfur compounds, the step which comprises introducing an aqueous solution of nitric acid into the said phthalic anhydride in molten state so as to vaporize the nitric acid and contacting thus formed vapors of nitric acid with the molten phthalic anhydride until substantial amounts of said impurities are converted into reaction products separable from the phthalic anhydride by distillation.

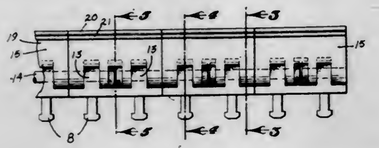
2,349,519
CONTROL DEVICE
Wilfred Ralph Reichenstein, Marion, Ohio, assignor to The Fairfield Engineering Company, Marion, Ohio, a corporation of Ohio
Application February 1, 1941, Serial No. 377,069
3 Claims. (Cl. 200—52)



1. A control device comprising a casing, a diaphragm closing a face of the casing, a switch

operable by the diaphragm, an adjustable mounting for the switch carried by the casing and means disposed substantially in the same line normal to the diaphragm as the switch operating portion of the diaphragm acting between the casing and the mounting for moving the mounting to desired adjusted positions whereby to adjustably position the switch relatively to the diaphragm.

2,349,520
STRETCHING MACHINE JAW
Mose D. Ripley, Hawthorne, Calif., assignor to North American Aviation, Inc., Inglewood, Calif., a corporation of Delaware
Application August 7, 1942, Serial No. 453,921
1 Claim. (Cl. 24—248)

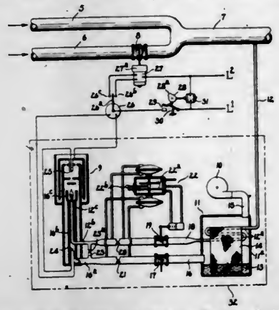


Sheet anchoring means for a sheet stretching machine, comprising a stationarily mounted body member and a jaw member swingably mounted on said body member, and having sheet gripping means, said members having interlapping journal portions, a shaft journaled through said portions and forming the axis of swinging movement of said jaw member, one of the journal portions of the jaw member having a cavity, oppositely disposed cup-shaped friction elements surrounding the shaft within said cavity and having their outer surfaces frictionally engageable with the side walls of the cavity and their peripheral portions provided with notches adapted to aline parallel to the axis of the shaft, a spring around the shaft in compression between and within said cup-shaped elements, and held thereby against displacement in a direction normal to the axis of the shaft, and a spline fixed on the body member opposite to, and entering, said cavity, and similarly projecting into the peripheral notches of the friction elements to thus lock the latter against rotation and preserve the spring against torsional disturbance during swinging movements of the jaw member.

2,349,521
METHOD OF AND APPARATUS FOR CONTROLLING THE MIXING OF COMBUSTIBLE GASES
Edwin X. Schmidt, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application September 28, 1940, Serial No. 358,818
19 Claims. (Cl. 137—78)

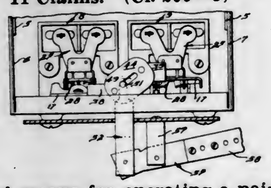
1. In measuring the combustion characteristics of a gas, the method which comprises, effecting a flow of air and a sample flow of the gas to be tested, effecting equalization of the temperatures of said air and gas, effecting creation of pressure drops in the air flow and in the gas flow at points in said flows where the temperatures thereof are equal, effecting proportioning of said pressure drops by adjusting the relative rates of said flows of air and gas, effecting combustion of the sample flow of gas, effecting transfer of the heat of combustion to said flow of air, and effecting measurement of the temperature rise of said flow of air as an indication of the potential heat flow factor.

13. In gas mixing, the method which comprises, effecting a flow of air and a sample flow of the gaseous mixture, effecting equalization of the temperatures of said flows of air and gaseous mixture, effecting creation of pressure drops in the air flow and in the gaseous mixture flow at points in said flows where the temperatures thereof are equal, effecting proportioning of said pressure drops by adjusting the relative rates of said flows of the air and the gaseous mixture,



effecting combustion of said flow of the gaseous mixture, effecting transfer of the heat of combustion to said flow of air, ascertaining the value of the temperature rise of said flow of air, utilizing said ascertained value as a measure of the potential heat flow factor of said gaseous mixture, and varying the volumetric proportionality of the constituents of said gaseous mixture in a manner to maintain said potential heat flow factor thereof substantially constant.

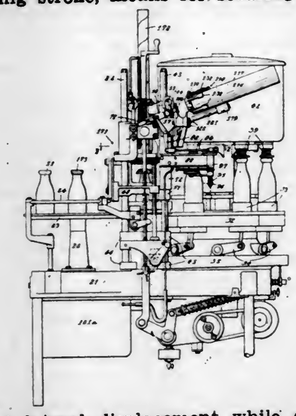
2,349,522
ALTERNATING ELECTRIC SWITCH
Donald W. Scofield, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application April 6, 1942, Serial No. 437,815
11 Claims. (Cl. 200—5)



1. Control means for operating a pair of electric motors, and including a pair of electric switches, each of said electric switches controlling the operation of one of said motors and each comprising relatively movable contacts and an operating lever for effective relative movement of said contacts, mechanism for operating said electric switches alternately and in sequence, opening one before the other is closed, said mechanism comprising a rotatable actuating member supported by said pair of operating levers, and means for rotating said actuating member in opposite directions to effect the alternate operation of said pair of operating levers.

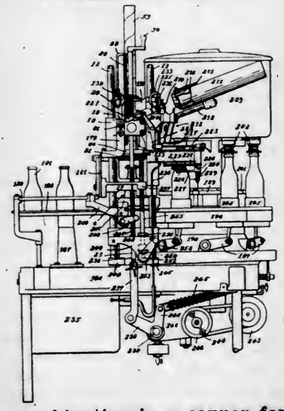
2,349,523
BOTTLE CAP APPLYING DEVICE
Rudolph Sonnenberg, Belvidere, Ill., assignor to Mid-West Bottle Cap Co., Belvidere, Ill., a corporation of Illinois
Application July 15, 1941, Serial No. 402,517
25 Claims. (Cl. 226—88.1)

1. The combination in a bottle capper of means for moving a bottle through a succession of positions into a bottle capping station, a hood magazine for holding a stack of hoods, driving means disposed in the path of said bottle during movement thereof to be moved thereby through an operating stroke, means for securing the bottle



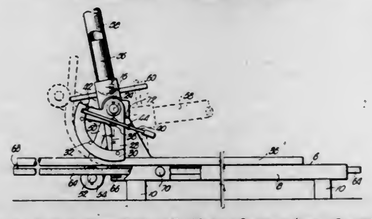
against lateral displacement while engaged by said driving means, and a suction cup movable by the last mentioned means toward and away from said magazine to remove the end cap of said stack from said magazine for application to said bottle.

2,349,524
BOTTLE CAPPER
Rudolph Sonnenberg, Belvidere, Ill., assignor to Mid-West Bottle Cap Co., Belvidere, Ill., a corporation of Illinois
Application July 15, 1941, Serial No. 402,518
16 Claims. (Cl. 226—85)



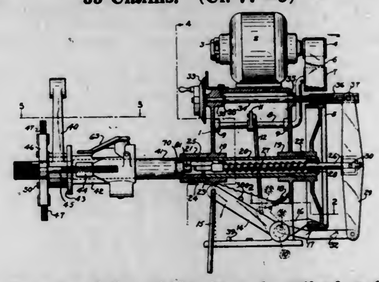
1. The combination in a capper for seating a cap on a milk bottle having a skirted hood loosely carried over the mouth of the bottle in alignment therewith of skirt contracting means, a plunger for forcing a disk positioned therebeneath into the mouth of the bottle, supporting means for carrying said skirt contracting means and said plunger, means for imparting relative approach movement between said bottle and said support to bring said skirt contracting means into operative relation with said bottle, a lost motion connection between said skirt contracting means and said plunger for forcing the disk into the bottle upon further approach movement, a second lost motion connection between said plunger and said supporting means for further approach movement between said bottle and said support, and means responsive to the last mentioned approach movement for actuating said skirt contracting means to contract the skirt of the hood about the head of the bottle.

2,349,525
TUBE BENDER
John N. St. Clair, Kansas City, Mo.
Application March 4, 1942, Serial No. 433,308
3 Claims. (Cl. 153—45)



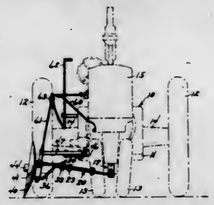
1. A tube bender of the character described, a base; a bearing bracket on the base; a forming anvil carried by said bracket having an arcuate face; a lever pivotally mounted on the bracket having a forming member arranged to travel in a path complementary to said arcuate face when the lever is moved about its pivot to draw a tube against the arcuate face of said anvil; a stop adjustably fixed on the lever for limiting the turning movement thereof to predetermine the degree of bend of the pipe; and a measuring bar slidably carried by the base, said bar having a lateral projection for abutting engagement with an end of a straight tube when the same is positioned between the forming member and said anvil.

2,349,526
BORING MACHINE
Joseph Sunnen, Clayton, Mo.
Application February 3, 1940, Serial No. 317,074
35 Claims. (Cl. 77—3)



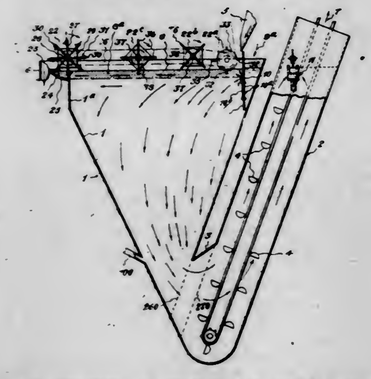
1. In a machine of the type described, a frame including a bearing, a spindle rotatably mounted in said bearing, a source of power, a drive between said spindle and source of power, a control for said drive, a cutting tool carried by and rotatable with said spindle, means for adjusting said tool to exact cutting position, automatic means for moving said cutting tool into or out of cutting position without interfering with the adjustment of the cutting position, said automatic means being constructed and arranged to move said cutting tool into cutting position upon actuation of said power control and to withdraw said tool from cutting position when the operation of the spindle is stopped.

2,349,527
TRACTOR GUIDE
Clarence C. Toelle, Nashua, Minn.
Application December 1, 1941, Serial No. 421,208
1 Claim. (Cl. 97—49)



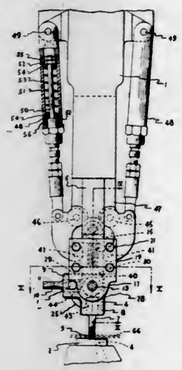
In guide apparatus for a tractor, a steering arm secured to and projecting forwardly of the front wheel turning mount of the tractor, a link bar extending transversely of the tractor having its inner end pivotally connected to said arm, a brace attached to the outer portion of the link bar and disposed to provide a pair of spaced parallel apertured bearings in conjunction with the link bar, a tubular member mounted between and having its bore in alignment with the bearing openings of said spaced bearings, an axle spindle extending outwardly from the tubular member, a tie bar mounted at one side of the tractor having its rear end connected therewith, a downwardly directed pivot spindle formed at the front end of said tie bar, said pivot spindle being extended through the openings in the bearings and the bore of the tubular member therebetween to pivotally connect the axle spindle with the link bar, a furrow engaging disk rotatably mounted on the axle spindle, an arm fixed to and extending transversely from the tubular member, a bar connecting the outer end of said last mentioned arm to the link bar to restrain turning of the tubular member about the pivot spindle, and means connected to the forward end of the tie bar and operative from a position rearwardly thereof for raising and lowering the disk.

2,349,528
SEPARATION OF SOLID MATERIALS OF DIFFERENT SPECIFIC GRAVITIES
Fredrick Trostler, London, and Thomas Andrews, Barking, England
Application December 26, 1940, Serial No. 371,839
In Great Britain November 7, 1940
19 Claims. (Cl. 209—173)



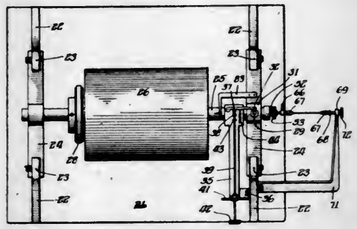
1. The process of separating solid materials of different specific gravities according to the sink-and-float method, which comprises, continuously admitting medium to a body of substantially stable separating medium comprising a suspension of comminuted solids in a liquid, which fills a separating vessel, at one end thereof at a level situated a distance of the order of 2 to 6 inches below the surface thereof, continuously feeding material to be separated to the top region of said body, above the level of medium admission, continuously removing medium from the top of said body at the end thereof opposite to the point of medium admission and from the bottom thereof, to produce a current proceeding upwardly and across the body from the point of admission, and a downwardly extending current from the level of admission, regulating the rates of such medium removal to give the downward current a minimum velocity of the order of one millimetre per second, and to give the upwardly inclined current a gentle flow of the order of 15 to 25 mm. per second, the vertical component of which is substantially nil adjacent to the end at which the upper removal of medium takes place, and removing "sink" particles from the bottom, and "float" particles from the top of said body.

2,349,529
DUPLEX RIVETING MACHINE
Loyd A. Ward, Jackson, Mich., assignor to Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application December 30, 1940, Serial No. 372,250
5 Claims. (Cl. 78—48)



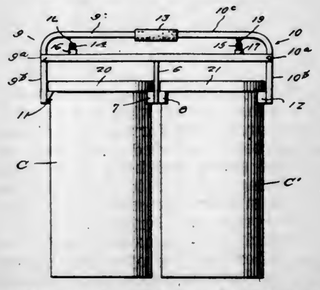
1. In a machine of the character described, a frame, an anvil for supporting a rivet, mounted in said frame, a reciprocable ram mounted in said frame, a female die for cooperating with the rivet, a set for heading the rivet, means holding said die and set in angular relation to each other, a pivotal connection between said ram and said holder whereby said holder may be swung alternately from one position to another, die and set indexing means operatively connected to said holder and movable therewith for swinging said holder, an abutment supported with respect to said frame on each side of said ram, said indexing means in one position having a portion in the path of which one of said abutments is disposed and its other position having a portion in the path of which the other of said abutments is disposed, whereby as said ram reciprocates, alternately one of said indexing means portions moves into engagement with one of said abutments to swing the indexing means and with it the holder in one direction, and the other of said indexing means portions moves into engagement with the other abutment to swing said indexing means and with it said holder in the opposite direction to alternately present said die and set to the rivet.

2,349,530
BALANCING-MACHINE INDICATOR
Ira A. Weaver and Clyde H. Phelps, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application April 22, 1942, Serial No. 440,032
2 Claims. (Cl. 73—53)



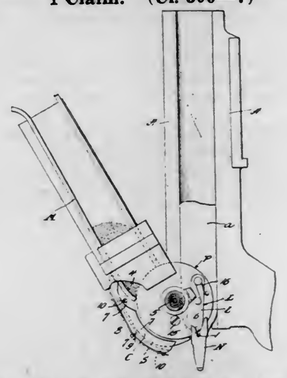
1. In an indicating-system for use with a balance-testing machine in which the body undergoing balance-examination is rotated about its axis and is mounted with freedom for transverse vibration in at least one plane, the novel combination of a first electric-switch actuated by the vibration of said rotating vibrating body, a second electric-switch actuated by the rotation of said rotating vibrating body, means to cause said first switch to close at one of the center-points of vibration-amplitude of said body, remain closed for 180° and then open at the other center-point of vibration-amplitude of said body, means to cause said second switch to remain closed 180° of the rotation of said body, means to adjust said 180° closure period of said second switch around the axis of said body, and electric-circuit and indicating means to show when the 180° closure periods of said two switches are exactly opposed to one another and unitedly constitute the 360° of rotation.

2,349,531
CAN LIFTING AND CARRYING DEVICE
Robert M. Weir, Salem, Oreg.
Application December 17, 1943, Serial No. 514,697
4 Claims. (Cl. 294—87)



1. A device for simultaneously lifting and carrying two cans, comprising an elongated rigid supporting bar, an arm rigid with and depending from the intermediate portion of said supporting bar, oppositely and outwardly facing arcuate can-engaging jaws carried by the lower end of said arm, bell crank levers having arms pivoted to opposite ends of the supporting bar and depending below the latter, further oppositely and inwardly facing arcuate can-engaging jaws on the lower ends of said arms, said levers having other arms extending inwardly toward each other above the supporting bar, and a flexible connection between the inner ends of said last-named arms.

2,349,532
TUFT-MAKING DEVICE FOR AUTOMATIC BRUSHMAKING MACHINES
William T. West, Severna Park, Md., assignor to Fisher Brush Machinery Corporation, Baltimore, Md., a corporation of Maryland
Application November 13, 1942, Serial No. 465,492
1 Claim. (Cl. 300—7)



In wisp gathering mechanism for automatic brush machines, the combination with a magazine for containing fibres, bristles or other tuft-making material of a nozzle spaced from the magazine, said nozzle having two slots arranged at an angle to one another, a picker disc rotatively mounted between the magazine and the nozzle and having its marginal portion extending into the magazine and into one of said slots, said disc having a slot in its marginal portion for gathering wisps in the magazine and carrying them through a partial revolution to the nozzle, a lever carried by the disc and means for causing said lever to eject the wisps into the nozzle, said lever comprising blades pivotally mounted on the disc, on opposite sides thereof and connected to move as a unit, a spring normally holding the free end of said lever adjacent the inner end of the slot in said disc, and means for causing said lever to swing outwardly and eject each wisp from the slot in the disc into the nozzle when the slot in the disc reaches the slot in the nozzle.

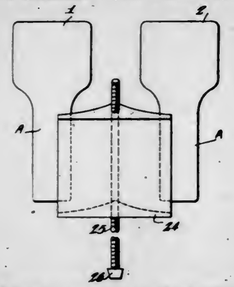
2,349,533
GLOVE
George H. Wheadon, Johnstown, N. Y.
Application July 28, 1939, Serial No. 287,023
4 Claims. (Cl. 2—159)



1. In a glove, a palm portion and a back portion, a two piece thumb comprising a palm por-

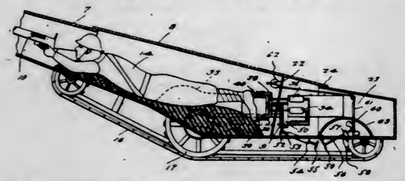
tion and a back portion, the palm portion of said thumb extending forwardly further than said back portion thereof in their unstitched condition, the palm portion of said thumb being turned rearwardly at its end and stitched to the end of said back portion of said thumb, the palm portion of said glove being provided with a slit adjacent said thumb, a first insert disposed between said palm portion and said back portion of said thumb and seamed to the edges thereof and also provided with a quirk shaped member attached at its edges to the edges of the material defining said slit, and also provided with a second insert attached to the opposite side of said thumb from said first insert and provided with a laterally extending projection located adjacent to the crotch formed between the palm of said thumb and the palm of said glove, both of said inserts serving as fourchettes for the upper portion of the thumb.

2,349,534
ELECTRON DISCHARGE DEVICE CIRCUITS
John E. Young, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1941, Serial No. 424,878
3 Claims. (Cl. 315—38)



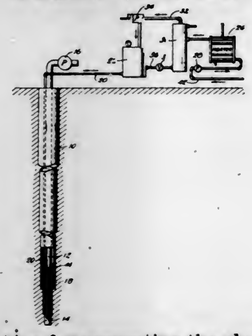
1. In combination, a pair of electron discharge devices having their anodes mounted in vertically arranged cylindrical metallic sockets, a tuned circuit connected to said anodes, a tuning element capacitively coupled to both sockets, and control means for moving said tuning element vertically to bring more or less surface adjacent said sockets, said tuning element having arcuate grooves adjacent and enclosing at least a portion of said cylindrical metallic sockets, said control means comprising a lead screw threadedly engaging said tuning element.

2.349,535
ONE-MAN ARMORED TANK
Joseph J. Baldine, Hubbard, Ohio
Application July 27, 1942, Serial No. 452,559
5 Claims. (Cl. 180—9.2)



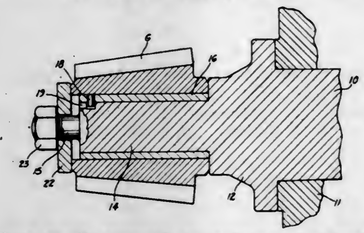
1. An armored tank comprising a body, drive means including an endless flexible track at each side of the body, a power drive wheel for each track, a power plant in the rear end of the body, a brake mechanism for each drive wheel, a heel control pedal for the brake mechanism of one drive wheel, and a toe control pedal for the brake mechanism of the other drive wheel, both of said pedals being arranged for actuation by one foot of the person, and a common pivot member for both of said pedals.

2,349,536
APPARATUS FOR PREVENTING CLOGGING OF OIL WELLS
Charles C. Bancroft, Reno, Nev.
Application November 7, 1941, Serial No. 418,180
2 Claims. (Cl. 166—17)



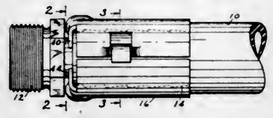
1. Apparatus for preventing the clogging of oil wells having pump tubing therein which comprises a coil of pipe coiled around the lower end of the tubing in contact therewith within the well, an elongated pipe for conducting heated liquid through the well into said coil to heat the tubing, and conduit means to conduct liquid from the coil into said tubing.

2,349,537
WORK SUPPORT
Leonard O. Carlsen, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application August 11, 1942, Serial No. 454,406
3 Claims. (Cl. 90—59)



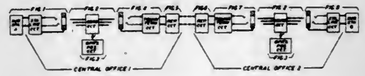
1. In a work support, an arbor and a bushing, said arbor being formed with a seat and with a stem portion projecting forwardly from said seat, said bushing being adapted to fit over the stem portion of the arbor and both said bushing and said arbor being adapted to enter the bore of a work-piece to support the same, one of said parts having a bayonet slot formed therein, the leg portion of which extends axially of the stem portion of the arbor and the open end of which lies at the front end of the arbor, the stem portion of the other of said parts having a pin secured thereto which is adapted to enter said slot to couple the bushing to the arbor, and means for holding a work-piece against the arbor seat after the work-piece has been positioned on the bushing.

2,349,538
HOSE CLAMP
Albert P. Craig, Morgan Hill, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application December 28, 1942, Serial No. 470,395
3 Claims. (Cl. 285—77)



1. In a clamp including a pair of cooperable members each having a substantially rigid but deformable metallic body of generally semi-cylindrical shape for embracing opposite sides of a hose to clamp the same to a fitting, the combination of: a locking tongue projecting beyond an edge portion of said body, an aperture formed within the opposite edge portions of the body for receiving the tongue of the other member, and an inwardly projecting lug on that side of the aperture removed from said opposite edge portion of said body for guiding the tongue of the other member into said aperture and for preventing expansion of the hose into said aperture.

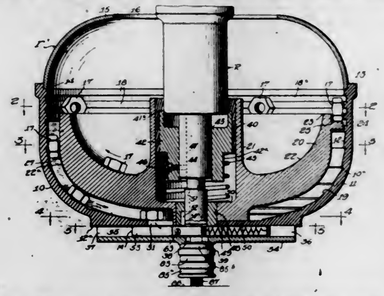
2,349,539
TELETYPEWRITER SWITCHING SYSTEM
Carl A. Dahlbom, Brooklyn, Fullerton S. Kinkead, New York, and George A. Locke, Glenwood Landing, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 26, 1941, Serial No. 424,436
29 Claims. (Cl. 178—2)



1. In a manual teletypewriter switching system, a first and a second manual central teletypewriter switching station, a first local teletypewriter station connected directly to said first central station, a second local teletypewriter station connected directly to said second central station, an automatic manual intertoll telegraph trunk circuit connecting said central stations, a manual teletypewriter cord circuit at each of said central stations, an operator's position circuit including a teletypewriter transmitter and receiver operably connectable directly to said cord circuit at each of said stations, means in said circuits for establishing a continuous operable telegraph path interconnecting said local stations through all of said circuits, supervisory signal means connected to said path at said central stations, a vacuum tube control means for said signals at each of said central stations and means responsive to electrical conditions imposed on said path for controlling said control means.

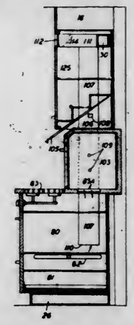
2,349,540
AUTOMATIC FEEDER
Charles H. Dolan, II, Kansas City, Mo.
Application June 28, 1943, Serial No. 492,628
7 Claims. (Cl. 10—170)

1. A feeder for nuts and the like comprising a housing, a hopper for the nuts within the housing, said hopper having a raceway and a chute leading from said raceway, means for rotating said housing and hopper as a unit to feed the nuts by centrifugal force from the hopper to the raceway and by gravity down the chute, means



at the exit portion of the chute releasing the nuts intermittently but singly, and means passing axially through the hopper for feeding the released nuts into position for attachment.

2,349,541
CABINET STRUCTURE
Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.
Application May 23, 1940, Serial No. 336,698
2 Claims. (Cl. 312—1)

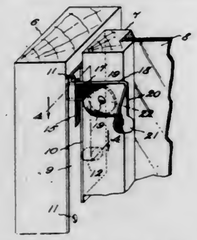


1. In combination, a cabinet member adapted to be positioned above a stove, a door for said cabinet member, a grill member in said door, means for collecting odors from said stove, a vertical flue connected to said means, and a small horizontal flue member connected to said vertical flue and adapted to be covered by and connected to said grill member when said door is closed, said odor collecting means, said horizontal flue and a large portion, at least, of said vertical flue being positioned within said cabinet member.

2,349,542
RECOVERY OF GLUE FROM CHROME-TANNED LEATHER
Zoltan Erdeley, Brantford, Ontario, Canada, assignor to Gypsum Lime and Alabastine, Canada, Limited, Toronto, Ontario, Canada
No Drawing. Application August 3, 1942, Serial No. 453,467. In Canada July 18, 1942
4 Claims. (Cl. 260—118)

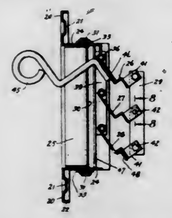
1. In the treatment of chrome tanned leather for the production of glue and gelatine, the method which comprises treating the chrome tanned leather with an aqueous lime suspension containing a soluble calcium salt to depress the solubility of the line.

2,349,543
COMBINATION HUNG AND HINGED WINDOW
Charles Escher and John J. Fagan, Jersey City, N. J.
Application December 13, 1941, Serial No. 422,832
1 Claim. (Cl. 292—202)



Locking means for a combination hung and hinged window of the type wherein a glazed pivoted sash is mounted on horizontal pivots within a sliding sash; comprising a pivoted locking latch mounted on the inner face of a side stile of the pivoted sash in cooperative relation to a locking opening carried by the sliding sash, said latch having a nose to be moved into and out of said opening as the latch is pivotably moved when the pivoted sash is in closed position, and an operating finger piece on the locking latch positioned to engage with the glazed edge of said side stile of the pivoted sash when the latch is in both locking and unlocking positions.

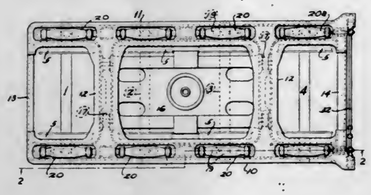
2,349,544
LOUVERED REGISTER
Harry W. Fiedler, Scarsdale, N. Y.
Application October 13, 1942, Serial No. 461,854
2 Claims. (Cl. 98—110)



1. In a register, a plurality of louver blades, a supporting wall arranged in a plane perpendicular to said blades and provided with spaced openings, means extending through said openings for pivotally securing one set of blade ends to said wall, and a strip of non-corrodible material arranged on said wall and provided with a set of openings aligned with said first-named openings, said strip serving as a common washer for all of said pivotal connections.

2,349,545
RAILWAY VEHICLE
Thomas R. Gilchrist, Yeadon, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application January 5, 1942, Serial No. 425,639
13 Claims. (Cl. 105—194)

1. In a railway vehicle, a wheeled axle, a frame, frame-supporting spring structures carried on said axle at opposite sides of said frame, an equalizing lever at each side of the vehicle and pivoted intermediate its ends to said frame, a connection between the end of each lever nearest the axle and the adjacent spring structure, a bell crank at each side of the vehicle and pivoted to the frame to rock in a plane extending transversely of the frame and having a lateral arm and a substantially vertical arm, the other end of each lever being connected to the swinging end of the lateral arm of the adjacent bell

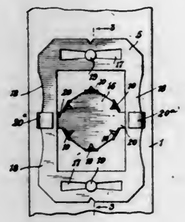


crank, and a member connecting the swinging ends of the substantially vertical arms of said bell cranks to each other, whereby the action of the spring structures at opposite sides of the vehicle is cross equalized, the ends of each equalizing lever being supported by their respective connections to the adjacent spring structure and bell crank at points above the level of the intermediate pivotal support of the frame by the lever.

2,349,546
VEGETABLE OIL
Wells W. Ginn, Cincinnati, Ohio, assignor, by mesne assignments, to Vejin, Inc., a corporation of Ohio
No Drawing. Application October 17, 1941, Serial No. 415,489
4 Claims. (Cl. 106—250)

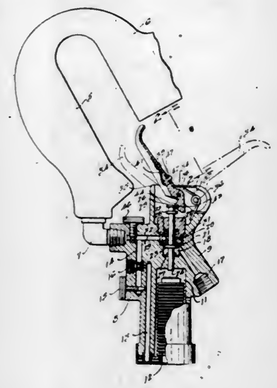
1. The process which comprises cooking an oil comprised predominantly of sardine oil in the presence of approximately ⅛ of 1% to 2½% of castor oil.

2,349,547
FASTENING DEVICE
Emanuel Gisondi, Larchmont, N. Y.
Original application July 24, 1941, Serial No. 403,871. Divided and this application May 20, 1943, Serial No. 487,706
6 Claims. (Cl. 72—118)



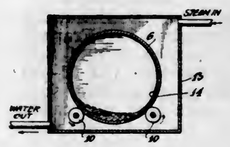
1. A fastener for wall board comprising a retaining member secured to a beam by means permitting bodily shifting movement of said member relative to the beam, a fastener comprising a sheet metal pronged element slidably engaging said retaining member and mounted for shifting movement relative thereto, the prongs on said fastening member adapted for penetrable engagement with wall board.

2,349,548
PNEUMATIC TIMING DEVICE
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application April 15, 1942, Serial No. 439,115
12 Claims. (Cl. 137—139)



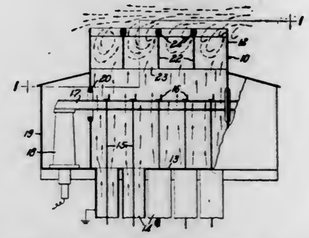
1. An air operated timing device having a control valve, timing mechanism for moving said valve to closed position at the end of a time cycle, a trigger for operating said valve to open position to provide a flow of fluid to operate said timing mechanism, means interconnecting the trigger and valve which when the trigger is moved to fully operated position releases the valve to permit it to operate at the end of the time cycle and which engages and closes the valve independent of the time mechanism when the trigger is moved from fully operated position to its initial position, and a spring for returning the trigger to its initial position which may occur to close the valve before the end of the time cycle.

2,349,549
METHOD OF MAKING DEPOLYMERIZED RUBBER ARTICLES
Herbert V. Hardman, Belleville, and Kenneth V. Hardman, Clifton, N. J.
Application April 24, 1941, Serial No. 390,052
7 Claims. (Cl. 18—58)



1. The method of making an article which comprises providing a mold of suitable shape having a plurality of molding surfaces that are contiguous and that lie in different planes, applying a continuous layer of a vulcanizable depolymerized rubber compound that is substantially free from volatile solvent in separate applications over the several surfaces so that the various applications contact each other at their edge portions, incompletely vulcanizing to non-flowable consistency the compound applied to each of the said surfaces before the next application is made, then completing at the same time the vulcanizing of the compound applied over all of the said surface, so that the several applications of the compound become integral.

2,349,550
ELECTRICAL PRECIPITATOR
Carl W. J. Hedberg, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application October 19, 1942, Serial No. 462,605
5 Claims. (Cl. 183—7)



1. In an electrical precipitator, an outlet header extending in the direction of the flow of gases from the precipitating zone of the precipitator and fully open to the atmosphere in said direction of flow, and a plurality of partition members within said header extending parallel to the direction of gas flow therein, terminating at the top of said header, subdividing the cross-sectional area of said header into a plurality of flues each having its greatest dimension normal to the direction of gas flow substantially smaller than the depth of said header and extending parallel to the direction of gas flow a distance at least as great as its greatest dimension normal to the direction of gas flow.

2,349,551
SMOKER'S DRAFT TUBE
Emerson B. Helm, Cleveland, Ohio
Application October 29, 1943, Serial No. 508,143
3 Claims. (Cl. 131—8)

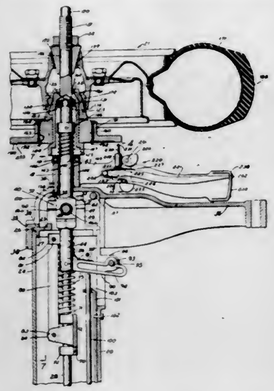


1. The method of forming a combustible cellulose tube within the body of a tobacco charge which consists in dipping a piercing tool in a cellulose solution, then inserting the coated tool into the tobacco charge thereby coating the adjacent wall of the charge and then withdrawing said tool.

2,349,552
WHEEL BALANCER
Herbert G. Holmes, Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application February 19, 1941, Serial No. 379,580
24 Claims. (Cl. 73—53)

1. A wheel balancer comprising, a frame, a support mounted in said frame for movement from a vertical to a horizontal position, a spindle adapted to have a wheel mounted thereon, means for mounting said spindle on said support for rotation and tilting with respect thereto, and

means automatically operable upon movement of said support to the horizontal position to pre-



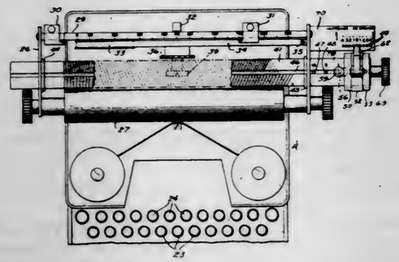
vent said spindle from tilting on said support and to confine said spindle to rotation on a horizontal axis.

2,349,553
MECHANICAL PENCIL
David Juelss, Brooklyn, N. Y., assignor to American Lead Pencil Company, Hoboken, N. J., a corporation of New York
Application October 30, 1943, Serial No. 508,325
15 Claims. (Cl. 120—17)



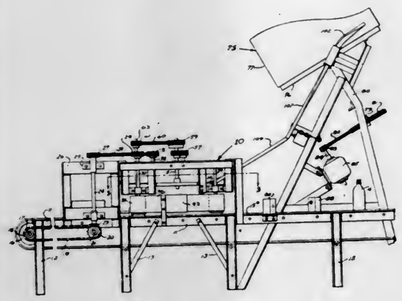
15. In a mechanical pencil, a casing, a sleeve reciprocable in the casing, a lead magazine supported in the sleeve, a collet having resiliently biased lead gripping means at opposite ends thereof and means on the casing and sleeve adapted when engaging the lead gripping means to hold them in gripping position.

2,349,554
TYPEWRITER AND THE LIKE
Seyed Khalil, New York, N. Y.
Application May 26, 1942, Serial No. 444,531
19 Claims. (Cl. 197—84)



2. In a typewriter, a frame, a carriage movable in intervals along said frame as the typing progresses, an escapement, a rack and a pinion, at least one of which constitutes a member having teeth therein inclined with respect to one another with equal angles between adjacent teeth whereby the pitch on any pitch line is different from the pitch along any other pitch line, said rack and pinion being between said carriage and said escapement, and settable means controlling said member for changing the magnitude of said intervals.

2,349,555
CAPPING APPARATUS
Jason J. Kittess, Los Angeles, Calif.
Application April 17, 1942, Serial No. 439,374
3 Claims. (Cl. 226—88)



1. In a bottle capping apparatus, bottle conveying means, means to support a bottle on said conveying means, a bottle cap delivery chute including a discharge portion having means thereon for supporting a cap in the path of the neck of a bottle on said conveyor whereby the bottle removes the cap from the supporting means and an elongated, vertically movable means in the path of a cap beyond the cap supporting means for holding a cap on the bottle, and a plurality of leaf springs at one side of the conveying means and having free ends in the path of a cap to spin the caps as they advance.

2,349,556
METHOD OF TREATING MAGNESIUM MINERALS
William R. Kleckner, Oakland, Calif., assignor to J. A. McCarthy, San Francisco, Calif.
Application December 9, 1941, Serial No. 422,259
4 Claims. (Cl. 23—91)

4. A method of recovering values from magnesian ores containing appreciable amounts of minerals from the group consisting of bronzite, hypersthene, bastite, grunerite, cummingtonite, olivene, serpentine, meerschaum, steatite, enstatite and forsterite, which comprises: subjecting the magnesian ore, while in a state of fine division and in motion, to the action of a reducing burner blast to calcine the ore to a temperature of between about 1200° C. and 1500° C.; subjecting the calcined ore to magnetic separation to remove a major proportion of the iron content therefrom, and then subjecting the calcined ore from which the magnetically separable fraction had been removed, to leaching with an acidulated aqueous medium to extract magnesium therefrom.

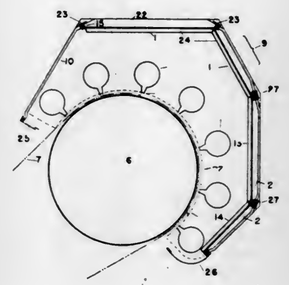
2,349,557
STABILIZED DIAZO DICYANDIAMIDE COMPOUND
Paul P. McClellan, Old Greenwich, and Walter P. Ericks, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 27, 1942, Serial No. 456,410
5 Claims. (Cl. 260—140)

1. A stabilized diazo compound having the general formula:

$$R_1\text{—}N\text{—}CN$$
$$\quad\quad\quad |$$
$$\quad\quad C\text{=}NH$$
$$R_2\text{—}N\text{—}N\text{=}N\text{—}R$$

in which R is the nucleus of an ice color diazo component of the benzene series and R_2 is selected from the group consisting of a lower alkylol and alkoxyalkylol group.

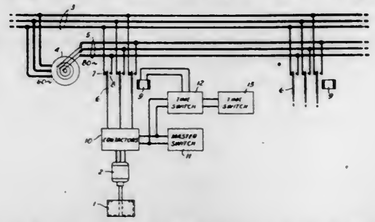
2,349,558
DRYING HOOD
Bernard Offen, Chicago, Ill.
Application November 28, 1942, Serial No. 467,197
7 Claims. (Cl. 34—122)



1. A drying hood including a frame, said frame having a series of contiguous sections, a T member between pairs of adjacent sections, means for supporting said T members slides accommodated on said members, slide panels fitted within said slides each section being substantially the width of the hood, each slide panel being less than the width of the hood, a pair of slide panels adapted to cover a section and overlap each other at the center of the section served thereby, a drum within the hood, a series of nozzles within the hood positioned about the drum, a supply header at one end of the hood for supplying air to the nozzles, and means for adjusting the nozzles to control the direction of flow of air therefrom upon a web passing over the drum.

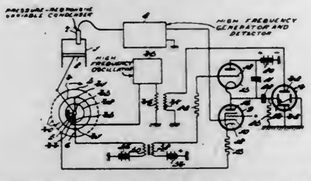
2,349,559
CENTRIFUGE DRIVE
Charles A. Olcott, West Milford, N. J.
Application November 8, 1940, Serial No. 364,777
18 Claims. (Cl. 210—72)

1. In combination with a centrifuge, an alternating current driving motor for said centrifuge, a source of low frequency power currents and a source of high frequency power currents, said high frequency being at least five percent greater than but less than twice the low frequency, means for connecting said motor to said low frequency source for acceleration of said centrifuge, and means automatically operative after a predetermined period of acceleration for switching said



motor from said low frequency source to said high frequency source to continue the acceleration of said centrifuge.

2,349,560
DEVICE FOR ASCERTAINING THE OUTPUT OR INPUT OF RECIPROCATING ENGINES
Maximilien Félix Reijnst, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application May 29, 1941, Serial No. 395,897
In the Netherlands June 25, 1940
11 Claims. (Cl. 73—30)

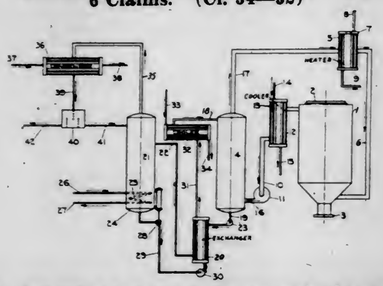


1. A device for determining energy values in a piston engine, comprising a measuring condenser, a charging circuit for said condenser including a voltage source and a variable resistance, switching means associated with the piston to intermittently close said charging circuit during short time intervals whose relative time spacings correspond to equal displacements of the piston, means to vary the value of said resistance in accordance with the pressure variations occurring over the piston during its displacement, means to discharge said condenser at the end of the working and back strokes of the piston, and means for indicating the difference between the maximum voltage across the condenser during the working stroke of the engine and the maximum voltage across the condenser during the back stroke of the engine.

2,349,561
TEXTILE PRINTING METHOD
William B. Reynolds, Elmhurst, Long Island, and Sylvester A. Scully, Yonkers, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application May 1, 1941, Serial No. 391,345
3 Claims. (Cl. 8—71)

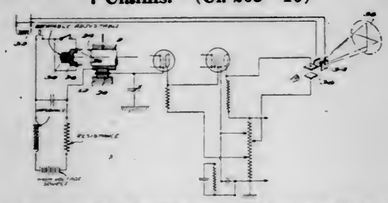
1. The method of printing a fabric with an ingrain azo color, which comprises laying down a wet non-acid print on the fabric from a thickened printing paste containing an azotizable amine, a soluble nitrite, and a coupling component, all in particles of no greater than microscopic size, and passing the fabric, while the print is still wet, into an acid ager, maintaining the printed fabric in the ager until diazotization and coupling has occurred, and finishing the printed fabric in conventional fashion.

2,349,562
SOLVENT RECOVERY FROM COLLOIDED MATERIAL
Henry Rosenthal, Yonkers, N. Y.
Application July 2, 1941, Serial No. 400,869
6 Claims. (Cl. 34—32)



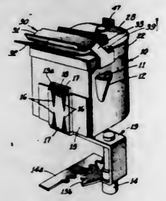
1. The method of solvent recovery in the manufacture of a product which is a colloided substance, said substance being colloided by means of a volatile solvent, and contatining a liquid plasticizer having a boiling point of at least 100° C. in excess of the boiling point of the least volatile component of said volatile solvent, said volatile solvent being also readily soluble in said plasticizer, said method comprising passing a gaseous medium in contact with said colloided substance in a container whereby said gaseous medium becomes laden with vapors of said volatile solvent, removing said vapor laden gaseous medium from contact with said colloided substance, bringing said vapor laden gaseous medium into contact with a second portion of said liquid plasticizing liquid in a second container to absorb the vapors of said volatile solvent borne by said gaseous medium, removing said gaseous medium from contact with said liquid in said second container and returning said gaseous medium into contact with said colloided substance in said first named container.

2,349,563
LUBRICANT TESTING METHOD AND APPARATUS
Auguste Louis Marie Antoine Rouy, New York, N. Y., assignor to The Gyro-Balance Corporation, Greenwich, Conn., a corporation of Delaware
Application August 30, 1941, Serial No. 409,079
7 Claims. (Cl. 265—10)



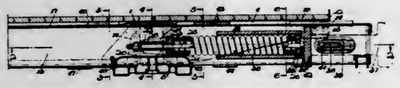
1. A method of measuring the lubricating characteristics of a lubricant, which comprises applying the lubricant between a bearing and a balanced shaft supported therein, starting the rotation of the shaft and gradually increasing the angular speed thereof, measuring during such starting and rotation the force of friction caused by rotation of the shaft and measuring the speed of rotation at each measurement of force, to determine the angular speed at which such force is least and thereby the angular speed at which the oil forms a continuous film between the bearing and shaft.

2,349,564
MOISTENING DEVICE FOR GUMMED OBJECTS
Commodore D. Ryan and Edward P. Drake, Los Angeles, Calif., assignors to National Postal Meter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application July 14, 1941, Serial No. 402,336
9 Claims. (Cl. 91—38)



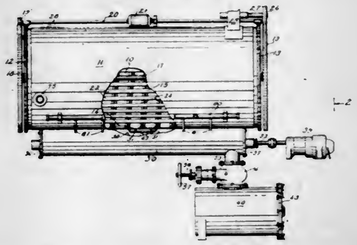
1. A device for moistening tape comprising: a liquid receptacle, a tape guiding chute fixedly supported above said receptacle for projecting tape through a predetermined path, a brush having its lower end fixedly anchored adjacent the bottom of said receptacle and having its upper end projecting from said receptacle and movable brush-guiding means slidably mounted on the upper end of said receptacle and defining an orifice through which said brush projects, said member being movable between a first position in which it supports the upper end of said brush against tape discharged through said chute, and an inactive position in which it supports the upper end of said brush clear of tape discharged through said chute.

2,349,565
CAR CONSTRUCTION
Sigvard Simonson, Butler, Pa., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware
Application December 18, 1941, Serial No. 423,529
8 Claims. (Cl. 213—8)



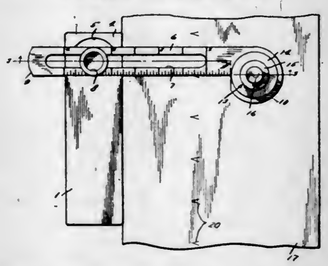
1. In a railway car, a body bolster, a draft and buffing column movable longitudinally relative to the car body through said bolster and comprising spaced side walls, bolster center brace structure comprising a horizontal support and a transverse vertical abutment projecting between said side walls, a pair of springs arranged side by side horizontally and disposed between said side walls with their inner ends resting on said support, an inner follower plate resting on said support and interposed between the ends of said springs and said abutment, a spring support carried by said column for the outer ends of said springs, links extending through said springs and through aligned openings in said follower plate and abutment for connecting the outer ends of said springs with said center brace structure, a coupler mounted for inward movement of limited extent relative to said column and for further inward movement and outward movement therewith, an outer follower plate interposed between the outer ends of said springs and said coupler, and stop means on said column adapted to engage said inner follower plate on outward movement of said column.

2,349,566
APPARATUS FOR PROCESSING CANNED GOODS
Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 5, 1942, Serial No. 441,763
15 Claims. (Cl. 99—359)



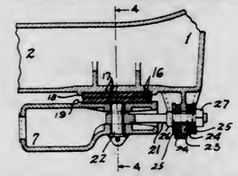
1. An apparatus for processing food products packed in frangible containers comprising, a processing chamber in which the containers are subject to processing in a continuous procession, a collection chamber independent of said processing chamber for receiving the debris of containers broken during processing, a conduit leading from said processing chamber to said collection chamber, means associated with said processing chamber for transferring the debris from said processing chamber to said conduit to be discharged into said collection chamber and normally open closure means operable to close off said conduit when removing debris from said collection chamber.

2,349,567
CENTER PUNCH
George K. Townsend, Jr., and Jack K. Taniyama, Honolulu, Territory of Hawaii
Application November 19, 1942, Serial No. 466,230
1 Claim. (Cl. 33—189)



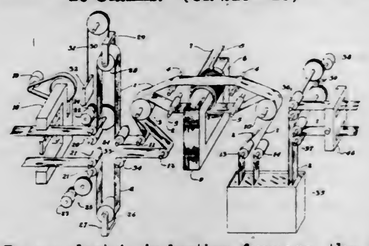
A center punch comprising a guide bar slidably engageable with a piece of work, said bar having a transverse groove in one end portion, said bar including a thickened portion immediately adjacent the groove and having a substantially segmental recess therein, a graduated arm mounted on the bar and engaged in the groove when in operative position, said arm including a rounded end portion engageable in the recess when said arm is in inoperative position, said arm having a longitudinal slot therein, a thumb screw threadedly mounted on the bar in the groove and engaged in the slot for releasably securing the arm in operative position in said groove or in inoperative position in the recess, and a punch mounted on the free end portion of the arm.

2,349,568
RAILWAY VEHICLE BODY AND RADIAL TRUCK ASSEMBLY
James C. Travilla, Jr., Philadelphia, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application September 25, 1941, Serial No. 412,206
15 Claims. (Cl. 105—174)



1. In a railway vehicle, a body frame member, a radial truck frame member having a pivotal connection at one end to said body frame member and supporting said body frame member at points spaced longitudinally of the vehicle from said connection, said connection comprising an element associated with said body frame member, an element associated with said truck frame member, and a pad of rubber-like material having its opposite faces secured to said elements respectively whereby said pad may distort under shear to accommodate relative movement of the adjacent portions of said members laterally of the vehicle and free of sliding action in such movement between said elements.

2,349,569
PROCESSING OF METAL STRIP
Golder P. Wilson, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Delaware
Application March 24, 1943, Serial No. 480,397
16 Claims. (Cl. 219—13)

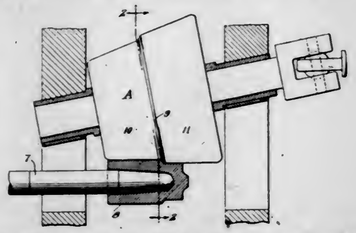


1. In an electric induction furnace, the combination which comprises means for simultaneously advancing a plurality of metal strips through said furnace, means for bringing said strips together to provide a plurality of electrical contacts therebetween, means intermediate said electrical contacts for separating said strips and means for inducing an electric current in the electrical loop formed by said strips between the said electrical contacts.

2,349,570
APPARATUS FOR MAKING SHELL BODIES
Claude A. Witter, Philadelphia, Pa.
Application July 16, 1940, Serial No. 345,812
1 Claim. (Cl. 80—13)

Cross-rolling equipment for lengthening a short, closed end thick wall blank including at least three tapered rolls, the rolls being annularly arranged to provide a pass with a smaller end of the roll adjacent the entrance end of the pass, each roll having a feeding section or zone at the

small end and a feeding-sizing section or zone at the large end with an annular reduction shoulder rising from the first zone and terminating in the feeding-sizing zone, and the roll being positioned with its axis diverging from the line of feed through said pass in the direction of feed therethrough and further with its axis laterally obliquely inclined to the feed line of said pass to ef-



fect feeding of the blank therethrough, the configuration and positioning of the rolls being such that the working surface of the feeding section and the feeding-sizing section are parallel to the axis of the pass, and a mandrel cooperating with the inside surface of the blank during rolling whereby lengthening of said short blank is effected substantially without "ballooning."

2,349,571
COATING COMPOSITION
Corliss F. Cummins, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application June 18, 1941, Serial No. 398,641
4 Claims. (Cl. 260—17)

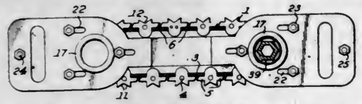
1. A package-stable bronzing lacquer, comprising, as the film-forming solids, from 15 to 50 per cent by weight of ethyl cellulose having an ethoxy content greater than 47.5 per cent and correspondingly from 85 to 50 per cent of a coumarone-indene resin compatible with the ethyl cellulose, and up to 40 per cent of a plasticizer for the ethyl cellulose which is also compatible with the coumarone-indene resin, based on the combined weights of ethyl cellulose and coumarone-indene resin dissolved in a hydrocarbon solvent predominantly aromatic in character and having a Kauri-butanol value over 50, and a pigment comprising a leafing metal powder.

2,349,572
INSECTICIDE
Gerald H. Coleman, Fred W. Fletcher, and Wesley D. Schroeder, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 24, 1941, Serial No. 416,371
7 Claims. (Cl. 167—24)

1. An insecticidal composition comprising a carrier and as an active toxicant a compound selected from the group consisting of the alkyl and alkenyl ethers of 3.5.x-trichloro-2-hydroxy-diphenyl.

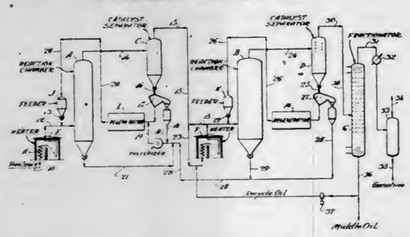
2,349,573
CUTTER CABLE
Fred Edward Anderson, Taft, Oreg.
Application February 3, 1941, Serial No. 377,222
2 Claims. (Cl. 143—135)

2. A cutting device comprising an endless cable, one-piece cutters threaded upon said cable, outwardly projecting teeth upon said cutters and integral therewith, longitudinal projections upon said cutters with parallel, nonrectangular terminations, collinear longitudinal holes continu-



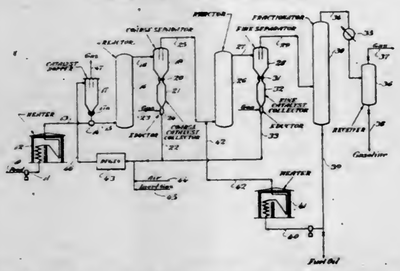
ous through said cutters and said projections for said cable, and lateral holes in said cutters with means in said holes for attaching the cutters to said cable.

2,349,574
CATALYTIC CONVERSION OPERATION
Arthur L. Conn, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 21, 1940, Serial No. 353,457
9 Claims. (Cl. 196—52)



1. The process of converting hydrocarbon oils by the action of powdered catalyst dispersed therein at a high conversion temperature which comprises contacting the oil vapors with the catalyst in a plurality of stages and employing different grades of catalysts of different particle size in different stages, providing enlarged reaction zones in at least two stages, providing upward flow of said vapors thru said reaction zones and regulating the conditions of catalyst sedimentation in said reaction zones to provide a different time of exposure of the catalyst to the oil vapors in said different reaction stages.

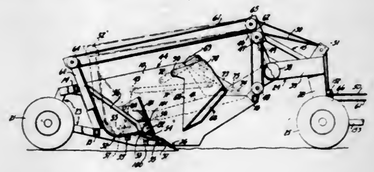
2,349,575
CATALYTIC TREATMENT OF VAPORS
Vanderveer Voorhees, Homewood, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application October 19, 1940, Serial No. 361,949
8 Claims. (Cl. 196—52)



4. The process of converting hydrocarbon oils by the action of suspended solid catalysts in the vapor phase, comprising heating and vaporizing the oil at a high conversion temperature, suspending in the vapors of said oil a finely divided

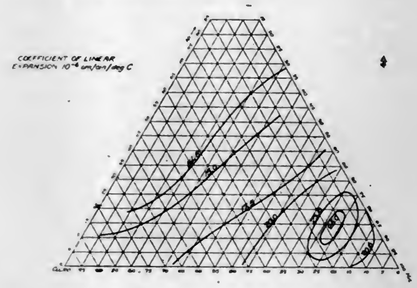
catalyst consisting of a mixture of coarse and fine particles, effecting conversion of said oil in a first conversion zone through which the oil vapors flow upwardly with said catalyst mixture at relatively low velocity, thereby providing partial sedimentation of larger catalyst particles, separating the said larger catalyst particles from the mixture of catalyst and vapors, subjecting the remaining catalyst and vapors to further conversion in a second low velocity conversion zone, recovering the catalyst from said vapors, fractionating and condensing the vapors to obtain desired hydrocarbon products regenerating the catalyst by controlled combustion and returning it while hot to the conversion system.

2,349,576
SCRAPING APPARATUS
Gordon E. Daniels, Nashville, Tenn.
Application October 8, 1942, Serial No. 461,270
17 Claims. (Cl. 37—126)



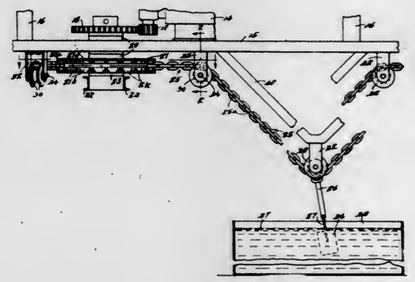
1. Scraping apparatus comprising the combination with a scraper body, and means supporting said body for movement along the ground; of a closure member capable of closing one end of said body, means supporting said member for movement toward and away from closing position, means including a draft member for transmitting movement to said body to move the same along the ground, said last mentioned means being capable of limited movement relative to said body in the line of draft, and means responsive to such relative movement for moving said member from closing position.

2,349,577
CONTROL MEMBER
Reginald S. Dean, Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill., a corporation of Illinois
Application November 21, 1941, Serial No. 419,872
21 Claims. (Cl. 297—15)



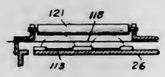
16. In a device responsive to temperature changes to perform work or mechanical movement, a plurality of metallic members, one of said members having a relatively high linear coefficient of thermal expansion and comprising an alloy of the following constituents by weight: manganese in excess of 50% and up to about 90%, nickel 4% to 20%, balance substantially all copper, the copper comprising at least 5%; the other member having a relatively low linear coefficient of thermal expansion and comprising essentially "Invar," an alloy of iron and nickel.

2,349,578
CONVEYING MECHANISM
Verner G. Ellen, Medicine Lake, Minn.
Application April 27, 1942, Serial No. 440,570
3 Claims. (Cl. 198—177)



1. A conveyor structure having in combination, an endless chain formed of looped links, adjacent links being disposed at right angles to each other so that some of the same may lie in horizontal planes and some in vertical planes, certain of said links having supporting rods secured thereto and depending therefrom in substantially the plane of the link, means for moving said chain including a driving sprocket, a plurality of aligned pairs of supporting pulleys around which said chain runs, said pairs being disposed at different heights, each of said pairs comprising laterally spaced pulleys having adjacent smooth cylindrical surfaces on which the bottom sides of the horizontally disposed links of said chain ride and having smooth vertical flanges at their remote sides between which said horizontally disposed links are guided, and means at the outer side of said pulleys for supporting the same whereby said chain can pass upwardly and downwardly between said pairs of pulleys and said rods may pass between the pulleys of each pair.

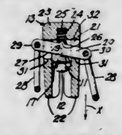
2,349,579
APPARATUS FOR COATING ARTICLES
John R. Litty, Philadelphia, Pa.
Application December 11, 1940, Serial No. 369,541
1 Claim. (Cl. 91—3)



Apparatus for rapidly applying a coating of viscous material to articles positioned beneath said apparatus and comprising a hopper, a discharge chamber below the hopper, a valve for intermittently closing communication between the hopper and chamber, means for intermittently opening and closing the valve between the hop-

per and the chamber, said chamber having a discharge opening, plunger means for sucking material into the chamber when the valve is open and for forcing the material through the discharge opening when the valve between the hopper and chamber is closed, a valve disk at the outer end of the discharge opening movable away from the chamber opening to open and toward the opening to close said opening, means for operating the plunger on its suction stroke when the first valve is open and the second valve is closed, said means operating the plunger on its pressure stroke when the valve disk is lowered and the first valve is closed, and means for operating the valve disk to open the disk on the pressure stroke of the piston and to move the disk upwardly to closed position on the completion of the discharge stroke whereby the coating will be formed into a cone on the article on which it is deposited.

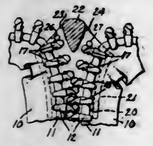
2,349,580
SEPARABLE FASTENER
Davis Marinsky and Louis H. Morin, Bronx, N. Y.
Application April 22, 1942, Serial No. 439,984
14 Claims. (Cl. 24—205.5)



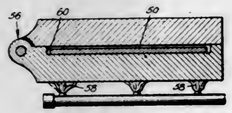
12. A slider for separable fasteners having top and bottom walls spaced and connected by a web portion, said walls and web portion partly defining a pair of channels converging into a single channel having an axis coinciding with the longitudinal axis of the slider, said slider being adapted to couple and uncouple opposed series of scoops mounted on stringers, said scoops having side portions in juxtaposition to the said slider walls; one of said walls having an aperture therein elongated longitudinally of the slider, said aperture being defined by edge portions; an elongated lock element arranged transversely of the slider and extending through said aperture and having an end extending beyond said wall of the slider adjacent said aperture, said lock element being slidably and pivotally mounted in relation to each of said slider walls; means in each of said slider walls including edges of said aperture, providing a pivot for the rocking movement of said element and a bearing to guide and limit the sliding and rocking movement of said element; resilient means mounted within the boundaries of said slider walls and urging said lock element longitudinally of the slider into engagement with said scoops; and pull means connected to said end of the lock element to swing said element about each of said pivots against the urge of said resilient means to release said element from locking engagement with said scoops.

2,349,581
LOCK SLIDER
Davis Marinsky and Louis H. Morin, Bronx, N. Y.
Application June 23, 1942, Serial No. 448,060
14 Claims. (Cl. 24—205)

10. In separable fasteners comprising stringers having scoops along adjacent edges thereof and a slider movable along the stringers, said slider comprising spaced walls, partly defining a pair of diverging channels, the locking improvement which comprises a blocking element mounted within at least one of said channels and adapted to engage scoops to prevent movement of the slider when the stringers are strained in a manner tending to separate the same, each of the scoops engaging said blocking element having recess means providing free normal passage of said blocking element.

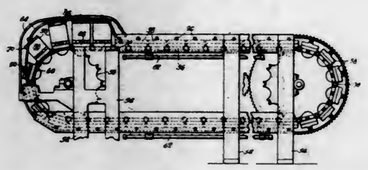


2,349,582
METHOD OF MAKING MELBA TOAST
Harry G. Tatosian, New York, N. Y., assignor to King Kone Corporation, New York, N. Y., a corporation of New York
Application January 17, 1942, Serial No. 427,163
1 Claim. (Cl. 99—90)



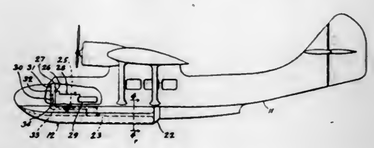
A method of making melba toast including the steps of flattening an untoasted slice of bread by momentarily subjecting the slice to pressure to compact the same, subjecting first one side of the compacted slice directly to heat by placing it in direct contact with the adjacent surface of the mold until the same is toasted substantially while the opposite side is being subjected indirectly to heat from its adjacent surface of the mold which is not directly in contact with the slice, and then turning over the slice of partially toasted bread so that the opposite side may be subjected directly to heat while in actual contact with the surface of the mold while the first side is being subjected to heat indirectly by being out of contact with its adjacent mold surface until both sides of the slice of bread have been completely browned and toasted without exerting any pressure thereon during the toasting operation.

2,349,583
APPARATUS FOR MAKING MELBA TOAST
Harry G. Tatosian, New York, N. Y., assignor to King Kone Corporation, New York, N. Y., a corporation of New York
Application January 17, 1942, Serial No. 427,164
1 Claim. (Cl. 99—373)



Apparatus for making melba toast without pressure comprising an endless conveyor having a series of individual book molds each adapted to receive a plurality of slices of bread to be toasted, said molds having an upper and lower section, the upper section having a flat inner surface and an outwardly projecting roller member for engaging a cam track, the lower section having an upstanding flange of greater height than the thickness of the bread slices to be toasted extending around all but the rear side thereof for engaging and supporting the upper section in spaced relation to the toasting surface of the lower section thereby forming a pocket in the mold when the sections are closed for loosely receiving and holding a plurality of slices of bread to be toasted, upper and lower heating chambers, a loading station in front of the upper heating chamber having a cam track mounted in the path of the roller members of the molds for opening and closing the molds as they pass thereby, means for driving the conveyor to move the molds first through the upper heating chamber to cause one side of the bread slices to be toasted, for turning over said molds as they pass out of the upper heating chamber and into the lower heating chamber for toasting the opposite sides of the bread slices, and for turning over said molds as they pass upwardly from the lower heating chamber to the loading station so that the toasted bread slices may be discharged by gravity from the molds through the open rear sides thereof.

2,349,584
FLYING BOAT HULL
Karl Arnstein, Akron, and Benjamin J. Schnitzer, Stow, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application August 24, 1940, Serial No. 354,056
11 Claims. (Cl. 244—106)

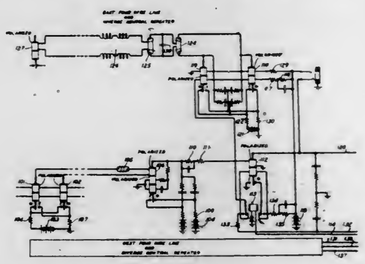


1. In combination in a flying boat, a rigid hull structure, a resilient landing cushion underneath and fastened to said rigid hull, said landing cushion comprising a plurality of longitudinal flexible inflatable tubes substantially parallel to each other, a step dividing said landing cushion into a front portion and a rear portion, the inflatable tubes in said front portion as well as in said rear portion decreasing in diameters from the longitudinal center toward the sides of the hull, the tubes in the front portion being larger in diameter than corresponding tubes in the rear portion, fastening means for attaching said tubes to the bottom of said rigid hull, an airtight and waterproof flexible cover enclosing said tubes being attached and sealed to the bottom of said rigid hull, means for attaching said cover to the bottoms of said tubes, and chafing strips longitudinal of and fixed to the outer surface of said cover for protection.

2,349,585
FOAM PREVENTION
Donald C. Bond, Northbrook, and Charles W. Botsford, Niles Center, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application July 8, 1940, Serial No. 344,372
14 Claims. (Cl. 252—8.5)

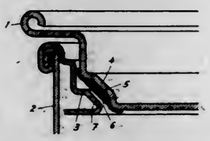
1. In a method of drilling wells wherein a positive colloid mud fluid comprising basic dye and positively charged mineral particles is circulated in the well bore, the step which comprises adding a modicum of neutral ester of high molecular weight fatty acid to the fluid.

2,349,586
INVERSE NEUTRAL TELEGRAPH REPEATER CONCENTRATION GROUP SWITCHING
Allen R. Bonorden, Plainfield, N. J., and Paul V. Koos, Woodside, Joseph A. Krecek, New Rochelle, Wayne V. K. Large, Glenwood Landing, and Tola A. Marshall, Floral Park, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 24, 1940, Serial No. 362,548
21 Claims. (Cl. 178—73)



1. In a telegraph system, the method of operating a multiposition telegraph concentration board, which comprises (1) connecting each telegraph channel, which may be connected into a network, permanently to an individual hub type repeater, (2) providing direct access to the hub legs of said channels at a plurality of operator's positions and direct access to each leg of each hub type repeater of each channel which may be assembled into the same network at the same attendant's position in the concentration board, (3) joining the leg of each hub type repeater of each channel which is to be assembled into a common network through switching facilities at the attendant's position where direct access to each of said legs is provided, to permit the administration of telegraph repeater concentrations at an operator's position in a multiposition switchboard by effecting the addition, subtraction or substitution of telegraph channels in networks while precluding the necessity for adjusting telegraph repeaters in the network to accommodate the changes.

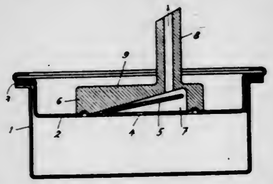
2,349,587
METHOD FOR MANUFACTURING LIDS FOR HERMETICALLY CLOSING CONTAINERS
Herbert Brand, Zollikon, Switzerland
Application December 5, 1941, Serial No. 421,840
In Switzerland October 30, 1940
9 Claims. (Cl. 113—80)



1. A method of applying sealing material to the joint surface of a disc-like container member comprising rolling the member along a predetermined path with its joint surface tangential

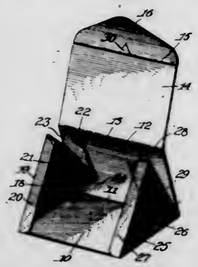
to a substantially horizontal plane, causing said joint surface to dip in a bath of liquefied bitumen and rubber mixture, and passing the thereby coated surface through drying and heating zones, all while said member is rolling in said path.

2,349,588
METHOD AND APPARATUS FOR VACUUMIZING CONTAINERS
Herbert Brand, Zollikon, Switzerland
Application December 5, 1941, Serial No. 421,841
In Switzerland October 30, 1940
6 Claims. (Cl. 226—82)



1. A suction cup for applying a sealing disc to an aperture in a container to be sealed under vacuum comprising a suction chamber with a lip applicable to the wall of the container around the aperture the internal wall of said chamber being so shaped as to hold the disc resiliently at one portion of its periphery with freedom to turn about said held portion inside the chamber, and in which at least a portion of the wall of the chamber is deformable under a predetermined vacuum within the chamber to turn said disc and press it into sealing position.

2,349,589
CARTON
Bertie S. Harrington, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application March 25, 1942, Serial No. 436,176
2 Claims. (Cl. 229—22)

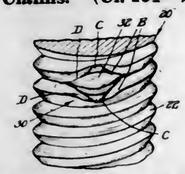


1. A carton comprising a base face, a pair of triangular ends each having its one edge connected by line of fold with an end edge of said face, a cover including the second and third faces of the carton and being foldable about said ends to close the carton, said second and third faces being joined at a line of fold and a pair of web sections each connecting an edge of an end with an end edge of said second face, said web sections being foldable inwardly and effective to maintain said ends in fixed annular position with respect to said faces, said ends cover and webs being foldable from a single sheet about said lines of fold to form a closed carton.

2,349,590
TOCOPHEROL-CONTAINING COMPOSITION AND PROCESS OF PREPARATION
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application November 6, 1941, Serial No. 418,043
4 Claims. (Cl. 167—81)

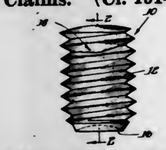
4. A new composition of matter useful as a tocopherol concentrate for medicinal or dietary purposes, said composition comprising a substantially dry, finely divided, inert, solid carrier substance upon which is substantially evenly distributed scum derived from the steam utilized for the vacuum deodorization of a glyceride oil which contains tocopherol, said scum being distributed on the carrier in sufficiently large amounts to give a mixture having a relatively high concentration of tocopherol.

2,349,591
SELF-LOCKING SCREW DEVICE
Richard T. Hosking, Wilmette, Ill., assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application January 23, 1940, Serial No. 315,215
14 Claims. (Cl. 151—22)



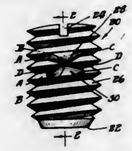
1. A self-locking screw threaded device including a threaded body, and a locking section including a relatively hard element integral with said body and displaced laterally with respect to an adjacent normal thread convolution, said element having an advancing edge which when said threaded body is turned into a complementary threaded body causes the longitudinal division of the thread in said complementary body and the shifting of a portion thereof into locking association with said element.

2,349,592
SELF-LOCKING SCREW DEVICE
Richard T. Hosking, Wilmette, Ill., assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application April 22, 1940, Serial No. 330,818
5 Claims. (Cl. 151—32)



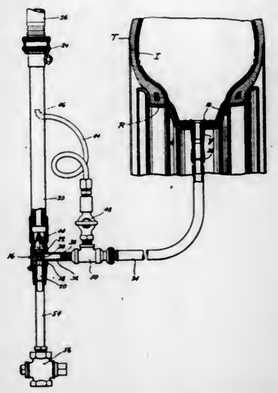
3. A self-locking screw device including a threaded body, and a locking section forming a part of but having a surface diverging from the helical contour of the normal thread convolution of said body, said surface diverging from the top to the base, the point of maximum divergence being in the vicinity of the base thereof, said shifting means being adapted when rotatably associated with a complementary threaded member to effect axial displacement of the top or narrow portion of a complementary thread so as to increase resistance of the engaged thread areas to relative retrograde rotation.

2,349,593
SELF-LOCKING SCREW DEVICE
Richard T. Hosking, Wilmette, Ill., assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application June 18, 1940, Serial No. 341,130
4 Claims. (Cl. 151—22)



1. A self-locking screw threaded device including a threaded body, and a locking portion including a rigid thread shifting section offset from the normal helical contour and adjacent the base of a thread convolution of said body and a second adjacently positioned rigid thread shifting section offset from the normal helical contour and adjacent the base of another thread convolution of said body in a direction opposite from the first mentioned section, said thread shifting sections adapted when rotatably associated with a complementary threaded member to contemporaneously effect axial displacement toward each other of adjacent portions of adjacent thread convolutions in said complementary member so as to increase resistance of the engaged thread areas to relative retrograde rotation, each of said rigid thread shifting sections and the thread portion from which it is offset presenting in combined transverse cross-section an area greater than the cross-sectional area of the normal thread convolution.

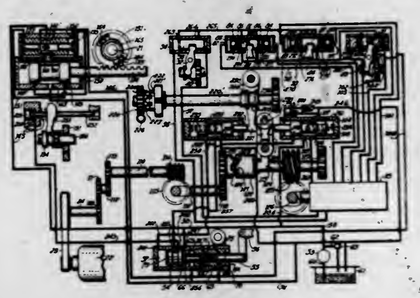
2,349,594
VACUUM METHOD FOR FILLING TIRES WITH WATER
William W. McMahan, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application July 11, 1942, Serial No. 450,604
3 Claims. (Cl. 152—415)



1. That method of filling a pneumatic tire and inner tube mounted on a rim with liquid which includes the steps of exhausting through the valve stem all of the air out of the inner tube so as to collapse the walls of the tube inwardly against themselves and away from the inside walls of the tire, introducing liquid through the valve stem into the inner tube to fill the tube and move the walls thereof back into engagement with the tire, and continuing the introduction of liquid into the tube until a pressure has been built up in the tire.

2,349,595
MACHINE TOOL CONTROL MECHANISM
Mario E. Martellotti, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application December 9, 1940, Serial No. 369,204
18 Claims. (Cl. 90—18)

1. In a milling machine transmission having a prime mover and branch feed and speed transmissions for driving a work support and a tool spindle respectively, the combination of feed and speed change control mechanisms associated with the respective branch transmissions, a con-



trol lever alternately shiftable to effect power actuation of said control mechanisms, a clutch normally positioned for operatively connecting the output of the feed transmission to the work support, and means operable by the lever when shifted to either power actuating position to effect disengagement of said clutch.

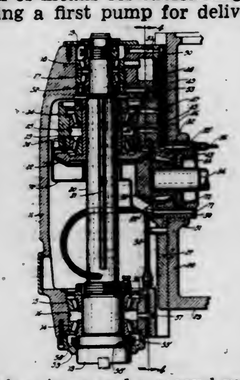
2,349,596
PURIFICATION OF CAUSTIC SODA
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application March 25, 1940, Serial No. 325,787
3 Claims. (Cl. 23—184)

1. A method of treating impure anhydrous sodium hydroxide containing up to about 2 percent by weight of sodium chloride which comprises contacting the same with water and sufficient liquid ammonia to insure separation of a pair of liquid phases, the first of which contains the major portion of the ammonia and of said impurities, water and some sodium hydroxide, and the second of which contains the major portion of said sodium hydroxide and separating the first phase from the second phase.

2,349,597
LUBRICATION SYSTEM FOR MACHINE TOOLS
Lester F. Nenninger, Edgar D. Vancil, and Fred A. Hassman, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application May 19, 1941, Serial No. 394,098
4 Claims. (Cl. 184—6)

1. In a machine tool having a hollow support including top and bottom walls, a spindle, and

bearing means for journaling the spindle in the top and bottom walls, said bottom wall having a passage through which the spindle passes, the combination of means for lubricating said bearings including a first pump for delivering lubri-



cant to said bearings, and a second pump having an intake located below the bearing in the bottom wall and adjacent the lower end of said passage for withdrawing the lubricant discharged from said bearing to prevent lubricant loss through the spindle passage.

2,349,598

PROCESS FOR PURIFICATION OF MERCAPTOTHIAZOLES

Harold P. Roberts, Tallmadge, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application November 12, 1941, Serial No. 418,794
7 Claims. (Cl. 260—306)

1. A method of purifying a 2-mercaptoarylenethiazole which comprises treating an aqueous slurry of the same with an excess of lime to produce an aqueous solution of the calcium salt of the 2-mercaptoarylenethiazole, separating this solution from the insoluble impurities and excess lime and then treating the solution with an acid to reform the 2-mercaptoarylenethiazole.

2,349,599

PRODUCTION OF DIARYLENETHIAZYL DISULPHIDES

Robert W. Moorhouse, Sharon Township, Medina County, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application January 30, 1943, Serial No. 474,230
2 Claims. (Cl. 260—306.5)

1. A method of producing dibenzothiazyl disulphide from a crude mercaptobenzothiazole, containing tarry matter which is less soluble in lime water than in caustic soda solution which comprises converting the 2-mercaptobenzothiazole to its calcium salt and dissolving the same in water, separating insoluble matter including the tarry matter therefrom, and then oxidizing to benzothiazyl disulphide by a halogen gas.

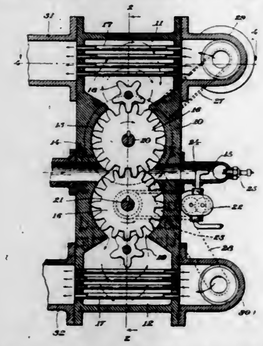
2,349,600

INTERNAL-COMBUSTION ENGINE

John C. Adams, Fairbanks, Territory of Alaska

Application July 2, 1943, Serial No. 493,266
3 Claims. (Cl. 60—41)

1. An internal combustion engine comprising a casing formed to provide upper and lower preheat chambers, a compressor chamber communicating with both preheat chambers, an air passage for conducting atmospheric air through the compressor chamber through the preheat chambers, a combustion chamber in which the compressed air is forced after leaving the preheat chambers, a fuel pump for supplying fuel to the combustion chamber, ignition means in the combustion chamber, a multistage turbine, pipes con-



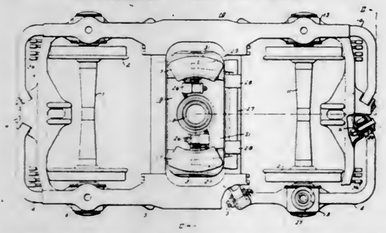
ducting the gaseous products of combustion from the combustion chamber through the turbine, pipes conducting the exhaust gases from the turbine to the preheat chambers, pipes in the preheat chambers conducting the exhaust gases through the chambers to the atmosphere, pump gears in the compression chamber driven by the turbine, and motion transmitting means for driving the fuel pump from one of the gears.

2,349,601

RAILWAY VEHICLE TRUCK

Frank L. Alben and Bernard F. Langer, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 14, 1941, Serial No. 393,328
6 Claims. (Cl. 105—218)



1. In a vehicle truck having a plurality of journal boxes for supporting wheel axles, in combination, a main truck frame, and an individual substantially L-shaped sub-frame for supporting each one of the journal boxes, the ends of each sub-frame being hinged to the main frame at opposite sides of the journal box supported thereby.

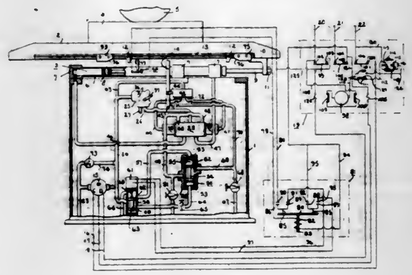
2,349,602

HYDRAULIC SYSTEM FOR MACHINE TOOLS

William G. Baldenhofer, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio

Application March 9, 1942, Serial No. 433,953
6 Claims. (Cl. 51—233)

4. A grinding machine comprising an abrasive wheel and a reciprocatory table for carrying the work past said wheel, a hydraulic cylinder and piston for moving said table, a source of pressure fluid for actuating said piston, means for retarding the movement of said piston and table, said means including a throttling valve connected to the exhaust line from the cylinder to receive and control the passage of fluid as it is exhausted by said piston, said throttling valve provided with means for hydraulically operating



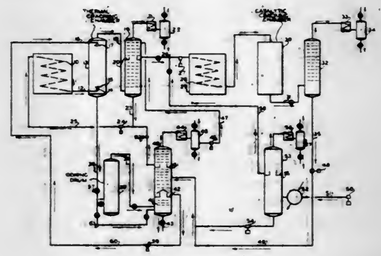
the same and containing a valve member having pistons at the ends, a hydraulic valve provided with means for operating the same when the table has reached a predetermined point in its travel, and hydraulic connections between the last-mentioned valve and the pistons of the throttling valve whereby the condition of the throttling valve is changed when the table has reached said predetermined position in its travel.

2,349,603

COMBINATION CATALYTIC AND THERMAL CRACKING

Joseph Mason Barron, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application July 2, 1943, Serial No. 493,205
4 Claims. (Cl. 196—49)



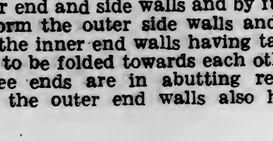
1. In the combination thermal and catalytic cracking of hydrocarbon oils the process that comprises passing hydrocarbon oil through a heating zone wherein it is heated to a cracking temperature and subjected to thermal cracking, introducing the resultant heated products to the lower portion of a vertically disposed reaction chamber wherein separation of vapors from liquid residue takes place, introducing a residual stock to the upper portion of the vertically disposed reaction chamber to flow countercurrently to the upwardly rising vapors therein, maintaining a cracking temperature in said reaction chamber to effect thermal cracking, withdrawing the liquid residue and subjecting it to coking, subjecting the separated vapors to fractionation in a fractionating zone to separate lower boiling fractions from higher boiling fractions, recycling said higher boiling fractions to said heating zone, withdrawing said lower boiling fractions from the fractionating zone and combining them with a straight-run condensate stock, subjecting the mixture to catalytic cracking, combining resultant products from the catalytic cracking operation and a petroleum residual stock with vapors from the coking operation and subjecting the admixed constituents to fractionation to obtain a condensate fraction and a residual fraction, utilizing said residual fraction as the stock introduced to the upper portion of the vertically disposed reaction chamber, and directing the condensate fraction to the aforesaid fractionating zone for refractionation therein.

2,349,604

MAGNIFYING ATTACHMENT FOR MEASURING INSTRUMENTS AND THE LIKE

Stephen S. Barrows, Minneapolis, Minn.

Application June 17, 1943, Serial No. 491,108
11 Claims. (Cl. 88—39)



1. An atttachment for measuring instruments having measurement indicating indicia thereon that are normally somewhat difficult to read, comprising an elongated tubular body portion having a longitudinal opening therethrough adapted to receive a portion of the measuring instrument therein, said body portion having formed on one side a transparent, longitudinally extending enlargement forming a lens which, when the attachment is mounted on the instrument, will magnify said indicia and render them accurately readable, said body portion having means that will hold the tubular body portion against lateral displacement and position the lens over the indicia when the attachment is in operative position on the instrument.

2,349,605

DISPENSING CONTAINER

Walter A. Becker, Charlotte, N. C., assignor to Old Dominion Box Company, Lynchburg, Va. a corporation of Virginia

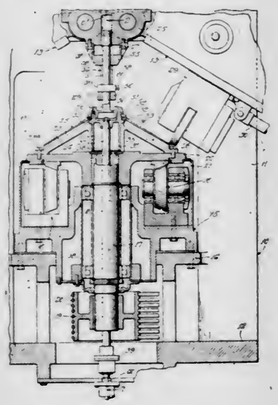
Application January 1, 1943, Serial No. 471,040
6 Claims. (Cl. 229—17)



1. In a rectangular paper box formed from a single blank and being scored to provide two inner and outer side walls and two inner and outer end walls when the blank is folded to first form the inner end and side walls and by further folding to form the outer side walls and end walls, each of the inner end walls having tabs thereon, adapted to be folded towards each other, so that their free ends are in abutting relation, and each of the outer end walls also having tabs

thereon adapted to be folded towards each other, so that their free ends are in abutting relation, the inner side walls having flaps on each end thereof adapted to be folded towards each other in overlapping relation and one of the outer side walls having flaps extending from each end thereof adapted to be folded over the tabs of the inner and outer end walls and over the flaps of the inner side walls, the flaps on one end of one of the outer side walls having tabs on their free ends adapted to be inserted between the inner and outer walls opposite the hinge point of the last-named flap to securely hold all of the tabs and flaps in folded position, the flaps extending from the inner side walls being perforated.

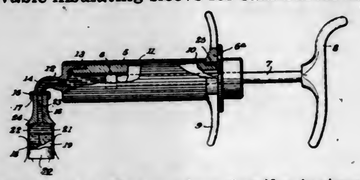
2,349,606
BLANK-HANDLING APPARATUS
Louis B. Berg, Chicago, and Frank A. Stuhlman, Forest Park, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 1, 1941, Serial No. 421,160
6 Claims. (Cl. 80—16)



1. A mechanism for handling apertured objects which are to be worked against a rotatable form, said mechanism comprising a support for the object movable to and from said form, said support having an element passing through the aperture in the object, a non-rotatable abutment opposite the support, means mounted on said abutment and movable toward and away from said support, said means having an element which is adapted to overlap the element on the support whereby to prevent the object from accidentally leaving the form, and means for preventing the first mentioned means from rotating, said first mentioned means being adapted to clamp the object to the support to prevent the object from rotating.

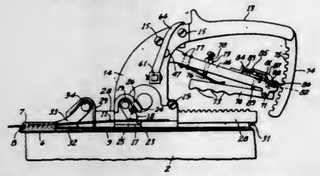
2,349,607
DENTAL INSTRUMENT
Herbert R. Berger, Brooklyn, N. Y., assignor to Mixxy, Inc., New York, N. Y., a corporation of New York
Application November 28, 1941, Serial No. 420,762
2 Claims. (Cl. 32—17)

1. In an instrument of the extrusion syringe type having a barrel, a nozzle removably attached thereto, the outside of the barrel and the nozzle presenting a smooth, cylindrical, outer surface, a removable insulating sleeve for said barrel having



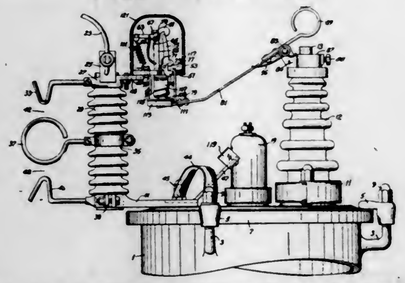
affixed thereto a finger-piece for the instrument, and said sleeve having a smooth interior cylindrical surface.

2,349,608
STRAP-STRETCHING DEVICE
John H. Bramble, Sharpsville, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1943, Serial No. 487,797
8 Claims. (Cl. 254—79)



1. The combination in a strap-stretching device, of a pair of relatively movable members, means carried by each of said relatively movable members and constructed to grip the ends of a flat metal strap with said ends overlapping one above the other, and means for moving said relatively movable members away from ecah other for drawing said strap taut around an article and maintaining said overlapping portions in taut condition, said means comprising a manually operable lever for applying a force for moving said relatively movable members and a single locking means operable upon the application of a predetermined force by said lever for locking said lever against further movement in either direction.

2,349,609
ELECTRICAL PROTECTIVE DEVICE
Kenneth R. Brown, Des Moines, Iowa, and Carl E. Mosley, Overland, Mo., assignors to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Application November 3, 1941, Serial No. 417,670
8 Claims. (Cl. 175—294)

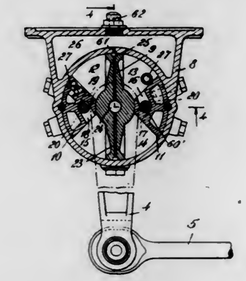


1. An electrical protective device for use between a line leading from a reclosing circuit breaker to a transformer having a primary tap and internal coils connected to its case, and means for grounding the case; comprising a thermostatic element responsive to heat caused by current flowing from said line, a contact in series with said line, a movable switch arm connected in series with the inlet tap of the transformer, means for holding said movable switch means in engagement with said contact comprising a latch construction which is responsive to said thermostatic element to release upon a predetermined heated condition of the thermostat, means for biasing said switch arm away from said contact upon release and into electrical engagement with a grounded part on said transformer case, whereby the transformer is disconnected from said supply line, any arc that is drawn between said switch arm and contact operating when grounded to cause said reclosing circuit breaker temporarily to open, said arc itself being broken in response to opening of the circuit breaker.

3. An electrical protective switch comprising a conducting member at one potential, a releasable latch mechanism, a conductive thermostatic means controlling the release and latching actions of said latch mechanism, a supply line terminal in conductive relation with said thermostatic means and insulated from said conducting member and being at another potential, a movable conducting and arc-deflecting switch member having a mount insulated with respect to said conducting member and engaging with said latch in one position to be normally held latched thereby, means biasing said switch member to another position wherein it is in conductive relationship with said conducting member, means for conductively connecting the switch member with a device to be served with current, means associated with said switch member for moving it from its position of contact with the conducting member to its latched position, said thermostatic means being in series conductive relation with said switch member when the latter is in latched position, said thermostatic means upon abnormal current flow there-through releasing said latch to permit biased travel of said switch member from its normal latched position through a sequence of arc-deflecting positions and into its contacting position with respect to said conducting member, whereby arcing current is deflected to said conducting member from passage through said device being served.

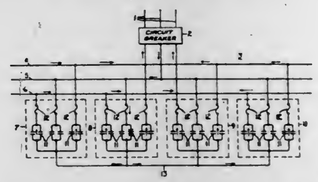
2,349,610
HYDRAULICALLY OPERATED OSCILLATION DAMPER
Adolf Brunner, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application January 20, 1942, Serial No. 427,412
In Switzerland June 19, 1941
6 Claims. (Cl. 188—89)

1. An hydraulic oscillation damper for damping relative movements of one element with respect to another which comprises a casing adapted to be connected to one element, an oscillatable piston in the casing, means connecting the piston with the other element, whereby the piston is oscillated with respect to the casing, at least two suction spaces and at least two pressure spaces in the casing containing liquid, the liquid in two pressure spaces being placed under high pressure and the liquid in two suction spaces being placed under low pressure when the piston oscillates in one direction, passage means for liquid connecting each of the pressure spaces with a suction space, spring-controlled valve means for permitting the flow of liquid through the passage means from a pressure space to a



suction space, means for adjusting the spring to open the valve at various predetermined pressures, and means for varying the pressure on the spring of the valve as the piston oscillates.

2,349,611
PROTECTION OF POLYPHASE IMPEDANCE NETWORKS
John W. Butler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 23, 1942, Serial No. 466,606
3 Claims. (Cl. 175—294)

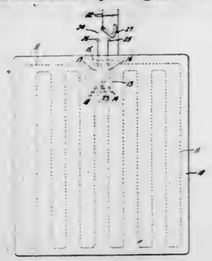


1. In combination, a three-phase alternating-current power circuit, at least four similar star-connected capacitor banks connected in parallel with each other across said circuit, similar fuses connected respectively in all the phases of all said banks, and means which is insulated from ground for making a solid interconnection between the neutrals of said banks whereby capacitor dielectric failure resulting in the short circuiting of one phase of one bank will cause at least a twelvefold increase in the current in the fuse in that phase of that bank.

2,349,612
HEATING DEVICE
James R. Campbell, Ontario, Calif., assignor to General Electric Company, a corporation of New York
Application February 23, 1943, Serial No. 476,825
6 Claims. (Cl. 219—46)

1. In an electrically heated device having a heating circuit, a control device therefor comprising a thermally-responsive element responsive to the temperature of said device and having a plurality of thermally-responsive sections that are connected to deflect in unison responsively to temperature changes and including means for heating said thermally-responsive element at different rates to cause movement thereof, means

for selectively rendering said sections effective to control said thermally-responsive element, and



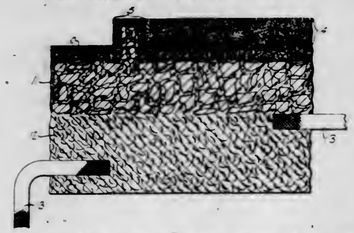
means controlled by movements of said thermally-responsive element for controlling the energization of said heating circuit.

2,349,613

POROUS RESILIENT PRINTING PLATE

Robert G. Chollar, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application February 12, 1942, Serial No. 430,661
36 Claims. (Cl. 101—401.1)



1. The method of making a molded resilient web, including the step of finely comminuting rubber containing vulcanizing ingredients; the step of comminuting to the same fineness a solid filler substance soluble by solvents not appreciably affecting the rubber; the step of intimately mixing the rubber and the filler substance in a volatile fluid to form a fluid mass; the step of applying a thin coating of the fluid mass onto a supporting web and allowing it to dry; the step of placing the supporting web in a mold with the uncoated side of said web next to a printing matrix; the step of preparing a coarser dry mix of the rubber and filler; the step of applying a layer of the dry coarser mix over the coating previously applied on the supporting web; the step of applying molding pressure to the layers of substances in the mold; the step of vulcanizing the molded product; the step of removing the supporting web from the rest of the molded product; and the step of dissolving the filler from the rubber.

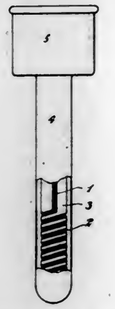
2,349,614

ELECTRIC RESISTANCE ELEMENT, MORE PARTICULARLY OF RESISTANCE THERMOMETERS

Alexander Constantine Denisoff and Bernard Patrick Scanlan, London, England, assignors to Simmonds Aerocessories, Limited, London, England

Application December 28, 1942, Serial No. 470,362
In Great Britain December 10, 1941
2 Claims. (Cl. 201—63)

1. The method of making a resistance element having a desired temperature-resistance characteristic which consists in forming the element of two series-connected pieces of resistance material which are essentially of the same composition but differ somewhat as regards their first order temperature coefficients of resistance and in



choosing the resistance of the said two pieces to satisfy the relation

$$\alpha_m = \frac{R_1\alpha_1 + R_2\alpha_2}{R_1 + R_2}$$

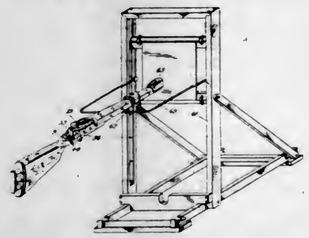
where α_m, α_1 and α_2 are respectively the desired temperature coefficient of the element, the coefficient of the said first piece and the coefficient of the said second piece and R_1 and R_2 are the resistances of the said first and said second pieces respectively.

2,349,615

MUSKETRY TRAINING DEVICE

Zygmunt de Lubicz-Bakanowski, Frederick John Minns, and Garnet Wilfred Glover Norman, Oxford, England, assignors to The Swift Rifle Company Limited, Oxford, England

Application January 11, 1943, Serial No. 472,072
In Great Britain August 19, 1941
6 Claims. (Cl. 35—25)



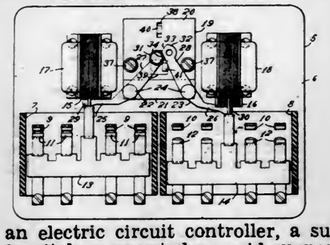
1. In a dummy gun for musketry and like training purposes in which a rod mounted in the stock of the gun and having means for piercing a target is adapted to be projected when the trigger is pulled, a cocking and trigger mechanism comprising: a hollow bolt; an abutment fixed to the bolt; a striker mounted within the bolt; an abutment carried on the striker; a main spring mounted on the striker between the said two abutments; a cocking piece arranged to engage the striker; a sear capable of engaging the cocking piece and to hold it and the striker immovable against the pressure of the main spring when the gun is cocked by backward and forward movement of the bolt; and a trigger for actuating the sear to release the cocking piece, whereby the energy of the cocked main spring is released to actuate the striker and the latter acts on the rod to project its piercing means from the gun.

2,349,616

REVERSING LINE STARTER INTERLOCK

Delbert Ellis, Wilkinsburg, and Bruce C. Wells, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 18, 1942, Serial No. 431,400
4 Claims. (Cl. 200—5)



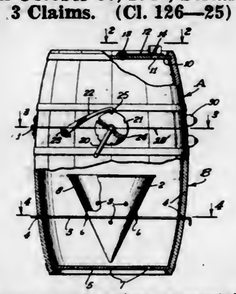
1. In an electric circuit controller, a support, a pair of switches mounted on said support and movable between open and closed positions, and coupling means interconnecting said switches for moving one of said switches to open position upon movement of the other of said switches to closed position, said means comprising a pair of bell cranks pivotally mounted on said support, each of said bell cranks having an arm connected to one of said switches for movement therewith, and a motion transmitting arm, said motion transmitting arms having cooperating camming parts effective upon a small initial movement of one of said bell cranks and its associated switch toward closed position to cam the other of said bell cranks and its associated switch to its substantially full open position, the cam part of one of said arms having a cam curve pointed towards said other cam part, and said coupling means being arranged relative to said switches so that the point of engagement between said cam parts passes through the point of said cam curve substantially at the moment when the closed switch is opened.

2,349,617

BARBECUE APPARATUS

John Gorman, Los Angeles, Calif., assignor, by direct and mesne assignments, of forty-nine two-hundredths to Sybil Gorman, Los Angeles, Calif., fifty-one one-hundredths to Walter E. Smith, and forty-nine two-hundredths to Ward D. Griffiths

Application October 30, 1941, Serial No. 417,131
3 Claims. (Cl. 126—25)



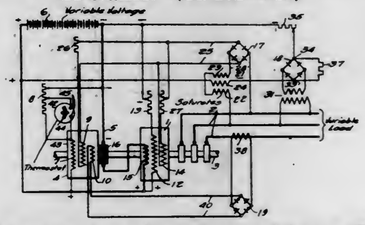
2. A barbecue apparatus comprising: a housing formed of saturated wood and adapted to be arranged in upright position for use, said housing having a bottom section forming a base and an upper section hinged to the bottom section for providing a hollow cover, said lower section arranged to support a spit rotated on the upper edge thereof, and also arranged to support a firebox removably held in said lower section so as to direct heat upwardly for application to food carried by said spit, said upper and lower sections having openings to the atmosphere for providing a draft during cooking operations.

2,349,618

SELF-REGULATED MOTOR-GENERATOR SET

Herbert W. Graybrook, Irwin, and Chester J. Biscup, Whitaker, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 16, 1941, Serial No. 393,742
14 Claims. (Cl. 171—119)



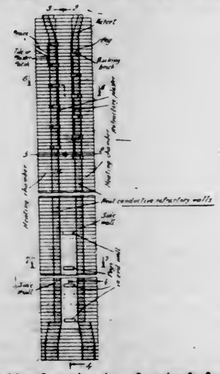
1. A motor-generator set comprising: a direct-current motor; an alternating-current generator driven by said motor; a variable-voltage direct-current source for supplying energy to said motor; a rectifying means; a saturable reactor having an alternating-current circuit and a direct-current controlling means; an auxiliary substantially unidirectional-current circuit; means for energizing said auxiliary circuit from an alternating-current voltage of said generator through said rectifying means and through said saturable reactor, the alternating-current circuit of said reactor being connected between the generator-voltage and the rectifying means; means for energizing the direct-current controlling-means of the reactor responsively to a predetermined function of the voltage of the direct-current source; and means for causing said motor to be magnetically excited responsively to a predetermined function of the voltage of the direct-current source, and also cumulatively responsively to a predetermined function of the voltage of said auxiliary circuit.

2,349,619

ZINC SMELTING

George F. Halfacre, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey

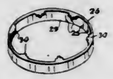
Application November 21, 1941, Serial No. 419,897
11 Claims. (Cl. 266—20)



1. In a vertical retort adapted for reducing a charge of mixed carbonaceous and zinciferous

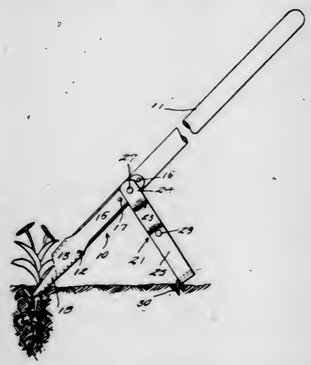
material comprising an upright chamber filled with the charge and walled with a heat conductive refractory, the combination which comprises an upwardly extending series of short pegs of refractory material on the inside of the wall of the chamber, and a relatively thin refractory lining covering the inside of the wall and supported by the pegs, and means for heating the charge by conduction through said wall from the outside thereof.

2,349,620
METHOD OF FABRICATING ROTORS
William L. Hansen and Ira N. Hurst, Princeton, Ind., assignors to Hansen Mfg. Company, Inc., Princeton, Ind., a corporation of Indiana
Application December 2, 1940, Serial No. 368,138
7 Claims. (Cl. 29—155.53)



1. In a method of fabricating rotors for synchronous motors, the steps of forming spaced incisions near the edge of a flat circular piece of rotor material, said incisions extending in a general radial direction, then bending the flat piece into a cup-shape with the bend at such a position that the incisions occur between the bend and the edge of said piece, then cutting the flat portion of the cup-shaped material to leave integral lugs projecting inwardly from the edge of the bent portion, and then removing the metal cut from the flat portion of the cup-shaped member to leave a rotor ring of continuous circular form with incisions extending along the length of the ring and about its periphery.

2,349,621
LAWN WEEDER
French B. Hardman, Ashtabula, Ohio
Application January 8, 1942, Serial No. 426,076
2 Claims. (Cl. 254—132)



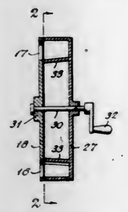
1. A lawn weeder comprising a blade member having a socket portion, a blade portion extending from one end thereof, straps extending from the other end of the socket portion, a handle extending into the socket portion between the straps and extending beyond the free ends of the straps, a support device, and an element pivotally mounting the support device passing through the support device, straps and handle.

2,349,622
MANUFACTURE OF RECTIFIERS OF THE BLOCKING LAYER TYPE
Clarence W. Hewlett, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 18, 1941, Serial No. 423,562
2 Claims. (Cl. 175—366)



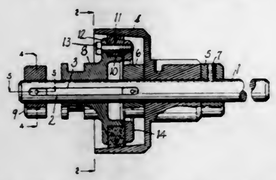
1. In the process of fabricating a selenium rectifier the step which comprises subjecting the surface of the selenium component of the rectifier to the action of a spray of an aqueous solution containing about 0.1 to 1.0 per cent of hydrogen peroxide.

2,349,623
MIXING AND DISPENSING DEVICE
John J. Hickey, Arlington, N. J.
Original applications June 10, 1942, Serial No. 446,424, and June 10, 1942, Serial No. 446,426. Divided and this application October 10, 1942, Serial No. 461,540
3 Claims. (Cl. 273—144)



1. A mixing and dispensing device, comprising a hollow wheel casing, means connected with said casing for rotating the same in opposite directions, means situated within said casing and having surfaces engaging and mixing balls situated within said casing when the casing is rotated in one direction, and further having pockets formed therein for selectively holding a predetermined number of said balls to raise the same when the casing is rotated in the opposite direction, and means covering each pocket during a part of the lower portion of its rotary movement and uncovering it during the upper portion of its rotary movement for selectively raising the balls in said pockets and dispensing the raised balls.

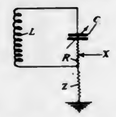
2,349,624
FRICTION CLUTCH
Eugene Higgins, Jackson, Mich.
Application May 21, 1943, Serial No. 487,843
3 Claims. (Cl. 192—66)



1. In a friction clutch, the combination with a shaft having a longitudinal feather groove therein, of an internal conical clutch member rotatable on said shaft, a coacting clutch member

axially slidable on said shaft and provided with an annular friction ring seat having a flange at the outer end thereof, an annular friction ring of yieldable material arranged on said seat to coact with said internal conical clutch member, a clamping ring disposed in opposed relation to said flange, bolts arranged through said flange and friction ring and having threaded engagement with said clamping ring, the friction ring being wider than the seat whereby the friction ring is clampingly supported between said flange and clamping ring, a feather disposed in said groove in said shaft to coact with said slidable clutch member, the ends of said feather being reduced and lying within the periphery of the shaft, collars arranged on said shaft to embrace the reduced ends of said feather, and set screws for said collars engaging the said reduced ends of said feather, one of said collars being arranged within said conical clutch member and constituting a thrust collar therefor, the other constituting a stop collar for said slidable clutch member.

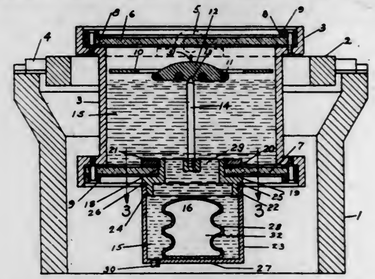
2,349,625
SIGNAL DISCRIMINATING SYSTEM
George Hodges, Meadow Way, Rickmansworth, England
Application August 28, 1940, Serial No. 354,619
In Great Britain August 28, 1939
1 Claim. (Cl. 250—20)



A selective signal system including a closed tunable circuit and a second circuit, said circuits being mutually coupled, said closed circuit comprising an inductance, a condenser and a substantially pure resistance sequentially connected in series, the remote ends of the resistance and inductance having a junction connection to form the closed circuit, and wherein the phase of the potential developed is 90° out of phase to the flux in space of an incoming wave signal, said second circuit comprising an impedance having at one end a ground connection and its sole other end connected to the junction connection above, at least an appreciable portion of said pure resistance and said entire impedance being included in the second circuit, the developed potential of which is in phase with the flux in space of the incoming wave signal, the impedance by reason of its connection to the junction earthing unsymmetrically the first named closed circuit, and means connected to both circuits for potential delivery, the phases and amplitudes of the specified potentials effecting cancellation of unwanted potentials at the point of delivery of wanted potentials, all points of wanted potential delivery being remote from the inductance-condenser connection in said closed circuit, said system discriminating between wanted and unwanted potentials.

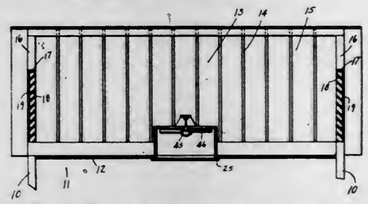
2,349,626
COMPASS
Clarence E. Keefer, Baltimore, Md.
Application November 6, 1942, Serial No. 464,722
2 Claims. (Cl. 33—223)

2. A compass of the class described comprising an external casing, a transparent cover mounted on the upper surface of the casing, a bottom attached to the lower portion of the casing, and provided with a opening therein, a spider frame with openings therethrough mounted on the said bottom and encompassed by the edges of said opening so as to fit closely thereto, a cup unit attachable to the said shell element disposed under the said bottom so as to be readily removable therefrom to permit access to the interior of the casing through the said spider frame, a liquid medium in the casing and cup, a pivot attached to the spider frame and positioned above



same, a solid float adapted to float in the medium and disposed on the point of said pivot adapted to adjust itself on same, magnets arranged parallel on the bottom of the float and coordinated with the magnetic influence of the earth, a compass card and needle mounted on the float and above the magnets with indices marked thereon to indicate magnetic positions of the needle, and means for carrying the casing and permitting it to position itself in a horizontal plane regardless of the vertical or horizontal plane of the said means.

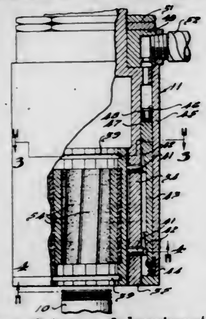
2,349,627
MULTIPLE VENTILATING SYSTEM
Eugene S. Kemmer and John E. Titus, La Fayette, and William K. Oyler, West Lafayette, Ind.
Application November 17, 1939, Serial No. 304,896
12 Claims. (Cl. 98—43)



1. In a multifloor building structure having a ventilated upper story, and a lower floor communicating therewith, the combination of door means controlling the communication, compartment fully enclosed within the upper story and having openings adjacent opposite ends, said openings being laterally offset relative to each other and diagonally positioned in the compartment and lying in substantially parallel planes and oppositely directed, one opening registering with the communication and controlled by said door means, the other opening communicating at all times with the interior of the upper story, fan means in the compartment immediately adjacent the compartment said other opening, means for operating the door means for selective ventilation of the upper story or the lower floor and upper story, and means for operating said fan whenever any ventilation is required said compartment having a third opening juxtapositioned to the door means and arranged for closure by

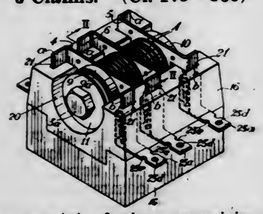
the same for upper and lower floor ventilation and arranged for compartment communication with the upper story when said door means closes the first mentioned offset opening for upper story ventilation only.

2,349,628
HONING TOOL
John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application May 3, 1940, Serial No. 333,195
1 Claim. (Cl. 51—184.3)



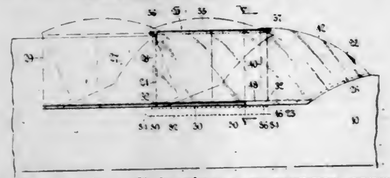
In an external type of honing tool, a body, a plurality of stones supported by said body having surfaces disposed toward the axis thereof, means carried by said body for biasing said stones away from said axis, means on said tool for moving said stones toward the tool axis, an annular cylinder about said tool body, and an annular piston about said tool body within said cylinder for adjusting said moving means.

2,349,629
ASYMMETRIC DEVICE AND MOUNTING MEANS THEREFOR
Branko Lazich, Wilkinsburg, and Richard H. Williams, Jr., Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 12, 1942, Serial No. 430,642
3 Claims. (Cl. 175—366)



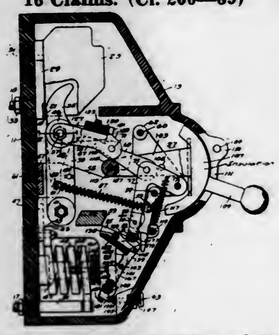
1. An asymmetric device comprising a stack of asymmetric units, terminal members included in said stack provided on opposite sides of the stack with contact prongs to enable the device to be plugged into a mounting base, said prongs being disposed at right angles to the plane of the terminal members in laterally offset relation in such manner that by turning the terminal members around in the stack the distance between the terminal members can be changed to provide a greater or lesser space for asymmetric units between them without changing the distance between the contact prongs, whereby the same mounting base can be used for different devices having different numbers of asymmetric units included therein.

2,349,630
AIRCRAFT COCKPIT CANOPY
Robert N. Lesnick, Brooklyn, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application June 10, 1941, Serial No. 397,428
6 Claims. (Cl. 244—121)



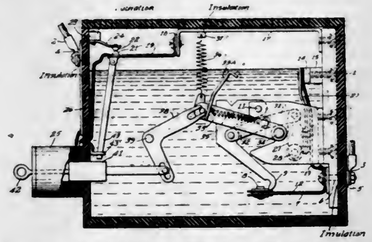
1. In an aircraft having a passenger carrying body portion cut away to provide a cockpit opening, a canopy adapted to function as a closure for said cockpit opening and comprising a plurality of canopy sections mounted upon track means extending from said body portion for guiding displacement of said canopy sections between cockpit-covering and uncovering positions, means for imparting controlled movement to one of said canopy sections upon said track means, horizontal pivot means mounting the other canopy section for limited pivotal movement fore and aft, and means connecting said canopy sections whereby movement of the one canopy section on said track means pivots the other of said canopy sections relative to said body section and upon said track means in response to movement of said first mentioned canopy section so as to be nested therewith in cockpit-uncovered position, said connecting means including differential drive means whereby the rate of movement of each canopy section is substantially proportionate to the distance between its cockpit-covering and uncovering positions.

2,349,631
CIRCUIT BREAKER
Ture Lindstrom, Edgewood, and Paul O. Langguth, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 11, 1942, Serial No. 465,242
16 Claims. (Cl. 200—89)



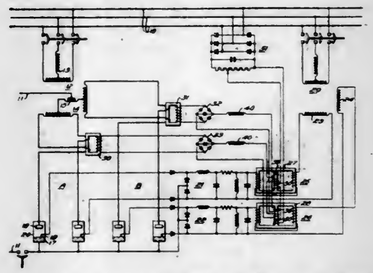
1. A circuit breaker comprising relatively movable contacts, a switch member movable to open and close said contacts, operating mechanism therefor including a releasable member restraining said switch member in closed position when the circuit breaker is in closed position, said member being movable from one position to a second position to cause opening of said contacts, trip means operable in response to overload circuit conditions to release said releasable member, means cooperating with the releasable member to start movement of said member toward said second position, and resilient means cooperating with the starting means and said switch member to actuate the starting means and move said switch member to open the contacts.

2,349,632
AUTOMATIC RECLOSING BREAKER
John W. May, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 19, 1941, Serial No. 423,631
10 Claims. (Cl. 175—294)



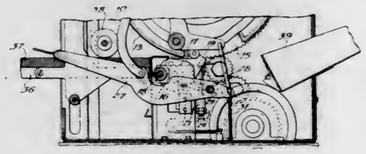
1. In combination with a pair of relatively movable contacts, mechanism having a trip free latch for holding said contacts in closed-circuit in one of its positions, means for biasing said mechanism to closed-circuit position as long as said trip free latch is engaged, means responsive to flow for a predetermined time of overload current to move said mechanism to the open-circuit position, and a heat storage means actuated to disengage said latch only upon the flow of overload current for a time greater than said predetermined time.

2,349,633
VAPOR ELECTRIC DEVICE
Henry C. Myers, Geneva, Ill., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 23, 1943, Serial No. 473,309
8 Claims. (Cl. 175—363)



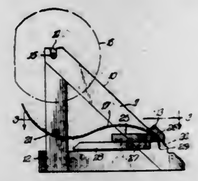
1. A load balancing system for a conversion system having a plurality of parallel operating valve groups, a substantially independent impulsing system for each of said valve groups, a phase shifting impedance network for each of said impulsing systems, a variable reactor in each of said networks, sources of direct current potential each proportional to the current carried by the respective said valve group, reversely wound windings on said variable reactors and means for applying said potentials to said windings.

2,349,634
CONTROL MEANS FOR THE IMPRESSION ROLLERS OF DUPLICATING MACHINES
Morris P. Neal, Quincy, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Original application April 7, 1939, Serial No. 266,518. Divided and this application October 25, 1941, Serial No. 416,543
3 Claims. (Cl. 101—132)



1. In a duplicating machine, the combination of a drum rotatably mounted in position, means for mounting a master sheet on the face of the drum, a heavy yoke member having its arms pivotally mounted below said drum, an impression roller journaled between the arms of said yoke in position to engage a master sheet on said drum, vertically positioned bars slidably mounted below said yoke member having notched heads engaging the crossbar portion of the yoke member, springs on said bars normally urging them upwardly for pressing the impression roller against the drum, and nuts adjustably mounted on said bars for limiting the upward movement of said impression roller by said springs.

2,349,635
DEVICE FOR USE IN TEARING SHEET MATERIAL
Herbert W. Pusheck, Evanston, Ill.
Application February 27, 1943, Serial No. 477,368
5 Claims. (Cl. 164—84.5)



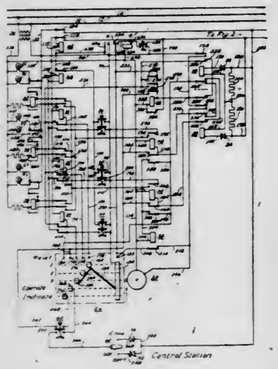
5. In a device of the character described, a stationary member against the underside of which a strip of tearable sheet material is adapted to be pressed, a pivotally mounted holding member for engaging the underside of the strip and pressing it against the stationary member, and a stationary blade having a sharp tearing edge against the underside of which the strip is adapted to be positioned when the latter is being torn, said pivotally mounted holding member being biased toward the stationary member and being provided along its front edge with a nose portion which extends forwardly from the pivotal axis thereof into engagement with the strip at an acute angle to the plane of the latter, the point of engagement of said pivotally mounted member with the strip being spaced rearwardly a substantial distance from the point of engagement of said tearing edge with the strip, whereby to leave the strip after each tearing operation with its front edge unconfined.

2,349,636

SUPERVISORY CONTROL SYSTEM

Maurice E. Reagan, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 21, 1942, Serial No. 431,892
15 Claims. (Cl. 177—353)



6. In a supervisory control system, a communication channel extending between a control station and a plurality of apparatus units, operating means for each of the apparatus units, a group of circuit control devices at the control station, a group of circuit control devices associated with each apparatus unit, a first one of the circuit control devices associated with each apparatus unit corresponding to a first one of the circuit control devices at the control station, a second one of the circuit control devices associated with each apparatus unit corresponding to a second one of the circuit control devices at the control station, other of the circuit control devices associated with each of the apparatus units corresponding each to a separate one of other of the circuit control devices at the control station, actuating means associated with each group of circuit control devices for actuating the circuit control devices at the control station momentarily in sequence and actuating the circuit control devices associated with the apparatus units simultaneously with their corresponding circuit control devices at the control station over said communication channel, selecting means at the control station corresponding to the separate apparatus units, means responsive to the actuation of any selected one of said selecting means for operating said actuating means, means responsive to the actuation by said actuating means of the circuit control device at the control station corresponding to the actuated one of the selecting means for stopping said actuating means, means responsive to the actuation of the circuit control device at the apparatus unit corresponding to the actuated one of the selecting means and the stopping of the actuating means for again operating said actuating means, means responsive to the actuation by said actuating means of the said first one of the circuit control devices for connecting the operating means of the apparatus unit corresponding to the actuated one of the selecting means for operation over said conducting channel from the control station, means for actuating the operating means of the selected apparatus unit over said conducting channel from the control station, means responsive to the actuation of the selected apparatus unit for causing the several actuating means to reset their associated groups of circuit control devices for a subsequent selecting sequence operation, means whereby said second one of the circuit control devices and its corresponding circuit control devices are actuated during the said resetting operation, and means responsive to the actuation of said second one of the circuit control devices and its corresponding circuit control device associated with the actuated apparatus unit for indicating the operation of the actuated apparatus unit at the control station, means responsive to the operation of any apparatus unit other than by selective operation from the control station for operating said actuating means through said operating sequence of the groups of circuit control devices to a reset position for a subsequent sequence operation, and means responsive to the actuation of the circuit control devices associated with the operated one of the apparatus units and said first and second one of the circuit control devices for indicating the operation of the apparatus unit at the control station.

2,349,637

FROTH FLOTATION

Kurt Felix Ruckwardt, Anaconda, Mont., assignor to Anaconda Copper Mining Company, a corporation of Montana

No Drawing. Application December 8, 1941, Serial No. 422,103
8 Claims. (Cl. 209—166)

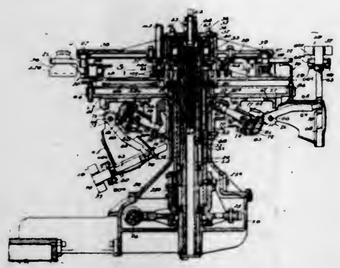
1. The method of separating a copper sulphide from a lead sulphide by selective froth flotation which comprises treating an alkaline aqueous pulp of the mixed copper and lead sulphides with a soluble phosphate, rendering the thus treated pulp slightly alkaline, and subjecting the alkaline pulp to a froth flotation operation in the presence of a copper sulphide collecting agent comprising a xanthate and selectively floating the bulk of the copper sulphide in the pulp from the bulk of the lead sulphide.

2,349,638

ARTICLE TRANSFER MECHANISM

Carl W. Schreiber, Toledo, Ohio, assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio

Application March 3, 1943, Serial No. 477,846
11 Claims. (Cl. 198—210)



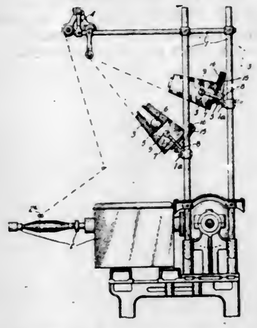
1. An article transfer mechanism comprising a carriage, means for rotating it about a vertical axis, an article holder and an article gripping device mounted on the carriage for rotation therewith, automatic means for actuating the gripping device during the rotation of the carriage and causing it to grip an article supported on the holder, and means for withdrawing the holder vertically downward, leaving the article supported by the gripping device, and then swinging said holder inwardly toward the axis of the carriage.

2,349,639

YARN-PACKAGE HOLDER

Hans J. Theiler, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts

Application January 1, 1942, Serial No. 425,309
11 Claims. (Cl. 242—131)



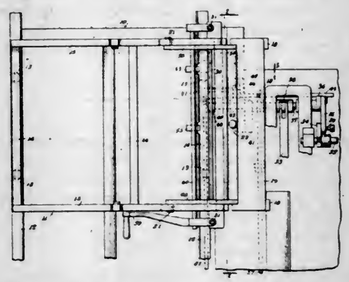
1. In a textile machine having an upstanding creel comprising rails at the rear of said machine, yarn-package-holders on such rails, each comprising a substantially horizontal rocking support having a crank handle and an expansible yarn-package post fixed thereon, and adapted to hold said post either in an angular position pointing forwardly of said rail or in a position in rear of such rail whereby yarn packages can be placed on said posts from the rear of the machine, and means including a cam element carried by said rocking support for causing expansion of said post coincident with the forward movement of said handle.

2,349,640

FEEDING MECHANISM FOR FRINGING MACHINES

Peter Trabulsi, Fairview, N. J.

Application December 19, 1941, Serial No. 423,584
2 Claims. (Cl. 112—64)



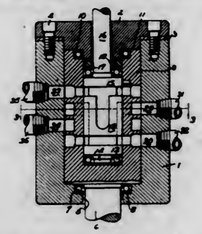
1. A feeding mechanism of the character described comprising a support, a yoke carried by said support and guided for vertical movement, a driving member engaged by said yoke and reciprocated vertically thereby, said driving member being reciprocable in the direction of feed transversely of said support, guide rails on the support, a carriage mounted on said guide rails, means on said carriage for supporting a stack of articles to be fed, and a driven member carried by said carriage and arranged for engagement with the mentioned driving member whereby the vertical and transverse movements of said driving member effect intermittent engagement thereof with the driven member to effect intermittent transverse movement of the carriage with respect to said support.

2,349,641

ROTATING SERVO-VALVE

Warren R. Tucker, Dayton, and George A. Waldie, Franklin, Ohio, assignors to The Hydraulic Development Corp. Inc., Mount Gilead, Ohio, a corporation of Delaware

Application December 18, 1941, Serial No. 423,487
9 Claims. (Cl. 121—41)



1. A servo-valve for pressure fluid systems comprising a cylindrical casing containing a cylindrical valve rotor, a cylindrical sleeve interposed between said casing and rotor, a plurality of ports in said casing on each side thereof, said sleeve having a plurality of peripherally extending grooves which communicate respectively with said ports, said rotor being provided with a pair of peripherally extending longitudinally spaced grooves, a plurality of slots extending longitudinally of the valve rotor, each alternate slot communicating with one of the grooves in the rotor and the remaining slots communicating with the other of the grooves in the rotor, and openings in the sleeve extending between the slots in the rotor and the grooves in the sleeve whereby when the rotor is rotated to bring the slots into alignment with the openings in the sleeve passageways are established between the ports in the casing which control the passage of fluid through the servo-valve.

2,349,642

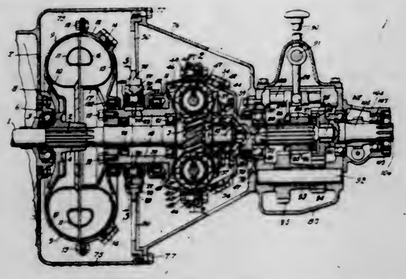
SHAFT COUPLING AND SYSTEM OF POWER TRANSMISSION

Sydney C. Watson, Chicago, Ill., assignor to Tor-Vel Associates, having as trustees, Sydney C. Watson and Alvin J. Parcelle

Application October 28, 1941, Serial No. 416,783
3 Claims. (Cl. 74—189.5)

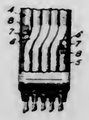
1. In combination, an internal worm gear drive and fluid coupling therefor, a driving shaft, an impeller fixed on said shaft, a member rotatable about said shaft, a runner fixed on said member and opposed to said impeller, a driven shaft, an internal worm gear fixed in relation to said gear housing, a carrier fixed to said member within said gear housing and surrounding said driving shaft, means for preventing rotation of said carrier in a direction opposite to that in which said driving shaft is rotated, and a combined anti-friction thrust bearing positioned on the side of said carrier away from said fluid cou-

pling, and upon the terminal end of said driving shaft, a plurality of worms positioned for rotation in said carrier and in mesh with said



internal worm gear, and an external worm gear fixed on said driving shaft and in mesh with said worms.

2,349,643
BRUSH CONSTRUCTION
Dietrich F. O. Wesemeyer, Euclid, Ohio, assignor to Spiral Brushes, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application September 7, 1940, Serial No. 355,849
19 Claims. (Cl. 15—182)



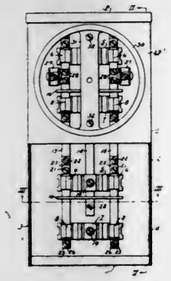
16. A substantially cylindrical brush composed of a trough-shaped base strip with brush material secured therein and projecting from the mouth thereof, the strip extending circumferentially of said brush, thereby being disposed in a hollow formation including at least one full circumferential turn and a terminal portion, with a transverse offset to a distance substantially equal to the width of said base and receiving an adjacent terminal portion of said strip and thereby squaring the general plane of said full turn of said hollow formation and said adjacent portions thereof to the axis of said cylindrical brush.

2,349,644
DOUBLE-LOCKED BRUSHING UNIT AND METHOD OF MAKING THE SAME
Dietrich F. O. Wesemeyer, Euclid, Ohio, assignor to Spiral Brushes, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application May 25, 1943, Serial No. 488,460
12 Claims. (Cl. 300—21)



1. The method of making a double-locked brushing unit which comprises forming a hollow cylindrical brush coil of a channel strip with its free upper edges pressed in clamping relation to radial brushing strands engaged centrally over a holding wire secured within the lower portion of said channel strip, which includes the steps of first forming the channel strip into a coil with a crimped upper edge, then forcing inwardly at spaced points around the outer turn of the channel strip a plurality of projections from the at least one wall of said channel strip in locking relation immediately above the holding wire within said channel strip, and simultaneously displacing the holding wire and channel strip walls transversely adjacent the end turn of said brushing unit.

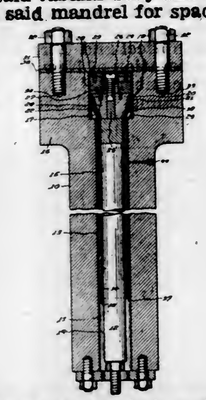
2,349,645
METER MOUNTING
Arthur A. Young, Manchester, N. H., assignor to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application July 27, 1940, Serial No. 347,919
5 Claims. (Cl. 175—226)



1. In an assembly for detachably receiving an electrical instrument having terminal contact means; a receptacle; contact element means in said receptacle for detachably engaging said terminal contact means when said instrument is positioned on said receptacle; means for supporting said contact element means in said receptacle including a bracket attached to said receptacle, a first insulating structure supported by said bracket, and means for securing said contact element means to said first insulating structure; a plurality of conductors for establishing electrical connections for said contact element means; and means retained by said bracket for holding said conductors in a predetermined relationship including an insulating member, said insulating member and said bracket having male and female portions in interlocking engagement, and said insulating member having portions projecting from said bracket for engaging said conductors.

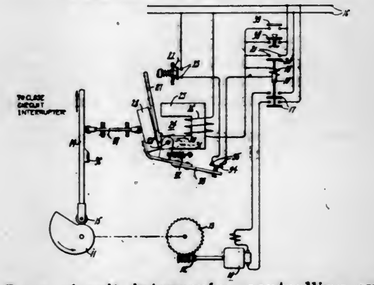
2,349,646
APPARATUS FOR RADIALLY CONTRACTING TUBULAR METAL BODIES
Paul L. Arnold, Delanco, N. J., assignor to United States Pipe and Foundry Company, a corporation of New Jersey
Application June 21, 1941, Serial No. 399,158
8 Claims. (Cl. 78—1)

1. In apparatus for working a tubular metal body, a container having a cylindrical bore therein for holding fluid under pressure, a cylindrical mandrel arranged in said bore to provide a space to receive said tubular body between the wall of said bore and said mandrel, means for restraining one end of said tubular body against elongating movement, a fluid seal between said end and said wall, a rigid backing sleeve within the opposite end of said tubular body and movable longitudinally on said mandrel for spacing said op-



posite end from said mandrel, and a fluid seal between said opposite end of said tubular body and said wall.

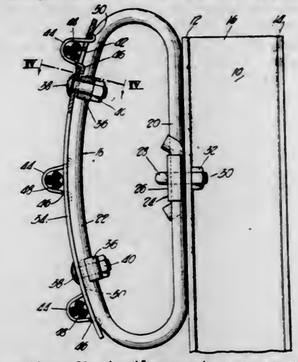
2,349,647
ELECTRIC CONTROL SYSTEM
Alexander C. Boisseau, Lansdowne, and Benjamin S. Beall, III, Llanerch, Pa., assignors to General Electric Company, a corporation of New York
Application September 16, 1941, Serial No. 410,980
8 Claims. (Cl. 175—294)



1. In a circuit interrupter controlling system comprising motive means for moving said circuit interrupter to the closed position, an electric control circuit for effecting the operation of said motive means, means including a first switch for rendering said electric control circuit effective to initiate operation of said motive means to move said circuit interrupter to the closed position, electromagnetic means including a plurality of armatures one of which is arranged for operating said first switch, means including an operator's switch for energizing said electromagnetic means to operate said first switch and initiate closing of said circuit interrupter, and means responsive to a predetermined operation of said motive means for rendering said first switch ineffective to control the energization of said control circuit.

2,349,648
CABLE HIGHWAY GUARD
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application June 30, 1942, Serial No. 449,126
9 Claims. (Cl. 256—13.1)

1. In a highway guard, a guard rail element, a coiled spring bracket whose axis is substantially parallel to said element, a supporting post, a clip engaging a plurality of adjacent convolutions spaced lengthwise of the spring bracket, means



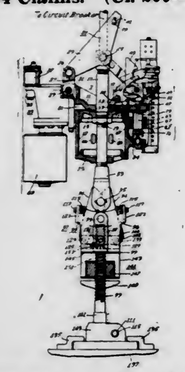
securing the clip to the post, a nose plate, and a fitting securing the latter to the spring bracket in spaced relation to the post, said supporting elements being carried by said nose plate.

2,349,649
OIL WELL PUMP AND THE LIKE
Roy L. Chenault, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application February 21, 1941, Serial No. 380,043
12 Claims. (Cl. 103—231)



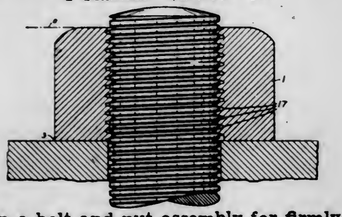
1. Apparatus for pneumatically pumping liquids from wells which comprises a source of gaseous fluid under pressure, a displacement chamber adapted to be positioned in the liquid in a well, said chamber being provided with a valve seat, a valve movable axially of the seat for venting the chamber of entrapped gas to the well, a second valve seat, a second valve movable axially of the second valve seat for controlling the delivery of gaseous fluid from said source to said chamber, a vertically reciprocable eduction tube in communication with the lower part of said chamber, and extending therefrom to the top of the well, and means connecting said eduction tube with said valves for operation of the same in accordance with the reciprocation of the eduction tube whereby when the eduction tube is lowered gaseous fluid is admitted to the displacement chamber and when the eduction tube is raised the displacement chamber is vented into the well.

2,349,650
CIRCUIT BREAKER MECHANISM
James M. Cumming, Turtle Creek, and Allan W. Hill, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 4, 1942, Serial No. 437,668
14 Claims. (Cl. 200—82)



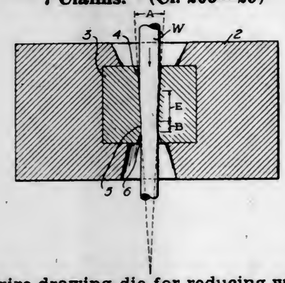
1. The combination of a circuit breaker, a member movable to close the breaker, power operated means for moving said member to close the breaker, a tripping means effective to trip the breaker in response to predetermined abnormal conditions while mechanically connected to the power operated means, manually operable means engageable with said member for moving the member to close the breaker, and a trip-free tripping means effective to cause disconnection of the movable member from the manually operable means in response to predetermined abnormal conditions occurring during a closing movement of the manually operable means.

2,349,651
SCREW THREAD FOR HIGH STRENGTH BOLTING
Evan A. Davis, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 17, 1942, Serial No. 447,363
4 Claims. (Cl. 85—32)



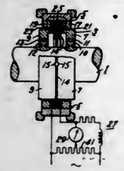
1. In a bolt and nut assembly for firmly holding machine elements together, in combination, a bolt, subject to a tension load, having conventional threads for coaction with a nut, a nut having threads that are undercut in line with the faces of the threads to thus make the threads flexible in the direction of the pull of the bolt, the threads otherwise being of conventional design to fit the threads of the bolt, the nut also having the first thread that normally, in placing the nut on the bolt, engages the threads of the bolt, cut away to the depth of the undercut for the threads of the nut, whereby the tension load is more evenly distributed to substantially all the threads of the nut.

2,349,652
WIRE DRAWING DIE
James M. Fenner, South Euclid, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 2, 1942, Serial No. 467,634
7 Claims. (Cl. 205—29)



1. A wire drawing die for reducing wire having a metallic coating thereon consisting of a die member having a hole arranged therethrough through which the wire is adapted to be drawn to reduce the same, said hole having a tapered portion arranged on the entrance side thereof which terminates in a main bearing portion having substantially parallel side walls a predetermined length with the side walls of said tapered portion having an angle with each other of approximately from 3½ to 10 degrees, the length of said bearing portion varying directly as the angle of the side walls of the tapered portion varies.

2,349,653
THRUST MEASURING DEVICE FOR SHAFTS
Frank W. Godsey, Jr., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 15, 1942, Serial No. 458,379
9 Claims. (Cl. 265—1)

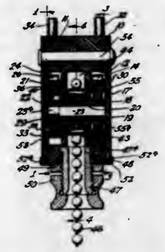


1. Apparatus for continuously indicating the thrust of a shaft comprising, in combination, stationary electrical coil means, a magnetic flux path, means for producing a magnetic flux in said magnetic flux path linked with said stationary electrical coil means, means responsive to the axial deformation of said shaft for altering the value of said magnetic flux thereby changing the value of a voltage in said stationary electrical coil means in an amount indicative of the axial deformation of said shaft.

2,349,654
AQUEOUS SOLUTIONS OF PHENOLS AND THEIR HOMOLOGUES AND A METHOD OF MAKING THE SAME
Hans Goebel, Berlin-Reinickendorf, Germany, assignor to Sherka Chemical Co. Inc., Bloomfield, N. J., a corporation of New York
No Drawing. Application February 21, 1941, Serial No. 379,952. In Germany March 5, 1940
5 Claims. (Cl. 167—31)

1. Process for preparing solutions of phenols and of their halogenated derivatives, comprising dissolving the phenol in an aqueous solution of a soluble condensation product of an amino sulfonic acid, formaldehyde, and a member of the group consisting of phenols, and secondary alcohols.

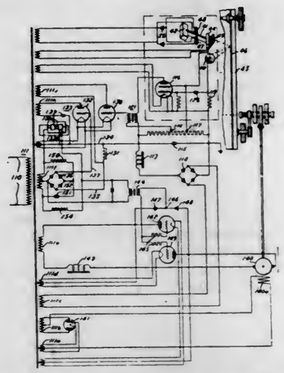
2,349,655
SWITCH
Martin B. Grout, Chicago, Ill., assignor to Jefferson Electric Company, Bellwood, Ill., a corporation of Illinois
Application August 7, 1942, Serial No. 453,978
8 Claims. (Cl. 200—161)



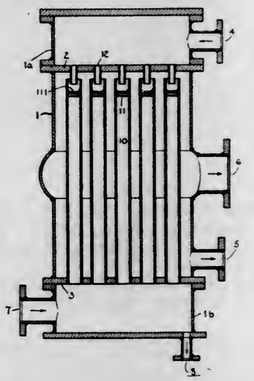
1. A switch for controlling a plurality of circuits provided with a casing comprising a plurality of mating sections secured together in side-by-side relation and each provided with a cam chamber, at least two of said sections each having a wall provided with a passage for oscillatably journallizing therein a shaft extending transversely of said walls, a shaft journalled in each of said sections and extending through the respective cam chambers, a cam in each of said chambers operable by said shaft in moving from a normal position, one of said cams being keyed to said shaft so as to oscillate therewith, and means to prevent reverse rotation of another of said cams as said shaft moves toward normal position, a drum chamber provided between two of said adjacent casing sections, a drum in said drum chamber mounted on said shaft and provided with a flexible member extending to the exterior of the casing whereby the drum can be operated manually to move said shaft arcuately from said normal position, a spring in said drum chamber biasing said shaft toward normal position and arranged to return the same to said position, and contacts in each of said cam chambers arranged to be connected in a circuit to be controlled by the respective cams upon operation of the said shaft by said flexible means.

2,349,656
REGISTER CONTROL SYSTEM
Finn H. Gulliksen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1939, Serial No. 293,724
3 Claims. (Cl. 88—14)

1. In a register control system for a traveling web of sheet material having an index line thereon and in which a regulating means automatically moves said sheet material so as to maintain said index line at a definite relative position, in combination, control means comprising a photo-tube, a light source whose rays first strike said sheet material on and adjacent said index line and then strike said photo-tube, polarized synchronizing apparatus comprising, in combination, a reed, an alternating current source, magnetic means energized by said source, rectifier means in circuit relationship with said magnetic means and source and effective to cause vibration of said reed at a frequency corresponding to that of said source, said reed being adapted to move across the light beam issuing from said lamp and to sweep across said beam from one side to the other, periodically, of said index line, the relative position at which said index line is crossed being a control indication of the direction and magnitude of correction which must be imposed in order to maintain the index line in its normal position.



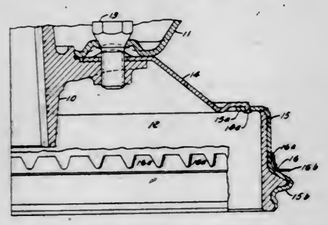
2,349,657
TUBULAR FILM EVAPORATING APPARATUS
Carl Maximilian Axel Hermelin, Ulvsunda, Stockholm, Sweden, assignor to Aktiebolaget Rosenblads Patents, Stockholm, Sweden
Application October 25, 1940, Serial No. 362,761
In Sweden October 26, 1939
4 Claims. (Cl. 159—13)



3. In an evaporating apparatus, a substantially horizontal liquid distributing plate member formed with an opening therethrough, a tubular member providing an exterior evaporating surface, means for closing the upper end of said tubular member, means rigidly secured to the lower part of said tubular member for supporting it in a vertical position with the closed upper end thereof directly below said opening, means for introducing a heating medium into the lower end of said tubular member, and an outwardly

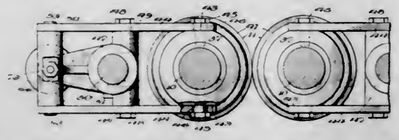
flanged rigid element associated with the upper end of said tubular member and extending into said opening for guiding liquid flowing through said opening to the exterior of said tubular member, said rigid element being fixed to one of said members and the flanges thereof being in vertically slidable contact with the other of said members to thereby maintain the upper end of said tubular member in alignment with the opening in said plate member while permitting vertical expansion and contraction of said tubular member with respect to said plate member and permitting flow of fluid between the exterior of said element and said other of said members..

2,349,658
BRAKE DRUM
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application June 7, 1941, Serial No. 396,976
15 Claims. (Cl. 188—218)



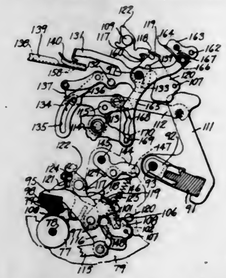
1. The combination with a brake drum ring of a vibration dampener therefor comprising an annulus mounted upon the external surface of the ring, said annulus including a relatively flexible portion and a relatively nonflexible portion, said relative ly flexible portion resiliently engaging the external surface of the ring in circumferentially spaced zones and having a normal minimum internal circumference slightly less than the circumference of the engaged portion of the ring, said relatively non-flexible portion serving to reinforce the relatively flexible portion and maintain it in close fitting engagement with the ring said annulus being secured to said ring solely by means of the resilient engagement of the ring by said relatively flexible portion of the annulus.

2,349,659
WEB PROPELLING ROLLER
William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., Bronx, N. Y., a corporation of New York
Application March 5, 1941, Serial No. 381,907
21 Claims. (Cl. 271—2.3)



1. A pair of cooperating web propelling rollers each including, a driven shaft, a plurality of web feeding units secured to and rotatable with the shaft, each feeding unit having a plurality of independently yieldable traction members operably supported thereby and the outside diameter of each traction member being greater than the outside diameter of its supporting unit, the traction members of each roller independently cooperating with the traction members of the other roller to propel webs therebetween in such manner that certain traction members may engage and propel a different number of webs than others.

2,349,660
CASH REGISTER
Daniel K. Hughes, Dayton, Ohio, and Joseph J. Klosterman, deceased, late of Dayton, Ohio, by Mary Klosterman, executrix, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 23, 1942, Serial No. 444,222
3 Claims. (Cl. 101—93)
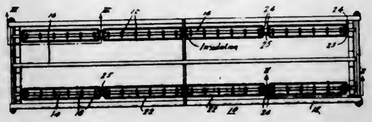


3. In a machine of the class described, having a plurality of operating keys; a plurality of type wheels differentially adjustable under control of said keys; and a coupler associated with said keys and adapted to be actuated thereby, the combination of a receptacle for receiving an insertable slip; a lever; connecting means between said coupler and said lever for rocking the lever upon actuation of the coupler; pivotally mounted impression means operable to take an impression from said type wheels to print the same on an inserted slip; a spring normally urging said impression means into cooperative relationship with said type wheels; a pivotally mounted arm operatively connected to said impression means and provided with a flange; a pawl pivotally mounted on said lever and movable therewith, said pawl being provided with a shoulder normally engaging said flange so that upon pivotal movement of the lever the shoulder will normally coact with the flange on said arm to rock the arm, together with the impression means, against the action of the spring; means to rock the pawl on its pivot until the shoulder clears the flange, whereupon said spring rocks said impression means into cooperative relationship with the type wheels; a notch in said pawl; and means for coacting with said receptacle which, when the machine is operated without a slip in said receptacle, coacts also with the notch in said pawl to rock the latter to cause the shoulder thereon to move beneath the flange on the arm to render the impression means inoperable.

2,349,661
STERILIZATION OF SHOES AND SHOE LEATHER
Lawrence H. James, Silver Spring, Md.
No Drawing. Application March 12, 1942, Serial No. 434,361
6 Claims. (Cl. 21—56)

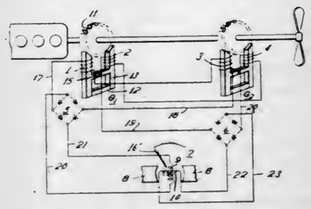
1. The method of destroying active micro-organisms contaminating a product disposed within a closed space which comprises drawing a vacuum within said space and supplying an atmosphere of superheated steam to such space at a sterilizing temperature not substantially below 160° F. and not substantially above 190° F., and maintaining the product in such atmosphere for a sterilizing period.

2,349,662
ELECTROPLATING CELL
Thomas J. Keating, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 8, 1941, Serial No. 373,545
3 Claims. (Cl. 204—252)



1. In an electrolytic cell including an electrolyte, anode supports, and an anode suspended in the electrolyte, the anode depositing a sludge during operation of the cell, a metallic retainer surrounding the anode for catching the sludge comprising, in combination, a pan below the anode, a rim member about the anode extending through the surface of the electrolyte, suspension means electrically insulated from the anode supports for supporting the pan and rim from the anode supports, and a fine metallic screen attached to the edges of the pan and extending upwardly and attached to the portion of the rim member below the surface of the electrolyte, the metallic screen being of a fineness sufficient to function by itself to substantially prevent the passage of sludge therethrough, the pan, rim member, suspension means, and the screen being composed of metal inert to the electrolyte.

2,349,663
TORSIONAL MEASURING DEVICE
Bernard F. Langer, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 17, 1942, Serial No. 439,335
5 Claims. (Cl. 265—25)



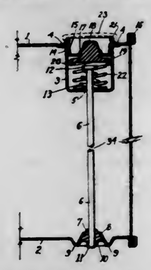
1. In a system for measuring torsional movements in a driven shaft having a pair of generators operatively connected to the shaft so as to change their phase relationship when torsional movements of the shaft exist, the combination of, a first and a second coil in each generator, a plurality of rectifiers, a ratio-type direct-current instrument having two moving coils, circuit means, including the first coil of one generator connected in an additive relation to the first coil of the second generator, connected to one instrument coil through one of said rectifiers, and second circuit means, including the second coil of one generator connected in subtractive relation to the second coil of the second generator, connected to the second instrument coil through another of said rectifiers, whereby a reading responsive to the torsional movements of the shaft is obtained independent of the magnitude of voltages generated and of the speed of rotation of the shaft.

2,349,664
FRAME FOR MEASURING BODY POSTURE
Fred G. Leighty, Birmingham, Ala.
Application March 11, 1943, Serial No. 478,780
2 Claims. (Cl. 33—174)



1. A frame for measuring body posture comprising a platform, bars at the base thereof, means attaching the platform to the bars at opposite sides thereof, said bars extending rearwardly beyond the platform, a vertical arched frame rising from said bars adjacent the rear end of the platform, a pair of heel pockets secured to said platform at a location at the rear thereof crossed by the plane of said frame, and a vertical line member suspended centrally from the frame in the rear of the pockets and concentrally with respect thereto.

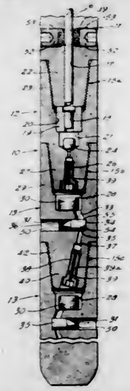
2,349,665
LIQUID DISPENSING CONTAINER
Jacob D. Levit, Brooklyn, N. Y., assignor to Sidney S. Rand, New York, N. Y.
Application January 30, 1941, Serial No. 376,568
5 Claims. (Cl. 222—487)



1. In a container for liquids of the type having a plurality of opposed, spaced plane walls, a liquid outlet valve arranged in one wall and having a control element thereof projecting into the container interior, means biasing said valve into closed position, an air inlet valve located in a second wall opposite to said one wall, said inlet

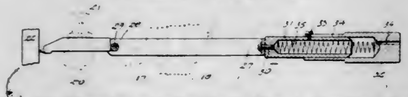
valve being located entirely below the plane of the second wall and having no portion thereof projecting beyond the plane of the second wall, means biasing said inlet valve into closed position, said inlet valve having an actuating element normally spaced from, and independent of, said control element, and said control element being so arranged relative to said air inlet valve actuating element that actuation of the latter to admit air into the container interior results in pressure on said control element and causes said outlet valve to open.

2,349,666
PERFORATOR GUN WITH IMPROVED PROJECTILE RESTRAINING MEANS
Ira J. McCullough, Los Angeles, Calif.
Application February 10, 1940, Serial No. 318,296
26 Claims. (Cl. 164—0.5)



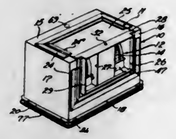
1. In a perforating means of the character described, the combination of: a projectile; a gun barrel to receive said projectile at the inner end thereof and to guide the same through its outward travel; means connected to the inner end of said barrel to supply propelling gases thereto; and wall means cooperating with the rear portion of said projectile so as to form a chamber adjacent the rear end face of said projectile, said chamber having an entrance opening for flow of propelling gas into said chamber, said entrance opening transecting said chamber in advance of its rear end wall being of such small size as to retard the building up of gas pressure in said chamber, and the walls of said entrance opening being formed in part by the rear end of said projectile so that as said projectile moves outward the size of said entrance opening will increase.

2,349,667
AUTOMATIC HEIGHT GAUGE TAPPER
John F. McQuillan, Sr., East Orange, N. J.
Application May 7, 1942, Serial No. 442,109
3 Claims. (Cl. 33—189)



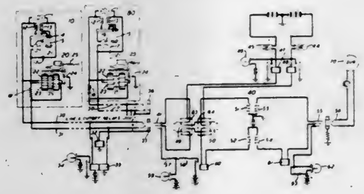
1. In tapper mechanism for a center punch mounted on the slide of a gauge, a tapper, and means on the tapper having an opening whereby it may embrace the slide and contact the punch upon delivery of a blow imparted to the tapper.

2,349,668
BLOWER
William M. Marker, Los Angeles, and Andrew G. Orear, Glendale, Calif., assignors to Trade-Wind Motorfans, Inc., Los Angeles, Calif., a corporation of California
Application August 2, 1940, Serial No. 349,387
10 Claims. (Cl. 98—43)



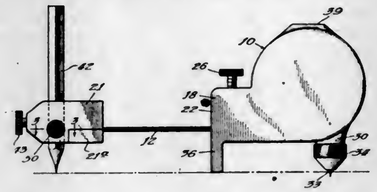
1. A blower for installation in a ceiling space, or the like, comprising a case to be fixed in said space and having an open lower end and having openings in its top and a side, a motor and blower wheel unit insertable in the case from its lower end and including a blower housing having an inlet and an outlet, means for supporting the unit in the case in either of two positions to have said outlet communicate with the opening in the case top or the opening in the case side and to have said inlet communicate with the interior of the case in both positions, a discharge fitting adapted for arrangement at either of said openings, and means for securing the fitting to the case at either of said openings.

2,349,669
TELEPHONE SYSTEM
John M. Melick, Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 13, 1941, Serial No. 406,573
10 Claims. (Cl. 179—6.3)



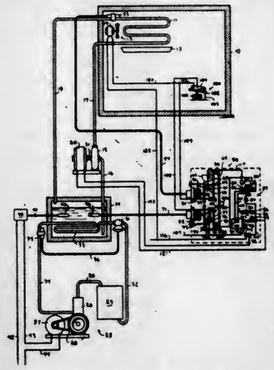
4. In a telephone system, a central office, a coin payment station for connection to said central office over transmission lines of minimum and maximum resistances, a transmission circuit established over one of said lines from a central office current source, coin collect and refund circuits established over said line from central office positive and negative coin control current sources, a coin collect and refund relay in said station so arranged in said circuits as to produce a wide margin between its non-operate and operate characteristics to effect its operation over maximum transmission lines, said relay having a first winding and a second winding so related to said transmission circuit that the second winding opposes the energizing effect of current flowing through the first winding before a deposited coin has been collected or refunded to reduce the resultant flux and accordingly reduce the non-operate requirement for said relay and to aid the operating characteristic of said relay in said coin collect and refund circuits.

2,349,670
COMBINATION COMPASS AND MEASURING INSTRUMENT
Fred W. Moxey, Aurora, Ill., assignor to American Molded Products Co., Chicago, Ill., a corporation of Illinois
Application June 29, 1942, Serial No. 449,005
9 Claims. (Cl. 33—27)



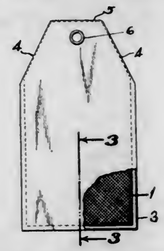
1. In a device of the character described, including a housing, a graduated measuring tape coiled in said housing, said housing being provided with an opening through which said tape is fed into and out of the housing, means associated with said housing, adjacent said opening, for releasably securing said tape at a desired position of extended adjustment, a head secured to the free end of said tape and formed for supporting a marker means, and a pivot pin carried by the lower portion of the housing and adapted to be seated in a surface, whereby said housing, tape and head may be moved as a unit about the axis of said pivot pin to permit said marker means to describe an arc on said surface; the improvement characterized by the provision of a leg extending downwardly from the bottom of the housing, in spaced relation to the pivot pin, and adapted to be seated for sliding engagement on said surface and serving to assist in stabilizing said housing in upright position when the pivot pin is seated in said surface.

2,349,671
CONTROL OF REFRIGERATION
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 23, 1940, Serial No. 371,352
17 Claims. (Cl. 62—6)



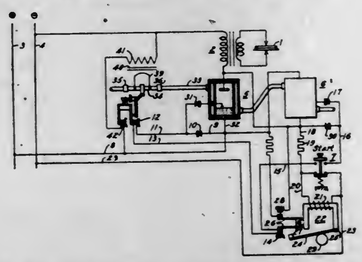
15. A system of the character described comprising in combination, a space to be cooled, a cooling coil for cooling said space, means conducting cooling fluid to said coil for circulation therethrough, said fluid being of a type which does not change its physical state under normal operating temperatures of said coil, and means for defrosting said coil, said defrosting means including means for stopping circulation of fluid through said coil when the temperature of the fluid leaving said coil is so low as to indicate a frosted condition of the coil and preventing such circulation until the temperature of the fluid has risen to a value indicating that the coil has been defrosted.

2,349,672
PACKAGE
Svend H. Nielsen, San Francisco, Calif.
Application October 11, 1943, Serial No. 505,869
2 Claims. (Cl. 299—24)



1. A package for the purpose described comprising an inner porous bag for holding an evaporable material and an imperforate envelope enclosing the inner bag, the said bag and envelope being closed at their upper sides and fastened together by common securing means whereby the inner bag and its contents may be supported from a common support along with the envelope or independently of the envelope if the latter be entirely removed from its normal position enclosing the inner bag.

2,349,673
THERMOSTATIC PROTECTION OF IGNITION TUBES
Robert W. Pearson, Wilkinsburg, Pa., and Donald E. Marshall, Allwood, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1941, Serial No. 394,307
16 Claims. (Cl. 250—27.5)



6. A cooling system for electric discharge tubes comprising, in combination, an electric discharge tube, a fluid conducting conduit system for passing a cooling fluid for cooling a portion of said tube, said conduit system including a conduit portion spaced from said tube and having appreciable electrical resistance, a control system including said tube and including a transformer having primary and secondary windings, said con-

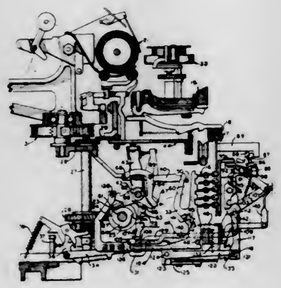
duit portion forming an electrically heated resistance path across said secondary winding, a thermal responsive relay element mounted adjacent said conduit portion and being responsive to changes of temperature of said tube portion resulting from changes in the rate of flow of said fluid therethrough, and contact members operable by said relay element to interrupt said control system upon occurrence of a predetermined retardation in the rate of flow of said cooling fluid.

2,349,674

PRINTING TELEGRAPH APPARATUS

Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application August 13, 1942, Serial No. 454,680
22 Claims. (Cl. 178—25)



22. In a recorder, a single magnet in said recorder responsive to code combinations of signaling impulses, an entirely mechanical permutation code bar selector mechanism integrally embodied in said recorder and controlled solely by said single magnet, a carriage movable normally one character space for each recording operation, a tabulator mechanism in said recorder directly associated mechanically with said selecting mechanism, said tabulator mechanism comprising a tabulator bar cooperatively associated with said carriage, a plurality of stop elements carried on said bar, each stop element identified individually with a character spacing position of said carriage, a stop setting projection on said carriage cooperable with said stop elements, means controlled by said selector mechanism and cooperable with said stop setting projection for selectively positioning said stop elements for cooperation with said carriage, and means controlled by said selector mechanism for causing said carriage to pass uninterruptedly through a plurality of spaces at a time under the control of said stop elements.

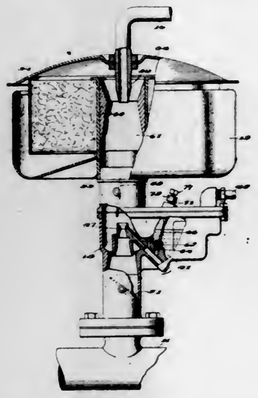
2,349,675

CHARGE FORMING SYSTEM FOR INTERNAL-COMBUSTION ENGINES WITH REUSE OF EXHAUST GASES

George L. Pratt, Atlanta, Ga., assignor to Motor Power, Inc., Atlanta, Ga., a corporation of Georgia

Application October 13, 1941, Serial No. 414,870
26 Claims. (Cl. 123—119)

19. A charge forming system for an internal combustion engine including a centrifuge having a helical centrifuging passage receiving the exhaust gases from the engine, a carburetor connecting with the engine and subject to the engine intake suction having fuel injecting means and an air intake, a conduit having an inlet end extending centrally of the centrifuge and having an outlet end delivering into the carburetor and subject to the effective suction in the carburetor, said conduit inlet end having ports through the wall thereof communicating with convolutions of the helical passage and extending at an inclination inwardly in the forward direction of flow of gases around the helical passage, said ports providing for the withdrawal of centrifuged portions of the exhaust gases from the inner portion of the centrifuge passage into the conduit for delivery to the carburetor under the effective suction



in the carburetor, a liquid fuel supply delivering to the fuel injecting means in the carburetor, metering means controlling the quantity of fuel delivered from the said supply to the fuel injecting means, said metering means having a metering opening capable of delivering liquid fuel to the fuel injecting means in greater quantity than suitable to form a charge with the air and exhaust gases of suitable proportions, and means for delivering air through the metering opening together with the liquid fuel so as to restrict the liquid fuel delivered to the fuel injecting means to the quantity required for admixture with the exhaust gases and air into a suitable operating charge for the engine.

2,349,676

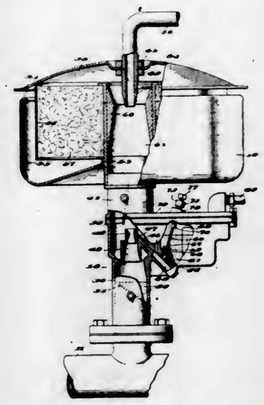
CARBURETING APPARATUS

George L. Pratt, Atlanta, Ga., assignor to Motor Power, Inc., Atlanta, Ga., a corporation of Georgia

Application October 13, 1941, Serial No. 414,872
1 Claim. (Cl. 261—16)

In an internal combustion engine carburetor, a mixing chamber, a main air intake delivering air to the mixing chamber, a liquid fuel delivery nozzle extending into the mixing chamber, a liquid fuel reservoir, a fuel delivery passage connecting the lower portion of the fuel reservoir and said fuel delivery nozzle, fuel economizing means diminishing the liquid fuel required to be delivered through said fuel delivery passage to the mixing chamber to form a combustible charge, said fuel economizing means comprising a second nozzle adapted to deliver charge forming components of the engine exhaust gases to the mixing chamber for admixture with the fuel and air, submerged fuel metering means in the

fuel delivery passage having an opening of larger area than required to deliver the quantity of fuel necessary for the combustible charge, the size of said opening decreasing the likelihood of clogging of the opening by foreign matter such as may be delivered with the fuel, and means for restricting the quantity of liquid fuel delivered through said



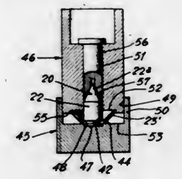
metering opening to the quantity of fuel required by the charge formed with the air and exhaust gas components, and comprising a needle valve having an air delivery passage therein delivering air for passage through the metering opening with the fuel and being adjustable to vary the ratio of fuel to air passing through the metering opening.

2,349,677

METHOD OF MAKING PROJECTILES

Waldo S. Reynolds, Los Angeles, Calif., assignor to Ira J. McCullough, Los Angeles, Calif.

Application October 31, 1939, Serial No. 302,160
7 Claims. (Cl. 29—1.22)



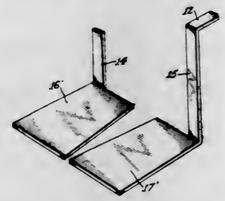
1. A method of making a projectile of the character described having a collar spaced from its inner end, comprising: forming a projectile body with an annular groove in its circumferential face; forming a dished washer having an opening of such size that said washer may be placed on said body with its opening coinciding with said groove; flattening said dished washer so as to contract the annular portion thereof surrounding said opening into said groove, whereby said washer will be secured in said groove and form a collar projecting from said projectile body; and fusing layers of relatively soft metal on the inner end of said projectile so that the same will cover the front and rear faces of said collar and the portion of said body adjacent the front face of said collar.

2,349,678

ELECTRIC SALT BATH FURNACE

Harry A. Rolnick, Philadelphia, Pa., assignor to Rolnick Testing & Manufacturing Co., Philadelphia, Pa.

Application July 17, 1943, Serial No. 495,132
4 Claims. (Cl. 13—23)



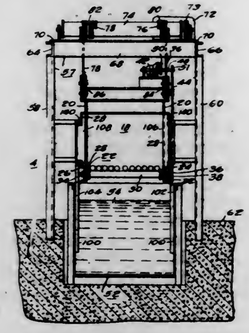
1. An electric salt bath furnace comprising a plurality of electrodes for passing current through the bath and adapted to be connected to a source of current supply, said electrodes having portions extending downwardly toward the bottom of the bath and having portions connected to said first portions and extending in a single plane substantially parallel to the bottom of the bath, said last named portions being positioned with their adjacent edges relatively close to generate large currents and produce vigorous thermal circulation.

2,349,679

HEAT TREATING APPARATUS

Willard Roth, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 11, 1941, Serial No. 388,055
4 Claims. (Cl. 266—4)



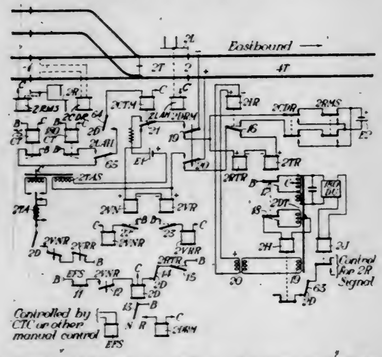
1. Heat-treating means comprising roller means having a plurality of spaced rollers in file arrangement capable of translating a charge thereon substantially transversely to the roller axes, adjacent ones of said rollers being substantially parallel, said plurality of rollers comprising a first portion and a second portion, means for heating a charge on said first portion of said rollers, quench tank means adapted to contain a quenching liquid, underneath said second separate portion of said rollers, moving means for lowering said rollers of said second portion into said quench tank means and for raising them out of the quench tank means back into file arrangement with the other of said rollers, for the quenching of a charge on said second portion of

said rollers, said moving means comprising supporting means for said rollers of said second portion for maintaining them substantially level and parallel to the rollers of said first portion during the raising and lowering thereof, and means lowerable and raisable with said rollers for oscillating the rollers in said second portion of said rollers about their respective axes while in said quench-tank means.

2,349,680
RAILWAY TRAFFIC CONTROLLING APPARATUS

Charles B. Shields, Petersburg, Va., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application March 19, 1941, Serial No. 384,106
10 Claims. (Cl. 246—3)

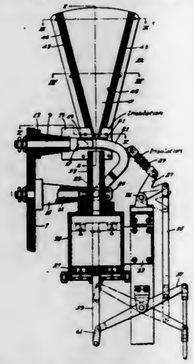


1. In combination with a stretch of track over which traffic may move in either direction, said stretch being divided into a plurality of track circuit sections, an eastbound and a westbound polarized traffic direction selector at the respective ends of said stretch, a polarized traffic direction relay at the junction of each pair of said track circuit sections, an eastbound and a westbound headblock signal at the respective ends of said stretch, means governed by said westbound selector when occupying its normal position for supplying coded current of normal relative polarity to the end track circuit at the westbound end and for maintaining said westbound signal at stop, means for cascading said coded current over the remaining track circuits of said stretch to the eastbound end, means effective when said eastbound selector occupies its normal position and said coded current is effective in the section at said eastbound end for conditioning said eastbound signal to display its proceed indication, means at said eastbound end effective for supplying feed back code impulses to said end track circuit during the "off" intervals of said coded current to maintain the adjacent traffic direction relay in its normal position, means including said last-mentioned relay for cascading said feed back code over the remaining track circuits to said westbound end to maintain the remaining traffic direction relays in their normal position and provide approach energization for eastbound traffic moving over said stretch, and means effective upon a reversal of said westbound selector from its normal to its reverse position for supplying an impulse of reverse relative polarity to the section at said westbound end to reverse all of said traffic direction relays including said eastbound selector in sequence to thereby place said eastbound signal at stop and condition said westbound signal to display its proceed indication.

2,349,681
CIRCUIT INTERRUPTER

Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 24, 1941, Serial No. 394,981
6 Claims. (Cl. 200—148)

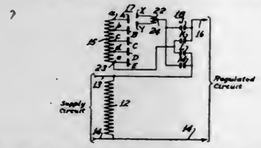


1. In a circuit interrupter, means for establishing an arc, means for extinguishing said arc comprising means at least partially of insulating material defining a slot-like arc passage, and means for moving said arc laterally within said arc passage, said means of insulating material being so arranged that said passage decreases in width in the direction of arc movement and increases dimensionally generally longitudinally of the arc at a rate to maintain a substantially constant cross-sectional area of passage throughout the length of the arc passage.

2,349,682
ELECTRICAL APPARATUS

Franklin L. Snyder, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 10, 1942, Serial No. 461,574
8 Claims. (Cl. 171—119)



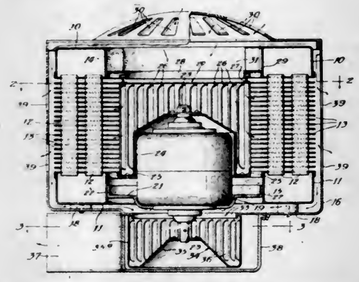
1. Apparatus for changing tap connections between a circuit conductor and a selected one of a plurality of tap conductors connected to a winding for adjusting the portion of the winding that is included in an electric circuit comprising, in combination, tap changing means which include a plurality of stationary switch contact segments respectively connected with the winding tap conductors and mounted in spaced straight line relation, cooperating switch contact fingers, a movable member for supporting said fingers in engageable relation with the conducting segments, and a tap switch operating shaft adapted to parallel said line of contact segments and to threadedly engage said movable member in a manner that when rotated it shifts the contact fingers through their extreme position at one end of the line of the plurality of segments in which the winding portion in active

circuit is zero, means, comprising switches, for reversing the winding in its connection with the circuit, a reversing switch actuating shaft, means comprising a Geneva gear connection between said two shafts, whereby a movement of the tap switch operating shaft through the position in which the active portion of the winding is zero effects a switch actuating movement of the reversing switch actuating shaft, and means for driving the tap switch operating shaft comprising a driving shaft and a second Geneva gear connection between the driving shaft and the tap switch operating shaft for effecting a quick movement of the switch contact fingers from engagement with one set of contact segments to engagement with another set of contact segments through a relatively small movement of rotation of the driving shaft.

2,349,683
HEAT EXCHANGE DEVICE

Philmore F. Sperry, Chicago, Ill., assignor to Excel Auto Radiator Company, Chicago, Ill., a corporation of Delaware

Application June 16, 1941, Serial No. 398,247
3 Claims. (Cl. 257—137)



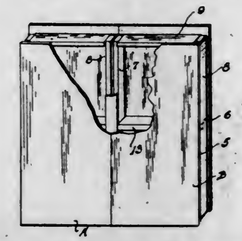
3. A heat exchange device comprising a radiator core of arcuate shape providing a central opening and having air passages extending from said central opening outwardly to the periphery of the core, connections for circulating hot water through the core, a centrifugal type fan mounted in said central opening, a motor in said central opening driving said fan, a housing about said core and fan having an air inlet to said central opening and having air outlet means in the portion thereof outwardly of the periphery of the core, said housing having an air outlet in the face thereof opposite said air inlet, a booster fan at said outlet driven by said motor and adapted to draw part of the air from said housing after it has passed through the core, and means cooperating with said motor and core to prevent passage of air directly from said central opening to said air outlet.

2,349,684
CONSTRUCTION JOINT

James H. Stannard and Eric G. Janke, Salt Lake City, Utah

Application May 3, 1941, Serial No. 391,752
4 Claims. (Cl. 20—4)

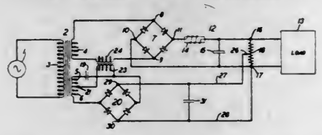
1. A construction joint comprsing panels made of inner and outer boards spaced apart by a framework of horizontal joists and vertical joists with the vertical joists secured spaced in from the vertical edges of abutting ends of the panels and spaced from the panels on both edges of the joist; and binding strips secured in the space on each side of the joists spaced apart by the vertical joists, one of the strips overlapping and secured to adjacent edges of a pair of panels, and the other strip overlapping and secured to adjacent edges of the other panels.



2,349,685
RECTIFYING SYSTEM

David E. Trucksess, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 12, 1942, Serial No. 434,346
6 Claims. (Cl. 175—363)



1. A self-regulating rectifying system for converting alternating current energy into unidirectional current energy comprising a rectifier having an alternating current input circuit and a unidirectional current output circuit including terminals to which a unidirectional current load may be connected, alternating potential regulating means connected in the input circuit to cause an alternating electromotive force to be applied thereto to augment or oppose the electromotive force applied to the rectifier input circuit as the rectified unidirectional potential across the output circuit terminals falls or rises respectively, and means electrically connected to the output terminals and connected in energy control relation to the alternating potential regulating means for reversing the phase of the alternating electromotive force applied by the regulating means whenever the load potential of the rectified unidirectional current passes through a predetermined normal value whereby the unidirectional potential difference between the output terminals tends to remain substantially constant.

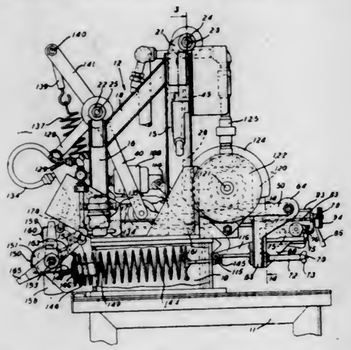
2,349,686
CUTTING APPARATUS

Daniel V. Waters, Flemington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 10, 1941, Serial No. 397,361
4 Claims. (Cl. 125—13)

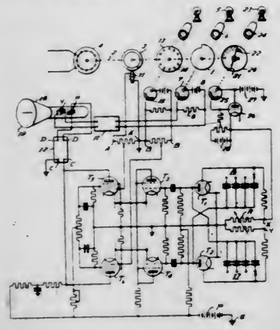
1. In a cutting apparatus, a rotary cutting element, a table to support work to be cut by the element, an operable mechanism connected to the table, a spring having a given starting force diminishing when utilized to actuate the mechanism, and means operatively connecting the spring to the mechanism and adapted to convert the diminishing force received thereby from the spring into a constant force transmitted

thereby to the mechanism to cause operation of the mechanism to move the table in a direction



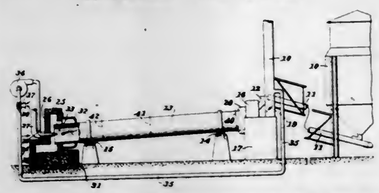
to feed the work to the element under a constant force to cause the element to cut through the work.

2,349,687
ELECTROMAGNETIC-INSPECTION SYSTEM
Clifton S. Williams, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1942, Serial No. 442,778
4 Claims. (Cl. 175—183)



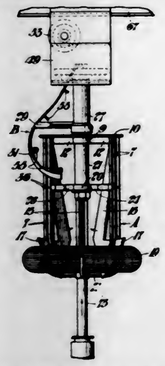
3. In an electromagnetic inspection system for inspecting a test piece, in combination, an oscilloscope having conventional horizontal and vertical plates for controlling the beam sweep of the oscilloscope, a rotatable electromagnetic test piece, an electromagnetic flaw detector disposed adjacent the test piece to generate a voltage cycle at each revolution of the test piece indicative of the magnetic characteristics of the test piece, a calibrating generator producing a plurality of sharp voltage impulses at successive equal changes in angular position of the test piece during its rotation, switching means, means coupled to said test piece for producing an electrical impulse upon a predetermined rotational position of said test piece for synchronizing the switching of said switching means with the voltage cycle of said electromagnetic flaw detector, said switching means being operable to connect said electromagnetic flaw detector to said horizontal plates at the end of each odd revolution of the test piece and operable to connect said calibrating generator to said horizontal plates at the end of each even revolution of the test piece, and means coupled to rotative movements of said test piece for producing a saw-tooth voltage impulse and applying said voltage impulse to said vertical plates whereby the horizontal sweep is synchronized with the voltage cycle of said electromagnetic flaw detector.

2,349,688
METHOD OF PRODUCING LOW CARBON IRON OR STEEL
Flavius C. Wood, Jr., Washington, D. C.
Application July 28, 1942, Serial No. 452,625
15 Claims. (Cl. 75—38)



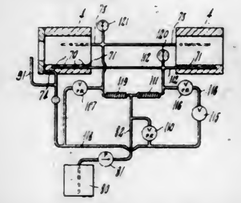
1. A process for the production of low carbon iron or steel directly from iron ore, which comprises mixing the ore with slag forming flux materials in the absence of carburizing agents, feeding the mix through a rotary kiln at a temperature to form a molten, semi-liquid slag from said materials, maintaining a reducing atmosphere in a portion of the kiln and thereby converting the iron oxide in the ore into minute particles of metallic iron, and continuously agitating the molten slag and the particles of metallic iron and thereby causing said particles to agglomerate into globules or pellets in said molten slag as a matrix.

2,349,689
CONTINUOUS TYPE PAYOFF REEL
Wilfred O. Aldrich, Lakewood, Ohio, assignor to The American Steel & Wire Company of New Jersey, a corporation of New Jersey
Application February 17, 1942, Serial No. 431,302
13 Claims. (Cl. 242—128)



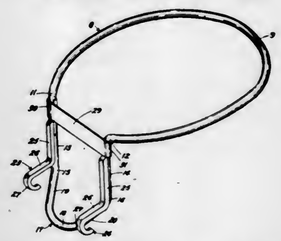
2. Mechanism for holding and unwinding loose bundles of wire or the like, comprising, in combination, holding mechanism for receiving and holding the said loose bundle, the said holding mechanism comprising suspended arms depressible relative to each other responsively to placement of a loose bundle of wire on the holding mechanism, the said arms returning to holding position when the bundle is placed thereon, wire-dispensing means associated with the holding mechanism for receiving wire therefrom, and mounting instrumentalities for the dispensing means allowing the dispensing means to revolve about the holding mechanism responsively to wire being pulled from the bundle.

2,349,690
BEARING LUBRICATION
Merton H. Arms, Springfield, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont
Original application July 7, 1938, Serial No. 217,886. Divided and this application May 27, 1939, Serial No. 276,179
8 Claims. (Cl. 308—122)



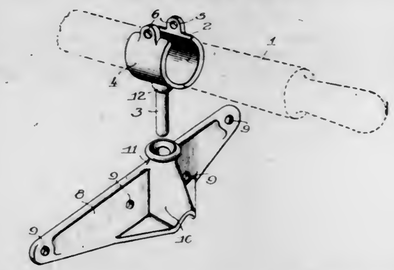
1. In combination, a bearing sleeve, a shaft rotatably supported in said sleeve, said bearing sleeve having lubricating openings therein, pipe connections leading to said openings, means for forcing lubricant through said pipe connections and openings toward said shaft, means in said pipe connections for limiting the flow of lubricant therethrough, and pressure limiting means in said pipe connections, said pipe connections also including valve controlled by-pass connections around said flow limiting means by which said flow limiting means may be rendered inoperative while the pressure of lubricant entering said openings is controlled by said pressure limiting means.

2,349,691
STRAINER HOLDER
Albert Amstutz, Bowling Green Township, Marion County, Ohio
Application February 12, 1944, Serial No. 522,111
4 Claims. (Cl. 248—94)



1. A bracket for the purposes described, comprising an open loop member, straight members depending from the free ends of the loop member, a bowed end member connecting the lower extremities of the straight members and disposed in a plane acutely angular to the common plane of the said straight members, and a bracket support fastened to each straight member and terminating in an end hook, said hooks being disposed above and in spaced relationship with the said bowed end member.

2,349,692
OARLOCK
Chester Sig Anderson, St. Charles, Ill.
Application December 31, 1941, Serial No. 425,070
1 Claim. (Cl. 9—26)



In an oar lock for a boat a clamping member adapted to be clamped upon the shaft of an oar at any desired distance from the handle thereof and having a depending post, a bracket member to receive said post having two of its side walls guiding said post for oscillatory movement in a single plane and the other walls so spaced as to provide a downwardly flared opening.

2,349,693
CARBON PAPER SUPPORT FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application May 1, 1942, Serial No. 441,339
5 Claims. (Cl. 197—126)

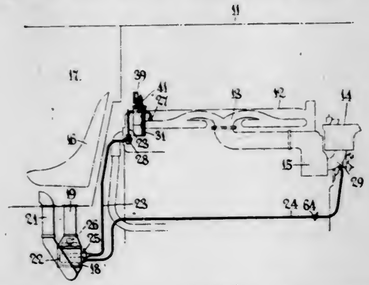


1. In a paper carriage having a platen, means situated above the platen for holding a sheet of carbon paper in printing position, said means comprising a plate, a bail pivoted on the plate, means normally urging the bail into contact with the plate to hold a sheet of carbon therebetween, a finger piece for rocking the bail away from the plate, and means on the bail for latching the bail in its rocked position.

2,349,694
HEATER
Charles Barr, Buffalo, and John F. Strickler, Jr., Kenmore, N. Y., assignors, by mesne assignments, to Stewart-Warner Corporation, Chicago, Ill.
Application October 6, 1941, Serial No. 413,800
1 Claim. (Cl. 237—12.3)

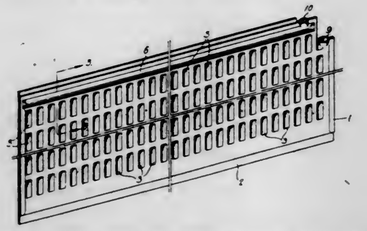
In combination with an internal combustion engine having an intake system including an intake manifold and a supercharger for forcing combustible fluid thereinto, a cabin heater comprising a hermetically sealed combustion chamber having an inlet for combustible fluid and an

outlet connected to the intake system of said supercharger for removing products of combustion from said combustion chamber, means for selectively venting said outlet to the atmosphere, a tank for fuel and compressed air, the fuel in said tank being maintained under the pressure of the compressed air, means for connecting said tank to a source of compressed air, including a control valve, a mixing valve in said tank for admixing fuel and air in combustible ratio, valve



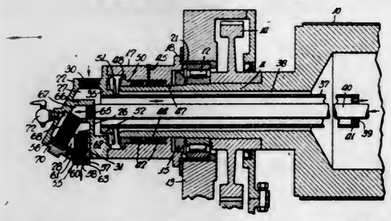
means for selectively connecting the combustion chamber inlet to the outlet of said mixing valve or to said intake manifold, whereby the heater may be operated when the engine is or is not operating, and valve means for controlling the flow of fluid through said combustion chamber, said source of compressed air providing the power for causing flow of the products of combustion through said venting means to the atmosphere when the apparatus is operated while the internal combustion engine is not in operation.

2,349,695
EVAPORATOR
Carson H. Beane, Philadelphia, Pa., assignor to Robert M. Green & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application June 23, 1942, Serial No. 448,108
4 Claims. (Cl. 62—126)



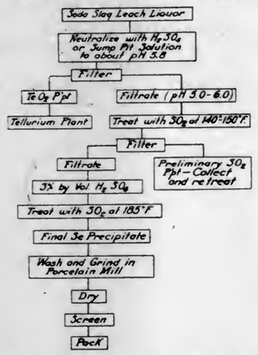
1. A plate evaporator comprising two quadrilateral flat metal sheets secured together in face to face relation, at least one of said sheets being embossed to provide a suction header between said sheets extending adjacent and along one edge of said evaporator, and at least one of said sheets being embossed to provide between the sheets a first group of relatively narrow elongated straight refrigerant passages extending in spaced parallel relation substantially perpendicular to the said suction header and communicating therewith and a second group of relatively narrow elongated straight refrigerant passages extending in spaced parallel relation substantially parallel to said suction header and intersecting the passages of said first group, the cross-sectional contour of each passage of both groups having its greatest dimension in a longitudinal median plane of the passage and diminishing at opposite sides of said plane toward opposite edges respectively of the passage and the cross-sectional areas of said passages being substantially less than the cross-sectional area of said suction header, and a refrigerant inlet to said passages independent of the suction header.

2,349,696
ROTARY STEAM JOINT
Herbert C. Behrens, Haddon Heights, N. J., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey
Application October 29, 1942, Serial No. 463,844
8 Claims. (Cl. 285—10)



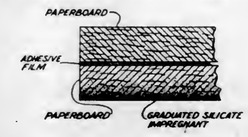
1. A steam joint for a hollow rotatable steam heated drum including a casing, a packing ring on the inner periphery of said casing adapted to sealably embrace the journal of said drum, a slidable pressure ring bearing against said packing ring and in communication with the steam admitted into said joint, and means for supporting said casing in fixed relationship to the axis of said drum.

2,349,697
ART OF PRODUCING SELENIUM
Nevin Richard Bierly, Avenel, N. J., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
Application January 4, 1941, Serial No. 373,147
4 Claims. (Cl. 23—209)



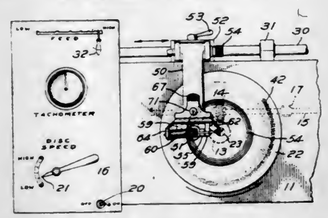
1. The method of producing selenium, which comprises adding acid to precipitate impurities such as tellurium from a solution containing selenium and said impurities until the resulting solution contains a slight excess of acid and has a pH between approximately 4 and less than 7, filtering said resulting solution, and treating the filtrate at an elevated temperature with acid capable of precipitating tellurium and selenium as oxides, precipitating additional tellurium as oxide and stopping the treatment with acid upon appearance of a red selenium precipitate.

2,349,698
FIBERBOARD
Ernest R. Boller, Hudson, and Raymond F. Remler, Lakewood, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 1, 1941, Serial No. 400,700
2 Claims. (Cl. 154—33.05)



2. In a process for producing corrugated fiberboard, the steps comprising treating at least one side of a paperboard, which it at least .004 inch thick, with a sodium silicate solution having a specific gravity of from about 10 to 30° Bé. and an SiO_2:NaO weight ratio of from about 3.00 to 3.50, controlling the distribution of the silicate in the paperboard so that the ratio between the percentage of sodium silicate in the outside .002 inch and the next lower .002 inch is from about 1.2 to 3.0, such control being accomplished by varying the silicate solution concentration inversely with the amount of size and directly with the moisture content and porosity of the paperboard, the total amount of silicate solution applied being equivalent to from about 1 to 5 pounds of 40° Bé. solution per thousand square feet of paperboard, corrugating the impregnated paperboard, and assembling it into a corrugated board.

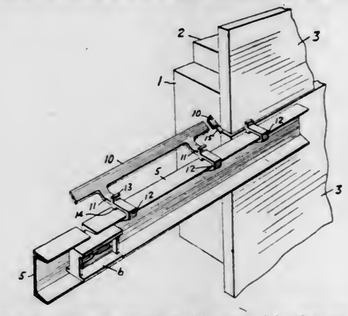
2,349,699
APPARATUS AND METHOD FOR TESTING PAINT FILMS
Ladislav Boor, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application September 25, 1942, Serial No. 459,623
5 Claims. (Cl. 73—51)



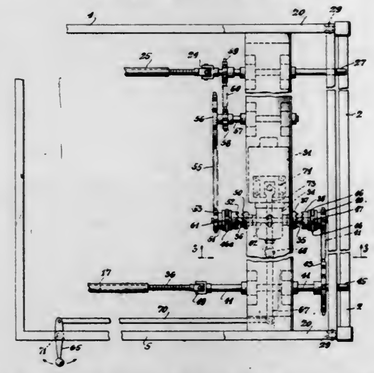
1. The method of measuring the drying and hardening properties of a paint film which comprises coating a disc with a paint film, rotating the disc in contact with a weighted, inked ball whereby an imprint of the ball is made on the paint film, measuring the width of the imprint and determining the hardness of the film therefrom.

2,349,700
FURNACE WALL CONSTRUCTION
William H. Boyd, Drexel Hill, Pa., assignor to General Refractories Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 13, 1941, Serial No. 418,868
6 Claims. (Cl. 72—101)

1. A furnace wall, comprising a horizontally extending angle member, a hanger comprising a rail having a transversely sloping upper surface and a plurality of spaced arms, each of which has a substantially horizontal intermediate portion and a hooked terminal portion engaging a flange of said angle member, insulating fire brick provided with a recess of greater depth than the width of said rail and a slanting upper surface resting upon said rail, and blocks or slabs of heat-insulating material of low thermal conductivity adapted to rest upon and be bound between said brick and said angle member by the weight of said brick sliding freely and adjustably upon said slanting surface.

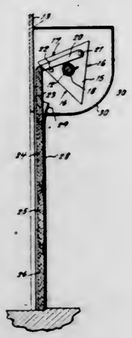


2,349,701
HOSPITAL BED
John W. Buttikofer, New Rochelle, N. Y.
Application June 26, 1941, Serial No. 399,851
2 Claims. (Cl. 5—69)



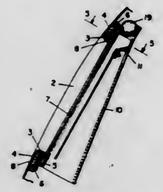
1. A compact unit for installation on commercial hospital beds which have a shaft for raising and lowering the foot of the bed and a second shaft for raising and lowering the head of the bed, in combination, a member adapted to extend transversely of the hospital bed and adapted to be attached to the sides thereof, a shaft mounted on said member, a device on said third-mentioned shaft adapted to be connected to operate the shaft for raising and lowering the foot of the bed, a second device on said third-mentioned shaft adapted to be connected to operate said shaft for raising and lowering the head of the bed, a reversible motor mounted on said transversely extending member, means including a member adapted to extend to a position adjacent the head of the bed for selectively connecting said motor to either of said devices, an electric cable adapted to extend to the head of the bed, and switch means at the end of the cable for operating said motor in either direction.

2,349,702
ROLL-UP DOOR
James F. Campion, Freeport, N. Y.
Application August 16, 1943, Serial No. 498,801
5 Claims. (Cl. 160—133)



1. In combination, a door comprising a plurality of panels mutually hinged together, a shaft rigidly mounted above the doorway and having a pair of spaced identical triangular flanges rotatably mounted thereon with each side of one of said triangles lying in the same plane as one side of the other of said triangles, the length of said panels exceeding the distance between said flanges, means pivotally secured partly on said flanges and partly on the uppermost of said panels suspending said uppermost panel from said flanges, said flanges being rotatable to wind said panels thereabout with the inner surfaces of the panels lying against the edges of said flanges.

2,349,703
LICENSE PLATE MOUNTING FOR AUTOS, ETC.
Clarence J. Carlin, Shaker Heights, Ohio
Application August 6, 1942, Serial No. 453,862
2 Claims. (Cl. 40—130)



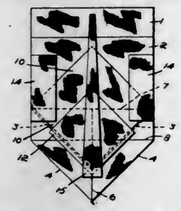
1. In an automative vehicle having an end compartment and a door giving access to such compartment, an opening in said door closed by a transparent sheet, an improved novel mounting for a license plate comprising a supporting plate mounted adjacent such opening and in substantially parallel relation with the transparent sheet supported in said opening, said supporting plate being provided with end portions bent toward such opening whereby it may be detachably mounted on said door and being provided with an integral offset bracket whereto a license plate may be demountably attached and also being provided with another integral off-set portion operative to support a lamp in a position to illuminate the face of the license plate and the interior of the compartment.

2,349,704
PAPER WITH IMPROVED SURFACE
John W. Clark, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts
Application July 12, 1939, Serial No. 284,088
12 Claims. (Cl. 92—68)



9. Paper product having compactness, density and printability characteristics at least equal to those of supercalendered paper, a surface of which paper product has been abrasively buffed, in the direction of the grain of the paper, by means of a polishing composition consisting essentially of powdered abrasive and a deformable carrier therefor, to produce a buffed surface characterized by a gloss, as measured on the Bausch & Lomb glossmeter, at least 10 points higher than the same paper would have if normally supercalendered and by being substantially less penetrable by varnish than the same paper would be if normally supercalendered, said buffed surface being further characterized by the absence of any scratches extending across the grain of the paper and by the presence of occasional minute difficultly discernible scratches extending only in a direction parallel to the grain of the paper.

2,349,705
REINFORCED TAPERED LUG STRAP AND METHOD OF MAKING
Breckinridge T. Clark, Danielson, Conn., assignor to E. H. Jacobs Mfg. Co., Inc., Danielson, Conn., a corporation of Connecticut
Application October 29, 1943, Serial No. 508,183
4 Claims. (Cl. 139—153)



1. The improved process of making a reinforced tapered lug strap from interrolled textile material united with adhesive, which consists in preparing a sheet of textile of a width equal to the length of the lug strap to be made therefrom, folding over adjacent corners at one end of the sheet material, forming a point at the outermost end and constituting an integral double-layered mass adjacent said pointed end, adding reinforcing layers overlapping said folded portion, interrolling the assembled layers into an interrolled mass and molding while plastic into final U-shaped form, whereby a crown portion of greater thickness with a uniform tapering toward the bolt slots is produced.

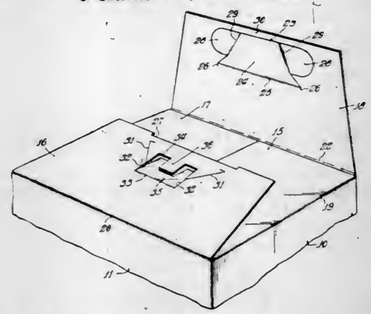
2,349,706
DISPLAY DEVICE
Ashton B. Collins, Birmingham, Ala.
Application December 5, 1941, Serial No. 421,804
1 Claim. (Cl. 40—126)

A display device for use by the electric power industry for symbolizing electricity and simulating an active electrical discharge without the use of artificial light, said device including a holding element for a card or the like, a base, and a connection between the base and holding element, said connection comprising a flat substantially stiff translucent material of uniform color having marginal portions of ziz-zag contour simulating the conventional illustration of a lightning flash and extending from the base to said element, said marginal portions being bev-



eled to reduce the depth of color at the edges of the connection and being responsive to the rays of daylight when viewed at changing angles, thereby to produce zig-zag flashes of refracted light in streaks leading from the base to the holding element and distinguishable in color and intensity of light from the flat portion of the connection thereby to simulate with the refracted light, changeable streaks of lightning flashing from the base of the holding element.

2,349,707
CONTAINER LOCK
Julian D'Esposito, Wilmette, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application September 19, 1942, Serial No. 458,975
6 Claims. (Cl. 229—39)

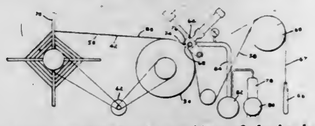


1. In a container made of sheet material such as paperboard or the like and having a closure including two plies of said material, at least one of said plies being arranged to swing about a score line or the like so that in closed position said plies overlap each other by a substantial amount, the improved locking arrangement for said closure which comprises a tab having laterally extending tongue portions partially cut from the material of the lower ply and integrally joined thereto along a hinge line substantially parallel to said score line, said cut being spaced from the free edge of said lower ply so as to leave a strip of said material adjacent said edge and said tab being adapted to overlie the upper ply of said material, a pair of elongated openings in said upper ply adapted to receive said tongue portions, and additional tab means formed from said upper ply including at least one tab having its free end extending toward and one tab having its free end extending away from the free end of said upper ply, said last-mentioned tabs being defined by a non-rectilinear cut extending between said elongated openings and being arranged so that during the closing operation said strip may pass over said tab having its free end extending toward the edge of said upper ply and will thereafter be engaged by said tab extending in the opposite direction if said tongue portions should become accidentally dislodged from said openings.

2,349,708
WIRE DRAWING
Flint C. Elder, Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
No Drawing. Application June 19, 1942, Serial No. 447,744
7 Claims. (Cl. 205—21)

1. The process of drawing wire, which consists in applying to the wire a wire-drawing lubricant consisting essentially of a dry mixture of sulphur and wire-drawing soap in the proportions of from two to four parts by weight of sulphur and from one to three parts by weight of wire-drawing soap, and drawing the thus-lubricated wire through a wire-drawing die.

2,349,709
ADHESIVE FABRIC AND METHOD OF MAKING THE SAME
Harold A. Evans, Fairhaven, Mass., assignor to Coreve Corporation, Fairhaven, Mass., a corporation of Massachusetts
Application August 12, 1941, Serial No. 406,519
9 Claims. (Cl. 117—44)

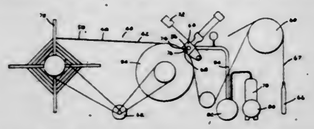


3. In the method of coating fabric between a moving resilient surface and a stationary fountain having adhesive feeding means comprising slots, the steps which comprise forcing said fountain against said resilient surface to provide a traction nip for feeding said fabric between said surface and fountain and to provide a dam exterior of said adhesive feeding means, and continuously forcing liquid adhesive through said adhesive feeding means comprising slots under sufficient pressure to force continuous stripes of said liquid adhesive within said fabric sheet and underneath at least some of the threads thereof and to form continuous stripes of adhesive on the surface of said fabric sheet integral with said permeated continuous stripes.

2,349,710
ADHESIVE FABRIC AND METHOD OF MANUFACTURING THE SAME
Harold A. Evans, Fairhaven, Mass., assignor to Coreve Corporation, Fairhaven, Mass., a corporation of Massachusetts
Application August 14, 1941, Serial No. 406,888
17 Claims. (Cl. 117—7)

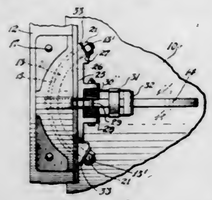
5. In the method of making elastically contractible adhesive fabric including the step of

coating said fabric between a moving resilient surface and a relatively stationary fountain having adhesive feeding means, the steps which comprise prestretching a continuous fabric sheet having its warp and weft threads diagonally disposed in relation to its edges a predetermined amount substantially less than its elastic limit, continuously passing said prestretched sheet over said resilient surface, forcing said fountain against said resilient surface to provide a traction nip for feeding said fabric between said surface and fountain and to provide a dam exterior of said adhesive feeding means, continuously forcing liquid adhesive through said adhesive feeding means under sufficient pressure to form a continuous layer of said liquid adhesive within



said fabric sheet underneath at least some of the threads thereof and to form a continuous integral layer of adhesive on the surface of said fabric sheet, while for a second time stretching said fabric sheet to a predetermined width in front of said traction nip and for a third time stretching said coated fabric sheet an additional predetermined amount substantially less than its elastic limit in rear of said traction nip to provide on setting of said adhesive, a fabric sheet capable of stretching in use an additional amount up to its elastic limit having a continuous elastic layer of adhesive so covering and permeating said fabric sheet as to return said then stretched fabric sheet substantially to its just previous unstretched condition.

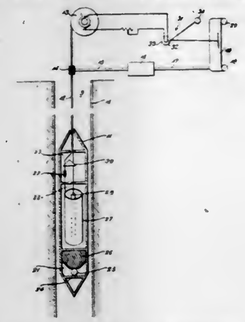
2,349,711
DOOR HINGE
John Faithfull, Newark, N. J.
Application June 18, 1943, Serial No. 491,417
5 Claims. (Cl. 16—128)



5. In a concealed hinge, a bracket having a longitudinally curved pintle receiving bore, a longitudinally curved pintle arranged in the bore and having both ends thereof protruding through the bracket, and means on said protruding ends for removably securing the pintle in the bore.

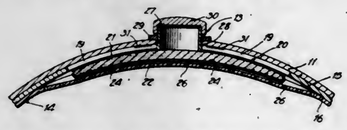
2,349,712
WELL LOGGING METHOD AND DEVICE
Robert Earl Fearon, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Original application November 10, 1938, Serial No. 239,781. Divided and this application January 28, 1942, Serial No. 428,594
4 Claims. (Cl. 250—83.6)

1. The method of determining the nature of formations penetrated by a drill hole which comprises inserting in the drill hole a neutron-emitting source and measuring gamma ray radiations



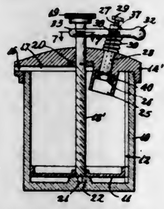
from the formations as influenced by the said neutron-emitting source at different depths therein.

2,349,713
GERMICIDAL ANIMAL COLLAR
Arthur Finch, Bolling Field, Washington, D. C.
Application March 3, 1943, Serial No. 477,853
5 Claims. (Cl. 119—106)



1. An animal collar comprising in combination, a flexible neck encircling strap, a flexible porous pad fitting against the inner side of said strap, a rigid germicidal powder receptacle embedded in said pad, the bottom wall of the receptacle having perforations therein, said strap having an opening therein, an externally screw threaded filling spout extending from said receptacle through said opening to the outer side of the strap, a nut threaded to said spout in clamping engagement with said strap and a removable closure attached to the outer end of said spout.

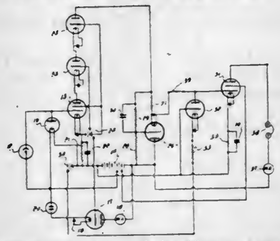
2,349,714
DISPENSING DEVICE FOR PASTES, CREAMS, ETC.
Louis Finkelstein, Brooklyn, N. Y.
Application July 3, 1942, Serial No. 449,578
3 Claims. (Cl. 222—256)



1. A dispensing device for pastes and fluids, comprising a jar of the paste or fluid, a piston within said jar adjacent its bottom wall and slidable so it may be moved upwards, means for nonrotatively holding said piston, a cover for said jar having a discharge opening at one side, and a screw rotatively mounted on said cover and extending downwards through said jar, threadedly

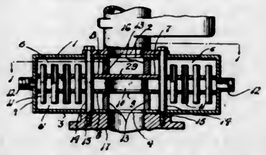
connected with said piston for raising said piston, a downwardly extending chamber on the bottom face of said cover, an auxiliary piston in the top of said chamber, and means for manually depressing said auxiliary piston comprising a tube slidably mounted through said cover, a stem extending through said tube and supporting said auxiliary piston, a handle pivotally connected with a ring rotative about said screw, said handle being provided with an opening through which said tube passes, a trunnion on said tube engaging slots in said handle, and resilient means urging said tube outwards.

2,349,715
RADIANT ENERGY CONTROL DEVICE
Oliver T. Francis, Renville, Minn.
Application May 20, 1941, Serial No. 394,389
22 Claims. (Cl. 250—41.5)



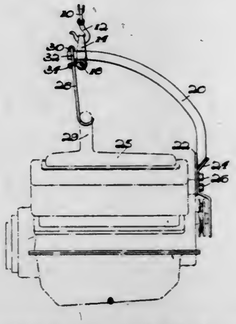
22. Apparatus for detecting compressional waves comprising: means for producing variations in light with said compressional waves, a photoelectric cell, means for impressing said light on said cell, a load for said cell, means for varying the impedance of said load inversely in accordance with the magnitude of light illuminating said cell, and means for indicating voltage variations across said load.

2,349,716
FUEL VAPORIZER
Robert Goodlass, Winnipeg, Manitoba, Canada
Application May 4, 1940, Serial No. 333,431
1 Claim. (Cl. 257—224)



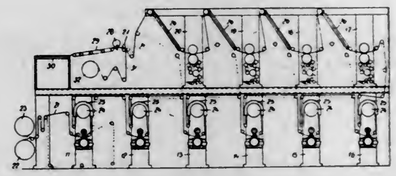
A fuel vaporizer comprising in combination a casing, said casing embodying an apertured top plate, an apertured under plate and a surrounding wall, a radiating compartment of shallow section positioned within said casing, and having means for connection with an adjacent hot water system, said radiating compartment embodying a top plate and an under plate provided with a central aperture, an annular wall surrounding said central aperture and extending between said top plate and said under plate, said radiating compartment being spaced from the top and under plates of said casing and extending parallel therewith to provide topside and underside chambers, and a plurality of open-ended tubes extending transversely through said radiating compartment and projecting upon either side thereof into said top side and underside chambers, said tubes communicating with said chambers at the respective ends thereof.

2,349,717
WORK SLING
George M. Graham, Detroit, Mich., assignor to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich., a corporation of Michigan
Application July 13, 1943, Serial No. 494,575
3 Claims. (Cl. 294—78)



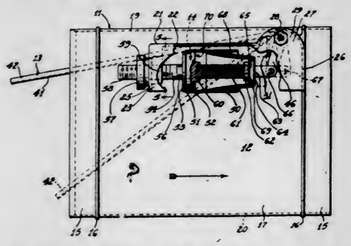
1. A free suspension work sling comprising, in combination, suspending means including a stirrup provided with a roller rotatably mounted between the ends of the stirrup fork, an arcuate work supporting element extending through the stirrup and supported upon the roller for free slidable movement thereover, a hook pivoted to one end of the arcuate work supporting element and adapted to engage a piece of work, means at the opposite end of the work supporting element adapted to be engaged with said piece of work, and means adapted to releasably secure said hook at a fixed position.

2,349,718
MANUFACTURE OF PRINTED ARTICLES
Friedrich-Wilhelm Georg Gravenstein, Berlin, Germany, assignor to Transart Aktiebolag, Goteborg, Sweden, a corporation of Sweden
Application May 24, 1940, Serial No. 337,087
In Sweden March 1, 1940
2 Claims. (Cl. 101—180)



1. A rotary printing press for manufacturing a plurality of printed articles comprising a collection of leaves of flexible glass clear material carrying non-transparent double pictures presenting, when viewed from one side of a leaf or the other, different images disposed at least partly within the same contour, intaglio printing units for printing one picture of a double picture for a leaf on one side of a continuous web of said material, acrography printing units for printing the other picture of said double picture on the other side of said web, drying means supplied with drying air in each acrography printing unit, and means for pulling the web under even tension through the printing units disposed posteriorly of said printing units with respect to the feeding direction of the web.

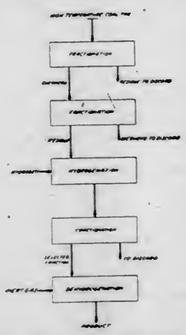
2,349,719
AIR CONTROL DEVICE
Bernard M. Guthrie, Kokomo, Ind., assignor to Kingston Products Corporation, Kokomo, Ind., a corporation of Indiana
Application January 10, 1941, Serial No. 373,896
8 Claims. (Cl. 137—152)



5. In an air control device, a housing unit including first, second, and third walls arranged in generally spaced apart parallel relation, a damper disposed between said first and said second walls, an aperture provided in said second wall, a bracket supporting said damper projecting through said aperture and having bearing on said first and third walls, connection means carried by said bracket, and means for progressively retarding movement of the damper having a part connected to said connection means and a part connected to the housing.

7. In an apparatus of the character described, a tubular housing, a hood provided adjacent one side of the housing, a damper movably mounted in said housing, dashpot means for retarding the movement of the damper arranged in the hood alongside said housing and operatively connected to said damper, said dashpot means including a cylinder, piston means movable in the cylinder, rigid means projecting from the piston, means and rigidly connected thereto and means connecting the rigid means to the damper so that on movement of the damper the rigid means will be caused to move in a path at an angle to the axis of the cylinder, said piston means being so constructed and arranged that at least a portion thereof may tilt relative to said rigid means while maintaining contact with the walls of the cylinder.

2,349,720
PRODUCTION OF ARTICLES OF COMMERCE
Jacquelin E. Harvey, Jr., Washington, D. C.
Application February 26, 1942, Serial No. 432,496
5 Claims. (Cl. 196—53)



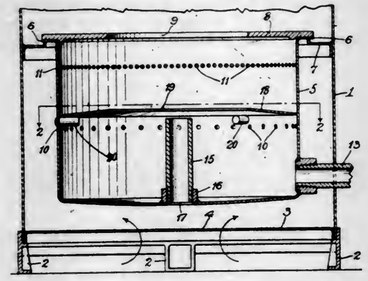
1. In the production of valuable liquids from the refined pitch produced by stripping high temperature coal tar to a point to produce a residual selected from the group consisting of pitch, semi-coke and coke, and fractionating the overhead material to recover a liquid useful as a wood preservative, and a higher boiling fraction boiling predominantly above 355° C., the process which comprises: subjecting said higher boiling fraction to the action of hydrogen for a period not in excess of about three hours, whereby to avoid loss of newly induced low boiling fractions; stripping newly induced low boiling fractions from the hydrogen treated material; and increasing the boiling points of at least a chosen portion of said stripped fractions by subjecting same to the dehydrogenating action of a preheated inert gas in the absence of an added catalyst at a temperature selected between the limits of about 300°–750° C.

2,349,721
PRODUCING VALUABLE OILS FROM COAL TAR
Jacquelin E. Harvey, Jr., Washington, D. C., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia
No Drawing. Application June 23, 1942, Serial No. 448,176
4 Claims. (Cl. 196—53)

1. The process of converting a mixture of high temperature coal tar fractions into lower boiling valuable liquids, which comprises: flowing said material through a reaction chamber wherein is maintained a temperature selected between the limits of about 375–465° C., and a pressure in excess of about 200 atmospheres whilst simultaneously flowing through said reaction chamber at least about 10,000 cubic feet of hydrogen-containing gas per barrel feed stock; employing as catalytic materials a sulfide of a metal and a material selected from the group consisting of halogens, halids and derivatives thereof; maintaining a ratio of vapor to liquid phase of below about 8.5 to 1 by weight by cooling at least a portion of the reaction products while yet in the reaction chamber to a temperature below the operating reaction temperature, said lower temperature being selected between the limits of about 250–425° C.; and preventing contamination of the vapor phase product by the liquid phase product by withdrawing liquid phase products and vapor phase products from the reaction chamber in separate streams.

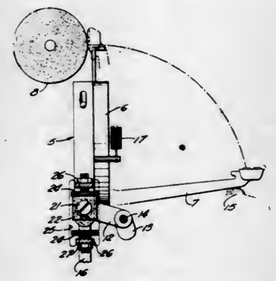
2,349,722
POT TYPE BURNER AND IMPROVED AIR SUPPLY MEANS THEREFOR
Bruce Hayter, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application March 14, 1942, Serial No. 434,659
2 Claims. (Cl. 158—91)

1. In a pot type burner, a burner pot having a circumferential generally cylindrical wall, means for supplying a liquid fuel to the interior of the pot, the wall of the pot having a plurality of air inlet apertures arranged circumferentially in two rows, one of said rows being generally intermediate top and bottom of the pot, the other being substantially closer to the top of the pot, a centrally apertured pilot ring located intermediate top and bottom of the pot and just above the lowest of the air inlet apertures, whereby air is admitted through the wall of the pot both above and below the pilot ring, and additional means for supplying air to the interior of the pot, including an air inlet duct extending upwardly from the bottom of the pot in general axial alignment with the central aperture of the



pilot ring, the duct being adapted to deliver air into the interior of the pot at a level adjacent the level of the pilot ring.

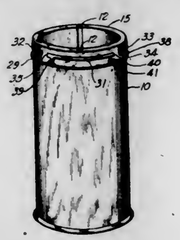
2,349,723
TYPEWRITING MACHINE
William F. Helmond, Clinton, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application May 12, 1941, Serial No. 392,997
6 Claims. (Cl. 197—74)



3. In a case-shift mechanism for a typewriter having two members relatively movable in case shifting, means to limit the case-shift movement, comprising, abutments on one of said members, and a block of impact-dampening material pivotally mounted on the other of said members and having broad areas engageable with said abutments.

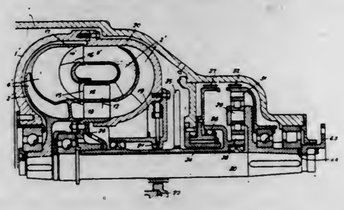
2,349,724
DUAL SHAKER
Welch J. Henderson, Kansas City, Mo.
Application August 12, 1940, Serial No. 352,247
5 Claims. (Cl. 65—45)

5. A container having a body portion having a closed end and an open end, means in said body portion dividing the same longitudinally into a pair of compartments, a transverse end wall of compressible fibrous material mounted in fixed position on the open end of said body portion, said wall having a pair of openings therein each leading into one of said compartments, a rotatable closure member detachably mounted on said body portion, said closure member having a pair of openings therein, one adapted to be aligned with one of the openings in said wall and the other with the other of the openings in said wall by rotation of said closure member on said body portion relative to said wall, cooperating means on said closure member and said body portion to detachably hold said closure member in snug sealing engagement with said wall, comprising a circumferential rib on said body portion extending entirely there-around except for



a plurality of short interruptions therein and a plurality of circumferentially extending projections on said closure member shorter than said interruptions engaging said rib, and stop projections on said body portion engaged by one of said projections on said closure member to limit rotation of said closure member in opposite directions.

2,349,725
HYDROKINETIC TORQUE TRANSMITTING DEVICE
Fritz Albert Max Heppner, Onchan, Isle of Man
Application January 27, 1941, Serial No. 376,192
In Great Britain February 6, 1940
7 Claims. (Cl. 74—189.5)



1. A hydrokinetic torque transmitting device comprising a pump wheel, a turbine wheel and a reaction wheel coacting in a substantially toroidal fluid circuit, said pump and turbine wheels each having channels therein which at the smaller radius lie side by side in a plurality of rows around the wheel axis, the channels of one row being staggered with respect to those of the next, and at the larger radius lie side by side in a single row encircling the wheel axis, said wheels having the same number of rows at their smaller radii, said reaction wheel being located at the radially innermost part of the circuit between the turbine wheel outlets and the pump wheel inlets and itself comprising as many rows of channels as at the smaller radii of said pump and turbine wheels.

2,349,726
DISPENSER FOR EXTRUSILE SUBSTANCES
George J. Holler, Bridgeport, Ohio
Application June 18, 1942, Serial No. 447,488
4 Claims. (Cl. 222—390)

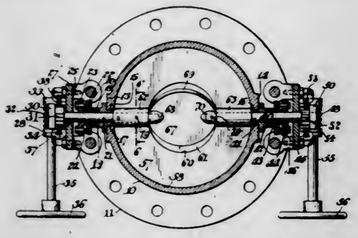
1. A tube for extrusile substances having a disc longitudinally slidable therein, a rod upon which the disc is threaded, a bearing at each end of

the tube for the rod so constructed as to admit of longitudinal sliding movement of the rod with



respect to the tube and with respect to its rotating means, and means for rotating the rod by force applied without the tube.

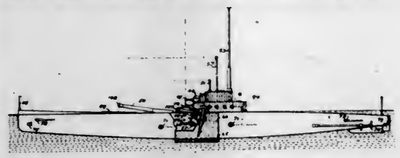
2,349,727
VALVE
David W. Hopkins, Philadelphia, Pa.
Application July 6, 1942, Serial No. 449,936
4 Claims. (Cl. 277—46)



1. A valve comprising an annular valve housing, a vane disposed in the housing, shaft housings disposed coaxially on the vane on a diameter thereof, said vane having a port, a port vane disposed in the port, a pair of diametrically spaced short apertured bosses comprising shaft housings on the port vane on a diameter thereof with the center of the port vane between bosses clear of protuberances, a shaft journalled in the valve housing and extending through aligned shaft housings on the vane and port vane and terminating in the latter and coupled to the port vane, a second shaft aligned with the first shaft journalled in the valve housing and extending through aligned shaft housings on the vane and port vane and terminating in the latter and coupled to said vane, and irreversible gear means operatively coupled to the outer ends of the respective shafts to position said vanes and to anchor the respective vanes against undesired movement.

2,349,728
WAR VESSEL WITH HIGH POWER, LONG RANGE GUN
Nevil Monroe Hopkins, New York, N. Y., assignor to United States Trust Company of New York
Application June 27, 1940, Serial No. 342,783
31 Claims. (Cl. 114—1)

4. A high power long range gun comprising a recoiling barrel and a suspension member therefor adapted to swing the breech end of the barrel vertically in a body of water, the volume of the body of water being sufficient to envelop the breech end of the barrel, a counterbalance carried by said barrel adjacent to the breech end thereof and having a surface extending laterally

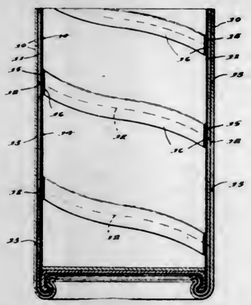


beyond the confines of said barrel, said surface disposed substantially perpendicularly to the axis of the barrel and presenting a recoil area of resistance to the body of water which is at least twice the area represented by the entire breech end of the barrel, and means to fire the gun with its breech end submerged.

2,349,729
THERAPEUTIC ARSENIC PREPARATION
Russell Hopkinson, East Hampton, and Alexander V. Tolstoouhov, New York, N. Y., assignors, by mesne assignments, to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application August 24, 1940, Serial No. 354,120
5 Claims. (Cl. 167—69)

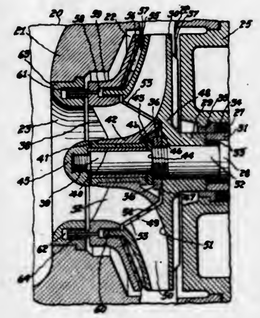
1. A spirocheticidal preparation comprising an arsenical of the class consisting of 3-amino-4-hydroxy phenyl arsine oxide hydrohalide and 3-amino-4-hydroxy phenyl dihalo arsine hydrohalide associated with one of the class consisting of an alkali metal salt of citric, succinic, malonic, tartaric and phthalic acids, said preparation when in aqueous solution having a pH value between 4.5 and 6.5.

2,349,730
TUBULAR CONTAINER
Raymond Horning, Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,316
2 Claims. (Cl. 229—4.5)



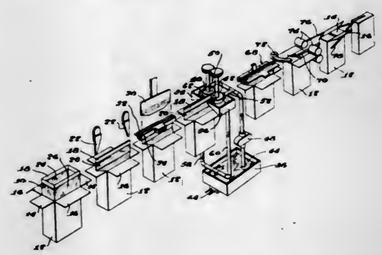
1. A tubular container having a side wall formed of a plurality of spirally wound layers of fibrous material adhesively secured together and a single inner layer of thin impervious material spirally wound, with the adjacent edges thereof arranged in overlapping relation, and said overlap being arranged in register with and overlapping the seam of the inner layer of fibrous material.

2,349,731
CENTRIFUGAL PUMP
Hanns Hornschuch, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application March 20, 1942, Serial No. 435,444
6 Claims. (Cl. 103—115)



1. A centrifugal pump, comprising a casing having an impeller chamber, a main impeller rotatable in the impeller chamber, a second impeller in the said impeller chamber positioned to discharge directly into the eye of the main impeller and flange means on the said second impeller located adjacent the side of the main impeller and having means on the side thereof to absorb power from the fluid pumped by the main impeller for effecting rotation of the said second impeller.

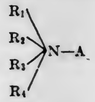
2,349,732
METHOD OF SEALING THE MOUTHS OF BAGS
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application May 15, 1940, Serial No. 335,279
7 Claims. (Cl. 226—56)



1. The method of sealing an open-mouthed container which comprises: collapsing the mouth of said container by bringing together the side portions thereof adjacent said mouth so as to form a substantially vertical closure, and simultaneously applying a moisture-proof sealing substance to the exterior surfaces of both of said vertical collapsed side portions along said mouth and on the upper edges of said vertical side portions prior to folding the closure, whereby to form a continuous sealing cap adhering to said vertical side portions and top edges of said vertical side portions to provide a substantially air-tight and moisture-proof seal for said mouth.

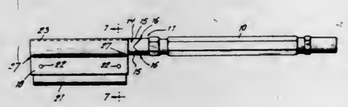
2,349,733
PLASTIC POLYMERIC DERIVATIVES OF CHLOROPRENE AND PROCESS OF PRODUCING THE SAME
Louis H. Howland, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 6, 1941, Serial No. 418,053
11 Claims. (Cl. 260—36)

11. Plasticized elastic polychloroprene containing a compound of the general formula



where R_1 is a radical selected from the group consisting of alkyl, hydroxy alkyl, aralkyl, and cyclic alkylene joined with R_2; R_2 is a radical selected from the group consisting of hydrogen, alkyl, hydroxy alkyl, aralkyl, and cyclic alkylene joined with R_1; R_3 and R_4 represent radicals selected from the group consisting of hydrogen, open-chain aliphatic hydrocarbon radicals, and substituted open-chain aliphatic hydrocarbon radicals; and A is the negative radical of an organic acid selected from the group consisting of carboxylic, sulfinic, and sulfonic acids, neither R_1, R_2, R_3 nor R_4 supplying any acidyl radical additional to that supplied by A.

2,349,734
RAZOR BLADE SHARPENING HOLDER
Michael Jaume, New York, N. Y.
Application May 5, 1943, Serial No. 485,728
1 Claim. (Cl. 30—332)



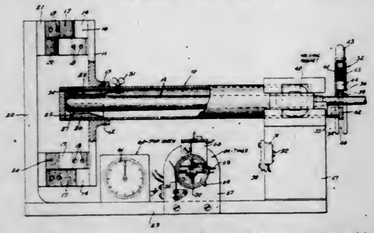
A razor blade holder comprising a handle, said handle having a longitudinally aligned extension of one-half the thickness of said handle thereby forming a shoulder at the base of said extension, said extension having one side thereof flat, said shoulder having a saw tooth extending in a direction toward the free end of said extension adjacent said flat side thereof, said saw tooth having the surfaces thereof rounded at the extremities thereof, said extension having a substantially rectangular plate rigid therewith and extending downward therefrom with one side of said plate co-planar with said flat side of said extension to form a jaw, a second and complementary removable jaw having an enlarged upper ridge flat on one side and provided at one end with a saw tooth socket complementary with said saw tooth, said second jaw being removably mounted against said first jaw with the said flat surfaces of said jaws juxtaposed and with said tooth registering in said socket, a pair of spaced pins extending from the inner surface of said rigid jaw, said removable jaw having a pair of complementary holes receptive of said pins and being pivotal about said base in said socket in a plane at right angles to said rigid jaw to detach said removable jaw from said rigid jaw, and means for releasably locking said jaws together.

2,349,735
SAFETY LOWERING DEVICE
George P. Kimmel, Brookeville, Md.
Application June 3, 1940, Serial No. 338,643
5 Claims. (Cl. 244—138)



1. In a plane structure including a fuselage and wings; said fuselage including a skeleton rear portion, a combined skeleton cover and parachute, means releasably holding said cover and parachute on said skeleton rear portion, a manual operator connected to said holding means, a buoyant member connected to said parachute and operatively connected with said holding means, a supplemental parachute carried by said buoyant member, and means for releasing said supplemental parachute coincident with the release of said parachute.

2,349,736
METHOD AND APPARATUS FOR TESTING
Max Knobel, Arlington, John B. Dickson, Northhampton and John W. Baymiller, Chicopee, Mass., assignors to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware
Application October 28, 1940, Serial No. 363,130
21 Claims. (Cl. 73—51)

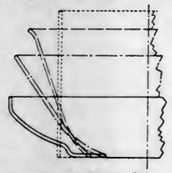


1. In a testing apparatus the combination of a base; a holder; resilient means normally supporting said holder in a neutral position upon the base and enabling movement of said holder in opposite axial directions into opposed strained positions relative to said neutral position; and means for maintaining said holder in one of said strained positions displaced from said neutral position.

2,349,737
COATING AND COATING METHOD
Joseph L. Krieger, Baltimore, Md.
No Drawing. Application May 19, 1941, Serial No. 394,163
3 Claims. (Cl. 106—181)

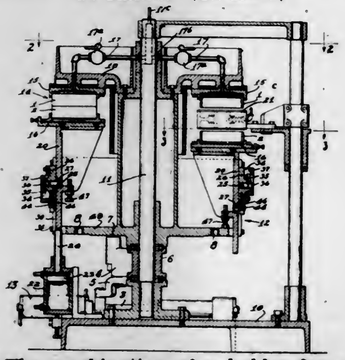
3. A process for the restoration of the original clear color of lacquers that have been discolored through the use in dipping operations involving copper and copper containing materials by the addition thereto of 0.1 to 1.0% of maleic acid.

2,349,738
METHOD OF FORMING PRESSED METAL WHEEL DISKS
Frank H. Le Jeune, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application March 30, 1942, Serial No. 436,893
2 Claims. (Cl. 29—159.01)



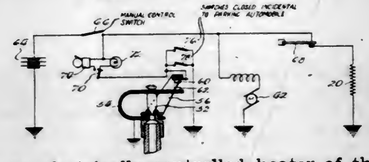
1. In the method of forming a pressed metal wheel disk, the die-pressing step of shaping a substantially cylindrical blank by progressively expanding within predetermined limits a portion of the blank toward one of its ends to form an outer bowled part having a substantially straight-line frusto-conical portion and a terminal curved portion of increasing diameter toward its free end and by progressively contracting at the same time the remaining portion of the blank toward the other of its ends to form an inner bowled part tangent to the outer bowled part, the die-pressing step of flaring and decreasing the axial length of the bowled blank by progressively expanding the frusto-conical portion and the terminal curved portion toward the free end of the latter to form an outer substantially straight-line frusto-conical flared part and by progressively contracting at the same time the inner bowled part toward its free end to form an inner curved flared part tangent to the outer flared part, and the die-pressing step of shaping the flared blank by bending the outer and inner flared parts to form a substantially axial flange and a substantially radial flange respectively.

2,349,739
PRESSURE SUSTAINING APPARATUS
Harry M. Louden and Cecil W. McCreery, Muncie, Ind., assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application October 7, 1941, Serial No. 414,000
11 Claims. (Cl. 49—1)



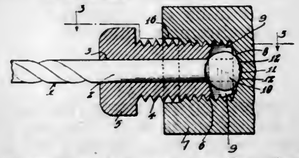
3. The combination of a holder for a workpiece, a slide on which said holder is carried, said slide mounted for vertical movement, a motor for lifting the slide, a locking pin, means operable by gravity to project the locking pin into locking engagement with the slide, and means for withdrawing the locking pin.

2,349,740
AUTOMOBILE HEATER
Henry J. De N. McCollum, Chicago, Ill.
Application February 17, 1940, Serial No. 319,556
1 Claim. (Cl. 177—311)



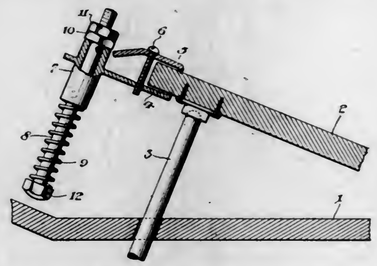
In an electrically controlled heater of the internal combustion type for the passenger compartments of automotive vehicles, the combination of a combustion chamber, a source of electricity, a circuit connecting said source to said heater, a manually operable switch in said circuit, an electrical alarm device, a circuit for said alarm device, said circuit including said manually operated switch, a second switch in series with said manually operated switch in said alarm device circuit, means operated incidentally to parking the vehicle to close said second switch, thereby to complete the circuit including said alarm device to warn the operator of the vehicle that said manually operated switch is closed, thermostatic means responsive to abnormal temperature conditions in said heater, a valve operated by said thermostatic means and opening to extinguish the flame in the heater by admitting air to the combustion chamber thereof, and a third switch operated by said thermostatic means, said third switch being in parallel with said second switch and closing contemporaneously with the opening of said valve.

2,349,741
DRILL SOCKET CONSTRUCTION
John Emerson McLaughlin, Torrance, Calif., assignor to Doak Aircraft Co. Inc., Torrance, Calif., a corporation of California
Application November 8, 1943, Serial No. 509,386
4 Claims. (Cl. 279—9)



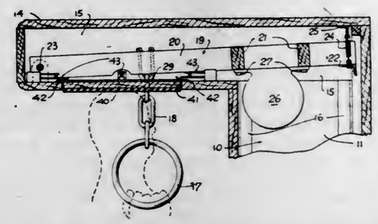
1. In a drill socket construction for holding and rotating the round shank of a drill, the combination of a threaded adapter operating as a shank-holder having an axial bore therethrough; the inner end of said adapter having a substantially radial slot formed in the wall thereof, a drill insertable into said adapter from the inner end thereof, and having a shank fitting the diameter of said bore; the inner end of said shank having a lateral projection received in said slot for imparting rotary movement from the adapter to the drill; and a rotary threaded driven member mounted to rotate on its own longitudinal axis, having a socket in its forward end to receive the inner end of the adapter, and having a seat face at its inner end to engage the inner end of the shank of the drill to resist the longitudinal thrust thereof.

2,349,742
FOOT ACCELERATOR SPEED CONTROL
Edmund W. Macavoy, Port Washington, N. Y.; Mildred O. Macavoy, administratrix of said Edmund W. Macavoy, deceased, assignor to B. F. Goodrich Company, Borough of Manhattan, N. Y., a corporation of New York
Application June 6, 1942, Serial No. 446,036
8 Claims. (Cl. 74—526)



1. A foot accelerator speed control means comprising a stop carried by and movable with the accelerator pedal to engage a fixed part of a vehicle to limit the movement of the accelerator pedal and including means operative by the pedal to permit further movement thereof, said control means comprising clamping plates for securing it to the pedal, one of said plates carrying a stop, a spring for positioning the stop, and means for adjusting the stop.

2,349,743
VIBRATORY APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Co., Chicago, Ill., a corporation of Illinois
Application December 3, 1942, Serial No. 467,686
2 Claims. (Cl. 128—32)

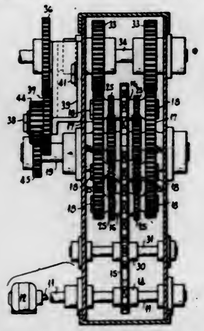


1. In a device of the class described including an upright cabinet and an overhanging head member supported thereby, the combination of a vibratory gymnastic apparatus comprising a vibratory frame pivotally arranged at one end on said head member and having its opposite end suspended on yieldable means, a vibratory motor carried by said vibratory frame and ring means adapted to be gripped by a person utilizing the device, said ring means having links attached thereto and suspended from said vibratory frame.

2,349,744
POWER TRANSMISSION UNIT
Maurice J. Morgan, Charlotte, N. C.
Application February 8, 1943, Serial No. 475,127
7 Claims. (Cl. 74—301)

1. A power transmission unit comprising a rotary shaft having a gear fixedly mounted there-

on, a pair of disks rotatably mounted on said shaft, one of said disks being disposed on one side of said gear and the other of said disks being disposed on the opposite side, a plurality of sprockets rotatably mounted between said disks and being operatively connected to said gear, a driving means adapted to simultaneously engage at all times the outer peripheries of at least two adjacent sprockets as the disks rotate whereby



each of the sprockets will rotate bodily about said shaft and also about its own axis when the disks rotate relative to said gear, and means for rotating said shaft and its associated gear in timed relation to the movement of said driving means for said sprockets, whereby the increase in the rate of rotation of said shaft and associated gear will decrease the rate of rotation of said disks.

2,349,745
IDENTIFICATION DEVICE
Claremont Robert Morris, New York, N. Y.
Application December 2, 1941, Serial No. 421,294
5 Claims. (Cl. 40—2)



1. An identification device for keys, comprising a body member providing a substantially rigid upstanding wall forming a socket having a forward opening as large as the inner part of the socket for receiving a key head freely therein, said upstanding wall providing a bezel next the forward opening of said socket, a complementary member having a feather edge engageable in said benzel and rigidly retained thereby at the forward part of said socket, said complementary member providing a window opening, and a marker member within said socket behind and retained by said complementary member and exposed through said window opening.

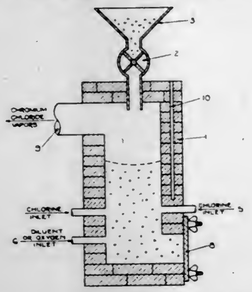
2,349,746
ELASTIC TOP STOCKING
Frank E. Morris and Howard Wagner, Philadelphia, Pa., assignors, by mesne assignments, to Scott & Williams, Incorporated, New York, N. Y., a corporation of Massachusetts
Application February 14, 1936, Serial No. 63,961
11 Claims. (Cl. 66—172)

1. A stocking knit of comparatively elastic and inelastic threads in which an elastic thread is knit in under tension in some courses but not in all the courses of the top, there being no stitches of comparatively inelastic thread in said courses and the elastic thread in said courses being knit



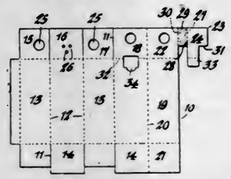
in a plurality of adjacent wales and floated in a plurality of wales in which there are no stitches knitted in the courses containing elastic thread.

2,349,747
CHLORINATION OF CHROMIUM BEARING MATERIALS
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application February 8, 1941, Serial No. 378,084
13 Claims. (Cl. 75—112)



1. A method of chlorination which comprises forming a pervious bed of chromium bearing material within a reactor, chlorinating said bed while regulating the quantity of chlorination agent to form a substantial quantity of chromous chloride, introducing a quantity of oxygen sufficient to substantially minimize sintering within the bed and maintaining the temperature sufficient to vaporize the chromous chloride.

2,349,748
DISPENSING CONTAINER OR CARTON
Herman E. Otto, Buffalo, N. Y., assignor to Cooper Paper Box Corporation, Buffalo, N. Y., a corporation of New York
Application November 5, 1942, Serial No. 464,575
7 Claims. (Cl. 229—17)

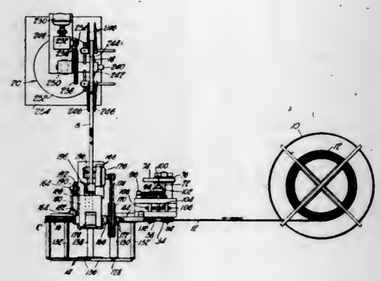


1. A container of the character described, comprising a cardboard body having side walls and a plurality of overlapping perforated end flaps, one of the end flaps having a laterally-foldable extension projecting from an edge thereof to assume a position between such flap and the next adjoining end flap, said extension including a fracturable tongue disposed in sealing relation to the perforated flaps to normally prevent discharge of the container-contents and when fractured to expose the perforations in said flaps to permit dispensing of the container contents, said tongue having a finger-engaging tab thereon and the companion carton-wall having an opening therein through which said tab projects.

2,349,749
ANTIOXIDANT
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 29, 1943, Serial No. 473,971
15 Claims. (Cl. 260—809)

1. A method of retarding the deterioration of an organic substance which tends to deteriorate by absorption of oxygen from the air which comprises incorporating therein an N-aryl N'-alkyl N'-aryl sulfonyl arylene diamine.

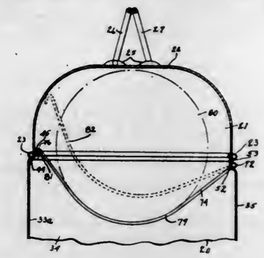
2,349,750
METHOD AND APPARATUS FOR FORMING WIRE ENTANGLEMENTS
Carl H. Peterson and William V. Moren, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application February 23, 1942, Serial No. 432,080
20 Claims. (Cl. 140—3)



1. The method of making wire entanglements adapted to be axially expanded, which comprises forming a helix of wire and independently joining juxtaposed convolutions to one another at a multiplicity of predetermined circularly spaced locations by independent joints staggered along the helix as said juxtaposed convolutions are being formed.

2,349,751
LUNCH BOX
Herbert M. Piker, Hamilton, Ohio, assignor to The Hamilton Metal Products Company, Hamilton, Ohio, a corporation of Ohio
Application September 20, 1939, Serial No. 295,791
7 Claims. (Cl. 206—4)

1. In a device of the class described, the combination of a box having an upper open end, a cover for the box for enclosing the open end of the box, and a combined hinge and arcuately shaped bottle carrier having one end formed for simultaneously hingedly connecting the cover to the box and having its other end hooked over

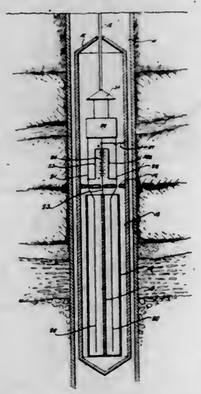


the open end of the box with the arcuately shaped supporting portion of the carrier depending within the box.

2,349,752
TREATMENT OF ALLYL TYPE HALIDES
Maxwell A. Pollack, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Alleghany County, Pa., a corporation of Pennsylvania
No Drawing. Application November 22, 1940, Serial No. 366,728
6 Claims. (Cl. 260—654)

1. A method of separating an alkenyl halide having the halogen attached to a saturated carbon atom which is immediately adjacent an unsaturated carbon atom, from a liquid mixture containing said alkenyl halide and another halide having the halogen attached to an unsaturated carbon atom, which comprises treating said mixture with a tertiary amine to form a quaternary ammonium halide by reaction with said alkenyl halide, separating the solid quaternary ammonium compound from the residual liquid, decomposing the quaternary ammonium compound by heating and recovering the said alkenyl halide.

2,349,753
METHOD AND APPARATUS FOR GEOPHYSICAL EXPLORATION
Bruno Pontecorvo, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application February 5, 1942, Serial No. 429,684
18 Claims. (Cl. 250—83.6)



1. A method of geophysical prospecting that comprises discriminating between radiations of varying energy that comprises utilizing said

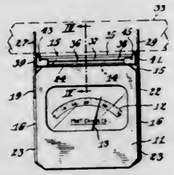
radiations to form beta radiations, detecting said beta radiations, causing said detected beta radiations to impinge upon a partition, detecting the beta radiations that are able to pass through said partition and comparing the results of the detections.

2,349,754

METHOD AND INSTRUMENT FOR MEASURING ULTRAVIOLET RADIATIONS

Thomas R. Porter, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 30, 1940, Serial No. 368,100
5 Claims. (Cl. 250—71)



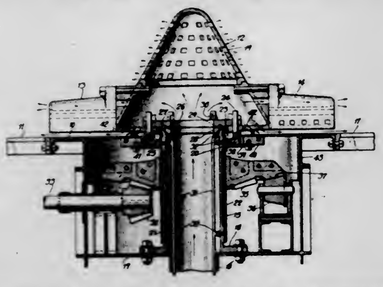
1. The method of measuring the bactericidal ultra-violet component of radiations, comprising passing said radiations through a Jena UG–5 #1157 or Corning Black Glass U. V. filter, about one to two millimeters thick, in order to absorb practically all of the visible component, allowing the remainder which passes through said filter to impinge on a layer of a phosphor of zinc silicate, and allowing the transformed visible radiations passing through said layer to impinge on and be measured by a visible-light meter, whereby the curve of phosphor response, as modified by filter transmission, corresponds substantially with the curve of the bactericidal effect of the radiations to be measured.

2,349,755

FURNACE CONSTRUCTION

Graham P. Prather, Teaneck, N. J., assignor to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware

Application February 3, 1943, Serial No. 474,504
3 Claims. (Cl. 110—75)



1. In a furnace construction, a stationary upstanding hollow post, a rotatable tubular member journaled thereon, a hollow rabbling and air distributing device fixed upon the upper end of said tubular member to rotate therewith, means for supplying a stream of cooling air up through said post into said device, whereby such stream also serves to cool the post and the journal bearings thereon, and grease conduit means extending up within said post to such bearings, whereby said conduit means are also cooled by said stream.

2,349,756

FORMALDEHYDE RESIN MODIFIED WITH A POLYISO- OR POLYISOTHIOCYANATE

Burt Carlton Pratt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 25, 1940, Serial No. 347,553
19 Claims. (Cl. 260—57)

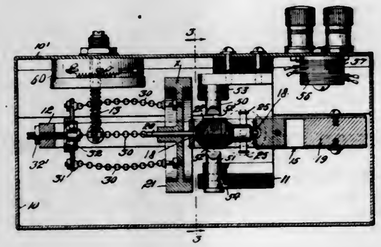
1. Process which comprises reacting a hydrocarbon diisocyanate with a resinous condensation product of formaldehyde with a monomeric organic compound reactive therewith to form a resin.

2,349,757

GYROSCOPIC INSTRUMENT

August Raspet, Hyattsville, Md.

Application March 17, 1941, Serial No. 383,761
8 Claims. (Cl. 33—204)



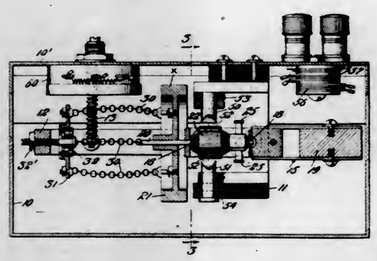
1. A gyroscopic instrument comprising a support, a gyroscope having a rotor and a frame pivoted on the support to permit precession, a centrifugal element carried by the rotor, means for applying the centrifugal force of said element to resist precession, a magnetic element on the rotor, and an electric precession indicator actuated by the magnetic field of said magnetic element.

2,349,758

GYROSCOPIC INSTRUMENT

August Raspet, Old Lyme, Conn.

Original application March 17, 1941, Serial No. 383,761. Divided and this application November 17, 1942, Serial No. 465,932
13 Claims. (Cl. 74—5)



1. In a gyroscopic instrument, the combination of a support, a gyroscope having a rotor and a frame pivoted on the support to permit precession of the gyroscope, a centrifugal element carried by the rotor, and means for applying the centrifugal force of said element to resist precession of the gyroscope.

2,349,759

PLASTIC REACTION PRODUCTS OF CONJUGATED OLEFINS WITH WAX SUBSTITUTED AROMATIC COMPOUNDS

Orland M. Reiff and John D. Zech, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application February 25, 1942, Serial No. 432,279
1 Claim. (Cl. 260—61)

A composition of matter formed by heating chlorinated petroleum wax of at least 25% chlorine content with an aromatic material of the group consisting of phenols and aromatic ethers having at least 2 nuclear carbon atoms capable of substitution in the presence of a Friedel-Crafts catalyst and in a mol ratio of combined chlorine to aromatic material not less than two and heating the product thereof with an olefin having conjugate double bonds in the presence of a Friedel-Crafts catalyst.

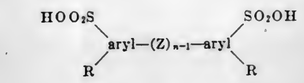
2,349,760

ULTRAVIOLET-SENSITIVE PHOTOGRAPHIC ELEMENT

Earle E. Richardson and Jonas John Chechak, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 1, 1942, Serial No. 445,388
10 Claims. (Cl. 95—7)

1. A photo-sensitive silver halide emulsion containing a bis ammonium salt of an aliphatic amine and a bis sulfonic acid of the following general formula:



wherein n represents a positive integer of from one to two and R represents a member selected from the group consisting of amino, alkylamino and acylamino groups and Z represents a divalent organic radical, said aliphatic amine being selected from the group consisting of dialkyl and trialkyl amines in which each alkyl group contains from 7 to 12 carbon atoms.

2,349,761

STUFFED STRAW

Oscar W. Schroeder, North Hollywood, Calif., assignor of fifteen per cent to William E. Beatty, Los Angeles, Calif.

Application May 31, 1941, Serial No. 395,993
3 Claims. (Cl. 41—22)



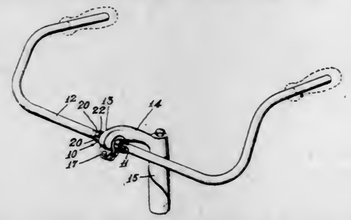
1. A transparent straw having a core substantially filling the interior of said straw, said core comprising a strand of decorative compressible fibrous material extending lengthwise through the bore of said straw, said core engaging the surface of the bore of said straw solely by compression of said fibrous material whereby said core is frictionally retained in the bore of said straw due to said compression.

2,349,762

CUSHIONED HANDLE BAR

Frank W. Schwinn, Chicago, Ill.

Application September 12, 1941, Serial No. 410,551
8 Claims. (Cl. 287—85)



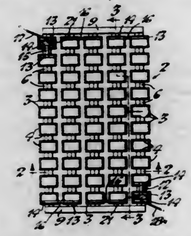
1. In combination with a handlebar, a cushioning structure comprising a resilient rubber cushioning sleeve surrounding that portion of the handlebar which is adapted for engagement by a steering post clamp, a split protecting sleeve surrounding the cushioning sleeve, the rubber of the cushioning sleeve being bonded to the handlebar and to the protecting sleeve over considerable areas of contact, and a split compression sleeve embracing said protecting sleeve for receiving the direct compression force of the steering post clamp.

2,349,763

ELECTRIC STORAGE BATTERY

Albert Setzer, North Scituate, R. I.

Application February 4, 1941, Serial No. 377,325
4 Claims. (Cl. 136—166)



1. In an electric storage battery for radio transmitting apparatus used with meteorological trial balloons, a unitary structure of insulating material comprising a series of individual cell-jars arranged in parallel rows and spaced apart both laterally and longitudinally of the rows without contact at their sides, said cell-jars connected at the bottom by an integral open-work grid consisting in longitudinal and lateral ribs of relatively narrow width and small depth spaced apart with relatively large openings therebetween, electrodes in each jar, and an electrolyte in each jar, said openings in the bottom of the structure providing for free passage of any electrolyte spilling or overflowing from the top of the jars in order to prevent leakage of electric current over the surface of one cell to that of another.

2,349,764

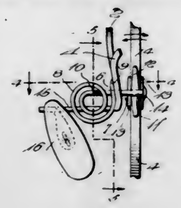
SPECTACLES

Harry O. Sheldon, Willmar, Minn.

Application April 27, 1942, Serial No. 440,705
3 Claims. (Cl. 88—41)

1. Spectacles comprising a frame including a nose piece and temple arms, lenses, and bracket members resiliently supporting each lens from

the frame and each including a vertically disposed coiled spring arranged in rear of the frame and lens, said spring having its coils disposed in a common plane, the inner terminal coil being



provided with a lateral offset and an arm extending forwardly therefrom and connected to the inner edge of the lens and the outer terminal coil having a terminal portion at the front thereof connected with the frame.

2,349,765

PREPARATION OF BENZOTETRONIC ACID

Robert S. Shelton, Mariemont, and Marcus G. Van Campen, Jr., Silverton, Ohio, assignors to The Wm. S. Merrell Company, Reading, Ohio, a corporation of Delaware

No Drawing. Application October 15, 1941, Serial No. 415,143

3 Claims. (Cl. 260—344.6)

1. The method of preparing benzotetronic acid which comprises reacting methyl acetyl salicylate with a sodium alkoxide and in the absence of metallic sodium.

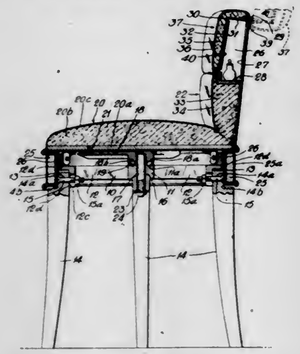
2,349,766

REVOLVING CHAIR

Luther G. Simjian, Stamford, Conn., assignor to The Reflectone, Corp., Stamford, Conn., a corporation of Connecticut

Application October 14, 1940, Serial No. 361,016

3 Claims. (Cl. 155—95)



3. A revolving chair comprising a plurality of chair legs, each leg having an upper end defined by at least three vertical plane surfaces and with a hole formed transversely through said end and directed perpendicularly through one of said surfaces, a main base support having a plurality of arms integral therewith, and each formed with a recess at its end for the entry of the end of one of said legs, each recess having three vertical surfaces and an end horizontal abutment wall against which the end of the leg abuts, one of said vertical surfaces having an opening for the passage of a bolt therethrough and through the hole in said leg for securing said leg against said one vertical surface while the other two vertical surfaces act against the other vertical plane surfaces of the end of the leg to stabilize the said leg, a seat support rotatably mounted on said main base support, and a seat on said seat support having a downwardly projecting flange secured thereto and covering said main base support and said leg securing means.

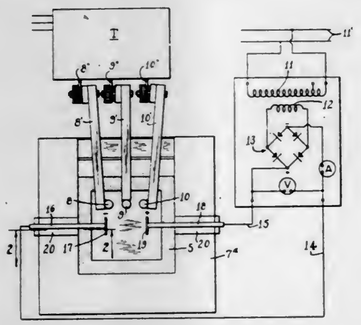
2,349,767

METHOD OF TREATING HIGH-SPEED STEEL

Haig Solakian and Edward N. Case, New Haven, Conn., assignors to Artemas F. Holden, New Haven, Conn.

Application March 18, 1943, Serial No. 479,574

9 Claims. (Cl. 148—15)



1. The method of treating high-speed steel for hardening which comprises heating a salt bath to a temperature in excess of 2,000° F., the salt bath being substantially devoid of metal contamination, immersing the steel in the bath and subjecting it to the bath temperature during a period sufficient to heat the steel to the desired extent, the treatment being repeated on different batches of steel in the same bath, analyzing the bath for metal contamination, and scavenging the bath of contaminating metal so that the percentage by weight of contaminating metal in the treating bath does not exceed 5%.

2,349,768

RESINOUS COMPOSITION AND PREPARATION OF THE SAME

Franklin Strain, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application February 18, 1939, Serial No. 257,133

1 Claim. (Cl. 260—83)

The method of preparing a polymer of a polyhydric alcohol polyester of methacrylic acid which comprises treating said polyester to polymerize same, interrupting the polymerization after substantial polymerization has occurred but before the polymer has been converted into a gel, substantially completely separating residual monomer from the resulting fusible polymer, subjecting the fusible polymer to a temperature and pressure sufficient to insure the existence of the polymer in a fused state, and continuing polymerization of the fused polymer until the polymer is converted to the infusible state.

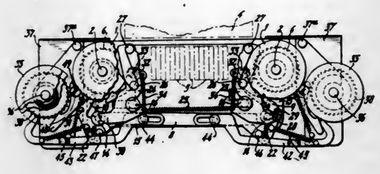
2,349,769

PRINTING MECHANISM FOR ADDING AND ACCOUNTING MACHINES

Oscar J. Sundstrand, West Hartford, and Walter A. Anderson, Bridgeport, Conn., assignors to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application November 3, 1941, Serial No. 417,642

3 Claims. (Cl. 197—153)



1. In a machine of the class described, a dual ribbon mechanism including two ribbons, a separate pair of reels for each ribbon, a common actuator, separate feeding mechanisms for each pair of reels and operable by said common actuator to feed the ribbons from one reel of each pair to the other or vice versa, means under the control of one of the ribbons for changing the direction of feed of both ribbons upon the completion of feeding of said one ribbon in either direction and a yielding connection between the common actuator and the feeding mechanism of the other ribbon to suspend feeding operation of said other ribbon when that ribbon is completely fed prior to the completion of the feed of said one ribbon in either direction.

2,349,770

PROCESS FOR THE PRODUCTION OF TETRA-SUBSTITUTED ETHYLENES

Frank H. Tendick, Grosse Pointe Park, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application June 27, 1939, Serial No. 281,461

12 Claims. (Cl. 260—619)

1. Process for the preparation of a di-hydroxyaryl di-alkyl substituted ethylene, wherein an α, β-di-alkyl-α, β-dihydroxyaryl ethylene glycol is treated with strong mineral acid to convert the glycol into its corresponding substituted ethylene oxide, the oxide reduced with active hydrogen to form the corresponding tetra-substituted mono-hydric ethyl alcohol and the latter dehydrated by treatment with strong acid to form the corresponding unsaturated di-hydroxyaryl di-alkyl substituted ethylene.

2,349,771

PARASITICIDAL PREPARATION

William P. ter Horst, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 23, 1941, Serial No. 394,788

7 Claims. (Cl. 167—30)

1. The method of immunizing seed against attack by fungi which comprises treating said seed with tetrachlor-para-benzoquinone.

7. A seed, plant and soil fungicidal composition comprising tetrachlor-para-benzoquinone as an essential active ingredient and containing a mildly alkaline buffering agent.

2,349,772

PARASITICIDAL PREPARATION

William P. ter Horst, Pompton Plains, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 13, 1942, Serial No. 426,559

4 Claims. (Cl. 167—32)

4. A fungicidal composition comprising a carrier and 2,3-dichlor-1,4-naphthoquinone as an essential active ingredient.

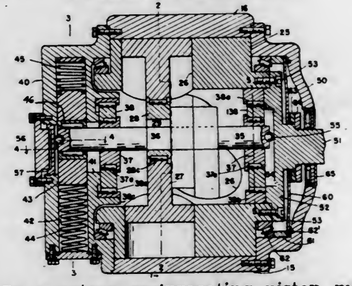
2,349,773

PUMP

Tom H. Thompson, Detroit, Mich., assignor to Builder-Thompson Engineering & Research Corporation, Detroit, Mich., a corporation of Michigan

Application September 22, 1941, Serial No. 411,775

7 Claims. (Cl. 103—38)



1. In a rotary reciprocating piston pump, a rotor including a radially arranged cylinder, a piston adapted to be reciprocated therein, eccentric means comprising a shaft and a cam thereon for causing straight line reciprocation, said eccentric means being provided with means for varying the eccentricity of said cam with respect to said shaft, and yieldable means biased to maintain said eccentric means at maximum eccentricity, said yieldable means being adapted, under the influence of pump delivery pressure, to permit decrease in said eccentricity with increase in delivery pressure.

2,349,774

ACETOXYAMINO ACIDS AND METHOD FOR THEIR PREPARATION

Gerrit Toennies, Gladwyne, Pa., assignor to The Lankenau Hospital, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application June 19, 1942, Serial No. 447,742

14 Claims. (Cl. 260—471)

1. O-acetoxyamino acids in which the amino groups are not acetylated having the following general formula: $ROCOCH_3$; said formula indicating a compound in which the —OH group of a hydroxyamino acid is replaced by —$OCOCH_3$, and the hydroxyamino acids in question being compounds which derive from α-amino carboxylic acids by the replacement of one or more carbon-bound hydrogen atoms by —OH groups.

2,349,775

FUEL REGULATOR FOR AIRCRAFT CARBURETORS

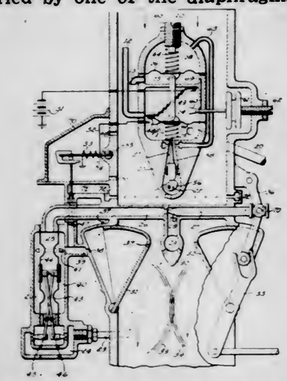
Stanley M. Udale, Detroit, Mich., assignor to George M. Holley and Earl Holley

Application January 19, 1943, Serial No. 472,909

2 Claims. (Cl. 261—39)

1. A carburetor having an air metering venturi of fixed throat area, a chamber located out of

the airstream and connected to the throat of said venturi, a second chamber also located out of the airstream and connected to a portion of the airstream having a relatively low air flow velocity, a fuel venturi of fixed size, a chamber located out of the fuel stream and connected to the throat of said fuel venturi, a second chamber also located out of the fuel stream and connected to a portion of the fuel stream having a relatively low rate of fuel flow, means including two diaphragms connected together and responsive to the pressure differences in said four chambers and adapted to balance the pressure drop in the throat of the fuel venturi against the pressure drop created in the throat of the air venturi, an electric circuit, an electrical contact carried by one of the diaphragms and lo-



cated in said circuit, a heating coil in said circuit, a heat responsive element associated with said heating coil, an electric contact mounted on said element and adapted to engage with the contact on the diaphragm, a second electrical heating coil, a second heat responsive element associated with the second heating coil, a fuel flow control valve connected to the second heat responsive element, the second electrical heating coil being in circuit with the first electrical heating coil and with the two contacts whereby when the ratio of fuel flow to air flow increases as measured by the unbalanced fuel and air pressure acting upon the said diaphragms, the second heat responsive element is heated and deformed so as to move the fuel flow control valve in the direction which will cause a reduction in fuel flow.

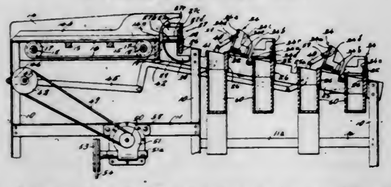
2,349,776

FRUIT SIZING MACHINE

Arnold E. Ulrich, Rochester, Minn.

Application September 12, 1942, Serial No. 458,074

6 Claims. (Cl. 209—85)



1. A fruit sizing device having in combination, a series of swinging receptacles each having one or more fruit receiving compartments therein, said receptacles having sides extending substantially at right angles to each other, one of said sides being adapted to be brought into substantially horizontal position for receiving a specimen of fruit and the other side being adapted to be brought into substantially horizontal position for discharging said specimen, said first mentioned side having an opening therethrough through which fruit of a certain size may drop, said second mentioned side of said receptacle having a step therein intermediate of its width having a restricted surface thus causing the specimen of fruit on the step to tilt over the edge of said step when said receptacle is swung to discharging position thus starting the movement of said specimen and assisting to discharge from said receptacle.

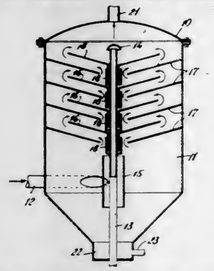
2,349,777

METHOD AND APPARATUS FOR SEPARATING ENTRAINED MATERIAL FROM GASES

Ernest Utterback, Upper Darby, and William A. Hagerbaumer, Merwood Park, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application October 28, 1941, Serial No. 416,812

5 Claims. (Cl. 261—112)



1. Apparatus for separating tar from hydrocarbon oils comprising a substantially vertical cylindrical casing, a tangentially disposed inlet port in the wall of the lower portion of said casing, an oil inlet pipe extending upward from the bottom to near the top of said casing concentric therewith, an oil reservoir about the upper end of said pipe and spaced therefrom, an annular dam integral with and extending upwardly from the bottom of said reservoir and defining an annular opening therein concentric with said pipe, said dam having its upper edge substantially lower than the upper end of said pipe, means to admit oil to said reservoir, a sleeve about and spaced from said pipe in the lower part of said casing near said inlet port, a plurality of frusto-conical inner baffles above said port, each substantially concentric with said pipe and extending from said pipe upwardly toward said casing and having their outer edges spaced from said casing, an outer baffle between each pair of adjacent inner baffles parallel therewith, extending from said casing downwardly and having its inner edge spaced from said pipe, means between each of said inner baffles and said pipe defining a liquid seal to permit constant downward liquid flow between each inner baffle and said pipe and inhibiting upward flow of gases therebetween, means to withdraw gases from the top of said casing, and means to withdraw liquid from the bottom of said casing.

3. A method for separating tar from hydrocarbon oils which comprises vaporizing said oils, maintaining a flow of flux oil down a substantially vertical surface and repeatedly effecting flow of the vaporized oils against said liquid at high velocity in successive curved paths countercurrent to said liquid and tangential to said surface.

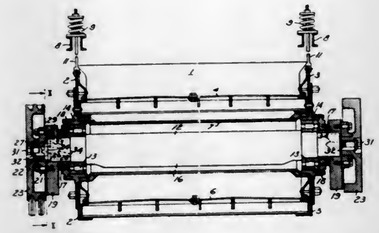
2,349,778

ADJUSTABLE THROW GYRATING MECHANISM

Leo Teplow, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application July 30, 1942, Serial No. 452,837

9 Claims. (Cl. 74—61)



1. Gyrating mechanism comprising a shaft rotatably supported in a structure adapted to be gyrated, eccentric weights carried by said shaft for relative angular adjustment thereon, a pulley connected with said shaft for translatory movement relative thereto and for rotating said shaft as said pulley is turned, and compound eccentric means rendering the angular adjustment of one of said eccentric weights effective to translate said pulley relative to said shaft and to a position in which the center of the pulley is in substantial coincidence with the axis about which the shaft will gyrate when rotated.

2,349,779

SYNTHESIS OF ARYL-ALKYL-HALOGENO-ETHANES

Gerrit John Van Zoeren, Holland, Mich., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio, a corporation of Delaware

No Drawing. Application October 12, 1940, Serial No. 360,963

6 Claims. (Cl. 260—651)

4. The process for the synthesis of aralkyl-halogeno-ethane which comprises mixing crotyl halide with a substance of the class consisting of benzene and naphthalene, the alkyl substitution products thereof, and the halogen substitution products thereof, in the presence of strong sulfuric acid, and separating the aralkyl-halogeno-ethane.

5. The process for the synthesis of aralkyl-halogeno-ethane which comprises mixing methyl-vinyl-carbonyl halide with a substance of the class consisting of benzene and naphthalene, the alkyl substitution products thereof, and the halogen substitution products thereof, in the presence of strong sulfuric acid, and separating the aralkyl-halogeno-ethane.

2,349,780

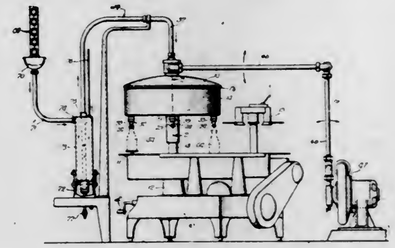
AUTOMATIC BOTTLE FILLING APPARATUS

Charles F. Weinreich, Des Plaines, Ill., and Adolph J. Lippold, Milwaukee, Wis., assignors to Cherry-Burrell Corporation, Wilmington, Del., a corporation

Application March 1, 1940, Serial No. 321,682

29 Claims. (Cl. 226—116)

1. In a device of the type described, a closed reservoir for liquid having an aperture in the lower portion thereof, a valve means for controlling the flow of liquid from said reservoir through said aperture into a container to be filled with liquid, means for supplying liquid into said reservoir, means connected to said reservoir for partially evacuating said reservoir, means for partially evacuating said container when in po-



sition to be filled by said valve means and for continuing to evacuate said container during the flow of liquid from said reservoir into said container, and an air trap in said liquid supply means for separating entrained air from the liquid being supplied to said reservoir.

2,349,781

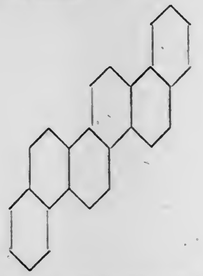
PRODUCTION OF AROMATIC HYDROCARBONS

Charles Weizmann, London, England

No Drawing. Application October 14, 1941, Serial No. 414,981. In Great Britain May 20, 1940

5 Claims. (Cl. 260—668)

1. As a new product, the hydrocarbon 1.2-(2′.1′-naphtho)-7.8-benzo-phenanthrene, having the structural formula:



said hydrocarbon having a melting point of about 288° C. and crystallizing in golden leaflets.

2,349,782

CURRENT TRANSFORMER

Karl Wethmüller, Berlin-Baumschulenweg, Germany, assignor to General Electric Company, a corporation of New York

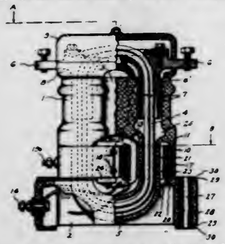
Application August 1, 1941, Serial No. 405,091

In Germany March 29, 1940

5 Claims. (Cl. 175—358)

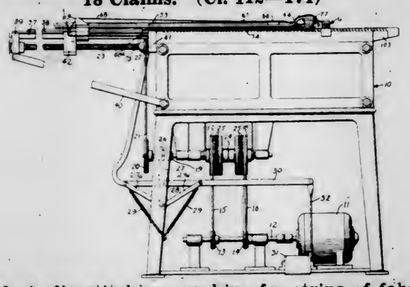
1. A transformer comprising a primary winding, a rigid tubular insulating body around said winding, a magnetic core surrounding a part of said body, said part of said body having an inner surface relatively closely fitting said primary winding and the remainder of the inner surface of said body being spaced from said primary winding so as to substantially prevent contact between said winding and said remainder of the inner surface of said body, means including integral portions of said body supporting said

core around said body, means including certain of said integral portions forming a supporting base for said transformer, and means including



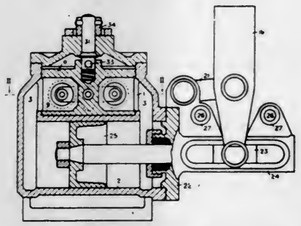
said magnetic core structure relatively closely fitting said body part for bracing said part and for absorbing forces due to said primary winding upon short circuit.

2,349,783
NECKTIE SEWING MACHINE
Abraham I. Zimmer, Bridgeport, Conn.
Application February 19, 1941, Serial No. 379,598
18 Claims. (Cl. 112—174)



6. A slip stitching machine for strips of fabric comprising a work holder having on its surface a series of transverse ridges; a rotary member for crimping fabric positioned on the surface of said work holder having teeth intermeshing with the ridges of the work holder and mounted to roll back and forth over the surface of the work holder, the latter having a longitudinal groove traversing the ridges thereof and the teeth of said rotary member having a peripheral groove aligned with the groove of said work holder, said grooves forming a through passage between the work holder and the rotary member; a needle having an eye at its tip and mounted within the groove of the work holder to extend into said through passage; means for reciprocating the rotary member relative to the work holder; cooperating means for reciprocating the needle in the groove of the work holder, the tip of the needle being maintained in said through passage during the forward stroke of the needle relative to the work holder, said rotary member and work holder being adapted to cooperate during the forward stroke of the needle to progressively form and release a series of folds or convolutions in a piece of fabric overlying the work holder groove, said needle being adapted to impale successive folds as they are formed and to carry a thread therethrough; and means to the rear of the rotary member for clamping material crimped thereby and impaled by said needle, said means having an work-engaging portion which maintains a fixed position relative to the work holder surface during clamping engagement with the fabric and engaging said fabric at spaced intervals, whereby no distorting tension is applied to said fabric.

2,349,784
RECIPROCATING PUMP
Jean Zwicky, deceased, late of Burnham, England, by William Francis Hunt and Olga Frances Hunt, executors, Slough, England
Application July 17, 1942, Serial No. 451,264
In Great Britain May 6, 1941
9 Claims. (Cl. 103—175)



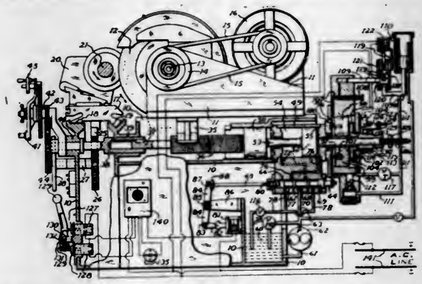
1. In a reciprocating pump the combination of a cylinder casting comprising a cylinder and a substantially circular valve chest with channels leading from the respective ends of the cylinder to diametrally opposite ports in said valve chest and inlet and outlet connections also at diametrally opposite points of said valve chest and spaced from said channels, a valve structure rotatable within said valve chest through a half turn from one operative position to another to reverse the action of the pump and comprising parallel ported plates dividing said valve chest to separate said inlet and outlet connections and making joint with it in both operative positions on opposite sides of said channels, a partition dividing the space between said parallel plates and separating said channels, and spring-pressed valves controlling the ports in said plates.

2,349,785
CORROSION INHIBITOR FOR LUBRICATING OILS
Jacob Faust, Belleville, N. J., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application July 15, 1943, Serial No. 494,837
5 Claims. (Cl. 252—395)

1. Method of preparing a corrosion inhibitor for compounding with a lubricating oil normally corrosive to cadmium-silver and copper-lead bearings, which comprises reacting a mahogany petroleum sulphonate selected from the group consisting of alkali and alkaline earth metal mahogany petroleum sulphonates in solution in a petroleum hydrocarbon oil of the lubricating oil series with phosphorus penta sulphine until completion of the reaction.

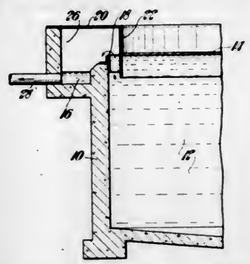
2,349,786
GRINDING WHEEL FEEDING MECHANISM
Carl G. Flygare and Walter F. Johnson, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application February 12, 1942, Serial No. 430,664
5 Claims. (Cl. 51—95)

1. In a grinding machine having a transversely movable slide, a rotatable grinding wheel, means including a piston and cylinder rapidly to move said slide and grinding wheel transversely in either direction to position the grinding wheel relative to a work piece to be ground, means operative after a rapid advancing movement of the grinding wheel to produce a slower initial grinding feed of the grinding wheel, a solenoid valve to reduce the rate of infeed, an electric switch to control said solenoid, and adjustable means which is adjustably supported



relative to and movable with said piston and wheel slide for actuating said switch after a predetermined initial feed so as to produce a slower final or finishing feed of the grinding wheel.

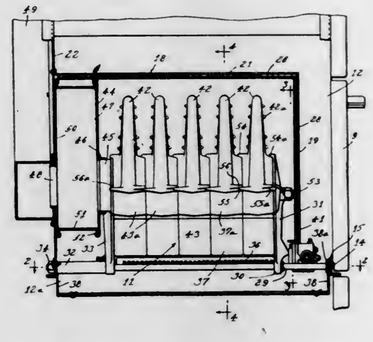
2,349,787
METHOD AND MEANS FOR ELIMINATING FOG FROM WARM BODIES OF WATER
Arthur B. Haswell, Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company, a corporation of Tennessee
Application February 12, 1942, Serial No. 430,668
4 Claims. (Cl. 21—60.5)



1. In the treatment of flue dust, the method which comprises introducing hot flue dust into a body of water, thus tending to produce a fog, and floating a protective blanket of liquid which is not subject to fogging on said water body, to prevent fog from forming and arising from said body.

2,349,788
KITCHEN HEATING GAS RANGE
John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Original application September 5, 1939, Serial No. 293,388. Divided and this application June 17, 1940, Serial No. 340,889
5 Claims. (Cl. 126—90)

1. A heater comprising, in combination, a plurality of hollow radiator sections, each comprising an inverted generally U-shaped tubular body portion of small dimension longitudinally and appreciably greater dimension transversely, said body communicating at one end with a transverse tubular end portion and having the other end communicating with another transverse tubular end portion in parallel, laterally spaced, separated relationship to the first end portion, the sections being disposed in assembled relation with the first-mentioned end portions in end to end abutment whereby mutually to provide a combustion chamber of relatively enlarged capacity adapted to receive an elongated burner and the second-mentioned end portions in end to end abutment whereby mutually to provide an outlet manifold of relatively reduced capacity, an end plate for each end of said assembly, one of said plates closing the adjacent ends of the combustion chamber and outlet manifold, and the other end plate closing the other end of the combustion chamber and outlet manifold and having an opening provided therein communicating with the adjacent end of the outlet manifold for the discharge therethrough of products of combustion, each of the sections having longitudinal projections on top of the end portions thereof on

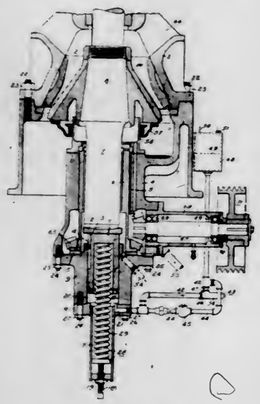


one abutting face of the section arranged to overlie the top of the abutting end portions of the next section, each of said sections also having other longitudinal projections on the same abutting face on diametrically opposite sides of the section arranged to underlie lateral projections provided on diametrically opposite sides of the abutting end portions of the next section, whereby to maintain said sections against relative rotary displacement while in assembled relationship, and a single through bolt extending longitudinally of the assembly from one end plate to the other between the first named tubular end portions forming the combustion chamber and the other portions forming the outlet manifold and serving to force the end plates toward one another whereby to secure the sections together in assembled relation.

2,349,789
CONCENTRATION AND PRESERVATION OF TOCOPHEROL
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application October 30, 1942, Serial No. 463,896
9 Claims. (Cl. 260—333)

1. The process of preparing a tocopherol concentrate which comprises reducing a lighter than water complex mixture which contains tocopherol and which is derived from the inert gas after it has been passed through a member of the group consisting of tocopherol-containing vegetable and animal oils during vacuum-inert gas deodorization.

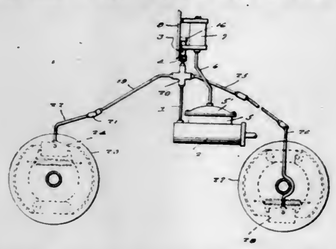
2,349,790
GYRATORY CRUSHER
William C. Johnson, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application January 30, 1943, Serial No. 474,079
15 Claims. (Cl. 83—10)



1. In a crusher comprising relatively movable crushing members, means to impart a normal relative crushing movement to said members, support means including normally closed expansible chamber hydraulic means supporting one of said members in relation to the other and normally constraining said one member to a position in a predetermined path of normal relative crushing movement, said support means being so constructed and arranged that the pressure in said hydraulic expansible chamber is proportional to the crushing pressure on said members, fluid pressure relief means responsive to abnormal pressure caused by uncrushable substance between said members to allow fluid discharge from and contraction of said chamber and abnormal relative movement of said members to avoid excessive pressure, a fluid reservoir, conduit means connecting said reservoir with said hydraulic chamber, means in said conduit permitting fluid flow from said reservoir to said chamber and preventing reverse flow, elastic means deformable by abnormal movement of said members and said hydraulic chamber means and tending to urge said members and said expansible chamber means towards their predetermined normal positions and causing said expansible chamber means to draw in fluid to replace fluid discharged therefrom.

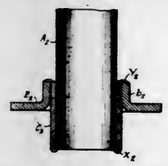
2,349,791
HYDRAULIC BRAKE SYSTEM
Walter C. Johnson, Bemus Point, N. Y.
Application June 28, 1943, Serial No. 492,604
2 Claims. (Cl. 188—152)

1. In a hydraulic brake system for automobiles having front and rear pairs of brake cylinders, a fluid pressure master cylinder having a pressure discharge end and a fluid supply chamber surmounting the same, an upright sight glass tube vented at its upper end to the atmosphere for the escape of air therefrom, and disposed at a higher level than said chamber, an upright fluid pressure line connecting the top of said chamber to the bottom of said tube to permit overflow of fluid from the chamber into said tube to indicate that said chamber is full, an upright fluid pressure line arising from the discharge end of said master cylinder, branch fluid pressure lines extending laterally from said upright line to the front and rear pairs of brake cylinders, respectively, a tell-tale sight glass tube arising from the upper end of said upright line and into which



fluid under pressure may enter to indicate by air bubbles therein the presence of air in said system, and means to establish communication between said tell-tale tube and said first tube at will whereby fluid under pressure in the system may discharge into said first tube and air in the system be vented from said first tube to bleed the system of air.

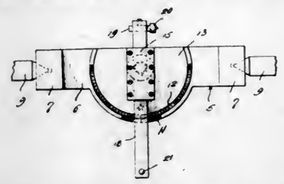
2,349,792
TUBE AND SHEET CONNECTION
Curt Fredrik Rosenblad, Stockholm, Sweden, assignor to Aktiebolaget Rosenblads Patenter, Stockholm, Sweden, a corporation of Sweden
Application September 24, 1940, Serial No. 358,140
In Sweden August 16, 1939
4 Claims. (Cl. 285—111)



1. In a tube and sheet connection for a sheet having an opening, a tube with an end portion thereof projecting through said opening, a sleeve fitted in said opening and received over said end portion of said tube so that the juxtaposed terminal edges of both are disposed at a distance from one side of the sheet, said tube and said sleeve being joined at said terminal edges by welding, said distance being sufficient so that said sleeve may be shortened repeatedly to permit the repeated removal and replacement of the tube, and a cuff consisting of a portion of the sheet projecting from the opposite side of the sheet from which the end portion of said tube projects, and extending around said opening while embracing an end portion of the sleeve extending at said opposite side, said sleeve being secured to said cuff by welding at the juxtaposed terminal edges of both.

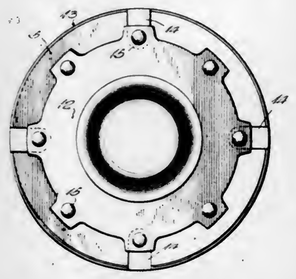
2,349,793
DRESSING TOOL
John N. Stewart, Detroit, Mich.
Application September 7, 1943, Serial No. 501,477
2 Claims. (Cl. 125—11)

1. In a dressing tool, a pivotally supported mounting, a tool holder rotatably attached to the mounting, a tool slidably supported by said holder, said holder and mounting having coacting scale markings thereon, and an adjustable



means between the support of said mounting and the latter for adjustably restraining the pivotal movement of the mounting.

2,349,794
RESILIENT, PUNCTURE-PROOF AUTOMOBILE WHEEL
Vincent J. Stewart, Tallahassee, Fla.
Application May 31, 1943, Serial No. 489,200
2 Claims. (Cl. 152—105)



1. A wheel comprising an outer and an inner part capable of vertical movement with respect to each other, said outer part comprising an annular felloe having a plurality of radial sockets formed therein and open at its inner face and said inner part comprising a pair of clamp plates, and means for forcibly drawing said plates together, said plates comprising parts spaced apart to leave a peripheral channel extending around said inner parts, a group of helical springs, means for anchoring the outer ends of said springs in the sockets of the felloe, the inner ends of said springs lying within said peripheral channel and terminating in inturned terminal ends which project inwardly between the plates and are forced by one of said plates into the side face of the other of said plates to thereby anchor the inner ends of said springs, a cap plate disposed in overlapping and bearing relation to said inner and outer parts and secured to said outer part only, a ring plate secured to said felloe and disposed in overlapping and bearing relation against the inner side of said inner and outer parts, one of said clamp plates comprising a part of reduced diameter disposed toward the other of said plates, the periphery of which constitutes the bottom of said peripheral channel, the bottoms of the springs bearing upon said part of reduced diameter.

2,349,795
DERIVATIVES OF 2,4-OXAZOLIDINEDIONE
Roger W. Stoughton, Ferguson, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application January 14, 1942, Serial No. 426,783
4 Claims. (Cl. 260—307)

1. A compound selected from the group consisting of 5-methyl-5-n-butyl-2,4-oxazolidinedione, 5-methyl-5-n-amyl-2,4-oxazolidinedione, 5-ethyl-5-isoamyl-2,4-oxazolidinedione, and 5-ethyl-5-n-amyl-2,4-oxazolidinedione, said compound being prepared for use as a therapeutic.

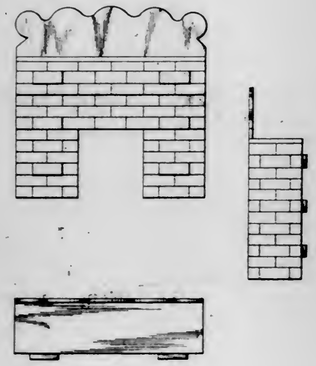
2,349,796
DERIVATIVES OF 2,4-OXAZOLIDINEDIONE
Roger W. Stoughton, Ferguson, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application January 14, 1942, Serial No. 426,784
4 Claims. (Cl. 260—307)

1. A compound selected from the group consisting of 5-methyl-5-n-hexyl-2,4-oxazolidinedione, 5-methyl-5-n-heptyl-2,4-oxazolidinedione, 5-ethyl-5-cyclohexyl-2,4-oxazolidinedione, 5-ethyl-5-n-hexyl-2,4-oxazolidinedione, and 5-ethyl-5-n-heptyl-2,4-oxazolidinedione, said compound being prepared for use as a therapeutic.

DESIGNS

MAY 23, 1944

137,941
DESIGN FOR A BUFFET OR SIMILAR ARTICLE
Virgil G. Beauchamp, Chapin, Ill.
Application December 6, 1943, Serial No. 111,927
Term of patent 14 years
(Cl. D33—6)



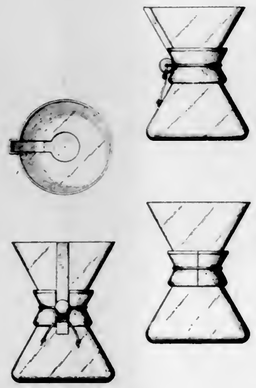
The ornamental design for a buffet or similar article, as shown.

137,942
DESIGN FOR A DOOR PLAQUE
Joseph P. Siewing, St. Louis, Mo.
Application October 6, 1943, Serial No. 111,280
Term of patent 3½ years
(Cl. D29—23)



The ornamental design for a door plaque, as shown.

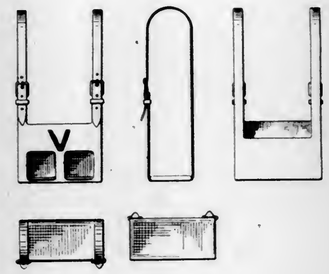
137,943
DESIGN FOR A COMBINED FLASK AND HANDLE FOR A COFFEEMAKER OR THE LIKE
Peter Schlumbohm, New York, N. Y., assignor to Chemex Corporation, New York, N. Y., a corporation of New York
Application January 12, 1943, Serial No. 109,245
Term of patent 14 years
(Cl. D44—26)





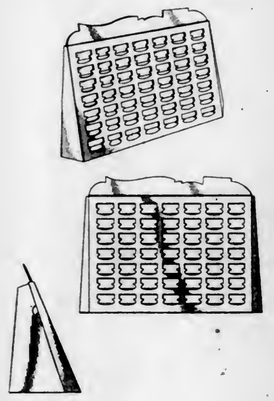
The ornamental design for a combined flask and handle for a coffeemaker or the like, as shown.

137,944
DESIGN FOR A BABY CARRIER
Lillian C. Lloyd, Woodside, N. Y.
Application September 25, 1943, Serial No. 111,208
Term of patent 3½ years
(Cl. D15—8)



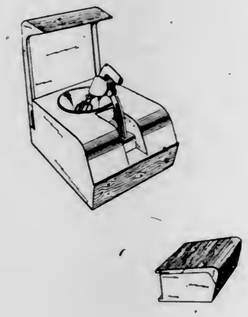
The ornamental design for a baby carrier, substantially as shown.

137,945
DESIGN FOR A DISPLAY RACK
Morris Geller, Oak Park, and Ralph M. Soule, La Grange Park, Ill.
Application February 12, 1944, Serial No. 112,546
Term of patent 3½ years
(Cl. D80—9)



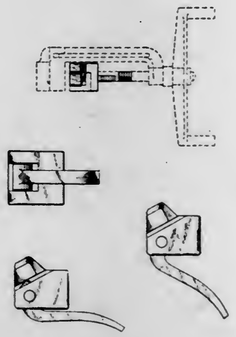
The ornamental design for a display rack, as shown.

137,946
DESIGN FOR A FOOD MIXING UNIT OR SIMILAR ARTICLE
Halbert Creston Doner, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application September 27, 1943, Serial No. 111,215
Term of patent 14 years
(Cl. D44—1)



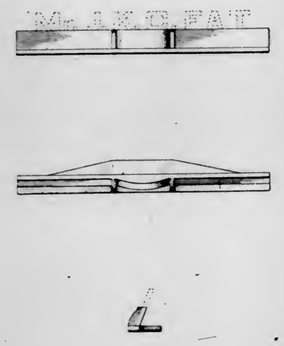
The ornamental design for a food mixing unit or similar article, substantially as shown and described.

137,947
DESIGN FOR A TOOL FOR APPLYING HOSE CLAMPS OR THE LIKE
Harold H. Beardsley, Denver, Colo., assignor to Band-It Company, Denver, Colo., a corporation of Colorado
Application August 10, 1943, Serial No. 110,879
Term of patent 14 years
(Cl. D54—13)



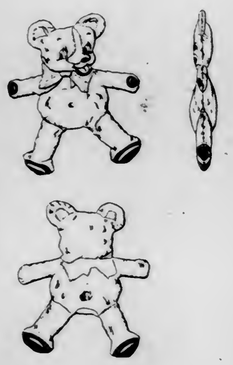
The ornamental design for a tool for applying hose clamps or the like, as shown and described.

137,948
DESIGN FOR A DESK SIGN
Joseph K. Chun Fat, Honolulu, Territory of Hawaii
Application November 18, 1943, Serial No. 111,717
Term of patent 14 years
(Cl. D1—12)



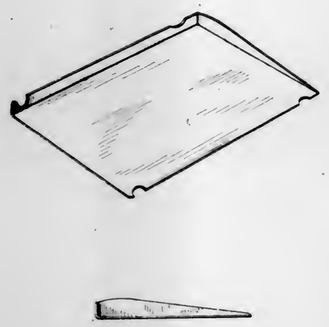
The ornamental design for a desk sign, as shown.

137,949
DESIGN FOR A TOY BEAR OR SIMILAR ARTICLE
Zinaida Harpignies, New York, N. Y.
Application February 16, 1944, Serial No. 112,603
Term of patent 3½ years
(Cl. D34—2)



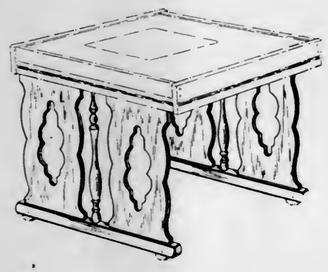
The ornamental design for a toy bear or similar article, as shown.

137,950
DESIGN FOR A HOLDER FOR RECEIPT PADS OR THE LIKE
Paul Howard, Jacksonville, Fla.
Application March 21, 1944, Serial No. 112,977
Term of patent 7 years
(Cl. D74—1)



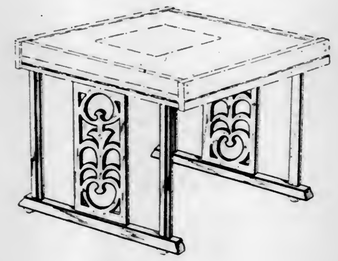
The ornamental design for a holder for receipt pads or the like, as shown.

137,951
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application January 31, 1944, Serial No. 112,377
Term of patent 14 years
(Cl. D33—14)



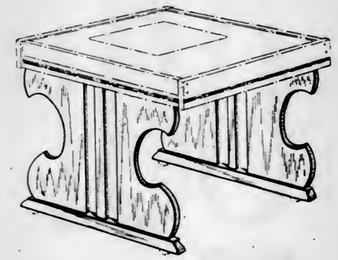
The ornamental design for a child's feeding and play table, as shown and described.

137,952
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application January 31, 1944, Serial No. 112,378
Term of patent 14 years
(Cl. D33—14)



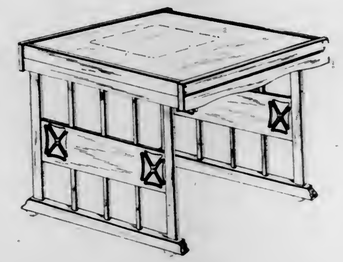
The ornamental design for a child's feeding and play table, as shown and described.

137,953
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application January 31, 1944, Serial No. 112,379
Term of patent 14 years
(Cl. D33—14)



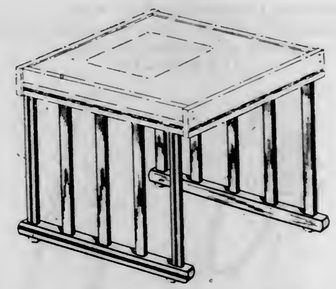
The ornamental design for a child's feeding and play table, as shown and described.

137,954
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application January 31, 1944, Serial No. 112,381
Term of patent 14 years
(Cl. D33—14)



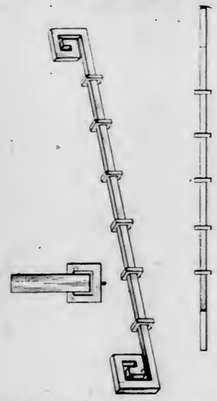
The ornamental design for a child's feeding and play table, as shown and described.

137,955
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application March 20, 1944, Serial No. 112,972
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a child's feeding and play table, as shown and described.

137,956
DESIGN FOR A COMBINATION CURTAIN ROD AND SUSPENDING MEANS
Edith Weis, New York, N. Y.
Application March 10, 1944, Serial No. 112,859
Term of patent 14 years
(Cl. D21—1)



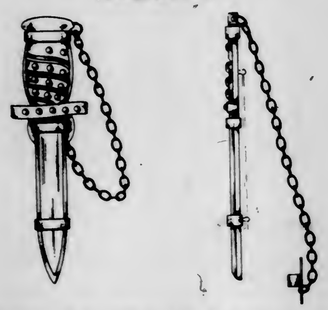
The ornamental design for a combination curtain rod and suspending means, substantially as shown.

137,957
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Jack Wiener, New York, N. Y.
Application April 8, 1944, Serial No. 113,193
Term of patent 3½ years
(Cl. D92—1)



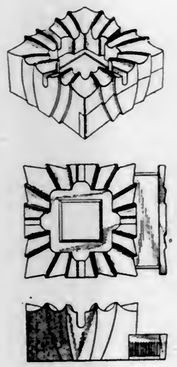
The ornamental design for an embroidered trimming or the like, as shown.

137,958
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Herman Pomerantz, New York, N. Y.
Application April 25, 1944, Serial No. 113,368
Term of patent 3½ years
(Cl. D45—19)



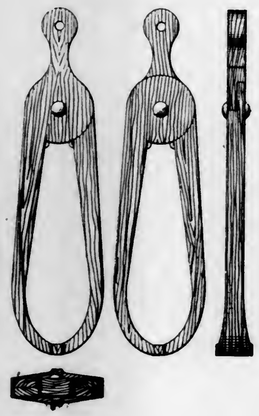
The ornamental design for a brooch or similar article, substantially as shown.

137,959
DESIGN FOR A COMBINED ASH TRAY AND COASTER OR SIMILAR ARTICLE
Max L. Goldbert, New York, N. Y.
Application February 19, 1944, Serial No. 112,639
Term of patent 14 years
(Cl. D85—2)



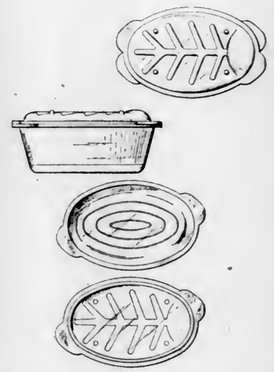
The ornamental design for a combined ash tray and coaster or similar article, as shown.

137,960
DESIGN FOR A LAUNDRY TONGS
Emma G. Hager, Max Meadows, Va.
Application March 16, 1944, Serial No. 112,919
Term of patent 14 years
(Cl. D49—1)



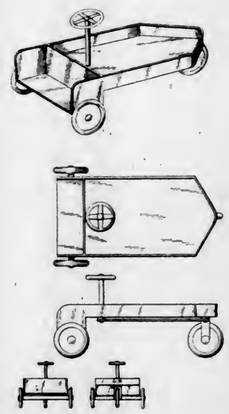
The ornamental design for a laundry tongs, as shown.

137,961
DESIGN FOR A COMBINED CASSEROLE AND SERVING PLATTER
Thomas Kapner, Bellaire, Ohio, and David Kamenstein, New York, N. Y.
Application March 10, 1944, Serial No. 112,850
Term of patent 3½ years
(Cl. D44—15)



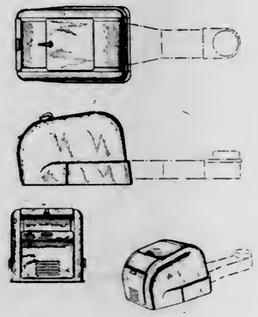
The ornamental design for a combined casserole and serving platter, as shown and described.

137,962
DESIGN FOR A COASTER WAGON OR SIMILAR ARTICLE
Saul Patner, Chicago, Ill.
Application January 29, 1944, Serial No. 112,370
Term of patent 14 years
(Cl. D34—15)



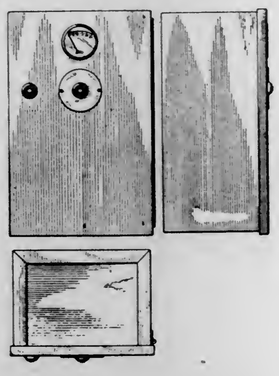
The ornamental design for a coaster wagon or similar article, substantially as shown.

137,963
DESIGN FOR A STOKER
Arthur O. Dady, Flossmoor, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 2, 1943, Serial No. 111,253
Term of patent 7 years
(Cl. D81—1)



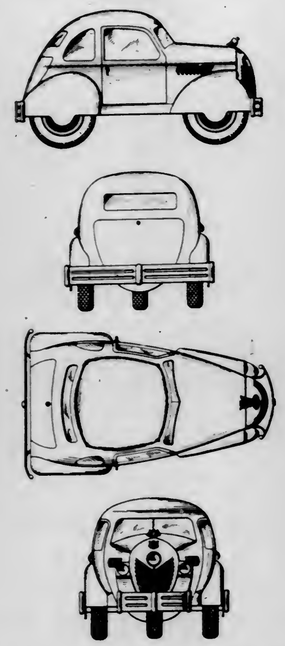
The ornamental design for a stoker, substantially as shown and described.

137,964
DESIGN FOR AN ALARM CONTROL BOX OR SIMILAR ARTICLE
Arthur W. Fruh, Chicago, Ill.
Application April 15, 1943, Serial No. 109,975
Term of patent 14 years
(Cl. D26—5)



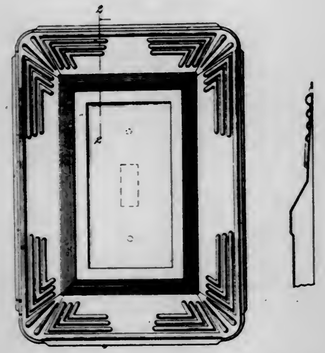
The ornamental design for an alarm control box or similar article, substantially as shown.

137,965
DESIGN FOR A MOTOR VEHICLE
Levina W. Harris, Portland, Oreg.
Application September 14, 1943, Serial No. 111,123
Term of patent 7 years
(Cl. D14—3)



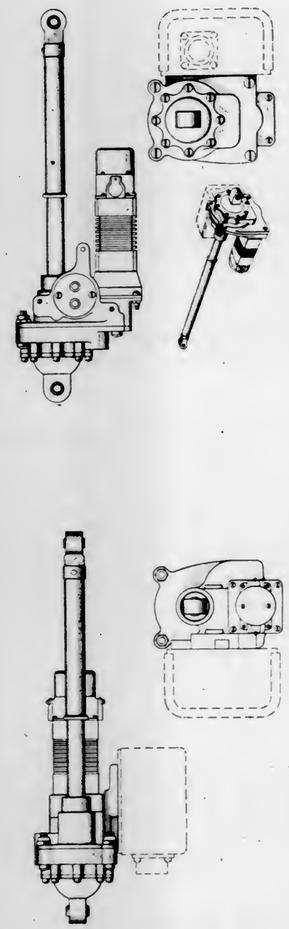
The ornamental design for a motor vehicle, as shown.

137,966
DESIGN FOR A WALL PROTECTOR FOR ELECTRIC FLUSH SWITCHES
Mathilda R. Kessler, Chicago, Ill.
Application February 14, 1944, Serial No. 112,573
Term of patent 7 years
(Cl. D26—13)



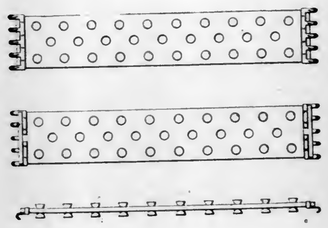
The ornamental design for a wall protector for electric flush switches, as shown and described.

137,967
DESIGN FOR A LINEAR ACTUATOR UNIT FOR OPERATING MOVABLE PARTS OF AN AIRPLANE OR THE LIKE
William P. Lear, Piqua, Ohio, assignor to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois
Application April 1, 1943, Serial No. 109,884
Term of patent 14 years
(Cl. D26—5)



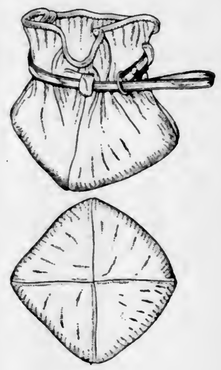
The ornamental design for a linear actuator unit for operating movable parts of an airplane or the like, substantially as shown and described.

137,968
DESIGN FOR A GARMENT SUPPORTER
Walter M. O'Neal, Grass Valley, Calif.
Application February 20, 1943, Serial No. 109,587
Term of patent 14 years
(Cl. D3—10)



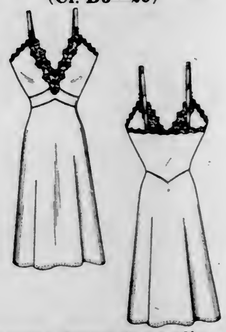
The ornamental design for a garment supporter, as shown.

137,969
DESIGN FOR A HANDBAG
William D. Phelps, New York, N. Y., assignor to Mark Cross Company, New York, N. Y., a corporation of New York
Application April 2, 1943, Serial No. 109,891
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a handbag or the like, substantially as shown.

137,970
DESIGN FOR A SLIP OR SIMILAR ARTICLE
Semon Wolf, New York, N. Y.
Application March 6, 1944, Serial No. 112,790
Term of patent 14 years
(Cl. D3—26)



The ornamental design for a slip or similar article, substantially as shown.

137,971
DESIGN FOR A ROCKING HORSE
Walter A. Hartwig, West Allis, Wis.
Application February 2, 1944, Serial No. 112,410
Term of patent 14 years
(Cl. D34—15)



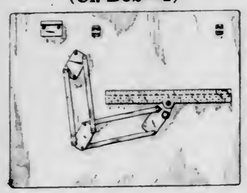
The ornamental design for a rocking horse, as shown.

137,972
DESIGN FOR A DOLL OR SIMILAR ARTICLE
Mieczyslaw Szrajer, Forest Hills, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application March 15, 1944, Serial No. 112,909
Term of patent 7 years
(Cl. D34—4)



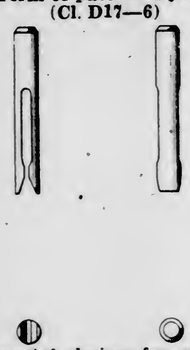
The ornamental design for a doll or similar article, substantially as shown.

137,973
DESIGN FOR A PLOTTING BOARD
Ingram Victor Stovern, Sheboygan, Wis., assignor to Estate of Harold L. De Lisle, a trust, doing business as Engineering Sales Company, Sheboygan, Wis.
Application March 3, 1944, Serial No. 112,778
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a plotting board, as shown.

137,974
DESIGN FOR A CLOTHESPIN
George A. Kneedler, Vernon, Tex.
Application April 6, 1944, Serial No. 113,159
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothespin, as shown.

137,975
DESIGN FOR A SLEEVELESS DRESS
Edward Pransky, Dorchester, Mass.
Application April 25, 1944, Serial No. 113,367
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a sleeveless dress, substantially as shown.

137,976
DESIGN FOR A DRESS
Belle Zanderer, New York, N. Y.
Application April 25, 1944, Serial No. 113,369
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott, Donald B., Mamaroneck, N. Y. Auxiliary sail boats. Serial No. 467,213; May 23. Class 19.
Abbott, Donald B., Mamaroneck, N. Y. Auxiliary sail boats. Serial No. 467,215; May 23. Class 19.
Adler Co., The, Cincinnati, Ohio. Knitted cotton tubing. Serial No. 468,059; May 23. Class 42.
American Soil Products Co., Inc., New York, N. Y. Hand garden seeder. Serial No. 467,743; May 23. Class 23.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. Serial No. 442,823; May 23. Class 15.
B. V. D. Corporation, The, Baltimore, Md. Cotton piece goods. Serial No. 466,687; May 23. Class 42.
Bates, C. J., & Son, Chester, Conn. Manicure implements. Serial Nos. 466,423–4; May 23. Class 44.
Bauernfreund, Max, doing business as French Powder Puff Co., New York, N. Y. Powder puffs and powder mitts. Serial No. 467,119; May 23. Class 29.
Beatrice Creamery Company, Chicago, Ill. Soya-cream salad dressing, garlic sauce, Worcestershire sauce, etc. Serial No. 468,335; May 23. Class 46.
Beebe Laboratories, Inc., St. Paul, Minn. Powerful germicide, antiseptic and disinfectant. Serial No. 468,367; May 23. Class 6.
Beebe Laboratories, Inc., St. Paul, Minn. Product to inject hypodermically into cattle. Serial No. 468,369; May 23. Class 6.
Blatchford Company, The. (See Blatchford, James E.)
Blatchford, James E., doing business as The Blatchford Company, Altoona, Pa. Women's and misses' fur coats, fur scarfs, fur-trimmed coats, etc. Serial No. 463,412; May 23. Class 39.
Brucon Company, San Francisco, Calif. Hydraulic pump and ram units and vises. Serial No. 461,887; May 23. Class 23.
Cavendish Trading Corporation, New York, N. Y. Paper products. Serial No. 467,751; May 23. Class 37.
Cerex Products. (See Reinsch, Charles.)
Cluett, Peabody & Co., Inc., Troy, N. Y. Piece goods. Serial No. 467,269; May 23. Class 42.
Columbia Broadcasting System, Inc., New York, N. Y. Radio and television transmitting and receiving apparatus and component parts therefor. Serial No. 467,840; May 23. Class 21.
Compotite Shower Pan. (See Morthland, Glenn A.)
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 467,915; May 23. Class 6.
Dare, Phyllis. (See MacBird, Phyllis.)
Diadem, Inc., Leominster, Mass. Coiffure combs and hat fasteners. Serial Nos. 455,257–8; May 23. Class 40.
Diagraph-Bradley Stencil Machine Corporation, St. Louis, Mo. Fountain brushes. Serial No. 469,190; May 23. Class 29.
Dietzgen, Eugene, Co., Chicago, Ill. Drafting material and supplies. Serial No. 444,964; May 23. Class 37.
Eisenstadt Manufacturing Company, St. Louis, Mo. Purses, billfolds, hand bags, etc. Serial No. 463,478; May 23. Class 3.
Electric Storage Battery Company, The, Philadelphia, Pa. Storage batteries, their parts and accessories. Serial No. 468,601; May 21. Class 21.
Electro-King Mfg. Company, Chicago, Ill. Automatic stokers. Serial No. 466,405; May 23. Class 34.
Epstein, Burney, New York, N. Y. Ladies' and misses' knitted blouses and sweaters. Serial No. 468,504; May 23. Class 39.
Everfast Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 467,605; May 23. Class 42.
Everfast Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 467,657; May 23. Class 42.
Everfast Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 467,917; May 23. Class 42.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. Serial No. 468,505; May 23. Class 38.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. Serial Nos. 468,507–9; May 29. Class 38.
Filtrol Corporation, Los Angeles, Calif. Chemically treated colloidal clay. Serial No. 468,235; May 23. Class 6.
Freedom Oil Company, Freedom, Pa. Lubricating oils and greases. Serial No. 468,411; May 23. Class 15.
Freedom Oil Company, Freedom, Pa. Lubricating oils and greases. Serial No. 468,413; May 23. Class 15.
French Powder Puff Co. (See Bauernfreund, Max.)
General Mills, Inc., Minneapolis, Minn. Muffin mix. Serial No. 466,440; May 23. Class 46.
General Mills, Inc., Minneapolis, Minn. Pancake and waffle mix. Serial No. 466,441; May 23. Class 46.
General Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 467,450; May 23. Class 46.
Guarascio, Joseph, San Jose, Calif. Laxative preparation. Serial No. 467,153; May 23. Class 6.
Hampton Company, Easthampton, Mass. Plied yarns. Serial No. 468,841; May 23. Class 43.
Haviland Laboratories, Inc., New York, N. Y. Soaps. Serial No. 468,141; May 23. Class 4.
Haviland Laboratories, Inc., New York, N. Y. Perfumes, toilet water, bath oil, etc. Serial No. 468,142; May 23. Class 6.
Hay, Howard M., Chicago, Ill. Games. Serial No. 467,927; May 23. Class 22.
Hoffmann, Aloys, Albuquerque, N. Mex. Frozen confections. Serial No. 467,456; May 23. Class 46.
Hunn, L. S., doing business as L. S. Hunn Packing Co., Woodlake, Calif. Canned olives. Serial No. 467,068; May 23. Class 46.
Hunn, L. S., Packing Co. (See Hunn, L. S.)
Imperial Chemical (Pharmaceuticals) Limited, Slough, England. Cetyltrimethylammonium bromide. Serial No. 463,202; May 23. Class 6.
Independent Directory Corp., Chicago, Ill. Business and industrial buyers guide classified telephone directory. Serial No. 467,848; May 23. Class 38.
Inland Asphalt Corporation, Chicago, Ill. Asphalts and tars treated to facilitate adhesion to undried aggregates. Serial No. 467,319; May 23. Class 12.
Isaacs, Joel, Shirt Co., New York, N. Y. Outer shirts. Serial No. 468,259; May 23. Class 39.
Ivers-Lee Company, Newark, N. J. Envelope-like sealed containers. Serial Nos. 463,075–6; May 23. Class 2.
Ivers-Lee Company, Newark, N. J. Envelope-like sealed containers. Serial No. 463,733; May 23. Class 2.
Johnson, W. E., Co. (See Johnson, William E.)
Johnson, William E., doing business as W. E. Johnson Co., Pequannock, N. J. Flexible abrasive stones. Serial No. 467,784; May 23. Class 4.
Keystone Varnish Company, Brooklyn, N. Y. Paint enamel. Serial No. 468,567; May 23. Class 16.
Klein, Louis J., New York, N. Y. Combination floor brush and mop. Serial No. 456,396; May 23. Class 29.
Lea Manufacturing Co., The, Waterbury, Conn. Buffing and polishing compositions. Serial No. 466,702; May 23. Class 4.
Legge, Walter G., Company, Inc., New York, N. Y. Non-slip floor polish. Serial No. 468,573; May 23. Class 16.
Legge, Walter G., Company, Inc., New York, N. Y. Non-slip polish. Serial No. 468,574; May 23. Class 16.
Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts therefor. Serial No. 467,762; May 23. Class 19.
MacBird, Phyllis, doing business as Phyllis Dare, Los Angeles, Calif. Water-softening soapless cleanser. Serial No. 464,822; May 23. Class 4.
Marvel Tool and Machine Co., Ecorse, Mich. Live center tool. Serial No. 454,143; May 23. Class 23.
Morthland, Glenn A., doing business as Compotite Shower Pan, Los Angeles, Calif. Shower pans. Serial No. 467,285; May 23. Class 13.
Moss, Theodore, Company, Brooklyn, N. Y. Rubber printing plates and dies, and plastic printing plates. Serial No. 468,532; May 23. Class 50.
National Used Car Market Report, Inc., Chicago, Ill. Periodical publications. Serial No. 467,813; May 23. Class 38.
New Process Mills, Inc., New York, N. Y. Textile fabrics. Serial No. 465,954; May 23. Class 42.
Norden Laboratories, Lincoln, Nebr. Veterinary biologics, serums, pharmaceuticals and supplies. Serial No. 462,022; May 23. Class 4.
Oceanic Insul-lite Corp., Brooklyn, N. Y. Thermal insulation mastic material. Serial No. 467,356; May 23. Class 12.
Ogush, William B., Inc., New York, N. Y. Precious metals and precious metal solders. Serial No. 467,461; May 23. Class 14.
Old Fashion Ma's Root Beer Bottling Company, Wilkes-Barre, Pa. Root beer and syrups and extracts. Serial No. 463,348; May 23. Class 45.
Oliver Farm Equipment Company, Chicago, Ill. Stationary and pick-up balers. Serial No. 467,357; May 23. Class 23.
Pacific National Advertising Agency, Seattle, Wash. News and advisory bulletin. Serial No. 468,967; May 23. Class 38.
Paragon Machine Tool Corporation, San Leandro, Calif. Lathes and hydraulic power saws. Serial No. 468,150; May 23. Class 23.
Physicians' Drug & Supply Co., Philadelphia, Pa. Medicinal preparations. Serial No. 468,151; May 23. Class 6.
Physicians' Drug & Supply Co., Philadelphia, Pa. Medicinal preparations. Serial No. 468,156; May 23. Class 6.
Reinsch, Charles, doing business as Cerex Products, New York, N. Y. Pharmaceutical preparation. Serial No. 466,711; May 23. Class 6.

Rosenberg, Adolf, doing business as Vitaron Chemical Mfg. Co., New York, N. Y. Fish liver oil emulsion and fish oil emulsion. Serial No. 468,308; May 23. Class 6.

Sandler Bros. Specialties Co., Boston, Mass. Shoes. Serial No. 459,030; May 23. Class 39.

Smit, J. K., & Sons, Inc., New York, N. Y. Diamond bits. Serial Nos. 467,676–8; May 23. Class 23.

Smith, Landon P., Inc., Irvington, N. J. Holders for razor blades. Serial No. 468,126; May 23. Class 23.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Hydraulic oils. Serial No. 468,920; May 23. Class 15.

Spinnerin Yarn Co. Inc., New York, N. Y. Yarn. Serial No. 468,495; May 23. Class 43.

Squibb, E. R., & Sons, New York, N. Y. Antibacterial surgical dressings. Serial No. 468,356; May 23. Class 6.

Standard Brands Incorporated, New York, N. Y. Mixture consisting essentially of maltose sugars and soluble dextrine. Serial No. 468,168; May 23. Class 46.

Stein, Hall Manufacturing Company, Chicago, Ill. Specially modified starches. Serial No. 467,901; May 23. Class 6.

Strathmore Co-Operative Association, Strathmore, Calif. Fresh citrus fruits. Serial No. 443,897; May 23. Class 46.

Viavi Company, The, San Francisco, Calif. Concentrated vitamins. Serial No. 466,683; May 23. Class 6.

Vitaron Chemical Mfg. Co. (See Rosenberg, Adolf.)

Warner, William R., & Co. Inc., Wilmington, Del., and New York, N. Y. Amino acid preparation. Serial Nos. 468,183–4; May 23. Class 6.

Watkins, Jim, & Sons, Aptos, Calif. Fresh vegetables. Serial No. 466,471; May 23. Class 46.

Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. Serial No. 468,740; May 23. Class 21.

Wimelbacher & Rice, New York, N. Y. Ladies' fabric gloves. Serial No. 459,588; May 23. Class 39.

Wolfe & Mann Device Co., Baltimore, Md. Etched plaque. Serial No. 467,683; May 23. Class 50.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Solid cleaning, cleansing and detergent material. Serial No. 465,519; May 23. Class 4.

Zephyr American Corp., New York, N. Y. Dip-type writing sets. Serial No. 467,212; May 23. Class 37.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams Candy Company, Dallas, Tex. Candy. 407,221; May 23; Serial No. 465,855; published Mar. 14, 1944. Class 46.

Agricultural News Service, Ithaca, N. Y. News periodical. 407,292; May 23. Class 38.

Air Reduction Company, Incorporated, assignor to Air Reduction Sales Company, New York, N. Y. Oxy-acetylene cutting apparatus. 187,877; renewed Aug. 12, 1944.

Air Reduction Sales Company. (See Air Reduction Company, Incorporated, assignor.)

American Tobacco Company, The. (See Wix, J., & Sons, Ltd., assignor.)

Andra, Anita, New York, N. Y. Ladies' hats. 407,166; May 23; Serial No. 461,189; published Feb. 29, 1944. Class 39.

Avon Shoe Co. Inc., New York, N. Y. Ladies' and misses' shoes, made of leather, canvas, fabric, etc. 407,233; May 23; Serial No. 465,998; published Mar. 7. 1944. Class 39.

Bales, G., Company, The. (See Bales, Gladys.)

Bales, Gladys, doing business as The G. Bales Company, Kansas City, Mo. Holder for habit forming charts. 407,187; May 23; Serial No. 464,387; published Mar. 14. 1944. Class 50.

Bamberger, L., & Co., Newark, N. J. Golf shirts. 186,465; renewed July 8, 1944.

Bartenders' International League of America. (See Hotel and Restaurant Employees' International Alliance.)

Bay State Optical Company, Attleboro, Mass. Ophthalmic mountings. 407,258; May 23; Serial No. 466,399; published Mar. 14, 1944. Class 26.

Blum, Milton C., Inc., New York, N. Y. Cotton and rayon cloth with water-repellent finish in the piece. 407,246; May 23; Serial No. 466,141; published Feb. 29, 1944. Class 42.

Boil Remedy Company, The. (See Robertson, J. W.)

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y., to The Boss Manufacturing Company, Kewanee, Ill. Gloves and mittens. 189,372; renewed Sept. 16, 1944.

Botany Worsted Mills, Passaic, N. J. Woolen piece goods. 407,248; May 23; Serial No. 466,142; published Mar. 14, 1944. Class 42.

Bowman Dairy Company, Chicago, Ill. Combination of dry skimmed milk and a small percentage of cereal flour. 407,282; May 23. Class 46.

Bracker, Joe, doing business as Bracker Vegetable Sales Co., Nogales, Ariz. Fresh vegetables. 407,273; May 23. Class 46.

Bracker Vegetable Sales Co. (See Bracker, Joe.)

Bronson & Townsend Co., The, New Haven, Conn. Monthly publication. 186,886; renewed July 22, 1944.

Brooklyn Perfex Corp., Brooklyn, N. Y. Brooms, mops, and brushes. 189,528; renewed Sept. 23, 1944.

Brooks Paper Company, St. Louis, Mo. Tissue paper. 189,295; renewed Sept. 16, 1944.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, to The Brunswick-Balke-Collender Company, Chicago, Ill. Billiard chalk. 187,770; renewed Aug. 12, 1944.

Byer-Rolnick Company, Garland, Tex. Men's hats. 407,209–10; May 23; Serial Nos. 465,315–16; published Feb. 22, 1944. Class 39.

Byer-Rolnick Company, Garland, Tex. Men's hats. 407,287; May 23. Class 39.

California Co-Operative Canneries, San Francisco, assignor, by mesne assignments, to Frank M. Wilson, Stockton, Calif. Canned fruits and vegetables. 189,714; renewed Sept. 23, 1944.

California Farm Products Company, Salinas, Calif. Fresh vegetables. 407,259; May 23; Serial No. 466,427; published Mar. 14, 1944. Class 46.

California Medicinal Wine Co. (See Val, James L.)

Carmo Shoe Manufacturing Company, Carthage, Mo. Ladies' and misses' shoes. 407,197; May 23; Serial No. 464,875; published Feb. 1, 1944. Class 39.

Carnac Cottons, Inc., New York, N. Y. Cotton piece goods. 407,247; May 23; Serial No. 466,145; published Mar. 7, 1944. Class 42.

Carpenter Paper Company. (See Kansas City Paper House.)

Carpenter Steel Company, The, Reading, Pa. Alloy mold steel. 407,180; May 23; Serial No. 463,928; published Mar. 14, 1944. Class 14.

Carson Pirie Scott & Company, Chicago, Ill. Men's leather shoes. 184,520; renewed May 27, 1944.

Chattanooga Drug & Chemical Company. (See Jersey Pharmacal Co., assignor.)

Cheatham Electric Switching Device Co., Incorporated, Louisville, Ky. Electric switching devices. 407,295; May 23. Class 21.

Cheney Weeder Company, Cheney, Wash. Tillage implements of the straight blade type. 407,225; May 23; Serial No. 465,892; published Mar. 7, 1944. Class 23.

City Mills Company, Columbus, Ga. Corn meal. 189,680; renewed Sept. 23, 1944.

Cluett, Peabody & Co., Inc., Troy, N. Y. Outer shirts and collars. 407,281; May 23; Class 39.

Cobblers, Inc., Los Angeles, Calif. Shoes and slippers made of leather, fabric, and combinations, etc. 407,167; May 23; Serial No. 461,339; published Mar. 7, 1944. Class 39.

Cohen & Wilks, Limited. (See Cohen, P. M. Quas.)

Cohen, P. M. Quas, doing business as Cohen & Wilks, to Cohen & Wilks, Limited, Cheetham, Manchester, England, successor. Woolen piece goods. 187,956; renewed Aug. 12, 1944.

Conner, H. D., doing business as H. D. Conner Produce Co., Phoenix, Ariz. Fresh vegetables and melons. 407,291; May 23. Class 46.

Conner, H. D., Produce Co. (See Conner, H. D.)

Copps Company, The. (See Wisconsin Coffee Company.)

Cosmet Corporation, Minneapolis, Minn. Machines for securing or swedging screws, burrs, and chucks for use on such machines and constituting parts thereof. 407,168; May 23; Serial No. 461,681; published Mar. 7, 1944. Class 23.

Coty, Inc., Wilmington, Del., and New York, assignor, by mesne assignments, to Coty, Inc., New York, N. Y. Rouges. 182,810; renewed Apr. 15, 1944.

Crescent Belt Fastener Company, assignor to Crescent Belt Fastener Company, Inc., New York, N. Y. Belt-fastening plates, metallic lacing, wire, etc. 184,816; renewed June 3, 1944.

Crosby Company, The. (See Harmon, L. E., assignor.)

Crowe Name Plate & Manufacturing Co., Chicago, Ill. Thermo-setting plastic knobs for radio receiving sets. 407,228; May 23; Serial No. 465,977; published Mar. 14, 1944. Class 21.

Crowe Name Plate & Manufacturing Co., Chicago, Ill. Escutcheons for radio instruments made of embossed sheet plastics. 407,229; May 23; Serial No. 465,978; published Mar. 14, 1944. Class 21.

Crowe Name Plate & Manufacturing Co., Chicago, Ill. Tuning units and escutcheons for radio receiving sets. 407,230; May 23; Serial No. 465,979; published Mar. 14, 1944. Class 21.

Crumpton, W. D., & Co., Englewood, N. J. Fluxes for soldering and welding metals. 407,193; May 23; Serial No. 464,691; published Mar. 7, 1944. Class 6.

Crystal Candy Co., assignor to Rawls-Dickson Candy Company, Winston-Salem, N. C. Candy. 184,582; renewed May 27, 1944.

Dalton Hat Company, Yonkers, N. Y. Men's hats. 407,153; May 23; Serial No. 448,409; published Feb. 3, 1942. Class 39.

Davis, A., & Sons, Inc., New York, N. Y. Ladies' and misses' coats and suits. 407,296; May 23. Class 39.

Davis-Cleaver Produce Company, Quincy, Ill. Butter. 188,518; renewed Aug. 26, 1944.

De Hesse, Phillips, Prescott, Ariz. Publication containing articles. 407,293; May 23. Class 38.

Dickinson, Paul, Incorporated, Chicago, Ill. Ventilators. 181,760; renewed Mar. 25, 1944.

Difco Laboratories Incorporated. (See Digestive Ferments Company, The.)

Digestive Ferments Company, The, Detroit, Mich., by change of name to Difco Laboratories Incorporated. Pharmaceutical preparation. 189,611–12; renewed Sept. 23, 1944.

Distributing and Trading Company, New York, N. Y. Crude wax and wax blends. 407,217; May 23; Serial No. 465,753; published Mar. 14, 1944. Class 1.

Dodge Manufacturing Corporation, Mishawaka, Ind., and Oneida, N. Y., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Shaft supports, shaft hangers, bearings, etc. 187,136; renewed July 29, 1944.

Dolan & Bullock, assignor to Dolan & Bullock Co., Providence, R. I. Collar pins, lingerie clasps, belt chains, etc. 188,722; renewed Sept. 2, 1944.

Donaldson Floor Company. (See Donaldson, George J.)

Donaldson, George J., doing business as Donaldson Floor Company, Rockford, Ill. Magnesite cement flooring. 407,203; May 23; Serial No. 465,065; published Mar. 14, 1944. Class 12.

Du Pont, E. I., de Nemours and Company. (See Viscoloid Company, The, assignor.)

Easterday Supply Co. (See Superl Supply Co., Inc.)

Elkind, Arnold, Albany, N. Y. Moccasins and shoes made of cloth, leather, etc. 407,159; May 23; Serial No. 458,861; published Feb. 29, 1944. Class 39.

Equipment Digest Publishing Co., Cleveland, Ohio. Periodical. 407,270; May 23. Class 38.

Evron Company, Chicago, Ill. Vitamin capsules and tablets. 407,226; May 23; Serial No. 465,898; published Mar. 7, 1944. Class 6.

Fashion Bootery, The, Seattle, Wash. Shoes made of rubber, leather and/or fabric. 407,190; May 23; Serial No. 464,478; published Feb. 22, 1944. Class 39.

Fearn Laboratories, Inc., Chicago, Ill. Sausage seasonings and binders. 407,275; May 23. Class 46.

Fine Products Corporation. (See Hollingsworth Candy Co., assignor.)

Finnish Cellulose Association (Suomen Selliloosayhdistys), Helsingfors, Finland. Wood pulp. 152,771; renewed Mar. 7, 1942.

Flash Chemical Company, Cambridge, Mass. Hand soap. 182,775; renewed Apr. 15, 1944.

Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 185,774; renewed June 24, 1944.

Flexible Steel Lacing Company, Chicago, Ill. Flexible or hinged belt fasteners. 183,808; renewed May 6, 1944.

Florists' Telegraph Delivery Association, Detroit, Mich. Natural flowers and plants. 407,189; May 23; Serial No. 464,434; published Mar. 14, 1944. Class 1.

Forbes, Jas. H., Tea & Coffee Co., St. Louis, Mo. Coffee. 189,635; renewed Sept. 23, 1944.

Forbes, Jas. H., Tea & Coffee Co., St. Louis, Mo. Tea. 189,642; renewed Sept. 23, 1944.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 407,207; May 23; Serial No. 465,256; published Feb. 29, 1944. Class 42.

Foster Grant Co. Inc., Leominster, Mass. Combs and hair curlers made of plastic material. 407,250; May 23; Serial No. 466,196; published Mar. 7, 1944. Class 40.

Frank Brothers Footwear, Inc., New York, N. Y. Shoes made of leather, fabric, or rubber, etc. 407,160; May 23; Serial No. 459,110; published Feb. 15, 1944. Class 39.

Fruin-Colnon Contracting Company, St. Louis, Mo. Periodical magazine. 189,733; renewed Sept. 23, 1944.

Fulton, David H. (See Vendol Company, The.)

Gale Shoe Mfg. Co., Boston, Mass. Shoes. 407,269; May 23. Class 39.

Gem-Dandy, Inc., Madison, N. C. Ladies' brassières, girdles, garter belts, etc. 407,186; May 23; Serial No. 464,337; published Jan. 18, 1944. Class 39.

Ghirardelli, D., Co., San Francisco, Calif. Chocolate and cocoa. 189,040; renewed Sept. 9, 1944.

Glaser, Crandell Co., Chicago, Ill. Prepared mustard, prepared mustard salad style, etc. 407,156; May 23; Serial No. 457,912; published Mar. 14, 1944. Class 46.

Glasgall, Georg, New York, N. Y. Medicine. 407,163; May 23; Serial No. 460,798; published Mar. 7, 1944. Class 6.

Glemby Company, Inc. The, New York, N. Y. Hair nets of the type known as veil nets. 407,199; May 23; Serial No. 465,022; published Mar. 14, 1944. Class 39.

Glemby Company, Inc., The, New York, N. Y. Hair nets. 407,200; May 23; Serial No. 465,024; published Feb. 15, 1944. Class 39.

Glemby Company, Inc. The, New York, N. Y. Hair nets of the type known as veil nets. 407,201–2; May 23; Serial Nos. 465,025–6; published Mar. 14, 1944. Class 39.

Glemby Company, Inc. The, New York, N. Y. Hair nets of the type known as veil nets. 407,214; May 23; Serial No. 465,476; published Mar. 14, 1944. Class 39.

Glenco Products Co., University City, Mo. Dry mops and dusters each formed of fabric, etc. 407,227; May 23; Serial No. 465,917; published Mar. 14, 1944. Class 29.

Glendon, Thomas A., Jr., New York, N. Y. Tracing paper and tracing cloth. 407,277; May 23. Class 37.

Gotsis, Nick, Nogales, Ariz. Fresh vegetables. 407,234; May 23; Serial No. 466,077; published Mar. 14, 1944. Class 46.

Grant, W. T., Company, New York, N. Y. Pajamas for men and boys. 407,251; May 23; Serial No. 466,216; published Mar. 14, 1944. Class 39.

Gregg, Helen F. (See Mosher, Harry E., assignor.)

Gross, Adolph E., doing business as The Recordit Company, St. Louis, Mo. Chemically treated wiping pads. 407,192; May 23; Serial No. 464,650; published Mar. 14, 1944. Class 4.

Guild, L. W., Company, Inc., Boston, Mass. Cotton textile fabrics. 407,280; May 23. Class 42.

Haering, D. W., & Co. Inc., Chicago, Ill. Chemical product used in water treating for scale and corrosion control. 407,219; May 23; Serial No. 465,804; published Mar. 7, 1944. Class 6.

Harmon, L. E., doing business as Edward P. Sharp, assignor to The Crosby Company, Buffalo, N. Y. Electric trolley wheels. 183,371; renewed Apr. 29, 1944.

Harriman Hosiery Mills, Harriman, Tenn. Hosiery. 407,161; May 23; Serial No. 460,447; published Mar. 14, 1944. Class 39.

Hearn Department Stores, Inc. (See Hearn, James A., & Son, Inc., assignor.)

Hearn, James A., & Son, Inc., assignor to Hearn Department Stores, Inc., New York, N. Y. Girls' and women's bloomers and waists. 189,261; renewed Sept. 16, 1944.

Hearn, James A., & Son, Inc., assignor to Hearn Department Stores, Inc., New York, N. Y. Silk underwear. 189,613; renewed Sept. 23, 1944.

Heirloom Needlework Guild, Inc., New York, N. Y. Ready-to-sew outfits. 407,272; May 23. Class 40.

Hinds, Ruby, & Company, Phoenix, Ariz. Fresh vegetables. 407,265; May 23; Serial No. 466,650; published Mar. 14, 1944. Class 46.

Hogue, F. H., Company, Yuma, Ariz. Fresh vegetables. 407,235; May 23; Serial No. 466,079; published Mar. 14, 1944. Class 46.

Holland-Rantos Co., Inc., New York, N. Y. Infants' pants. 407,164; May 23; Serial No. 460,841; published Feb. 15, 1944. Class 39.

Hollingsworth Candy Co., assignor to Fine Products Corporation, Augusta, Ga. Candy. 189,726; renewed Sept. 23, 1944.

Hopp Press, Inc., The, New York, N. Y. Sectional price markers and card holders. 189,176; renewed Sept. 16, 1944.

Hospital Specialty Company, The, Cleveland, Ohio. Vending machines. 407,236; May 23; Serial No. 466,082; published Mar. 7, 1944. Class 23.

Hotel and Restaurant Employees' International Alliance and Bartenders' International League of America, Cincinnati, Ohio. Periodical publication. 407,267; May 23. Class 38.

Huber, J. M., Inc., New York, N. Y. Chemical compound for use in natural or synthetic rubber, etc. 407,231; May 23; Serial No. 465,986; published Mar. 7, 1944. Class 6.

Hudson, J. L., Company, The, Detroit, Mich. Men's and young men's outer clothing. 407,260; May 23; Serial No. 466,444; published Mar. 14, 1944. Class 39.

Indian Arts and Crafts Board, Washington, D. C. Hand-woven blankets and rugs. 407,184; May 23; Serial No. 464,260; published Feb. 15, 1944. Class 42.

Indian Arts and Crafts Board, Washington, D. C. Aprons and costumes. 407,185; May 23; Serial No. 464,262; published Feb. 22, 1944. Class 39.

Indian Arts and Crafts Board, Washington, D. C. Tobacco pouches. 407,255; May 23; Serial No. 466,389; published Mar. 14, 1944. Class 8.

Indian Arts and Crafts Board, Washington, D. C. Neckties and leather belts, etc. 407,256; May 23; Serial No. 466,393; published Mar. 14, 1944. Class 39.

Indian Arts and Crafts Board, Washington, D. C. Pillow tops of hand-woven material. 407,257; May 23; Serial No. 466,394; published Mar. 14, 1944. Class 40.

Indian Arts and Crafts Board, Washington, D. C. Cotton patchwork wall hangings and window hangings. 407,263; May 23; Serial No. 466,497; published Mar. 14, 1944. Class 42.

Interlake Tissue Mills Co. Limited, Toronto, Ontario, Canada. Paper products. 407,204; May 23; Serial No. 465,070; published Mar. 14, 1944. Class 37.

International Derrick & Equipment Company, assignor to International-Stacy Corporation, Columbus, Ohio. Derricks and complete drilling derrick equipment and parts thereof. 182,478; renewed Apr. 8, 1944.

International-Stacy Corporation. (See International Derrick & Equipment Company, assignor.)

Jacmor Hat Co., New York, N. Y. Women's, misses', and children's hats. 407,242; May 23; Serial No. 466,119; published Mar. 7, 1944. Class 39.

Jersey Pharmacal Co., Jersey City, N. J., assignor to Chattanooga Drug & Chemical Company, Chattanooga, Tenn. Organic assimilative tonic. 184,283; renewed May 20, 1944.

Johnson & Johnson, New Brunswick, N. J. Surgical dressings. 407,177; May 23; Serial No. 463,736; published Nov. 30, 1944. Class 44.

Kannengiesser & Company, New York, N. Y. Flaked dried bananas. 407,252; May 23; Serial No. 466,223; published Mar. 14, 1944. Class 46.

Kansas City Paper House, Kansas City, Mo., to Carpenter Paper Company, Omaha, Nebr., successor. Printing and writing paper. 181,446; renewed Mar. 18, 1944.

Kansas City Paper House, Kansas City, Mo., to Carpenter Paper Company, Omaha, Nebr., successor. Book papers. 181,698; renewed Mar. 25, 1944.

Kaye, Irwin, New York, N. Y. Daily publication of racing information. 407,288; May 23. Class 38.

Kellogg Company. (See Pfaffmann Egg Noodle Company, assignor.)

Kensington Steel Company, Chicago, Ill. Manganese and steel and rough and partly finished manganese, and steel castings. 407,237; May 23; Serial No. 466,090; published Mar. 14, 1944. Class 14.

Kensington Steel Company, Chicago, Ill. Gears, pinions, mixer arms, etc. 407,238; May 23; Serial No. 466,091; published Mar. 7, 1944. Class 23.

Kilmer, Dr., & Co., Binghamton, N. Y., assignor, by mesne assignments, to Kilmer & Co., Incorporated, Stamford, Conn. Liver pills. 186,186; renewed July 1, 1944.

Kirchhoff, Rudolf C., Hollywood, Calif. Silk, rayon, cotton, etc., piece goods. 407,206; May 23; Serial No. 465,229; published Mar. 7, 1944. Class 42.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 407,149; May 23; Serial No. 422,287; published Mar. 7, 1944. Class 40.

Knefler-Bates Company. (See Knefler-Bates Mfg. Co., assignor.)

Knefler-Bates Mfg. Co., assignor to Knefler-Bates Company, Indianapolis, Ind. Corn flour and maize flakes. 189,702; renewed Sept. 23, 1944.

Krout & Fite Manufacturing Company, Philadelphia, Pa. Tape for use as a foundation for zipper fasteners. 407,212; May 23; Serial No. 465,395; published Mar. 14, 1944. Class 40.

Lafond Candy Kitchen, Inc., New York, N. Y. Candy. 407,191; May 23; Serial No. 464,614; published Mar. 14, 1944. Class 46.

Larkin Co. Inc., assignor to Larkin Store Corporation, Buffalo, N. Y. Dye combined with soap, toilet, and medicinal preparations, etc. 187,402; renewed Aug. 5, 1944.

Larkin Store Corporation. (See Larkin Co. Inc., assignor.)

Lehon Company, The, assignor to The Lehon Company, Chicago, Ill. Asphalt roofing in rolls and sheets, asphalt roofing shingles, etc. 188,783; renewed Sept. 2, 1944.

Leonard & Baker Stove Co., Taunton, Mass. Coal and gas ranges and heaters. 189,668; renewed Sept. 23, 1944.

Lorenz Publishing Company, Dayton, Ohio. Periodical publication. 407,289; May 23. Class 38.

Lovsted, C. M. & Co., Inc. (See Lovsted, Carl M.)

Lovsted, Carl M., doing business as C. M. Lovsted & Co., to C. M. Lovsted & Co., Inc., Seattle, Wash., successor. Steel castings. 182,030; renewed Apr. 1, 1944.

M & W Thomas Co., New York, N. Y. Neckties. 407,178; May 23; Serial No. 463,843; published Dec. 7, 1943. Class 39.

Madison, A. Lee, Warrenton, Va. Hair and scalp preparation. 407,271; May 23. Class 6.

Magic City Food Products Company. (See Mosher, Harry E.)

Maltine Company, The, New York, N. Y. Medicinal malt extract. 407,222; May 23; Serial No. 465,872; published Mar. 7, 1944. Class 6.

Marbert Mfg. Co., Chicago, Ill. Hair pomades, hair oil shampoos, preparations for straightening, etc. 407,179; May 23; Serial No. 463,873; published Mar. 7, 1944. Class 6.

Marrus, Isaac I., New York, N. Y. Handkerchiefs and hair nets. 407,239; May 23; Serial No. 466,092; published Mar. 7, 1944. Class 39.

Matchless Metal Polish Company, The, Chicago, Ill., and Glen Ridge, N. J. Buffing and polishing compound. 186,271; renewed July 8, 1944.

Matchless Metal Polish Company, The, Chicago, Ill., and Glen Ridge, N. J. Buffing and polishing compositions. 407,215; May 23; Serial No. 465,630; published Mar. 14, 1944. Class 4.

May Department Stores Company, The, St. Louis, Mo. Shoes. 188,068; renewed Aug. 19, 1944.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazines. 407,276; May 23. Class 38.

Meadtex Fabrics Co., New York, N. Y. Textile fabrics in the piece. 407,274; May 23. Class 42.

Mechanical Rubber Company, The, assignor to United States Rubber Company, New York, N. Y. All articles of hard and soft rubber. 24,659; re-renewed May 8, 1944.

Memphis Potato Chip Comany. (See Mosher, Harry E.)

Merger Fabrics, New York, N. Y. Textile fabrics in the piece of cotton, rayon, wool, etc. 407,175; May 23; Serial No. 463,650; published Feb. 15, 1944. Class 42.

Meyers, W. F., Company, Bedford, Ind. Wheel and tool formers. 407,232; May 23; Serial No. 465,989; published Mar. 7, 1944. Class 23.

Miller & Hollis, Inc., Boston, Mass. Chocolates. 407,183; May 23; Serial No. 464,179; published Dec. 28, 1943. Class 46.

Miller's, Jacob, Sons Co., assignor to Jacob Miller's Sons Co., Philadelphia, Pa. Cotton goods, silk goods, linen goods, etc. 180,601; renewed Mar. 4, 1944.

Mixing Equipment Co., Inc., Rochester, N. Y. Mixing equipment. 407,155; May 23; Serial No. 457,812; published Mar. 7, 1944. Class 23.

Mosher, Harry E., doing business as Memphis Potato Chip Company, Memphis, Tenn., assignor to Helen Friedman Gregg, doing business as Magic City Food Products Company, Birmingham, Ala. Potato chips and horseradish. 184,655; renewed May 27, 1944.

National Ring Traveler Co., Pawtucket, R. I. Ring spinning and twisting travelers. 188,640; renewed Sept. 2, 1944.

Nebel Knitting Company, assignor to Nebel Knitting Company, Inc., Charlotte, N. C. Ladies' and men's full-fashioned hosiery. 189,444; renewed Sept. 16, 1944.

Nemco Electric Company. (See New England Mills Company, The, assignor.)

New England Mills Company, The, Chicago, Ill., assignor to Nemco Electric Company, Seattle, Wash. Headlights and auto lamps. 181,979; renewed Apr. 1, 1944.

New Jersey Italian Food Products Co., Newark, N. J. Salt. 407,171; May 23; Serial No. 462,800; published Mar. 14, 1944. Class 46.

New York Belting and Packing Company, assignor to United States Rubber Company, New York, N. Y. Belting. 181,952; renewed Apr. 1, 1944.

Old Ben Coal Corporation, Chicago, Ill. Coal. 407,216; May 23; Serial No. 465,718; published Mar. 14, 1944. Class 1.

Ottens, Henry H., Mfg. Co. Inc., Philadelphia, Pa. Flavoring extracts. 189,573; renewed Sept. 23, 1944.

Ottens, Henry H., Mfg. Co. Inc., Philadelphia, Pa. Flavoring extracts. 189,576; renewed Sept. 23, 1944.

Outlet Millinery Company, Incorporated, Hartford, Conn. Women's hats. 189,186; renewed Sept. 16, 1944.

Pacific Olive Company, Visalia, Calif. Olives and olive oil. 407,278; May 23. Class 46.

Peabody Coal Company, Chicago, Ill. Coal. 184,174; renewed May 20, 1944.

Perkins Glue Company, assignor to Perkins Glue Company, Lansdale, Pa. Starch-glue material. 189,672–3; renewed Sept. 23, 1944.

Personal Products Corporation, The, New Brunswick, N. J. Tampons. 407,150; May 23; Serial No. 433,360; published Aug. 6, 1940. Class 44.

Pfaffmann Egg Noodle Company, Cleveland, Ohio, assignor, by mesne assignments, to Kellogg Company, Battle Creek, Mich. Edible shells. 184,659; renewed May 27, 1944.

Phillips Petroleum Company, Bartlesville, Okla. High molecular weight and high boiling C_7 to C_{14} mercaptan mixture, etc. 407,162; May 23; Serial No. 460,677; published Mar. 7, 1944. Class 6.

Photoplating Company, The, assignor to The Photoplating Company, Minneapolis, Minn. Designs and photographs on glass and metal. 180,752; renewed Mar. 4, 1944.

Pinaud, Incorporated, New York, N. Y. Eau de cologne. 407,243–4; May 23; Serial Nos. 466,122–3; published Mar. 7, 1944. Class 6.

Pinaud, Incorporated, New York, N. Y. Eau de cologne. 407,245; May 23; Serial No. 466,125; published Mar. 7, 1944. Class 6.

Pitt, C. M., & Sons Company, The, Baltimore, Md. Drained fruits, preserved fruits, and crushed preserved fruits, etc. 407,188; May 23; Serial No. 464,419; published Mar. 14, 1944. Class 46.

Pittsburgh Plate Glass Company of Michigan. (See Sunset Paint Company, assignor.)

Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece made of rayon and cotton. 407,218; May 23; Serial No. 465,784; published Feb. 29, 1944. Class 42.

Prince, Nathan, doing business as Princeform Cap Co., New York, N. Y. Men's and boys' caps. 407,182; May 23; Serial No. 464,143; published Jan. 18, 1944. Class 39.

Princeform Cap Co. (See Prince, Nathan.)

Producer-Canner's Cooperative, Inc., North Collins, N. Y. Canned vegetables and tomato paste. 407,253; May 23; Serial No. 466,310; published Mar. 14, 1944. Class 46.

Proportioneers, Inc., Providence, R. I. Pumps. 407,211; May 23; Serial No. 465,348; published Mar. 7, 1944. Class 23.

Puhl-Webb Company, assignor to Thomas J. Webb Company, Chicago, Ill. Coffee and tea. 183,955; renewed May 13, 1944.

Ralston Purina Company, St. Louis, Mo. Disinfectant. 407,240; May 23; Serial No. 466,105; published Mar. 7, 1944. Class 6.

Rawls-Dickson Candy Company. (See Crystal Candy Co., assignor.)

Recordit Company, The. (See Gross, Adolph E.)

Red Hand Compositions Company, Inc., New York, N. Y. Copper paint. 187,549; renewed Aug. 5, 1944.

Remington Arms Company, Inc., Bridgeport, Conn., and Ilion and New York, N. Y., to Remington Arms Company, Inc., Bridgeport, Conn. Firearms, particularly military, and sporting rifles, shotguns, pistols and parts thereof. 187,871; renewed Aug. 12, 1944.

Richards, Wesley J., Santa Monica, Calif. Vitamin capsules. 407,279; May 23. Class 6.

Robertson, J. W., doing business as The Boil Remedy Company, Richmond, Va. Medicinal preparation. 188,510; renewed Aug. 26, 1944.

Robinette, W. C., Company. (See Robinette, Willard C.)

Robinette, Willard C., doing business as W. C. Robinette Company, South Pasadena, Calif. Electronic control apparatus for control of induction motors. 407,176; May 23; Serial No. 463,709; published Mar. 14, 1944. Class 21.

Rogers Peet Company, New York, N. Y. Mackintoshes and raincoats. 189,286; renewed Sept. 16, 1944.

Russell, Bennett, Yakima, Wash. Jelly, marmalade, fruit preserves, canned apricots, fresh fruit. 407,151; May 23; Serial No. 445,781; published Mar. 14, 1944. Class 46.

Salz Bros. Inc., New York, N. Y. Mechanical pencils. 189,579; renewed Sept. 23, 1944.

Schachet, Jacob C., doing business as The Tinctorial Co., Denver, Colo. Compound for waterproofing and preserving leather. 407,165; May 23; Serial No. 460,968; published Mar. 14, 1944. Class 4.

Schieffelin & Co., New York, N. Y. Denatured alcohol. 188,415; renewed Aug. 26, 1944.

Schindler, Walter R., Los Angeles, Calif. Seed and plant protectors. 183,702; renewed May 6, 1944.

Schulman, Mike, Inc., New York, N. Y. Women's coats and suits. 407,261; May 23; Serial No. 466,461; published Mar. 14, 1944. Class 39.

Sea Island Mills, Inc., New York, N. Y. Piece goods. 407,174; May 23; Serial No. 463,332; published Mar. 7, 1944. Class 42.

Seminole Manufacturing Company, Columbus, Miss. Men's and boys' sport shirts. 407,262; May 23; Serial No. 466,462; published Mar. 14, 1944. Class 39.

Sharp, Edward P. (See Harmon, L. E.)

Shufelt, William R., North Chatham, N. Y. Wheeled garden seeder. 407,254; May 23; Serial No. 466,312; published Mar. 7, 1944. Class 23.

Sierra Vista Packing Association, Riverside, Calif. Fresh citrus fruits. 189,334; renewed Sept. 16, 1944.

Sleepmaster Products Company, Inc., Newark, N. J. Sheets, pillow cases, bed spreads, etc. 407,213; May 23; Serial No. 465,468; published Mar. 7, 1944. Class 42.

Sleight Metallic Ink Company of Pennsylvania, Inc., Philadelphia, Pa. Printing, lithographing, die-stamping, etc., compounds. 407,157; May 23; Serial No. 457,999; published Mar. 14, 1944. Class 11.

Smith, Kline & French Co., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine for the diseases of the nervous system. 188,654; renewed Sept. 2, 1944.

Smith, Kline & French Laboratories. (See Smith, Kline & French Co., assignor.)

Spiegl, E. H., San Francisco, to E. H. Spiegl, Salina, Calif. Fresh fruits and fresh vegetables. 189,700; renewed Sept. 23, 1944.

Spring Green Creamery and Cheese Industry, Inc., Spring Green, Wis. Cheese. 407,223–4; May 23; Serial Nos. 465,877–8; published Mar. 14, 1944. Class 46.

Springfield Woolen Mills Co., The, Springfield, Tenn. Woolen and worsted fabrics. 407,285; May 23. Class 42.

Springfield Woolen Mills Co., The, Springfield, Tenn. Woolen blankets. 407,286; May 23. Class 42.

Standard Brands Incorporated, New York, N. Y. Vitamin composition in tablet form. 407,241; May 23; Serial No. 466,109; published Mar. 7, 1944. Class 6.

Standard Brands Incorporated, New York, N. Y. Irradiated dried yeast. 407,290; May 23. Class 6.

Stanley, John T., Co., Inc., New York, N. Y. Soap and polishing powder. 407,249; May 23; Serial No. 466,179; published Mar. 14, 1944. Class 4.

Stetson, John B., Company, Philadelphia, Pa. Hats and caps for men, women, and children. 407,205; May 23; Serial No. 465,215; published Feb. 15, 1944. Class 39.

Sunset Paint Company, Los Angeles, Calif., assignor to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa. Paint enamels. 187,688; renewed Aug. 12, 1944.

Sunset Paint Company, Los Angeles, Calif., assignor to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa. Paste paint. 187,689; renewed Aug. 12, 1944.

Superior Flake Graphite Company, assignor to Superior Flake Graphite Company, Chicago, Ill. Graphite. 171,495; renewed Aug. 7, 1943.

Superl Supply Co., Inc., doing business as Easterday Supply Co., Los Angeles, Calif. Soluble pine oil disinfectant. 407,220; May 23; Serial No. 465,834; published Mar. 7, 1944. Class 6.

Taylor, Chas., Sons Co., The, Cincinnati, Ohio. Refractory cements, ramming mixes, bricks and blocks. 407,172–3; May 23; Serial Nos. 463,254–5; published Mar. 14, 1944. Class 12.

Technicon Co., The, New York, N. Y. Automatic immersion apparatus used in the preparation of histological specimens. 407,208; May 23; Serial No. 465,302; published Mar. 14, 1944. Class 26.

Terhune, Yereance & Wolff, Inc., New York, N. Y. Woolen and worsted fabrics. 407,294; May 23. Class 42.

Tetley, Joseph, & Co., Inc., New York, N. Y. Soup mix. 407,154; May 23; Serial No. 457,289; published Mar. 14, 1944. Class 46.

Theobald, Harry J., doing business as the Theobald Industries, Kearney, N. J. Dog food. 407,266; May 23; Serial No. 466,750; published Mar. 14, 1944. Class 46.

Theobald Industries. (See Theobald, Harry J.)

Tide Water Associated Oil Company. (See Tide Water Oil Company, assignor.)

Tide Water Oil Company, Bayonne, N. J., and New York, assignor to Tide Water Associated Oil Company, New York, N. Y. Lubricating oils. 184,897; renewed June 3, 1944.

Tinctorial Co., The. (See Schachet, Jacob C.)

Toledo Steel Products Company, The, Toledo, Ohio. Poppet valves, machinery bushings, water pump parts, etc. 407,170; May 23; Serial No. 462,693; published Mar. 7, 1944. Class 23.

Tuff-Hard Corporation, Detroit, Mich. Machine tool bits, cutting tools, etc. 407,268; May. 23. Class 23.

Tung-Sol Lamp Works, Inc., Newark, N. J. Electronic tubes, incandescent electric lamps, electric flashers, etc. 407,198; May 23. Serial No. 465,015; published Mar. 14, 1944. Class 21.

United States Rubber Co. (See Mechanical Rubber Company, assignor.)

United States Rubber Company. (See New York Belting and Packing Company, assignor.)

Universal Milk Company, The, Dover, Del. Evaporated skimmed milk. 189,320; renewed Sept. 16, 1944.

Vai Brothers. (See Vai, James L.)

Vai, James L., doing business as California Medicinal Wine Co., also doing busines sas Vai Brothers, Los Angeles, Calif. Wine bitters and tonic. 181,673; renewed Mar., 23, 1944.

Vendol Company, The, to David H. Fulton, doing business as Vendol Company, Baltimore, Md., successor. Vegetable system tonic. 188,509; renewed Aug. 26, 1944.

Vickers, Incorporated, Detroit, Mich. Hydraulic pumps and pumping units, hydraulic control valves, and assemblies. 407,152; May 23; Serial No. 446,819; published Feb. 23, 1943. Class 23.

Viscoloid Company, The, Leominster, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Pyroxylin plastic product and compositions formed therefrom. 183,079; renewed Apr. 22, 1944.

Vulcan Crucible Steel Company, Aliquippa, Pa. Steel. 188,957; renewed Sept. 9, 1944.

Webb, Thomas J., Company, assignor to Thomas J. Webb Company, Chicago, Ill. Coffee. 176,612; renewed Nov. 27, 1943.

Webb, Thomas J., Company, assignor to Thomas J. Webb Company, Chicago, Ill. Coffee 177,756; renewed Dec. 25, 1943.

Webb, Thomas J., Company. (See Puhl-Webb Company, assignor.)

Wentz Equipment Company, Topeka, Kans. Hydraulically operated wheeled hauling trailer scraper. 407,181; May 23; Serial No. 464,124; published Mar. 7, 1944. Class 23.

West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Liquid-soap-dispensing systems. 187,299; renewed July 29, 1944.

West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Deodorants, disinfectants and air purifiers. 187,995; renewed Aug. 12, 1944.

Western Auto Supply Company, Kansas City, Mo. Lawn mowers. 407,169; May 23; Serial No. 462,217; published Mar. 7, 1944. Class 23.

Whipple Company, The, Natick, Mass. Fruit preserves. 407,284; May 23. Class 46.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 407,264; May 23; Serial No. 466,599; published Mar. 14, 1944. Class 46.

Whitney, W. A., Manufacturing Company, Rockford, Ill. Tools. 188,662; renewed Sept. 2, 1944.

Willamette Hyster Company, Portland, Oreg. Winches, hoists, cranes, etc. 407,194–5; May 23; Serial Nos. 464,837–8; published Mar. 7, 1944. Class 23.

Willamette Hyster Company, Portland, Oreg. Lumber carriers and lift trucks. 407,196; May 23; Serial No. 464,839; published Mar. 7, 1944. Class 23.

Willys-Overland Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. 407,158; May 23; Serial No. 458,643; published Mar. 14, 1944. Class 19.

Wilmar Manufacturing Company, Inc., Philadelphia, Pa. Peanut butter. 189,310; renewed Sept. 16, 1944.

Wilson, Frank M. (See California Co-Operative Canneries, assignor.)

Wisconsin Coffee Company, to The Copps Company, Stevens Point, Wis., successor. Coffee. 189,640; renewed Sept. 23, 1944.

Wix, J., & Sons, Ltd., London, England, assignor to The American Tobacco Company, New York, N. Y. Cigarettes. 184,599; renewed May 27, 1944.

Wright, Claude A., De Land, Fla. Lectures and lessons. 407,283; May 23. Class 38.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Old Ben Coal Corporation. 407,216; May 23; Serial No. 465,718; published Mar. 14, 1944.
Coal. Peabody Coal Company. 184,174; renewed May 20, 1944.
Flowers and plants, Natural. Florists' Telegraph Delivery Association. 407,189; May 23; Serial No. 464,434; published Mar. 14, 1944.
Graphite. Superior Flake Graphite Company. 171,495; renewed Aug. 7, 1943.
Pyroxylin plastic product and compositions formed therefrom. Viscoloid Company. 183,079; renewed Apr. 22, 1944.
Wax and wax blends, Crude. Distributing and Trading Company. 407,217; May 23; Serial No. 465,753; published Mar. 14, 1944.
Wood pulp. Finnish Cellulose Association (Suomen Selluloozayhdistys). 152,771; renewed Mar. 7, 1942.

CLASS 2

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.

CLASS 3

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.

CLASS 4

Buffing and polishing compound. Matchless Metal Polish Company. 186,271; renewed July 8, 1944.
Buffing and polishing compositions. Matchless Metal Polish Company. 407,215; May 23; Serial No. 465,630; published Mar. 14, 1944.
Compound for waterproofing and preserving leather. J. C. Schachet. 407,165; May 23; Serial No. 460,968; published Mar. 14, 1944.
Soap and polishing powder. John T. Stanley Co. 407,249; May 23; Serial No. 466,179; published Mar. 14, 1944.
Soap, Hand. Flash Chemical Company. 182,775; renewed Apr. 15, 1944.
Wiping pads, Chemically treated. A. E. Gross. 407,192; May 23; Serial No. 464,650; published Mar. 14, 1944.

CLASS 5

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Starch-glue material. Perkins Glue Company. 189,672–3; renewed Sept. 23, 1944.

CLASS 6

Alcohol, Denatured. Schieffelin & Co. 188,415; renewed Aug. 26, 1944.
Chemical compound for use in natural or synthetic rubber, etc. J. M. Huber, Inc. 407,231; May 23; Serial No. 465,986; published Mar. 7, 1944.
Chemical product used in water treating for scale and corrosion control. D. W. Haering & Co. Inc. 407,219; May 23; Serial No. 465,804; published Mar. 7, 1944.
Deodorants, disinfectants, and air purifiers. West Disinfecting Company. 187,995; renewed Aug. 12, 1944.
Disinfectant. Ralston Purina Company. 407,240; May 23; Serial No. 466,105; published Mar. 7, 1944.
Disinfectant, Soluble pine oil. Superl Supply Co. 407,220; May 23; Serial No. 465,834; published Mar. 7, 1944.
Dried yeast, Irradiated. Standard Brands Incorporated. 407,290; May 23.
Dye combined with soap, toilet and medicinal preparations, etc. Larkin Co. Inc. 187,402; renewed Aug. 5, 1944.
Eau de cologne. Pinaud, Incorporated. 407,243–4; May 23; Serial Nos. 466,122–3; published Mar. 7, 1944.
Eau de cologne. Pinaud, Incorporated. 407,245; May 23. Serial No. 466,125; published Mar. 7, 1944.
Fluxes for soldering and welding metals. W. D. Crumpton & Co. 407,193; May 23; Serial No. 464,691; published Mar. 7, 1944.
Hair and scalp preparation. A. Lee Madison. 407,271; May 23.
Hair pomades, hair oil shampoos, preparations for straightening, etc. Marbert Mfg. Co. 407,179; May 23; Serial No. 463,873; published Mar. 7, 1944.
Liver pills. Dr. Kilmer & Co. 186,186; renewed July 1, 1944.
Medicine. G. Glasgall. 407,163; May 23; Serial No. 460,798; published Mar. 7, 1944.
Medicine for the diseases of the nervous system. Smith, Kline & French Co. 188,654; renewed Sept. 2, 1944.
Medicinal malt extract. Maltine Company. 407,222; May 23; Serial No. 465,872; published Mar. 7, 1944.
Medicinal preparation. J. W. Robertson. 188,510; renewed Aug. 26, 1944.
Mercaptan mixture, etc., High molecular weight and high boiling C_7 to C_{14}. Phillips Petroleum Company. 407,162; May 23; Serial No. 460,677; published Mar. 7, 1944.

Pharmaceutical preparation. Digestive Ferments Company. 189,611–12; renewed Sept. 23, 1944.
Rouges. Coty, Inc. 182,810; renewed Apr. 15, 1944.
Tonic, Organic assimilative. Jersey Pharmacal Co. 184,283; renewed May 20, 1944.
Tonic, Vegetable system. Vendol Company. 188,509; renewed Aug. 26, 1944.
Vitamin capsules. W. J. Richards. 407,279; May 23.
Vitamin capsules and tablets. Evron Company. 407,226; May 23; Serial No. 465,898; published Mar. 7, 1944.
Vitaminic composition in tablet form. Standard Brands Incorporated. 407,241; May 23; Serial No. 466,109; published Mar. 7, 1944.
Wine bitters and tonic. J. L. Vai. 181,673; renewed Mar. 23, 1944.

CLASS 8

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Pouches, Tobacco. Indian Arts and Crafts Board. 407,255; May 23; Serial No. 466,389; published Mar. 14, 1944.

CLASS 9

Firearms, particularly military and sporting rifles, shotguns, pistols and parts thereof. Remington Arms Company. 187,871; renewed Aug. 12, 1944.

CLASS 11

Printing, lithographing, die-stamping, etc., compounds. Sleight Metallic Ink Company of Pennsylvania, Inc. 407,157; May 23; Serial No. 457,999; published Mar. 14, 1944.

CLASS 12

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Asphalt roofing in rolls and sheets, asphalt roofing shingles, etc. Lehon Company. 188,783; renewed Sept. 2, 1944.
Cement flooring, Magnesite. G. J. Donaldson. 407,203; May 23; Serial No. 465,065; published Mar. 14, 1944.
Cements, ramming mixes, bricks and blocks, Refractory. Chas. Taylor Sons Co. 407,172–3; May 23; Serial Nos. 463,254–5; published Mar. 14, 1944.

CLASS 13

Fasteners, Flexible or hinged belt. Flexible Steel Lacing Company. 183,808; renewed May 6, 1944.
Plates, metallic lacing, wire, etc., Belt-fastening. Crescent Belt Fastener Company. 184,816; renewed June 3, 1944.
Liquid-soap-dispensing systems. West Disinfecting Company. 187,299; renewed July 29, 1944.

CLASS 14

Manganese and steel and rough and partly finished manganese and steel castings. Kensington Steel Company. 407,237; May 23; Serial No. 466,090; published Mar. 14, 1944.
Steel. Vulcan Crucible Steel Company. 188,957; renewed Sept. 9, 1944.
Steel, Alloy mold. Carpenter Steel Company. 407,180; May 23; Serial No. 463,928; published Mar. 14, 1944.
Steel castings. C. M. Lovsted. 182,030; renewed Apr. 1, 1944.

CLASS 15

Oils, Lubricating. Tide Water Oil Company. 184,897; renewed June 3, 1944.

CLASS 16

Paint, Copper. Red Hand Compositions Company. 187,549; renewed Aug. 5, 1944.
Paint enamels. Sunset Paint Company. 187,688; renewed Aug. 12, 1944.
Paint, Paste. Sunset Paint Company. 187,689; renewed Aug. 12, 1944.

CLASS 17

Cigarettes. J. Wix & Sons, Ltd. 184,599; renewed May 27, 1944.

CLASS 19

Automobiles and structural parts thereof. Willys-Overland Motors, Inc. 407,158; May 23; Serial No. 458,643; published Mar. 14, 1944.

CLASS 21

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Electric switching devices. Cheatham Electric Switching Device Co. 407,295; May 23.
Electric trolley wheels. L. E. Harmon. 183,371; renewed Apr. 29, 1944.
Electronic control apparatus for control of induction motors. W. C. Robinette. 407,176; May 23; Serial No. 463,709; published Mar. 14, 1944.
Electronic tubes, incandescent electric lamps, electric flashers, etc. Tung-Sol Lamp Works, Inc. 407,198; May 23; Serial No. 465,015; published Mar. 14, 1944.

Escutcheons for radio instruments made of embossed sheet plastics. Crowe Name Plate & Manufacturing Co. 407,229; May 23; Serial No. 465,978; published Mar. 14, 1944.
Headlights and auto lamps. New England Mills Company. 181,979; renewed Apr. 1, 1944.
Thermo-setting plastic knobs for radio receiving sets. Crowe Name Plate & Manufacturing Co. 407,228; May 23; Serial No. 465,977; published Mar. 14, 1944.
Tuning units and escutcheons for radio receiving sets. Crowe Name Plate & Manufacturing Co. 407,230; May 23; Serial No. 465,979; published Mar. 14, 1944.

CLASS 22

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Chalk, Billiard. Brunswick-Balke-Collender Company 187,770; renewed Aug. 12, 1944.

CLASS 23

Carriers and lift trucks, Lumber. Willamette Hyster Company. 407,196; May 23; Serial No. 464,839; published Mar. 7, 1944.
Derricks and complete drilling derrick equipment and parts thereof. International Derrick & Equipment Company. 182,478; renewed Apr. 8, 1944.
Gears, pinions, mixer arms, etc. Kensington Steel Company. 407,238; May 23; Serial No. 466,091; published Mar. 7, 1944.
Lawn mowers. Western Auto Supply Company. 407,169; May 23; Serial No. 462,217; published Mar. 7, 1944.
Machines for securing or swedging screws, burrs and chucks for use on such machines and constituting parts thereof. Cosmet Corporation. 407,168; May 23; Serial No. 461,681; published Mar. 7, 1944.
Mixing equipment. Mixing Equipment Co. 407,155; May 23; Serial No. 457,812; published Mar. 7, 1944.
Pumps. Proportioneers, Inc. 407,211; May 23; Serial No. 465,348; published Mar. 7, 1944.
Pumps and pumping units, hydraulic control valves and assemblies, Hydraulic. Vickers, Incorporated. 407,152; May 23; Serial No. 446,819; published Feb. 23, 1943.
Ring spinning and twisting travelers. National Ring Traveler Co. 188,640; renewed Sept. 2, 1944.
Seeder, Wheeled garden. W. R. Shufelt. 407,254; May 23; Serial No. 466,312; published Mar. 7, 1944.
Shaft supports, shaft hangers, bearings, etc. Dodge Manufacturing Corporation. 187,136; renewed July 29, 1944.
Tillage implements of the straight blade type. Cheney Weeder Company. 407,225; May 23; Serial No. 465,892; published Mar. 7, 1944.
Tool bits, cutting tools, etc., Machine. Tuff-Hard Corporation. 407,268; May 23.
Tools. W. A. Whitney Manufacturing Company. 188,662; renewed Sept. 2, 1944.
Trailer scraper, Hydraulically operated wheeled hauling. Wentz Equipment Company. 407,181; May 23; Serial No. 464,124; published Mar. 7, 1944.
Valves, machinery bushings, water pump parts, etc., Poppet. Toledo Steel Products Company. 407,170; May 23; Serial No. 462,693; published Mar. 7, 1944.
Vending machines. The Hospital Specialty Company. 407,236; May 23; Serial No. 466,082; published Mar. 7, 1944.
Wheel and tool formers. W. F. Meyers Company. 407,232; May 23; Serial No. 465,989; published Mar. 7, 1944.
Winches, hoists, cranes, etc. Willamette Hyster Company. 407,194–5; May 23; Serial Nos. 464,837–8; published Mar. 7, 1944.

CLASS 26

Apparatus used in the preparation of histological specimens, Automatic immersion. Technicon Co. 407,208; May 23; Serial No. 465,302; published Mar. 14, 1944.
Ophthalmic mountings. Bay State Optical Company. 407,258; May 23; Serial No. 466,399; published Mar. 14, 1944.

CLASS 28

Collar pins, lingerie clasps, belt chains, etc. Dolan & Bullock. 188,722; renewed Sept. 2, 1944.

CLASS 29

Brooms, mops, and brushes. Brooklyn Perfex Corp. 189,528; renewed Sept. 23, 1944.
Mops and dusters each formed of fabric, etc., Dry. Glenco Products Co. 407,227; May 23; Serial No. 465,917; published Mar. 14, 1944.

CLASS 34

Coal and gas ranges and heaters. Leonard & Baker Stove Co. 189,668; renewed Sept. 23, 1944.
Oxyacetylene cutting apparatus. Air Reduction Company. 187,877; renewed Aug. 12, 1944.
Ventilators. Paul Dickinson, Incorporated. 181,760; renewed Mar. 25, 1944.

CLASS 35

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Belting. New York Belting and Packing Company. 181,952; renewed Apr. 1, 1944.

CLASS 37

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Book papers. Kansas City Paper House. 181,698; renewed Mar. 25, 1944.
Paper and tracing cloth, Tracing. T. A. Glendon, Jr. 407,277; May 23.
Paper, Printing and writing. Kansas City Paper House. 181,446; renewed Mar. 18, 1944.
Paper products. Interlake Tissue Mills Co. Limited. 407,204; May 23; Serial No. 465,070; published Mar. 14, 1944.
Paper, Tissue. Brooks Paper Company. 189,295; renewed Sept. 16, 1944.
Pencils, Mechanical. Salz Bros. Inc. 189,579; renewed Sept. 23, 1944.
Price markers and card holders, Sectional. Hopp Press, Inc. 189,176; renewed Sept. 16, 1944.

CLASS 38

Designs and photographs on glass and metal. Photoplating Company. 180,752; renewed Mar. 4, 1944.
Lectures and lessons. C. A. Wright. 407,283; May 23.
Magazine, Periodical. Fruin-Colnon Contracting Company. 189,733; renewed Sept. 23, 1944.
Magazines. McGraw-Hill Publishing Company. 407,276; May 23.
News periodical. Agricultural News Service. 407,292; May 23.
Periodical. Equipment Digest Publishing Co. 407,270; May 23.
Periodical publication. Lorenz Publishing Company. 407,289; May 23.
Publication. P. De Hesse. 407,293; May 23.
Publication of racing information, Daily. I. Kaye. 407,288; May 23.
Publication, Periodical. Hotel and Restaurant Employees' International Alliance and Bartenders' International League of America. 407,267; May 23.
Publications, Monthly. Bronson & Townsend Co. 186,886; renewed July 22, 1944.

CLASS 39

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Aprons and costumes. Indian Arts and Crafts Board. 407,185; May 23; Serial No. 464,262; published Feb. 22, 1944.
Bloomers and waists, Girls' and women's. James A. Hearn & Son Inc. 189,261; renewed Sept. 16, 1914.
Brassières, girdles, garter belts, Ladies', etc. Gem-Dandy, Inc. 407,186; May 23; Serial No. 464,337; published Jan. 18, 1944.
Caps, Men's and boys'. N. Prince. 407,182; May 23; Serial No. 464,143; published Jan. 18, 1944.
Clothing, Men's and young men's outer. J. L. Hudson Company. 407,260; May 23; Serial No. 466,444; published Mar. 14, 1944.
Coats and suits, Ladies' and misses'. A. Davis & Sons, Inc. 407,296; May 23.
Coats and suits, Women's. Mike Schulman Inc. 407,261; May 23; Serial No. 466,461; published Mar. 14, 1944.
Gloves and mittens. Boss Manufacturing Company. 189,372; renewed Sept. 16, 1944.
Hair nets of the type known as veil nets. Glemby Company. 407,199; May 23; Serial No. 465,022; published Mar. 14, 1944.
Hair nets of the type known as veil nets. Glemby Company. 407,201–2; May 23; Serial Nos. 465,025–6; published Mar. 14, 1944.
Hair nets of the type known as veil nets. Glemby Company. 407,214; May 23; Serial No. 465,476; published Mar. 14, 1944.
Handkerchiefs and hair nets. I. I. Marrus. 407,239; May 23; Serial No. 466,092; published Mar. 7, 1944.
Hats and caps for men, women and children. John B. Stetson Company. 407,205; May 23; Serial No. 465,215; published Feb. 15, 1944.
Hats, Ladies'. A. Andra. 407,166; May 23; Serial No. 461,189; published Feb. 29, 1944.
Hats, Men's. Byer-Rolnick Company. 407,209–10; May 23; Serial Nos. 465,315–16; published Feb. 22, 1944.
Hats, Men's. Byer-Rolnick Company. 407,287; May 23.
Hats, Men's. Dalton Hat Company. 407,153; May 23; Serial No. 448,409; published Feb. 3, 1942.
Hats, Women's. Outlet Millinery Company. 189,186; renewed Sept. 16, 1944.
Hats, Women's, misses', and children's. Jacmor Hat Co. 407,242; May 23; Serial No. 466,119; published Mar. 7, 1944.
Hosiery. Harriman Hosiery Mills. 407,161; May 23; Serial No. 460,447; published Mar. 14, 1944.
Hosiery, Ladies' and men's full-fashioned. Nebel Knitting Company. 189,444; renewed Sept. 16, 1944.

Mackintoshes and raincoats. Rogers Peet Company. 189,286; renewed Sept. 16, 1944.
Moccasins and shoes made of cloth, leather, etc. A. Elkind. 407,159; May 23; Serial No. 458,861; published Feb. 29, 1944.
Neckties. M & W Thomas Co. 407,178; May 23; Serial No. 463,843; published Dec. 7, 1943.
Neckties and leather belts, etc. Indian Arts and Crafts Board. 407,256; May 23; Serial No. 466,393; published Mar. 14, 1944.
Nets, Hair. The Glemby Company. 407,200; May 23; Serial No. 465,024; published Feb. 15, 1944.
Pajamas for men and boys. W. T. Grant Company. 407,251; May 23; Serial No. 466,216; published Mar. 14, 1944.
Pants, Infants'. Holland-Rantos Co. 407,164; May 23; Serial No. 460,841; published Feb. 15, 1944.
Shirts and collars, Outer. Cluett, Peabody & Co. 407,281; May 23.
Shoes. Gale Shoe Mfg. Co. 407,269; May 23.
Shoes. May Department Stores Company. 188,068; renewed Aug. 19, 1944.
Shoes and slippers made of leather, fabric, and combinations, etc. Cobblers, Inc. 407,167; May 23; Serial No. 461,339; published Mar. 7, 1944.
Shoes, Ladies' and misses'. Carmo Shoe Manufacturing Company. 407,197; May 23; Serial No. 464,875; published Feb. 1, 1944.
Shoes made of leather, fabric, or rubber, etc. Frank Brothers Footwear, Inc. 407,160; May 23; Serial No. 459,110; published Feb. 15, 1944.
Shoes, made of leather, canvas, fabric, etc., Ladies' and misses'. Avon Shoe Co. Inc. 407,233; May 23; Serial No. 465,998; published Mar. 7, 1944.
Shoes made of rubber, leather and/or fabric. Fashion Bootery. 407,190; May 23; Serial No. 464,478; published Feb. 22, 1944.
Shoes, Men's leather. Carson Pirie Scott & Company. 184,520; renewed May 27, 1944.
Shirts, Golf. L. Bamberger & Co. 186,465; renewed July 8, 1944.
Shirts, Men's and boys' sport. Seminole Manufacturing Company. 407,262; May 23; Serial No. 466,462; published Mar. 14, 1944.
Underwear, Silk. James A. Hearn & Son, Inc. 189,613; renewed Sept. 23, 1944.

CLASS 40

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Combs and hair curlers made of plastic material. Foster Grant Co. Inc. 407,250; May 23; Serial No. 466,196; published Mar. 7, 1944.
Pillow tops of hand-woven material. Indian Arts and Crafts Board. 407,257; May 23; Serial No. 466,394; published Mar. 14, 1944.
Ready-to-sew outfits. Heirloom Needlework Guild, Inc. 407,272; May 23.
Shields, Dress. I. B. Kleinert Rubber Company. 407,149; May 23; Serial No. 422,287; published Mar. 7, 1944.
Tape for use as a foundation for zipper fasteners. Krout & Fite Manufacturing Company. 407,212; May 23; Serial No. 465,395; published Mar. 14, 1944.

CLASS 42

Blankets and rugs, Hand-woven. Indian Arts and Crafts Board. 407,184; May 23; Serial No. 464,260; published Feb. 15, 1944.
Blankets, Woolen. Springfield Woolen Mills Co. 407,286; May 23.
Cotton and rayon cloth with water-repellent finish in the piece. Milton C. Blum, Inc. 407,246; May 23; Serial No. 466,141; published Feb. 29, 1944.
Cotton goods, silk goods, linen goods, etc. Jacob Miller's Sons Co.. 180,601; renewed Mar. 4, 1944.
Cotton patchwork wall hangings and window hangings. Indian Arts and Crafts Board. 407,263; May 23; Serial No. 466,497; published Mar. 14, 1944.
Fabrics, Cotton textile. L. W. Guild Company. 407,280; May 23.
Fabrics in the piece made of rayon and cotton. Pondel Fabrics, Inc. 407,218; May 23; Serial No. 465,784; published Feb. 29, 1944.
Fabrics in the piece, Textile. Meadtex Fabrics Co. 407,274; May 23.
Fabrics, Woolen and worsted. Springfield Woolen Mills Co. 407,285; May 23.
Fabrics, Woolen and worsted. Terhune, Yereance & Wolff, Inc. 407,294; May 23.
Piece goods, Cotton. Carnac Cottons, Inc. 407,247; May 23; Serial No. 466,145; published Mar. 7, 1944.
Piece goods, Cotton. Sea Island Mills, Inc. 407,174; May 23; Serial No. 463,332; published Mar. 7, 1944.
Piece goods, Silk, rayon, cotton, etc. R. C. Kirchhoff. 407,206; May 23; Serial No. 465,229; published Mar. 7, 1944.
Piece goods, Woolen. Botany Worsted Mills. 407,248; May 23; Serial No. 466,142; published Mar. 14, 1944.
Piece goods, Woolen. Forstmann Woolen Co. 407,207; May 23; Serial No. 465,256; published Feb. 29, 1944.
Piece goods, Woolen. P. M. Q. Cohen. 187,956; renewed Aug. 12, 1944.
Sheets, pillow cases, bed spreads, etc. Sleepmaster Products Company. 407,213; May 23; Serial No. 465,468; published Mar. 7, 1944.
Textile fabrics in the piece of cotton, rayon, wool, etc. Merger Fabrics. 407,175; May 23; Serial No. 463,650; published Feb. 15, 1944.

CLASS 44

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 8, 1944.
Surgical dressings. Johnson & Johnson. 407,177; May 23; Serial No. 463,736; published Nov. 30, 1943.
Tampons. Personal Products Corporation. 407,150; May 23; Serial No. 433,360; published Aug. 6, 1940.

CLASS 45

Extracts, Flavoring. Henry H. Ottens Mfg. Co. Inc. 189,573; renewed Sept. 23, 1944.
Extracts, Flavoring. Henry H. Ottens Mfg. Co. Inc. 189,576; renewed Sept. 23, 1944.

CLASS 46

Bananas, Flaked dried. Kannengiesser & Company. 407,252; May 23; Serial No. 466,223; published Mar. 14, 1944.
Butter. Davis-Cleaver Produce Company. 188,518; renewed Aug. 26, 1944.
Candy. Adams Candy Company. 407,221; May 23; Serial No. 465,855; published Mar. 14, 1944.
Candy. Crystal Candy Co. 184,582; renewed May 27, 1944.
Candy. Hollingsworth Candy Co. 189,726; renewed Sept. 23, 1944.
Candy. Lafond Candy Kitchen, Inc. 407,191; May 23; Serial No. 464,614; published Mar. 14, 1944.
Candy. Stephen F. Whitman & Son, Inc. 407,264; May 23; Serial No. 466,599; published Mar. 14, 1944.
Canned fruits and vegetables. California Co-Operative Canneries. 189,714; renewed Sept. 23, 1944.
Canned vegetables and tomato paste. Producer-Canner's Cooperative, Inc. 407,253; May 23; Serial No. 466,310; published Mar. 14, 1944.
Cheese. Spring Green Creamery and Cheese Industry, Inc. 407,223–4; May 23; Serial Nos. 465,877–8; published Mar. 14, 1944.
Chocolate and cocoa. D. Ghirardelli Co. 189,040; renewed Sept. 9, 1944.
Chocolates. Miller & Hollis, Inc. 407,183; May 23; Serial No. 464,179; published Dec. 28, 1943.
Coffee. Jas. H. Forbes Tea & Coffee Co. 189,635; renewed Sept. 23, 1944.
Coffee. Thomas J. Webb Company. 176,612; renewed Nov. 27, 1943.
Coffee. Thomas J. Webb Company. 177,756; renewed Dec. 25, 1943.
Coffee. Wisconsin Coffee Company. 189,640; renewed Sept. 23, 1944.
Coffee and tea. Puhl-Webb Company. 183,955; renewed May 13, 1944.
Corn flour and maize flakes. Knefler-Bates Mfg. Co. 189,702; renewed Sept. 23, 1944.
Corn meal. City Mills Company. 189,680; renewed Sept. 23, 1944.
Dog food. H. J. Theobald. 407,266; May 23; Serial No. 466,750; published Mar. 14, 1944.
Drained fruits, preserved fruits, and crushed preserved fruits, etc. C. M., Pitt & Sons Company. 407,188; May 23; Serial No. 464,419; published Mar. 14, 1944.
Dry skimmed milk and a small percentage of cereal flour, Combination of. Bowman Dairy Company. 407,282; May 23.
Fruits and fresh vegetables, Fresh. E. H. Spiegl. 189,700; renewed Sept. 23, 1944.
Fruits, Fresh citrus. Sierra Vista Packing Association. 189,334; renewed Sept. 16, 1944.
Gum, Chewing. Frank H. Flear Corporation. 185,774; renewed June 24, 1944.
Jelly, marmalade, fruit preserves, canned apricots, fresh fruit. B. Russell. 407,151; May 23; Serial No. 445,781; published Mar. 14, 1944.
Milk, Evaporated skimmed. Universal Milk Company. 189,320; renewed Sept. 16, 1944.
Mustard, prepared mustard salad style, etc., Prepared. Glaser, Crandell Co. 407,156; May 23; Serial No. 457,912; published Mar. 14, 1944.
Olives and olive oil. Pacific Olive Company. 407,278; May 23.
Peanut butter. Milmar Manufacturing Company. 189,310; renewed Sept. 16, 1944.
Potato chips and horse-radish. H. E. Mosher. 184,655; renewed May 27, 1944.
Preserves, Fruit. Whipple Company. 407,284; May 23.
Salt. New Jersey Italian Food Products Co. 407,171; May 23; Serial No. 462,800; published Mar. 14, 1944.
Sausage seasonings and binders. Fearn Laboratories, Inc. 407,275; May 23.
Shells, Edible. Pfaffmann Egg Noodle Company. 184,659; renewed May 27, 1944.
Soup mix. Joseph Tetley & Co., Inc. 407,154; May 23; Serial No. 457,289; published Mar. 14, 1944.

Tea. Jas. H. Forbes Tea & Coffee Co. 189,642; renewed Sept. 23, 1944.
Vegetables and melons, Fresh. H. D. Conner. 407,291; May 23.
Vegetables, Fresh. California Farm Products Company. 407,259; May 23; Serial No. 466,427; published Mar. 14, 1944.
Vegetables, Fresh. F. H. Hogue Company. 407,235; May 23; Serial No. 466,079; published Mar. 14, 1944.
Vegetables, Fresh. J. Bracker. 407,273; May 23.
Vegetables, Fresh. N. Gotsis. 407,234; May 23; Serial No. 466,077; published Mar. 14, 1944.
Vegetables, Fresh. Ruby Hinds & Company. 407,265; May 23; Serial No. 466,650; published Mar. 14, 1944.

CLASS 50.

All articles of hard and soft rubber. Mechanical Rubber Company. 24,659; re-renewed May 3, 1944.
Holder for habit forming chart. G. Bales. 407,187; May 23; Serial No. 464,387; published Mar. 14, 1944.
Protectors, Seed and plant. W. R. Schindler. 183,702; renewed May 6, 1944.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Allis-Chalmers Manufacturing Company. (See Otto, Eugene J., assignor.)

Baker Oil Tools, Inc. (See Burt, Clarence E., assignor.)

Burt, Clarence E., Altadena, assignor to Baker Oil Tools, Inc., Huntington Park, Calif. Cementing, washing, and acidizing retainer for oil wells. Re. 22,483; May 23.

Cooke, William T., Garden City, and A. S. Maeder, deceased, by Sperry Gyroscope Company, Inc., Brooklyn, N. Y., assignor. Method and apparatus for landing aircraft. Re. 22,484; May 23.

Maeder, Abbott S. (See Cooke, W. T., and Maeder.)

Otto, Eugene J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sheave. Re. 22,485; May 23.

Sperry Gyroscope Company. (See Cooke, W. T., and Maeder, assignors.)

Spring, L. G. S., Clutches, Incorporated. (See Starkey, William C., assignor.)

Starkey, William C., assignor to L. G. S. Spring Clutches, Incorporated, Indianapolis, Ind. Reversing clutch construction for power drives. Re. 22,486; May 23.

LIST OF DESIGN PATENTEES

Band-It Company. (See Beardsley, Harold H., assignor.)

Beardsley, Harold H., assignor to Band-It Company, Denver, Colo. Tool for applying hose clamps or the like. 137,947; May 23.

Beauchamp, Virgil G., Chapin, Ill. Buffet or similar article. 137,941; May 23.

Chemex Corporation. (See Schlumbohm, Peter, assignor.)

Chun Fat, Joseph K., Honolulu, Hawaii. Desk sign. 137,948; May 23.

Cross, Mark, Company. (See Phelps, William D., assignor.)

Dady, Arthur O., Flossmoor, assignor to Sears, Roebuck and Co., Chicago, Ill. Stoker. 137,963; May 23.

De Lisle, Harold L., Estate of, a trust. (See Stovern, Ingram V., assignor.)

Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Food mixing unit or similar article. 137,946; May 23.

Engineering Sales Company et al. (See Stovern, Ingram V., assignor.)

Fruh, Arthur W., Chicago, Ill. Alarm control box or similar article. 137,964; May 23.

Geller, Morris, Oak Park, and R. M. Soule, La Grange Park, Ill. Display rack. 137,945; May 23.

Goldbert, Max L., New York, N. Y. Combined ash tray and coaster, or similar article. 137,959; May 23.

Hager, Emma G., Max Meadows, Va. Laundry tongs. 137,960; May 23.

Harpignies, Zinaida, New York, N. Y. Toy bear or similar article. 137,949; May 23.

Harris, Levina W., Portland, Oreg. Motor vehicle. 137,965; May 23.

Hartwig, Walter A., West Allis, Wis. Rocking horse. 137,971; May 23.

Howard, Paul, Jacksonville, Fla. Holder for receipt pads or the like. 137,950; May 23.

Ideal Novelty & Toy Co. (See Szrajer, Mieczyslaw, assignor.)

Kamenstein, David. (See Kapner, T., and Kamenstein.)

Kapner, Thomas, Bellaire, Ohio, and D. Kamenstein, New York, N. Y. Combined casserole and serving platter. 137,961; May 23.

Kessler, Mathilda R., Chicago, Ill. Wall protector for electric flush switches. 137,966; May 23.

Kneedler, George A., Vernon, Tex. Clothespin. 137,974; May 23.

Lear Avia, Inc. (See Lear, William P., assignor.)

Lear, William P., assignor to Lear Avia, Inc., Piqua, Ohio. Linear actuator unit for operating movable parts of an airplane or the like. 137,967; May 23.

Libbey-Owens-Ford Glass Company. (See Doner, Halbert C., assignor.)

Lloyd, Lillian C., Woodside, N. Y. Baby carrier. 137,944; May 23.

Metropolis Bending Company. (See Puls, A. E., and Swenson, assignors.)

O'Neal, Walter M., Grass Valley, Calif. Garment supporter. 137,968; May 23.

Patner, Saul, Chicago, Ill. Coaster wagon or similar article. 137,962; May 23.

Phelps, William D., assignor to Mark Cross Company, New York, N. Y. Handbag. 137,969; May 23.

Pomerantz, Herman, New York, N. Y. Brooch or similar article. 137,958; May 23.

Pransky, Edward, Dorchester, Mass. Sleeveless dress. 137,975; May 23.

Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Child's feeding and play table. 137,951; May 23.

Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Child's feeding and play table. 137,952; May 23.

Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Child's feeding and play table. 137,953; May 23.

Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Child's feeding and play table. 137,954; May 23.

Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Child's feeding and play table. 137,955; May 23.

Schlumbohm, Peter, assignor to Chemex Corporation, New York, N. Y. Combined flask and handle for a coffeemaker or the like. 137,943; May 23.

Sears, Roebuck and Co. (See Dady, Arthur O., assignor.)

Siewing, Joseph P., St. Louis, Mo. Door plaque. 137,942; May 23.

Soule, Ralph M. (See Geller, M., and Soule.)

Stovern, Ingram V., assignor to Estate of H. L. De Lisle, a trust, doing business as Engineering Sales Company, Sheboygan, Wis. Plotting board. 137,973; May 23.

Swenson, Edward R. (See Puls, Alfred E., and Swenson.)

Szrajer, Mieczyslaw, Forest Hills, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Doll or similar article. 137,972; May 23.

Wienger, Jack, New York, N. Y. Embroidered trimming or the like. 137,957; May 23.

Weis, Edith, New York, N. Y. Combination curtain rod and suspending means. 137,956; May 23.

Wolf, Semon, New York, N. Y. Slip or similar article. 137,970; May 23.

Zanderer, Belle, New York, N. Y. Dress. 137,976; May 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aasland, John L., Moline, Ill., assignor to International Harvester Company. Trash roll construction. 2,349,328; May 23.

Adams, John C., Fairbanks, Alaska. Internal-combustion engine. 2,349,600; May 23.

Advance Solvents and Chemical Corporation. (See Mack, Gerry, assignor.)

Agriculture of the United States of America, as represented by Claude R. Wickard, and his successors in office, Secretary of. (See Gertler, S. I., and Haller, assignors.)

Aiman, Rolland B., Pendleton, Ind. Adjustable multiple spindle drill head. 2,349,240; May 23.

Aktiebolaget Rosenblads Patenter. (See Hermelin, Carl M. A., assignor.)

Aktiebolaget Rosenblads Patenter. (See Rosenblad, Curt F., assignor.)

Alben, Frank L., and B. F. Langer, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Railway vehicle truck. 2,349,601; May 23.

Aldrich, Wilfred O., Lakewood, Ohio, assignor to The American Steel & Wire Company of New Jersey. Continuous type payoff reel. 2,349,689; May 23.

Alien Property Custodian. (See Krüssmann, Adolf.)

Alien Property Custodian. (See Reijnst, Maximilien F.)

Alien Property Custodian. (See Willheim, François.)

Allied Chemical & Dye Corporation. (See Kern, Jean G., assignor.)

Allis-Chalmers Manufacturing Company. (See Johnson, William C., assignor.)

Allis-Chalmers Manufacturing Company. (See Teplow, Leo, assignor.)

American Brake Shoe Company. (See Fuller, Harold, assignor.)

American Can Company. (See Pelosi, Nicholas, assignor.)

American Cyanamid Company. (See Boor, Ladislav, assignor.)

American Cyanamid Company. (See McClellan, P. P., and Ericks.)

American Enka Corporation. (See Bouhuys, A. G., and Carico, assignors.)

American Home Products Corporation. (See Miller, Louis P., assignor.)

American Houses, Inc. (See McLaughlin, Robert W., Jr., assignor.)

American Lead Pencil Company. (See Juelss, David, assignor.)

American Machine & Foundry Company. (See Schmidt, A. J., and Jackson, assignors.)

American Machine & Foundry Company. (See Weida, Millard F., assignor.)

American Metal Company, Limited, The. (See Bierly, Nevin R., assignor.)

American Molded Products Co. (See Moxey, Fred W., assignor.)

American Steel & Wire Company of New Jersey, The. (See Aldrich, Wilfred O., assignor.)

American Steel & Wire Company of New Jersey, The. (See Brickman, Alan E., assignor.)

American Steel & Wire Company of New Jersey, The. (See Elder, Flint C., assignor.)

American Steel & Wire Company of New Jersey, The. (See Fenner, James M., assignor.)

American Steel & Wire Company of New Jersey, The. (See Peterson, C. H., and Moren, assignors.)

Amstutz, Albert, Bowling Green Township, Marion County, Ohio. Strainer holder. 2,349,691; May 23.

Anaconda Copper Mining Company. (See Ruckwardt, Kurt F., assignor.)

Anchor Manufacturing Company. (See Young, Arthur A., assignor.)

Anders, Roy, Center Township, Marshall County, assignor of one-half to J. W. Pletcher, Jr., South Bend, Ind. Thread tap gauge. 2,349,330; May 23.

Andersen, Bjorn, Maplewood, E. A. Grenquist, Bloomfield, and R. H. Ball, Cranford, N. J., assignors, by mesne assignments, to Celanese Corporation of America. Cellulose derivative composition and its use. 2,349,331; May 23.

Anderson, Chester S., St. Charles, Ill. Oarlock. 2,349,692; May 23.

Anderson, Fred E., Taft, Oreg. Cutter cable. 2,349,573; May 23.

Anderson, George R., assignor to J. M. Hopwood, Mount Lebanon, Pa. Control system. 2,349,329; May 23.

Anderson, Walter A. (See Sundstrand, O. J., and Anderson.)

Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Carbon paper support for accounting machines. 2,349,693; May 23.

Andersson, Sven W. E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,349,396; May 23.

Andrews, Thomas. (See Trostler, F., and Andrews.)

Angel, Charles M., Huntington, W. Va. Apparatus for forming bearing metal surfaces on backing metals. 2,349,397; May 23.

Angel, Charles M., Huntington, W. Va. Apparatus for forming bearing metal surfaces on backing metals. 2,349,398; May 23.

Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Tab actuator. 2,349,332; May 23.

Anglo California National Bank of San Francisco, The, trustee for the benefit of Reconstruction Finance Corporation. (See Davis, Harry P.)

Annis, Ross E., North Sudbury, Mass., assignor to Underwood Machinery Company. System and apparatus for hemming sheets of fibrous material. 2,349,233; May 23.

Armentrout, Arthur L., Long Beach, Calif. Mechanism for synchronizing power units. 2,349,333; May 23.

Armentrout, Arthur L., Long Beach, Calif. Drive for electric generators. 2,349,334; May 23.

Armour and Company. (See Harrington, Bertie S., assignor.)

Arms, Merton H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Bearing lubrication. 2,349,690; May 23.

Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Carton. 2,349,241; May 23.

Arnold, Paul L., Delanco, N. J., assignor to United States Pipe and Foundry Company. Apparatus for radially contracting tubular metal bodies. 2,349,646; May 23.

Arnstein, Karl, Akron, and B. J. Schnitzer, Stow, assignors to Wingfoot Corporation, Akron, Ohio. Flying boat hull. 2,349,584; May 23.

Atlantic Refinery Company, The. (See Reuter, Raymond, assignor.)

Atlas Underwear Company, The. (See Harwood, Asa J., assignor.)

Aust, Joseph B. (See Martin, H. C., and Aust.)

"Automatic" Sprinkler Company of America. (See Rider, H. N., and Dieter, assignors.)

Awbrey, William P., Kansas City, Mo. Reenforcing bar support. 2,349,399; May 23.

Baker Perkins Limited. (See Harber, Laurence S., assignor.)

Baldenhofer, William G., assignor to The Thompson Grinder Company, Springfield, Ohio. Hydraulic system for machine tools. 2,349,602; May 23.

Baldine, Joseph J., Hubbard, Ohio. One-man armored tank. 2,349,535; May 23.

Baldwin, Curtis C., Ottawa, Kans., assignor to C. E. Hovey, trustee, Kansas City, Mo. Tractor-carried loading apparatus. 2,349,335; May 23.

Ball, Ralph H. (See Andersen, B., Grenquist, and Ball.)

Bancroft, Charles C., Reno, Nev. Apparatus for preventing clogging of oil wells. 2,349,536; May 23.

Barker, Lee, Los Angeles, Calif. Envelope. 2,349,234; May 23.

Barnes, Thomas D., West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical measuring device. 2,349,242; May 23.

Barr, Charles, Buffalo, and J. F. Strickler, Jr., Kenmore, N. Y., assignors, by mesne assignments, to Stewart-Warner Corporation, Chicago, Ill. Heater. 2,349,694; May 23.

Barron, Joseph M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Combination catalytic and thermal cracking. 2,349,603; May 23.

Barrows, Stephen S., Minneapolis, Minn. Magnifying attachment for measuring instruments and the like. 2,349,604; May 23.

Batcheider, James W., Titusville, Pa., assignor, by mesne assignments, to The Fred Goat Co., Inc., New York, N. Y. Cutting blade and cutting therewith. 2,349,336; May 23.

Bates, John R., Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Catalysis. 2,349,243; May 23.

Baxter, James G., Rochester, assignor to Distillation Products, Inc., New York, N. Y. Production of tocopherol or vitamin E. 2,349,271; May 23.

Baxter, James G., and C. D. Robeson, assignors to Distillation Products, Inc., Rochester, N. Y. Preparing tocopherols and new tocopherol derivatives. 2,349,273; May 23.

Baymiller, John W. (See Knobel, M., Dickson, and Baymiller.)

Beall, Benjamin S. (See Boisseau, A. C., and Beall.)

Beane, Caraon H., assignor to R. M. Green & Sons, Inc., Philadelphia, Pa. Evaporator. 2,349,695; May 23.

Beatty, William E. (See Schroeder, Oscar W., assignor.)

Becker, Walter A., Charlotte, N. C., assignor to Old Dominion Box Company, Lynchburg, Va. Dispensing container. 2,349,605; May 23.

Beckwith, Wendell K., Whitewater, assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis. Saw. 2,349,400; May 23.

Beckwith, Wendell K., Whitewater, assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis. Portable electric tool. 2,349,401; May 23.

Behrens, Herbert C., Haddon Heights, assignor to Samuel M. Langston Co., Camden, N. J. Rotary steam joint. 2,349,696; May 23.

Beibin, Morris, Brooklyn, N. Y. Deodorant and moth preventing cake. 2,349,402; May 23.

Bell & Howell Company, The. (See Howell, Albert S., assignor.)

Bell, Godfrey. (See Stanfield, Merl A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bonorden, A. R., Koos, Krecek, Large, and Marshall, assignors.)

Bell Telephone Laboratories, Incorporated. (See Dahlbom, C. A., Kinkead, Locke, assignors.)

Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Melick, John M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Trucksess, David E., assignor.)

Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Aviation Corporation. (See Jandasek, Joseph, assignor.)

Bendix Aviation Corporation. (See Sturges, Edward B., assignor.)

Bendix Aviation, Ltd. (See Brown, David H., assignor.)

Bendix Aviation, Ltd. (See White, John W., assignor.)

Berg, Louis B., Chicago, and F. A. Stuhlman, Forest Park, assignors to Borg-Warner Corporation, Chicago, Ill. Blank-handling apparatus. 2,349,606; May. 23.

Berger, Herbert R., Brooklyn, assignor to Mizzy, Inc., New York, N. Y. Dental instrument. 2,349,607; May 23.

Bernstein, Wilburn F., Brookfield, and S. M. Lillis, assignors to Victor Manufacturing & Gasket Company, Chicago, Ill. Gasket. 2,349,235; May 23.

Bertetti, John W., Galveston, Tex. Automatic sampler. 2,349,403; May 23.

Bierly, Nevin R., Avenel, N. J., assignor to The American Metal Company, Limited, New York, N. Y. Producing selenium. 2,349,697; May 23.

Biscup, Chester J. (See Graybrook, H. W., and Biscup.)

Blair, Donald W., Houston, Tex., and F. G. Boucher, Tulsa, Okla., assignors to Standard Oil Development Company. Clamping means for force-responsive element. 2,349,404; May 23.

Bloch, Herman S. (See Pines, H., and Bloch.)

Bodle, Virgil H., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Carpet. 2,349,236; May 23.

Boisseau, Alexander C., Lansdowne, and B. S. Beall, Llanerch, Pa., assignors to General Electric Company. Electric control system. 2,349,647; May 23.

Boller, Ernest R., Hudson, and R. F. Remler, Lakewood, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fiberboard. 2,349,698; May 23.

Bond, Donald C., Northbrook, and C. W. Botsford, Niles Center, assignors to The Pure Oil Company, Chicago, Ill. Foam prevention. 2,349,585; May 23.

Bonebrake, Gay M. (See Kouba, Charles M., assignor.)

Bonorden, Allen R., Plainfield, N. J., and P. V. Koos, Woodside, J. A. Krecek, New Rochelle, W. V. K. Large, Glenwood Landing, and T. A. Marshall, Floral Park, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inverse neutral telegraph repeater concentration group switching. 2,349,586; May 23.

Boor, Ladislav, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Apparatus and method for testing paint films. 2,349,699; May 23.

Borg-Warner Corporation. (See Berg, L. B., and Stuhlman, assignors.)

Botsford, Charles W. (See Bond, D. C., and Botsford.)

Boucher, Frank G. (See Blair, D. W., and Boucher.)

Bouhuys, Aleidus G., Enka, and H. B. Carico, Asheville, assignors to American Enka Corporation, Enka, N. C. Unwinding yarn. 2,349,237; May 23.

Boyd, William H., Drexel Hill, assignor to General Refractories Company, Philadelphia, Pa. Furnace wall construction. 2,349,700; May 23.

Bramble, John H., Sharpsville, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Strap-stretching device. 2,349,608; May 23.

Brand, Herbert, Zollikon, Switzerland. Manufacturing lids for hermetically closing containers. 2,349,587; May 23.

Brand, Herbert, Zollikon, Switzerland. Method and apparatus for vacuumizing containers. 2,349,588; May 23.

Brewster Aeronautical Corporation. (See Lesnick, Robert N., assignor.)

Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Cable highway guard. 2,349,648; May 23.

Bridgeport Metal Goods Manufacturing Company, The. (See Noel, Philip X., assignor.)

Brown, David H., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif. Actuating cylinder. 2,349,244; May 23.

Brown Instrument Company, The. (See Keeler, Earl A., assignor.)

Brown, Kenneth R., Des Moines, Iowa, and C. E. Mosley, Overland, assignors to W. N. Matthews Corporation, St. Louis, Mo. Electrical protective device. 2,349,609; May 23.

Brunner, Adolf, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Hydraulically operated oscillation damper. 2,349,610; May 23.

Brunswick-Balke-Collender Company, The. (See Widdis, Emmett E., assignor.)

Bruson, Herman A., and T. W. Riener, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. β-cyanoethylated aryl ω -methyl sulphonamides. 2,349,405; May 23.

Bryant Chucking Grinder Company. (See Arms, Merton H., assignor.)

Bryant Heater Company, The. (See Converse, Julius, assignor.)

Bucyrus-Erie Company. (See Paulsen, Thomas R., assignor.)

Builder-Thompson Engineering & Research Corporation. (See Thompson, Tom H., assignor.)

Burre, Philip H., South Ozone Park, N. Y. Receptacle. 2,349,238; May 23.

Butler, John W., Schenectady, N. Y., assignor to General Electric Company. Protection of polyphase impedance networks. 2,349,611; May 23.

Buttikofer, John W., New Rochelle, N. Y. Hospital bed. 2,349,701; May 23.

Campbell, James R., Ontario, Calif., assignor to General Electric Company. Heating device. 2,349,612; May 23.

Campbell, Rouel R., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for inking edges of shoe parts. 2,349,245; May 23.

Campion, James F., Freeport, N. Y. Roll-up door. 2,349,702; May 23.

Caps, Arthur W., and P. Landrock, Rochester, N. Y., assignors to Photostat Corporation, Providence, R. I. Photographic print treating apparatus. 2,349,337; May 23.

Carbide and Carbon Chemicals Corporation. (See Clapsadle, L. J., and Graham, assignors.)

Carbide and Carbon Chemicals Corporation. (See Douglas, Stuart D., assignor.)

Carbride and Carbon Chemicals Corporation. (See Ferrer, J. P., and Douglas, assignors.)

Carbide and Carbon Chemicals Corporation. (See Wilson, Alexander L., assignor.)

Carborundum Company, The. (See Martin, H. C., and Aust, assignors.)

Carico, Harry B. (See Bouhuys, A. G., and Carico.)

Carlin, Clarence J., Shaker Heights, Ohio. License plate mounting for autos, etc. 2,349,703; May 23.

Carlsen, Leonard O., assignor to Gleason Works, Rochester, N. Y. Work support. 2,349,537; May 23.

Carlson, Emil, assignor to Pioneer Specialty Company, Detroit, Mich. Antenna construction. 2,349,406; May 23.

Case, Edward N. (See Solakian, H., and Case.)

Celanese Corporation of America. (See Andersen, B., Grenquist, and Ball, assignors.)

Chechak, Jonas J. (See Richardson, E. E., and Chechak.)

Chenault, Roy L., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Oil well pump and the like. 2,349,649; May 23.

Cherry-Burrell Corporation. (See Weinreich, C. F., and Lippold, assignors.)

Chicago Development Company. (See Dean, Reginald S., assignor.)

Chinzi, Charles. (See Mathews, C., and Chinzi.)

Chollar, Robert G., assignor to The National Cash Register Company, Dayton, Ohio. Porous resilient printing plate. 2,349,613; May 23.

Chrysler Corporation. (See Neracher, C. A., Dunn, Syrovy, and Schotz, assignors.)

Cincinnati Milling Machine Co., The. (See Martellotti, Mario E., assignor.)

Cincinnati Milling Machine Co., The. (See Nenninger, L. F., Vancil, and Hassman, assignors.)

Clapsadle, Leo J., Buffalo, and G. B. Graham, Kenmore, N. Y., assignors to Carbide and Carbon Chemicals Corporation. Noncorrosive heat-transfer liquid. 2,349,338; May 23.

Clark, Breckinridge T., assignor to E. H. Jacobs Mfg. Co., Inc., Danielson, Conn. Reinforced tapered lug strap and making. 2,349,705; May 23.

Clark, John W., Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Paper with improved surface. 2,349,704; May 23.

Clasen, John H. (See Evans, Russell T., and Clasen.)

Clements, Ernest W., assignor to A. A. Kramer, Kansas City, Kans. Clutch operation means. 2,349,239; May 23.

Cloer, William R., Hickory, N. C. Nail holding tool. 2,349,339; May 23.

Coal Logs Co. Inc., The. (See Storrs, Kindred L., assignor.)

Coe, George B., Upper Montclair, N. J., assignor to Rockrite Processes, Inc., Stamford, Conn. Manufacture of tapered stock. 2,349,246; May 23.

Coghill, Philip S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bag closure. 2,349,247; May 23.

Coleman, Gerald H., F. W. Fletcher, and W. D. Schroeder, assignors to The Dow Chemical Company, Midland, Mich. Insecticides. 2,349,572; May 23.

Colgate-Palmolive-Peet Company. (See Marshall, Donald E., assignor.)

Collins, Ashton B., Birmingham, Ala. Display device. 2,349,706; May 23.

Colprovia Roads, Inc. (See McGrane, Frank B., assignor.)

Conn, Arthur L., assignor to Standard Oil Company, Chicago, Ill. Catalytic conversion operation. 2,349,574; May 23.

Consolidated Vultee Aircraft Corporation. (See O'Hare, G. W., and Harley, assignors.)

Container Corporation of America. (See D'Esposito, Julian, assignor.)

Continental Can Company. (See Sooy, W. E., and von Sydow, assignors.)

Converse, Julius, East Cleveland, assignor to The Bryant Heater Company, Cleveland, Ohio. Pilot valve. 2,349,484 May 23.

Conway, William A., Jr., Shamokin, Pa. Picture mount. 2,349,340; May 23.

Cooper Paper Box Corporation. (See Otto, Herman E., assignor.)

Coreve Corporation. (See Evans, Harold A., assignor.)

Corley, Henry B., Washington, D. C. Street traffic signal. 2,349,485; May 23.

Costello, Frank E., Philadelphia, Pa. Cartridge disassembling machine. 2,349,248; May 23.

Craig, Albert P., Morgan Hill, asssignor to Food Machinery Corporation, San Jose, Calif. Hose clamp. 2,349,538; May 23.

Crook Paper Box Company. (See Marshall, Richard C., Jr., assignor.)

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Diversity receiving system. 2,349,407; May 23.

Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Combined hinge and latch. 2,349,486; May 23.

Cumming, James M., Turtle Creek, and A. W. Hill, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker mechanism. 2,349,650; May 23.

Cummins, Corliss F., assignor to The Dow Chemical Company, Midland, Mich. Coating composition. 2,349,571; May 23.

Curlie, William T. (See Hartley, Clarence E., assignor.)

Cutler-Hammer, Inc. (See Pinkerton, Clarence S., assignor.)

Cutler-Hammer, Inc. (See Schmidt, Edwin X., assignor.)

Dahlbom, Carl A., Brooklyn, F. S. Kinkead, New York, and G. A. Locke, Glenwood Landing, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter switching system. 2,349,539; May 23.

Daniels, Gordon E., Nashville, Tenn. Scraping apparatus. 2,349,576; May 23.

Davis, Clarita, administratrix. (See Davis, Harry P.)

Davis, Evan A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Screw thread for high strength bolting. 2,349,651; May 23.

Davis, Frank B., University Heights, assignor to The National Screw & Manufacturing Compuany, Cleveland, Ohio. Feed mechanism. 2,349,487; May 23.

Davis, Harry P., deceased, Palo Alto, Calif.; C. Davis, administratrix of said H. P. Davis, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, trustee for the benefit of Reconstruction Finance Corporation. Method and apparatus for the production of magnesium. 2,349,408; May 23.

Davis, Harry P., deceased, Palo Alto, Calif., by C. Davis, Palo Alto, administratrix, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, trustee for the benefit of Reconstruction Finance Corporation. Method and apparatus for the production of magnesium. 2,349,409; May 23.

Dean, Francis H. (See Schreiber, J. H., and Dean.)

Dean, Reginald S., Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill. Control member. 2,349,577; May 23.

De Lubicz-Bakanowski, Zygmunt, F. J. Minns, and G. W. G. Norman, assignors to The Swift Rifle Company Limited, Oxford, England. Musketry training device. 2,349,615; May 23

Dement, Charles S., Maywood, Calif. Combination match book and emergency ash tray. 2,349,488; May 23.

Denisoff, Alexander C., and B. P. Scanlan, assignors to Simmonds Aerocessories Limited, London, England. Electric resistance element, more particularly of resistance thermometers. 2,349,614; May 23.

De Normanville, Edgar J., Hatch End, England. Variable speed epicyclic gearing. 2,349,410; May 23.

Desetti, Gild E., Woodbury, N. J., W. A. Dew, B. H. Mackey, and R. G. Woodbridge, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for the recovery of solvent. 2,349,249; May 23.

D'Esposito, Julian, Wilmette, assignor to Container Corporation of America, Chicago, Ill. Container lock. 2,349,707; May 23.

Després, Lilly D., New York, N. Y., assignor, by mesne assignments, to Weco Products Company, Chicago, Ill. Hair net. 2,349,489; May 23.

Dew, Walter A. (See Desetti, G. E., Dew, Mackey, and Woodbridge.)

Diamond Match Company, The. (See Olson, Eric P., assignor.)

Dickson, John B. (See Knobel, M., Dickson, and Baymiller.)

Dieter, Fred G. (See Rider, H. N., and Dieter.)

Dissé, Josef A., Detroit, Mich. Riveting device. 2,349,341; May 23.

Distillation Products, Inc. (See Baxter, James G., assignor.)

Distillation Products, Inc. (See Baxter, J. G., and Robeson, assignors.)

Distillation Products, Inc. (See Hickman, Kenneth C. D., assignor.)

Distillation Products, Inc. (See Hickman, K. C. D., and Kuhrt, assignors.)

Ditto, Incorporated. (See Neal, Morris P., assignor.)

Doak Aircraft Co. Inc. (See McLaughlin, John E., assignor.)

Doan, Richard L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Gas detection. 2,349,250; May 23.

Doke, Ernest G., assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill. Floor securing clip. 2,349,490; May 23.

Dolan, II, Charles H., Kansas City, Mo. Automatic feeder. 2,349,540; May 23.

Dole Valve Company, The. (See Lund, James K., assignor.)

Domoj, John J., U. S. Navy. Airplane spotting and handling device. 2,349,251; May 23.

Dorrance, David W., deceased, San Jose, Calif.; M. B. Dorrance, executrix. Artificial arm joint. 2,349,411; May 23.

Dorrance, May B., executrix. (See Dorrance, David W.)

Douglas, Stuart D. (See Ferrer, J. P., and Douglas.)

Douglas, Stuart D., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Vinyl resin composition. 2,349,412; May 23.

Douglass, Edward R., Eckman, N. Dak. Combined knife and razor. 2,349,252; May 23.

Dow Chemical Company, The. (See Coleman, G. H., Fletcher, and Schroeder, assignors.)

Dow Chemical Company, The. (See Cummins, Corliss F., assignor.)

Draeger, Arthur A., and W. B. Franklin, Baytown, Tex., assignors to Standard Oil Development Company. Chemical process. 2,349,415; May 23.

Drake, Edward P. (See Ryan, C. D., and Drake.)

Dugas, Joseph J., assignor to Higgins Industries, Inc., New Orleans, La. Synchro-shifting transmission clutch. 2,349,491; May 23.

Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)

Dunn, William T. (See Neracher, C. A., Dunn, Syrovy, and Schotz.)

Du Pont, E. I., de Nemours & Company. (See Boller, E. R., and Remler, assignors.)

Du Pont, E. I., de Nemours & Company. (See Coghill, Philip S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Desetti, G. E., Dew, Mackey, and Woodbridge, assignors.)

Du Pont, E. I., de Nemours & Company. (See English, M. H., Jones, and Nydegger, assignors.)

Du Pont, E. I., de Nemours & Company. (See Norseen, Wilbur H., assignor.)

Du Pont, E. I., de Nemours & Company. (See Pratt, Burt C., assignor.)

Duryea, O. C., Corporation. (See Simonson, Sigvard, assignor.)

Eakin, Willard D., Northampton Township, Summit County, Ohio. Animated figure. 2,349,492; May 23.

Earle, Genevieve M. (See Earle, Guyon L. C., assignor.)

Earle, Guyon L. C., assignor to G. M. Earle, Forest Hills, N. Y. Cabinet structure. 2,349,541; May 23.

Eastman Kodak Company. (See Hiatt, G. D., and Emerson, assignors.)

Eastman Kodak Company. (See Richardson, E. E., and Chechak, assignors.)

Edmund, James M., Washington, D. C. Packing arrangement. 2,349,253; May 23.

Ehrke, Louis F. (See Slack, C. M., and Ehrke.)

Elder, Flint C., Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey. Wire drawing. 2,349,708; May 23.

Ellen, Verner G., Medicine Lake, Minn. Conveying mechanism. 2,349,578; May 23.

Ellis, Delbert, Wilkinsburg, and B. C. Wells, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Reversing line starter interlock. 2,349,616; May 23.

Emerson, John. (See Hiatt, G. D., and Emerson.)

Enders, Hugo E., Belleville, assignor to Monroe Calculating Machine Company, Orange, N. J. Swaging tool. 2,349,493; May 23.

English, Myrle H., Pompton Lakes, N. J., E. R. Jones, Roxborough, Pa., and R. R. Nydegger, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Extrusion device. 2,349,254; May 23.

Epstein, Hirsch, Chicago, Ill. Glow discharge tubing and mounting the same. 2,349,255; May 23.

Erdeley, Zoltan, Brantford, Ontario, assignor to Gypsum, Lime and Alabastine, Canada, Limited, Toronto, Ontario, Canada. Recovery of glue from chrome-tanned leather. 2,349,542; May 23.

Ericks, Walter P. (See McClellan, P. P., and Ericks.)

Erickson, John A., Jackson, Mich. Making solid fuel briquettes. 2,349,342; May 23.

Escher, Charles, and J. J. Fagan, Jersey City, N. J. Combination hung and hinged window. 2,349,543; May 23.

Evans, Harold A., assignor to Coreve Corporation, Fairhaven, Mass. Machine for continuously coating and/or permeating sheets. 2,349,256; May 23.

Evans, Harold A., assignor to Coreve Corporation, Fairhaven, Mass. Adhesive fabric and making the same. 2,349,709; May 23.

Evans, Harold A., assignor to Coreve Corporation, Fairhaven, Mass. Adhesive fabric and manufacturing the same. 2,349,710; May 23.

Evans, Russell T., and J. H. Clasen, Anaheim, Calif. Disk harrow. 2,349,257; May 23.

Excel Auto Radiator Company. (See Sperry, Philmore F., assignor.)

Exhibit Supply Co., The. (See Meyer, John F., assignor.)

Fagan, John J. (See Escher, C., and Fagan.)

Fairfield Engineering Company, The. (See Reichenstein, Wilfred R., assignor.)

Faithfull, John, Newark, N. J. Door hinge. 2,349,711; May 23.

Fallon, Wilmer S. (See Truesdell, Fred A., assignor.)

Faust, Jacob, Belleville, N. J., assignor to L. Sonneborn Sons, Inc. Corrosion inhibitors for lubricating oils. 2,349,785; May 23.

Fawick, Thomas L., Akron, Ohio. Assembly for clutches and brakes. 2,349,494; May 23.

Fearon, Robert E., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well logging method and device. 2,349,712; May 23.

Fenner, James M., South Euclid, Ohio, assignor to The American Steel and Wire Company of New Jersey. Wire drawing die. 2,349,652; May 23.

Ferrer, James P., South Charleston, and S. D. Douglas, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Plastic composition. 2,349,414; May 23.

Fesselet, Albert, Bronx, N. Y. Olivaging machine. 2,349,258; May 23.

Fiedler, Harry W., Scarsdale, N. Y. Louvered register. 2,349,544; May 23.

Field, Oscar S. (See Phinney, R. M., and Field.)

Finch, Arthur, Bolling Field, Washington, D. C. Germicidal animal collar. 2,349,713; May 23.

Finkelstein, Louis, Brooklyn, N. Y. Dispensing device for pastes, creams, etc. 2,349,714; May 23.

Fisher Brush Machinery Corporation. (See West, William T., assignor.)

Fletcher, Fred W. (See Coleman, G. H., Fletcher, and Schroeder.)

Florence Stove Company. (See Reeves, Herbert M., assignor.)

Flygare, Carl G., and W. F. Johnson, assignors to Norton Company, Worcester, Mass. Grinding wheel feeding mechanism. 2,349,786; May 23.

Food Machinery Corporation. (See Craig, Albert P., assignor.)

Food Machinery Corporation. (See Holmes, Herbert G., assignor.)

Food Machinery Corporation. (See Thompson, Albert R., assignor.)

Francis, Oliver T., Renville, Minn. Radiant energy control device. 2,349,715; May 23.

Franklin, William B. (See Draeger, A. A., and Franklin.)

Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Valve construction. 2,349,416; May 23.

Frick Company. (See Good, Daniel F., assignor.)

Fuller, Harold, Middletown, N. Y., assignor, by mesne assignments, to American Brake Shoe Company. Railroad track equipment. 2,349,259; May 23.

Fulton Company, The. (See Thorp, Joel R., assignor.)

Garraway, George C., Rutherford, N. J. Photographic projector. 2,349,260; May 23.

Geigy, J. R., A. G. (See Grun, Adolf, assignor.)

Gene, Frank, also known as Yee, Ming Hor, Maricopa County, Ariz. Toy kite. 2,349,417; May 23.

General Chemical Company. (See Pearson, J. H., and Hammarén, assignors.)

General Electric Company. (See Boisseau, A. C., and Beall, assignors.)

General Electric Company. (See Butler, John W., assignor.)

General Electric Company. (See Campbell, James R., assignor.)

General Electric Company. (See Hewlett, Clarence W., assignor.)

General Electric Company. (See Johnson, Wilber M., assignor.)

General Electric Company. (See Wethmüller, Karl, assignor.)

General Electric Company. (See Wheeler, Arthur W., assignor.)

General Engineering & Mfg. Co. (See Schreiber, J. H., and Dean, assignors.)

General Railway Signal Company. (See Phinney, R. M., and Field, assignors.)

General Refractories Company. (See Boyd, William H., assignor.)

General Steel Castings Corporation. (See Gilchrist, Thomas R., assignor.)

General Steel Castings Corporation. (See Travilla, James C., Jr., assignor.)

Gertler, Samuel I., and H. L. J. Haller, Washington, D. C., assignors to the United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Insecticide. 2,349,344; May 23.

Gilchrist, Thomas R., Yeadon, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Railway vehicle. 2,349,545; May 23.

Gillum, Donald E., Hermosa Beach, and D. H. Van Riper, Los Angeles, assignors to North American Aviation, Inc., Inglewood, Calif. Apparatus for producing sheet-like material. 2,349,495; May 23.

Gillum, Donald E., Hermosa Beach, and D. H. Van Riper, Los Angeles, assignors to North American Aviation, Inc., Inglewood, Calif. Apparatus for producing sheet-like material. 2,349,496; May 23.

Ginn, Wells W., Cincinnati, Ohio, assignor, by mesne assignments, to Vejin, Inc. Vegetable oil. 2,349,546; May 23.

Ginzton, Edward L., Rockville Centre, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Phase angle indicator. 2,349,261; May 23.

Gisondi, Emanuel, Larchmont, N. Y. Fastening device. 2,349,547; May 23.

Gleason Works. (See Carlsen, Leonard O., assignor.)

Globe Hoist Company. (See Thompson, Elmer B., assignor.)

Glowacki, William L., and E. Preston, Pittsburgh, Pa., assignors to Koppers Company. Recovering and refining cyclopentadiene. 2,349,418; May 23.

Goat, Fred, Co., The. (See Batcheider, James W., assignor.)

Godsey, Frank W., Jr., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thrust measuring device for shafts. 2,349,653; May 23.

Goebel, Hans, Berlin-Reinickendorf, Germany, assignor to Sherka Chemical Co. Inc., Bloomfield, N. J. Aqueous solutions of phenols and their homologues and making the same. 2,349,654; May 23.

Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Piston. 2,349,345; May 23.

Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Sealing means. 2,349,346; May 23.

Good, Daniel F., assignor to Frick Company, Waynesboro, Pa. Peanut picking machine. 2,349,262; May 23.

Goodlass, Robert, Winnipeg, Manitoba, Canada. Fuel vaporizer. 2,349,716; May 23.

Goodrich, B. F., Company, The. (See Loughborough, Dwight L., assignor.)

Goodrich, B. F., Company. (See Macavoy, Edmund W., assignor.)

Goodwin, Frank. (See King, J. A., Kellogg, and Goodwin.)

Gorman, John, assignor of forty-nine two-hundredths to S. Gorman, Los Angeles, Calif., fifty-one one-hundredths to W. E. Smith, and forty-nine two-hundredths to W. D. Griffiths. Barbecue apparatus. 2,349,617; May 23.

Gorman, Sybil, et al. (See Gorman, John, assignor.)

Goulooze, Martin J., Grand Rapids, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,349,419; May 23.

Goulooze, Martin J., Grand Rapids, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,349,420; May 23.

Grabinski, Philip, South Prairie, Wash. Vehicle. 2,349,263; May 23.

Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich. Work sling. 2,349,717; May 23.

Graham, Gordon B. (See Clapsadle, L. J., and Graham.)

Graham, William S., Canton, Ill., assignor to International Harvester Company. Agricultural implement. 2,349,343; May 23.

Grant Storage Battery Company. (See Hatfield, James E., assignor.)

Gravenstein, Friedrich-Wilhelm G., Berlin, Germany, assignor to Transart Aktiebolag, Goteborg, Sweden. Manufacture of printed articles. 2,349,718; May 23.

Graybrook, Herbert W., Irwin, and C. J. Biscup, Whitaker, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Self-regulated motor-generator set. 2,349,618; May 23.

Green, George G., Honolulu, Hawaii. Front fender shield. 2,349,421; May 23.

Green, Robert M., & Sons, Inc. (See Beane, Carson H., assignor.)

Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Watt-hour meter. 2,349,347; May 23.

Grenquist, Ernst A. (See Andersen, Grenquist, and Ball.)

Grice, Letcher O., U. S. Army, Washington, D. C. Belt. 2,349,264; May 23.

Griffiths, Ward D., et al. (See Gorman, John, assignor.)

Grout, Martin B., Chicago, assignor to Jefferson Electric Company, Bellwood, Ill. Switch. 2,349,655; May 23.

Grün, Adolf, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Dihydroxy-acetone-diether and its manufacture. 2,349,348; May 23.

Gulf Research & Development Company. (See Chenault, Roy L., assignor.)

Gulliksen, Finn H., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Register control system. 2,349,656; May 23.

Gustafson, Gunnar D., Chicago, Ill. Hand and pinion remover. 2,349,497; May 23.

Guthrie, Bernard M., assignor to Kingston Products Corporation, Kokomo, Ind. Air control device. 2,349,719; May 23.

Gypsum, Lime and Alabastine, Canada, Limited. (See Erdeley, Zoltan, assignor.)

Gyro-Balance Corporation, The. (See Rouy, Auguste L. M. A., assignor.)

Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Pneumatic timing device. 2,349,548; May 23.

Hageman, Aaron M., Verona, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Incandescent electric lamp. 2,349,349; May 23.

Hagerbaumer, William A. (See Utterback, E., and Hagerbaumer.)

Halfacre, George F., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Zinc smelting. 2,349,619; May 23.

Haller, Herbert L. J. (See Gertler, S. I., and Haller.)

Hallock, Robert L., Larchmont, N. Y. Ice tray. 2,349,422; May 23.

Hamilton Metal Products Company, The. (See Piker, Herbert M., assignor.)

Hammarén, Berndt W. (See Pearson, J. H., and Hammarén.)

Hamren, Joseph O., Minneapolis, Minn. Tractor with hydraulic drive. 2,349,265; May 23.

Hansen Mfg. Company. (See Hansen, W. L., and Hurst, assignors.)

Hansen, William L., and I. N. Hurst, assignors to Hansen Mfg. Company, Inc., Princeton, Ind. Fabricating rotors. 2,349,620; May 23.

Harber, Laurence S., assignor to Baker Perkins Limited, Peterborough, England. Manufacture of tin bread. 2,349,423; May 23.

Hardman, French B., Ashtabula, Ohio. Lawn weeder. 2,349,621; May 23.

Hardman, Herbert V., Belleville, and K. V. Hardman, Clifton, N. J. Making depolymerized rubber articles. 2,349,549; May 23.

Hardman, Kenneth V. (See Hardman, Herbert V. and K. V.)

Harley, Conrad. (See O'Hare, G. W., and Harley.)

Harper, Kennard W., East Aurora, assignor to Spencer Lens Company, Buffalo, N. Y. Optical instrument. 2,349,424; May 23.

Harper, Kennard W. (See Osterberg, H., and Harper.)

Harrington, Bertie S., assignor to Armour and Company, Chicago, Ill. Carton. 2,349,589; May 23.

Harris, Stanton A., Westfield, N. J., and E. T. Stiller, New York, N. Y., assignors to Merck & Co., Inc., Rahway, N. J. Acylated derivative of vitamin B_6 and preparing the same. 2,349,267; May 23.

Hartley, Clarence E., assignor of one-half to W. T. Curlie, Salisbury, N. C. Drain plug. 2,349,425; May 23.

Hartley, James C., Norwalk, Conn., and O. H. Henry, Caldwell, N. J., assignors to Minerals and Metals Corporation, New York, N. Y. Iron and steel products and producing the same. 2,349,266; May 23.

Hartzog, Harrison C., Port Lavaca, Tex. Quick-acting launching device for boats and the like. 2,349,268; May 23.

Harvey, Jacquelin E., Jr., Washington, D. C. Production of articles of commerce. 2 349.720; May 23.

Harvey, Jacquelin E., Jr., Washington, D. C., assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Producing valuable oil from coal tar. 2,349,721; May 23.

Harwood, Asa J., Richmond, Ind., assignor to The Atlas Underwear Company, Piqua, Ohio. Undergarment. 2,349,426; May 23.

Hassman, Fred A. (See Nenninger, L. F., Vancil, and Hassman.)

Hastings Manufacturing Company. (See Phillips, Harold P., assignor.)

Haswell, Arthur B., Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company. Eliminating fog from warm bodies of water. 2,349,787; May 23.

Hatfield, James E., Shaker Heights, Ohio, assignor to Grant Storage Battery Company, Minneapolis, Minn. Casting shot. 2,349,498; May 23.

Hawley, Jesse B. (See Sloan, Edward C., assignor.)

Hayden, Robert R., Cross Timbers, Mo. Pipe cutter. 2,349,499; May 23.

Hayter, Bruce, assignor to Oil Devices, Santa Fe, N. Mex. Pot type burner and improved air supply means therefor. 2,349,722; May 23.

Hedberg, Carl W. J., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator. 2,349,550; May 23.

Heimerich, George R., Denver, Colo. Industrial X-ray film holder. 2,349,427; May 23.

Helm, Emerson B., Cleveland, Ohio. Smoker's draft tube. 2,349,551; May 23.

Helmond, William F., Clinton, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,349,723; May 23.

Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Art of treating hydrocarbons. 2,349,428; May 23.

Hemperly, William F., Bloomfield, N. J., assignor to Union Carbide and Carbon Corporation. Electrical conductor carrying vinyl resin composition. 2,349,413; May 23.

Henderson, Welch J., Kansas City, Mo. Dual shaker. 2,349,724; May 23.

Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Kitchen heating gas range. 2,349,788; May 23.

Henry, Otto H. (See Hartley, J. C., and Henry.)

Heppner, Fritz A. M., Onchan, Isle of Man. Hydrokinetic torque transmitting device. 2,349,725; May 23.

Hermelin, Carl M. A., Ulvsunda, assignor to Aktiebolaget Rosenblads Patenter, Stockholm, Sweden. Tubular film evaporating apparatus. 2,349,657; May 23.

Herzog, Gerhard, Houston, Tex., and J. H. Stein, Elmhurst, assignors to Texaco Development Corporation, New York, N. Y. Method and apparatus for measuring thickness. 2,349,429; May 23.

Hewlett, Clarence W., Schenectady, N. Y., assignor to General Electric Company. Manufacture of rectifiers of the blocking layer type. 2,349,622; May 23.

Hiatt, Gordon D., and J. Emerson, assignors to Eastman Kodak Company, Rochester, N. Y. Medical capsule. 2,349,430; May 23.

Hickey, John J., Arlington, N. J. Mixing and dispensing device. 2,349,623; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Recovery of tocopherol. 2,349,269; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Purification of sludges, scums, and the like to prepare relatively purified tocopherol. 2,349,270; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Antioxidants. 2,349,274; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Separation of tocopherol from scum with solvents. 2,349,275; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Preparation of tocopherol products. 2,349,276; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Preparation of stabilized edible substances. 2,349,277; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Preparation of tocopherol-containing materials and products. 2,349,278; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Distillation apparatus. 2,349,431; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Tocopherol-containing composition and process of preparation. 2,349,590; May 23.

Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Concentration and preservation of tocopherol. 2,349,789; May 23.

Hickman, Kenneth C. D., and N. H. Kuhrt, assignors to Distillation Products, Inc., Rochester, N. Y. Tocopherol preparation. 2,349,272; May 23.

Higgins, Eugene, Jackson, Mich. Friction clutch. 2,349,624; May 23.

Higgins Industries, Inc. (See Dugas, Joseph J., assignor.)

Hill, Allan W. (See Cumming, J. M., and Hill.)

Hodges, George, Meadow Way, Rickmansworth, England. Signal discriminating system. 2,349,625; May 23.

Hoe, R., & Co. (See Huck, William F., assignor.)

Holden, Artemas F. (See Solakian, H., and Case, assignors.)

Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective switch. 2,349,279; May 23.

Holley, Earl, et al. (See Udale, Stanley M., assignor.)

Holley, George M., et al. (See Udale, Stanley M., assignor.)

Holler, George J., Bridgeport, Ohio. Dispenser for extrusile substances. 2,349,726; May 23.

Holmes, Herbert G., Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif. Wheel balancer. 2,349,552; May 23.

Hopkins, David W., Philadelphia, Pa. Valve. 2,349,727; May 23.

Hopkins, Nevil M., New York, N. Y., assignor to United States Trust Company of New York. War vessel with high power, long range gun. 2,349,728; May 23.

Hopkinson, Russell, East Hampton, and A. V. Tolstoouhov, New York, N. Y., assignors, by mesne assignments, to Parke, Davis & Company, Detroit, Mich. Therapeutic arsenic preparation. 2,349,729; May 23.

Hopps, Bernard, assignor to Lodge Plugs Limited, Rugby, England. Sparking plug. 2,349,432; May 23.

Hopwood, John M. (See Anderson, George R., assignor.)

Horder's, Incorporated. (See Snelling, Walter L., assignor.)

Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Brake drum. 2,349,658; May 23.

Horning, Raymond, assignor to Oswego Falls Corporation, Fulton, N. Y. Tubular container. 2,349,730; May 23.

Hornschuch, Hanns, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Centrifugal pump. 2,349,731; May 23.

Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill. Self-locking screw device. 2,349,591; May 23.

Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill. Self-locking screw device. 2,349,592; May 23.

Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill. Self-locking screw device. 2,349,593; May 23.

Houdaille-Hershey Corporation. (See Schueren, William B., assignor.)

Houdry Process Corporation. (See Bates, John R., assignor.)

Hovey, C. Earl, trustee. (See Baldwin, Curtis C., assignor.)

Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Sealing the mouths of bags. 2,349,732; May 23.

Howell, Albert S., Culver, Ind., assignor to The Bell & Howell Company, Chicago, Ill. Motion picture projector shutter and heat shield therefor. 2,349,433; May 23.

Howell, Albert S., Culver, Ind., assignor to The Bell & Howell Company, Chicago, Ill. Rotatable shutter for motion picture projectors. 2,349,500; May 23.

Howland, Louis H., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Plastic polymeric derivatives of chloroprene and producing the same. 2,349,733; May 23.

Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., Bronx, N. Y. Web propelling roller. 2,349,659; May 23.

Hughes, Daniel K., and J. J. Klosterman, deceased; M. Klosterman, executrix, assignors to The National Cash Register Company, Dayton, Ohio. Cash register. 2,349,660; May 23.

Hunt, Olga F., et al., executors. (See Zwicky, Jean.)

Hunt, William F., et al., executors. (See Zwicky, Jean.)

Hurst, Ira N. (See Hansen, W. L., and Hurst.)

Hydraulic Development Corp. Inc., The. (See Tucker, W. R., and Waldie, assignors.)

Hyman, Julius, assignor to Velsicol Corporation, Chicago, Ill. Insect repellent. 2,349,434; May 23.

Illinois Tool Works. (See Hosking, Richard T., assignor.)

Imperial Chemical Industries Limited. (See Pratt, H. R. C., and Morris, assignors.)

Ingersoll-Rand Company. (See Hornschuch, Hanns, assignor.)

Interchemical Corporation. (See Reynolds, W. B., and Scully, assignors.)

International Cigar Machinery Company. (See Wheeler, Henry H., assignor.)

International Harvester Company. (See Aasland, John L., assignor.)

International Harvester Company. (See Graham, William S., assignor.)

International Harvester Company. (See La Motte, Ralph R., assignor.)

International Harvester Company. (See MacDonald, Raymore D., assignor.)

International Harvester Company. (See Rietz, Edward L., assignor.)

Jackson, John. (See Schmidt, A. J., and Jackson.)

Jacobs, E. H., Mfg. Co. (See Clark, Breckinridge T., assignor.)

James, Lawrence H., Silver Spring, Md. Sterilization of shoes and shoe leather. 2,349,661; May 23.

Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbotransmission. 2,349,350; May 23.

Janke, Eric G. (See Stannard, J. H., and Janke.)

Jarvis, Edward P., Los Angeles, Calif. Display rack. 2,349,351; May 23.

Jaume, Michael, New York, N. Y. Razor blade sharpening holder. 2,349,734; May 23.

Jefferson Electric Company. (See Grout, Martin B., assignor.)

Jeffrey Manufacturing Company, The. (See Tolman, Samuel L., assignor.)

Johnson, George V., assignor to Willamette Hyster Company, Portland, Oreg. Industrial truck. 2,349,352; May 23.

Johnson, George V., assignor to Willamette Hyster Company, Portland, Oreg. Industrial truck. 2,349,353; May 23.

Johnson, Walter C., Bemus Point, N. Y. Hydraulic brake system. 2,349,791; May 23.

Johnson, Walter F. (See Flygare, C. G., and Johnson.)

Johnson, Wilber M., Cleveland Heights, Ohio, assignor to General Electric Company. Electric switch. 2,349,354; May 23.

Johnson, William C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gyratory crusher. 2,349,790; May 23.

Jones, Earl R. (See English, M. H., Jones, and Nydegger.)

Joy, Joseph F., Claremont, N. H. Pump. 2,349,280; May 23.

Juelss, David, Brooklyn, N. Y., assignor to American Lead Pencil Company, Hoboken, N. J. Mechanical pencil. 2,349,553; May 23.

Kahn, Alfred, Hollis, N. Y., assignor to Radio Corporation of America. Frequency drift indicator. 2,349,501; May 23.

Keating, Thomas J., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electroplating cell. 2,349,662; May 23.

Keefe, Arthur, Akron, Ohio. Air valve. 2,349,435; May 23.

Keefer, Clarence E., Baltimore, Md. Compass. 2,349,626; May 23.

Keeler, Earl A., Norristown, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,349,437; May 23.

Keller, Earl A., Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa. Temperature measuring device. 2,349,436; May 23.

Kellogg, George. (See King, J. A., Kellogg, and Goodwin.)

Kelsey-Hayes Wheel Company. (See Le Jeune, Frank H., assignor.)

Kemmer, Eugene S., and J. E. Titus, La Fayette, and W. K. Oyler, West Lafayette, Ind. Multiple ventilating system. 2,349,627; May 23.

Kendall, George H., Noroton Heights, Conn. Pulley bearing. 2,349,281; May 23.

Kent-Moore Organization, Inc., Hinckley-Myers Division of. (See Graham, George M., assignor.)

Kepler, John F., Chicago, Ill. Signal. 2,349,355; May 23.

Kern, Jean G., Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation. Coloring of organic derivatives of cellulose. 2,349,282; May 23.

Khalil, Seyed, New York, N. Y. Typewriter and the like. 2,349,554; May 23.

Kimmel, George P., Brookeville, Md. Safety lowering device. 2,349,735; May 23.

King, John A., G. Kellogg, and F. Goodwin, Interlaken, N. Y. Cover mechanism. 2,349,283; May 23.

King Kone Corporation. (See Tatosian, Harry G., assignor.)

Kingston Products Corporation. (See Guthrie, Bernard M., assignor.)

Kinkead, Fullerton S. (See Dahlbom, C. A., Kinkead, and Locke.)

Kinzelman, Gerald W., Washington, D. C. Safety device for hydraulic power transmission apparatus. 2,349,284; May 23.

Kittess, Jason J., Los Angeles, Calif. Capping apparatus. 2,349,555; May 23.

Kleckner, William R., Oakland, assignor to J. A. McCarthy, San Francisco, Calif. Treating magnesium minerals. 2,349,556; May 23.

Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Honing tool. 2,349,628; May 23.

Klosterman, Joseph J. (See Hughes, D. K., and Klosterman.)

Klosterman, Mary, executrix. (See Hughes, D. K., and Klosterman.)

Knobel, Max, Arlington, J. B. Dickson, Northampton, and J. W. Baymiller, assignors to A. G. Spalding & Bros. Inc., Chicopee, Mass. Method and apparatus for testing. 2,349,736; May 23.

Knochel, William J. (See Marshall, D. E., and Knochel.)

Koehler, Otto A., San Antonio, Tex. Bottle-cap reclaiming machine. 2,349,502; May 23.

Koos, Paul V. (See Bonorden, A. R., Koos, Krecek, Large, and Marshall.)

Koppers Company. (See Glowacki, W. L., and Preston, assignors.)
Koppers Company. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Producing a gas suitable for the synthesis of hydrocarbons. 2,349,438; May 23.
Koppers, Heinrich, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Contrivance for the heating of gases. 2,349,439; May 23.
Korf, Frederick, and W. F. Zentler, Crestwood, assignors to Sales Affiliates, Inc., New York, N. Y. Permanent waving and a permanent waving heater. 2,349,285; May 23.
Kouba, Charles M., assignor of one-half to G. M. Bonebrake, Chicago, Ill. Micro boring and turning device. 2,349,503; May 23.
Kramer, Andrew A. (See Clements, Ernest W., assignor.)
Krecek, Joseph A. (See Bonorden, A. R., Koos, Krecek, Large, and Marshall.)
Kreitner, Johann, Brooklyn, and R. M. Kristal, New York, N. Y. Propellers for multiple propeller ships. 2,349,286; May 23.
Krieger, Joseph L., Baltimore, Md. Coating and coating methods. 2,349,737; May 23.
Kristal, Robert M. (See Kreitner, Johann, and Kristal.)
Kroger Food Foundation, The. (See Vollé, Norbert H., assignor.)
Krüssmann, Adolf, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Device for controlling precessional forces in gyroscopes. 2,349,287; May 23.
Kuhrt, Noel H. (See Hickman, K. C. D., and Kuhrt.)
Lamberger, Bruno, Gwelo, Southern Rhodesia, Union of South Africa. Apparatus for instruction in drawing. 2,349,504; May 23.
La Motte, Ralph R., Richmond, Ind., assignor to International Harvester Company. Holder for electrolytic deplating. 2,349,356; May 23.
Landrock, Paul. (See Caps, A. W., and Landrock.)
Langer, Bernard F. (See Alben, F. L., and Langer.)
Langer, Bernard F., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Torsional measuring device. 2,349,663; May 23.
Langguth, Paul O. (See Lindstrom, T., and Langguth.)
Langston, Samuel M., Co. (See Behrens, Herbert C., assignor.)
Lankenau Hospital, The. (See Toennies, Gerrit, assignor.)
Lannen, Joseph P., Detroit, Mich. Balance testing machine. 2,349,288; May 23.
Large, Wayne V. K. (See Bonorden, A. R., Koos, Krecek, Large, and Marshall.)
Largman, Joseph, Philadelphia, Pa. Stocking. 2,349,357; May 23.
Larison Compensating Axle Corporation. (See Larison, Glenn L., assignor.)
Larison, Glenn L., La Grande, Oreg., assignor to Larison Compensating Axle Corporation. Vehicle wheel mounting. 2,349,289; May 23.
Lavoie, Stephen D., Dayton, Ohio. Wave meter. 2,349,440; May 23.
Lazich, Branko, Wilkinsburg, and R. H. Williams, Jr., Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Asymmetric device and mounting means therefor. 2,349,629; May 23.
Leighty, Fred G., Birmingham, Ala. Frame for measuring body posture. 2,349,664; May 23.
Le Jeune, Frank H., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Forming pressed metal wheel disks. 2,349,738; May 23.
Lesnick, Robert N., Brooklyn, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Aircraft cockpit canopy. 2,349,630; May 23.
Levit, Jacob D., Brooklyn, assignor to S. S. Rand, New York, N. Y. Liquid dispensing container. 2,349,665; May 23.
Lillis, Stephen M. (See Bernstein, W. F., and Lillis.)
Lindstrom, Ture, Edgewood, and P. O. Langguth, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,349,631; May 23.
Link Aviation Devices, Inc. (See Lowkrantz, G., and Link, assignors.)
Link, Edwin A., Jr. (See Lowkrantz, G., and Link.)
Lippold, Adolph J. (See Weinreich, C. F., and Lippold.)
Litty, John R., Philadelphia, Pa. Apparatus for coating articles. 2,349,579; May 23.
Lock Joint Pipe Company. (See Trickey, William W., assignor.)
Locke, George A. (See Dahlbom, C. A., Kinkead, and Locke.)
Lodge Plugs Limited. (See Hopps, Bernard, assignor.)
Lohne, John, Denver, Colo. Garden hose holder. 2,349,505; May 23.
Louden, Harry M., and C. W. McCreery, Muncie, Ind., assignors to Owens-Illinois Glass Company. Pressure sustaining apparatus. 2,349,739; May 23.
Loughborough, Dwight L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Improving the adhesion of nylon to rubber. 2,349,290; May 23.
Lowkrantz, Gunne, and E. A. Link, Jr., assignors to Link Aviation Devices, Inc., Binghamton, N. Y. Recording navigation instrument. 2,349,506; May 23.
Lund, James K., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Dispensing device for beverages. 2,349,441; May 23.
Lundin, George, Dassel, Minn. Seed grading machine. 2,349,442; May 23.
Macavoy, Edmund W., Port Washington; M. O. Macavoy, administratrix of said E. W. Macavoy, deceased, assignor to B. F. Goodrich Company, Borough of Manhattan, N. Y. Foot accelerator speed control. 2,349,742; May 23.
Macavoy, Mildred O., administratrix. (See Macavoy, Edmund W.)
MacCordy, Charles A., Fulton, N. Y. Parking meter. 2,349,359; May 23.
MacDonald, Raymore D., Battle Creek, Mich., assignor to International Harvester Company. Hitch. 2,349,361; May 23.
MacGraham, Harry C., Wellesley Hills, Mass. Lever mechanism. 2,349,507; May 23.
MacLean-Fogg Lock Nut Company. (See Doke, Ernest G., assignor.)
Mack, Gerry, Jackson Heights, N. Y., assignor to Advance Solvents and Chemical Corporation. Adhesive composition of matter. 2,349,508; May 23.
Mackey, Bill H. (See Desetti, G. E., Dew, Mackey, and Woodbridge.)
Mallinckrodt Chemical Works. (See Stoughton, Roger W., assignor.)
Marano, Leonard, Brooklyn, N. Y. Electrical heating apparatus. 2,349,509; May 23.
Marden, John W., East Orange, and G. Meister, Newark, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Disk-type fluorescent lamp. 2,349,360; May 23.
Marinsky, Davis, and L. H. Morin, Bronx, N. Y. Separable fastener. 2,349,580; May 23.
Marinsky, Davis, and L. H. Morin, Bronx, N. Y. Lock slider. 2,349,581; May 23.
Marker, William M., Los Angeles, and A. G. Orear, Glendale, assignors to Trade-Wind Motorfans, Inc., Los Angeles, Calif. Blower. 2,349,668; May 23.
Marshall, Donald E. (See Pearson, R. W., and Marshall.)
Marshall, Donald E., Summit, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Container. 2,349,362; May 23.
Marshall, Donald E., Allwood, and W. J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Metal casing discharge device. 2,349,363; May 23.
Marshall, Richard C., Jr., Kansas City, assignor to Crook Paper Box Company, North Kansas City, Mo. Chick shipping box. 2,349,364; May 23.
Marshall, Tola A. (See Bonorden, A. R., Koos, Krecek, Large, and Marshall.)
Martellotti, Mario E., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Machine tool control mechanism. 2,349,595; May 23.
Martin, Andrew S., Salem, Ohio. Expanding chuck. 2,349,447; May 23.
Martin, Harry C., and J. B. Aust, assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y. Flexible abrasive article. 2,349,365; May 23.
Marx, George G., Detroit, Mich. Grate for boilers, furnaces and the like. 2,349,448; May 23.
Mathews, Carl, and C. Chinzi, Jackson, Mich. Electrode holder. 2,349,510; May 23.
Matthews, W. N., Corporation. (See Brown, K. R., and Mosley, assignors.)
May, John W., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic reclosing breaker. 2,349,632; May 23.
McCarthy, J. A. (See Kleckner, William R., assignor.)
McCarty, Lourdes V., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Burner control apparatus. 2,349,443; May 23.
McClellan, Paul P., Old Greenwich, and W. P. Ericks, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Stabilized diazo dicyandiamide compound. 2,349,557; May 23.
McCollum, Henry J. De N., Chicago, Ill. Automobile heater. 2,349,740; May 23.
McCreery, Cecil W. (See Louden, H. M., and McCreery.)
McCullough, Ira J. (See Reynolds, Waldo S., assignor.)
McCullough, Ira J., Los Angeles, Calif. Perforator gun with improved projectile restraining means. 2,349,666; May 23.
McGowan, Michael E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for inside coating. 2,349,444; May 23.
McGrane, Frank B., Quincy, Mass., assignor to Colprovia Roads, Inc., Rochester, N. Y. Making bituminous paving compositions and pavements. 2,349,445; May 23.
McGrane, Frank B., Quincy, Mass., assignor to Colprovia Roads, Inc., Rochester, N. Y. Manufacture of bituminous pavements and paving compositions. 2,349,446; May 23.

McLaughlin, John E., assignor to Doak Aircraft Co. Inc., Torrance, Calif. Drill socket construction. 2,349,741; May 23.
McLaughlin, Robert W., Jr., Bedford, assignor to American Houses, Inc., New York, N. Y. Building structure. 2,349,358; May 23.
McMahon, William W., assignor to Wingfoot Corporation, Akron, Ohio. Vacuum method for filling tires with water. 2,349,594; May 23.
McQuillan, John F., Sr., East Orange, N. J. Automatic height gauge tapper. 2,349,667; May 23.
Meador, Gordon R., Fresno, Calif. Fog nozzle. 2,349,449; May 23.
Meinzer, Gotthold H., Glendale, Calif. Apparatus for dynamic balancing. 2,349,450; May 23.
Meister, George. (See Marden, J. W., and Meister.)
Meister, Leo, Irvington, N. J. Vise. 2,349,291; May 23.
Melick, John M., Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,349,669; May 23.
Merck & Co. (See Harris, S. A., and Stiller, assignors.)
Merrell, Wm. S., Company, The. (See Shelton, R. S., and Van Campen, assignors.)
Merrell, Wm. S., Company, The. (See Van Zoeren, Gerrit J., assignor.)
Meyer, John F., Chicago, Ill., assignor to The Exhibit Supply Co. Vibratory apparatus. 2,349,743; May 23.
Micromatic Hone Corporation. (See Kline, John E., assignor.)
Mid-West Bottle Cap Co. (See Sonnenberg, Rudolph, assignor.)
Miller, Louis P., Cleveland Heights, Ohio, assignor to American Home Products Corporation, Jersey City, N. J. Making capsules. 2,349,511; May 23.
Miller, William J. (See Miller, W. J., (and Reek, assignor).)
Miller, William J., Swissvale, and A. J. Reek, Carrick, Pa., said Reek assignor to said Miller. Method and apparatus for appendaging potteryware. 2,349,292; May 23.
Milwaukee Electric Tool Corporation. (See Beckwith, Wendell K., assignor.)
Milwaukee Gas Specialty Company. (See McCarty, Lourdes V., assignor.)
Minerals and Metals Corporation. (See Hartley, J. C., and Henry, assignors.)
Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)
Minns, Frederick J. (See de Lubicz-Bakanowski, Z., Minns, and Norman.)
Mishawaka Rubber and Woolen Manufacturing Company. (See Bodle, Virgil H., assignor.)
Mizzy, Inc. (See Berger, Herbert R., assignor.)
Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)
Monroe Calculating Machine Company. (See Enders, Hugo E., assignor.)
Moon, Charles A., Caracas, Venezuela, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Geophysical prospecting. 2,349,366; May 23.
Moorhouse, Robert W., Sharon Township, Medina County, assignor to Wingfoot Corporation, Akron, Ohio. Production of diarylenethiazyl disulfides. 2,349,599; May 23.
Moraros, Michael D., Nashua, N. H. Twister tube assembly for spinning machines. 2,349,512; May 23.
Morgan, Maurice J., Charlotte, N. C. Power transmission unit. 2,349,744; May 23.
Moren, William V. (See Peterson, C. H., and Moren.)
Morin, Louis H. (See Marinsky, D., and Morin.)
Morris, Claremont R., New York, N. Y. Identification device. 2,349,745; May 23.
Morris, Frank E., and H. Wagner, Philadelphia, Pa., assignors, by mesne assignments, to Scott & Williams, Incorporated, New York, N. Y. Elastic top stocking. 2,349,746; May 23.
Morris, George O. (See Pratt, H. R. C., and Morris.)
Morris Paper Mills. (See Arneson, Edwin L., assignor.)
Morrison, Orry C., Carroll, Iowa. Bacteria antigen for the treatment of diphtheria. 2,349,293; May 23.
Morrison, Orry C., Carroll, Iowa. Bacteria antigen for the treatment of scarlet fever. 2,349,294; May 23.
Mortus, Benjamin H., Shaker Heights, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio. Making lock nuts. 2,349,513; May 23.
Mosley, Carl E. (See Brown, K. R., and Mosley.)
Motor Power, Inc. (See Pratt, George L., assignor.)
Motor Wheel Corporation. (See Horn, Harry J., assignor.)
Motz, William H., Oak Park, Ill. Freezing of liquids. 2,349,451; May 23.
Moxey, Fred W., Aurora, assignor to American Molded Products Co., Chicago, Ill. Combination compass and measuring instrument. 2,349,670; May 23.
Moyer, Wendell W., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Deodorizing and decolorizing levulinic acid. 2,349,514; May 23.
Muffly, Glenn, Springfield, Ohio. Refrigerating apparatus. 2,349,367; May 23.
Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgs Plate Glass Company, Allegheny County, Pa. Purification of caustic soda. 2,349,596; May 23.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Chlorination of chromium bearing materials. 2,349,747; May 23.
Musolino, Nickolas J., Campbell, Ohio. Score card. 2,349,452; May 23.
Myers, Charles L., Philadelphia, Pa. Damper construction. 2,349,368; May 23.
Myers, Henry C., Geneva, Ill., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric device. 2,349,633; May 23.
Napier, Charles H., Bethesda, Md. Hydraulic control mechanism. 2,349,295; May 23.
Nash-Kelvinator Corporation. (See Goulooze, Martin J., assignor.)
National Cash Register Company, The. (See Hughes, D. K., and Klosterman, assignors.)
National Cash Register Company, The. (See Shollar, Robert G., assignor.)
National Postal Meter Company. (See Ryan, C. D., and Drake, assignors.)
National Screw & Manufacturing Company, The. (See Davis, Frank B., assignor.)
National Screw & Manufacturing Company, The. (See Mortus, Benjamin H., assignor.)
Neal, Morris P., Quincy, assignor to Ditto, Incorporated, Chicago, Ill. Control means for the impression rollers of duplicating machines. 2,349,634; May 23.
Needham, Edward F., Alhambra, Calif. Pipe. 2,349,296; May 23.
Nenninger, Lester F., E. D. Vancil, and F. A. Hassman, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Lubrication system for machine tools. 2,349,597; May 23.
Neracher, Carl A., W. T. Dunn, A. J. Syrovy, and O. W. Schotz, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,349,297; May 23.
New Jersey Zinc Company, The. (See Halfacre, George F., assignor.)
Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control of refrigeration. 2,349,671; May 23.
Nichols Engineering & Research Corporation. (See Prather, Graham P., assignor.)
Nielsen, Svend H., San Francisco, Calif. Package. 2,349,672; May 23.
Noel, Philip X., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Flashlight. 2,349,453; May 23.
Norman, Garnet W. G. (See de Lubicz-Bakanowski, Minns, and Norman.)
Norseen, Wilbur H., Chadds Ford, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bag closure. 2,349,369; May 23.
North American Aviation, Inc. (See Gillum, D. E., and Van Riper.)
North American Aviation, Inc. (See Ripley, Mose D., assignor.)
Norton Company. (See Flygare, C. G., and Johnson.)
Nydegger, Roland R. (See English, M. H., Jones, and Nydegger.)
Oberst, Edward E., New Haven, Conn. Astronomical educational device. 2,349,515; May 23.
Offen, Bernard, Chicago, Ill. Drying hood. 2,349,558; May 23.
O'Hare, George W., Bellflower, and C. Harley, Los Angeles, Calif., assignors, by mesne assignments, to Consolidated Vultee Aircraft Corporation. Ammunition container. 2,349,454; May 23.
Oil Devices. (See Hayter, Bruce, assignor.)
Okolicsanyi, Ferenc, Kensington, London, England, assignor to Scophony Corporation of America, New York, N. Y. Television receiver. 2,349,298; May 23.
Old Dominion Box Company. (See Becker, Walter A., assignor.)
Oliner, Saul, Brooklyn, N. Y. Hair net. 2,349,299; May 23.
Olcott, Charles A., West Milford, N. J. Centrifuge drive. 2,349,559; May 23.
Olsen, Fredrich, Alton, assignor to Western Cartridge Company, East Alton, Ill. Explosive. 2,349,300; May 23.
Olson, Eric P., assignor to The Diamond Match Company, New York, N. Y. Apparatus for internally coating containers. 2,349,455; May 23.
Olson, Eric P., Brooklyn, assignor to The Diamond Match Company, New York, N. Y. Applying tubular articles to dies and the like. 2,349,456; May 23.
Orear, Andrew G. (See Marker, W. M., and Orear.)
Orner, Harry, Cleveland Heights, Ohio. Radiant energy locating system. 2,349,370; May 23.
Osterberg, Harold, Buffalo, and K. W. Harper, East Aurora, assignors to Spencer Lens Company, Buffalo, N. Y. Vertical illuminator for microscopes. 2,349,457; May 23.
Oswego Falls Corporation. (See Horning, Raymond, assignor.)

Otto, Herman E., assignor to Cooper Paper Box Corporation, Buffalo, N. Y. Dispensing container or carton. 2,349,748; May 23.

Overby, Theodore A., Aberdeen, S. Dak. Antifriction door latch. 2,349,301; May 23.

Owen, John J., and E. E. Stahly, Baton Rouge, La., assignors to Standard Oil Development Company. Reaction of paraffinic hydrocarbons. 2,349,458; May 23.

Owens-Illinois Glass Company. (See Louden, H. M., and McCreery, assignors.)

Owens-Illinois Glass Company. (See Schreiber, Carl W., assignor.)

Oyler, William K. (See Kemmer, E. S., Titus, and Oyler.)

Pacific Railway Equipment Company. (See Van Dorn, William E., assignor.)

Parcelle, Alvin J., et al., trustees. (See Watson, Sydney C.)

Parke, Davis & Company. (See Hopkinson, R., and Tolstoouhov, assignors.)

Parke, Davis & Company. (See Tendick, Frank H., assignor.)

Patterson, William N., Detroit, assignor, by mesne assignments, to The Sparks-Withington Company, Jackson, Mich. Air cleaning device. 2,349,371; May 23.

Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Antioxidant. 2,349,749; May 23.

Paulsen, Thomas R., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Wheeled scraper. 2,349,302; May 23.

Pearson, John H., Flushing and B. W. Hammarén, Floral Park, assignors to General Chemical Company, New York, N. Y. Manufacture of phenyl o-phenoxybenzoate. 2,349,459; May 23.

Pearson, Robert W., Wilkinsburg, Pa., and D. E. Marshall, Allwood, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermostatic protection of ignition tubes. 2,349,673; May 23.

Pelosi, Nicholas, Newark, N. J., assignor to American Can Company, New York, N. Y. Coating machine. 2,349,303; May 23.

Peterson, Carl H., and W. V. Moren, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Method and apparatus for forming wire entanglements. 2,349,750; May 23.

Phelps, Clyde H. (See Weaver, I. A., and Phelps.)

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Processing split piston ring elements. 2,349,372; May 23.

Phillips Petroleum Company. (See Doan, Richard L., assignor.)

Phinney, Robert M., and O. S. Field, assignors to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,349,460; May 23.

Photostat Corporation. (See Caps, A. W., and Landrock, assignors.)

Piker, Herbert M., assignor to The Hamilton Metal Products Company, Hamilton, Ohio. Lunch box. 2,349,751; May 23.

Pines, Herman, and H. S. Bloch, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of paraffins. 2,349,516; May 23.

Pinkerton, Clarence S., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Calorimetry of low quality combustible gas. 2,349,517; May 23.

Pioneer Specialty Company. (See Carlson, Emil, assignor.)

Pittsburgh Plate Glass Company. (See Muskat, Irving E., assignor.)

Pittsburgh Plate Glass Company. (See Pollack, Maxwell A., assignor.)

Pittsburgh Plate Glass Company. (See Strain, Franklin, assignor.)

Pletcher, John W., Jr. (See Anders, Roy, assignor.)

Pneumatic Scale Corporation, Limited. (See Howard, Stanley R., assignor.)

Pointer, Robert W., assignor to Willamette Iron & Steel Corporation, Portland, Oreg. Trailer axle. 2,349,373; May 23.

Pollack, Maxwell A., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Treatment of allyl type halides. 2,349,752; May 23.

Pontecorvo, Bruno, assignor to Well Surveys, Incorporated, Tulsa, Okla. Method and apparatus for geophysical exploration. 2,349,753; May 23.

Porter, Frank, Syracuse, assignor to The Solvay Process Company, New York, N. Y. Purification of phthalic anhydride. 2,349,518; May 23.

Porter, Thomas R., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method and instrument for measuring ultraviolet radiations. 2,349,754; May 23.

Potash Company of America. (See Weinig, Arthur J., assignor.)

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Selective signaling system and apparatus. 2,349,304; May 23.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,349,674; May 23.

Prather, Graham P., Teaneck, N. J., assignor to Nichols Engineering & Research Corporation, New York, N. Y. Furnace construction. 2,349,755; May 23.

Pratt, Burt C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Formaldehyde resin modified with a polyiso- or polyisothiocyanate. 2,349,756; May 23.

Pratt, Henry R. C., Halewood, near Liverpool, and G. O. Morris, Eccleston Lane Ends, near Prescot, England, assignors to Imperial Chemical Industries Limited. Manufacture of amines. 2,349,461; May 23.

Pratt, George L., assignor to Motor Power, Inc., Atlanta, Ga. Carbureting apparatus. 2,349,676; May 23.

Pratt, George L., assignor to Motor Power, Inc., Atlanta, Ga. Charge forming system for internal-combustion engine with reuse of exhaust gases. 2,349,675; May 23.

Pratt, John W. (See Ricks, F., and Pratt.)

Preston, Elliott. (See Glowacki, W. L., and Preston.)

Pure Oil Company, The. (See Bond, D. C., and Botsford, assignors.)

Pusheck, Herbert W., Evanston, Ill. Device for use in tearing sheet material. 2,349,635; May 23.

Pyk, Herman T., Saltsjo-Duvnas, Sweden. Two-stroke internal combustion engine. 2,349,305; May 23.

Pym, Arthur F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Manufacture of shoes and shoe parts. 2,349,374; May 23.

Radio Corporation of America. (See Crosby, Murray G., assignor.)

Radio Corporation of America. (See Kahn, Alfred, assignor.)

Radio Corporation of America. (See Young, John E., assignor.)

Ramsey, Raymond G., et al. (See Trew, James W., assignor.)

Ramsey, Vernon E., et al. (See Trew, James W., assignor.)

Rand, Sidney S. (See Levit, Jacob D., assignor.)

Raspet, August, Hyattsville, Md. Gyroscopic instrument. 2,349,757; May 23.

Raspet, August, Old Lyme, Conn. Gyroscopic instrument. 2,349,758; May 23.

Ray, Frederick A., Van Nuys, Calif. Convertible hackamore bosal bit. 2,349,375; May 23.

Ray, Frederick A., Van Nuys, Calif. Safety latch for pistol holsters. 2,349,376; May 23.

Ray, William A., Los Angeles, Calif. Thermoelectric device. 2,349,306; May 23.

Reagan, Maurice E., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Supervisory control system. 2,349,636; May 23.

Reconstruction Finance Corporation. (See Anglo California National Bank of San Francisco, The, trustee.)

Reek, Ashley J. (See Miller, W. J., and Reek.)

Reeves, Herbert M. Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Accessory mounting for cooking ranges. 2,349,307; May 23.

Reflectone Corp., The. (See Simjian, Luther G., assignor.)

Reichenstein, Wilfred R., assignor to The Fairfield Engineering Company, Marion, Ohio. Control device. 2,349,519; May 23.

Reiff, Orland M., and J. D. Zech, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Plastic reaction products of conjugated olefins with wax substituted aromatic compounds. 2,349,759; May 23.

Reijnst, Maximilien F., Eindhoven, Netherlands; vested in the Alien Property Custodian. Device for ascertaining the output or input of reciprocating engines. 2,349,560; May 23.

Remler, Raymond F. (See Boller, E. R., and Remler.)

Renner, Herbert O., Des Plaines, assignor, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill. Treating fatty material. 2,349,377; May 23.

Renner, Herbert O., Des Plaines, assignor, by mesne assignments to J. R. Short Milling Company, Chicago, Ill. Apparatus for treating fatty materials. 2,349,378; May 23.

Research Corporation. (See Hedberg, Carl W. J., assignor.)

Resinous Products & Chemical Company, The. (See Bruson, H. A., and Riener, assignors.)

Reuter, Raymond, Medford Lakes, N. J., assignor to The Atlantic Refinery Company, Philadelphia, Pa. Addition agent for lubricating oil and making same. 2,349,462; May 23.

Reynolds, Waldo S., assignor to Ira J. McCullough, Los Angeles, Calif. Making projectiles. 2,349,677; May 23.

Reynolds, William B., Elmhurst, Long Island, and S. A. Scully, Yonkers, assignors to Interchemical Corporation, New York, N. Y. Textile printing method. 2,349,561; May 23.

Rhyne, Jeff S., Detroit, Mich. Voltage regulator. 2,349,308; May 23.

Richardson, Earle E., and J. J. Chechak, assignors to Eastman Kodak Company, Rochester, N. Y. Ultraviolet-sensitive photographic element. 2,349,760; May 23.

Ricks, Fred, and J. W. Pratt, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Machine for operating upon soles. 2,349,379; May 23.

Riddell, John T., Chicago, Ill. Air valve. 2,349,463; May 23.

Rider, Harry N., and F. G. Dieter, assignors to "Automatic" Sprinkler Company of America, Youngstown, Ohio. Fluid release valve and actuating mechanism. 2,349,464; May 23.

Riener, Thomas W. (See Bruson, H. A., and Riener.)

Rietz, Edward L., Riverside, Ill., assignor to International Harvester Company. Thresher cylinder. 2,349,380; May 23.

Ripley, Mose D., Hawthorne, assignor to North American Aviation, Inc., Inglewood, Calif. Stretching machine jaw. 2,349,520; May 23.

Roberts, Harold P., Tallmadge, assignor to Wingfoot Corporation, Akron, Ohio. Purification of mercaptothiazoles. 2,349,598; May 23.

Robeson, Charles D. (See Baxter, J. G., and Robeson.)

Rockrite Processes, Inc. (See Coe, George B., assignor.)

Rolnick, Harry A., assignor to Rolnick Testing & Manufacturing Co., Philadelphia, Pa. Electric salt bath furnace. 2,349,678; May 23.

Rolnick Testing & Manufacturing Co. (See Rolnick, Harry A., assignor.)

Roper, Geo. D., Corporation. (See Hennessy, John F., assignor.)

Rosenblad, Curt F., assignor to Aktiebolaget Rosenblads Patenter, Stockholm, Sweden. Tube and sheet connection. 2,349,792; May 23.

Rosenthal, Henry, Yonkers, N. Y. Solvent recovery from colloided material. 2,349,562; May 23.

Roth, Willard, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heat treating apparatus. 2,349,679; May 23.

Rouy, Auguste L. M. A., New York, N. Y., assignor to The Gyro-Balance Corporation, Greenwich, Conn. Lubricant testing method and apparatus. 2,349,563; May 23.

Royce, Harvey D., Savannah, Ga., assignor to The Southern Cotton Oil Company, New Orleans, La. Treating soybean oil. 2,349,381; May 23.

Ruckwardt, Kurt F., Anaconda, Mont., assignor to Anaconda Copper Mining Company. Froth flotation. 2,349,637; May 23.

Rupin, Carl V., Topeka, Kans. Method of and apparatus for slicing meat. 2,349,465; May 23.

Ryan, Commodore D., and E. P. Drake, Los Angeles, Calif., assignors to National Postal Meter Company, Inc., Rochester, N. Y. Moistening device for gummed objects. 2,349,564; May 23.

St. Clair, John N., Kansas City, Mo. Tube bender. 2,349,525; May 23.

Sales Affiliates, Inc. (See Korf, F., and Zentler, assignors.)

Scanlan, Bernard P. (See Denisoff, A. C., and Scanlan.)

Schmidt, August J., Glendale, and J. Jackson, Brooklyn, N. Y., assignors to American Machine & Foundry Company. End labeling process and apparatus. 2,349,309; May 23.

Schmidt, Edwin X., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Method of and apparatus for controlling the mixing of combustible gases. 2,349,521; May 23.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Pump and control means therefor. 2,349,310; May 23.

Schnitzer, Benjamin J. (See Arnstein, K., and Schnitzer.)

Schotz, Otto W. (See Neracher, C. A., Dunn, Syrovy, and Schotz.)

Schreiber, Carl W., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Article transfer mechanism. 2,349,638; May 23.

Schreiber, John H., St. Louis, and F. H. Dean, Normandy, assignors to General Engineering & Mfg. Co., St. Louis, Mo. Machine tool. 2,349,382; May 23.

Schroeder, Oscar W., North Hollywood, assignor of fifteen per cent to William E. Beatty, Los Angeles, Calif. Stuffed straw. 2,349,761; May 23.

Schroeder, Wesley D. (See Coleman, G. H., Fletcher, and Schroeder.)

Schueren, William B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield latch mechanism. 2,349,466; May 23.

Schwinn, Frank W., Chicago, Ill. Cushioned handle bar. 2,349,762; May 23.

Scofield, Donald W., assignor to Square D Company, Detroit, Mich. Alternating electric switch. 2,349,522; May 23.

Scott, Andrew, Gary, Ind. Aircraft engine. 2,349,383; May 23.

Scott & Williams, Incorporated. (See Morris, F. E., and Wagner, assignors.)

Scott, Thomas L., Johnstown, Pa. Gutter hanger. 2,349,467; May 23.

Scophony Corporation of America. (See Okolicsanyi, Ferenc, assignor.)

Scully, Sylvester A. (See Reynolds, W. B., and Scully.)

Servel, Inc. (See Andersson, Sven W. E., assignor.)

Setzer, Albert, North Scituate, R. I. Electric storage battery. 2,349,763; May 23.

Shehan Mfg. Co. (See Bell, Godfrey.)

Sheldon, Harry O., Willmar, Minn. Spectacles. 2,349,764; May 23.

Shelton, Robert S., Mariemont, and M. G. Van Campen, Jr., Silverton, assignors to The Wm. S. Merrell Company, Reading, Ohio. Preparation of benzotetronic acid. 2,349,765; May 23.

Sherka Chemical Co. Inc. (See Goebel, Hans, assignor.)

Shields, Charles B., Petersburg, Va., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,349,680; May 23.

Short, J. R., Milling Company. (See Renner, Herbert O., assignor.)

Simjian, Luther G., assignor to The Reflectone Corp., Stamford, Conn. Revolving chair. 2,349,766; May 23.

Simmonds Aerocessories Limited. (See Denisoff, A. C., and Scanlan, assignors.)

Simmons, Leon E., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 2,349,311; May 23.

Simonson, Sigvard, Butler, Pa., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 2,349,565; May 23.

Slack, Charles M., Glen Ridge, and L. F. Ehrke, Newark, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electron emission device. 2,349,468; May 23.

Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,349,681; May 23.

Sloan, Edward C., assignor to J. B. Hawley, Geneva, Ill. Filter. 2,349,469; May 23.

Smith, Robert L., Little Falls, N. J. Posting and check register. 2,349,384; May 23.

Smith, Walter E., et al. (See Gorman, John, assignor.)

Snelling, Walter L., assignor to Horder's, Incorporated, Chicago, Ill. Tray tier support. 2,349,385; May 23.

Snyder, Franklin L., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical apparatus. 2,349,682; May 23.

Societe Genevoise D'Instruments de Physique. (See Turrettini, Fernand, assignor.)

Socony-Vacuum Oil Company. (See Moon, Charles A., assignor.)

Socony-Vacuum Oil Company. (See Reiff, O. M., and Zech, assignors.)

Socony-Vacuum Oil Company. (See Utterback, E., and Hagerbaumer, assignors.)

Solakian, Haig, and E. N. Case, assignors to Artemas F. Holden, New Haven, Conn. Treating high-speed steel. 2,349,767; May 23.

Solvay Process Company, The. (See Porter, Frank, assignor.)

Sonneborn, L., Sons, Inc. (See Faust, Jacob, assignor.)

Sonnenberg, Rudolph, assignor to Mid-West Bottle Cap Co., Belvidere, Ill. Bottle cap applying device. 2,349,523; May 23.

Sonnenberg, Rudolph, assignor to Mid-West Bottle Cap Co., Belvidere, Ill. Bottle capper. 2,349,524; May 23.

Sooy, Walter E., and R. W. von Sydow, Middletown, Ohio, assignors, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Container manufacture. 2,349,312; May 23.

Southern Cotton Oil Company, The. (See Royce, Harvey D., assignor.)

Southern Wood Preserving Company. (See Harvey, Jacquelin E., Jr., assignor.)

Spalding, A. G., & Bros. Inc. (See Knobel, M., Dickson, and Baymiller, assignors.)

Sparks-Withington Company, The. (See Patterson, William N., assignor.)

Spencer Lens Company. (See Harper, Kennard W., assignor.)

Spencer Lens Company. (See Osterberg, H., and Harper, assignors.)

Sperry Gyroscope Company. (See Ginzton, Edward L., assignor.)

Sperry, Philmore F., assignor to Excel Auto Radiator Company, Chicago, Ill. Heat exchange device. 2,349,683; May 23.

Spiral Brushes, Incorporated. (See Wesemeyer, Dietrich F. O., assignor.)

Square D Company. (See Scofield, Donald W., assignor.)

Stahly, Eldon E. (See Owen, J. J., and Stahly.)

Staley, A. E., Manufacturing Company. (See Moyer, Wendell W., assignor.)

Standard Oil Company. (See Conn, Arthur L., assignor.)

Standard Oil Company. (See Voorhees, Vanderveer, assignor.)

Standard Oil Development Company. (See Blair, D. W., and Boucher, assignors.)

Standard Oil Development Company. (See Draeger, A. A., and Franklin, assignors.)

Standard Oil Development Company. (See Hemminger, Charles E., assignor.)

Standard Oil Development Company. (See Owen, J. J., and Stahly, assignors.)

Standard Oil Development Company. (See Taggart, Millard S., Jr., assignor.)

Standard Oil Development Company. (See Tannich, Richard E., assignor.)

Standard Oil Development Company. (See Tyson, C. W., and Tongberg, assignors.)

Standard Oil Development Company. (See Welty, Albert B., Jr., assignor.)
Stanfield, Merl A., Bellflower, assignor to G. Bell, Los Angeles, Calif., doing business under the name of Shehan Mfg. Co. Blind for automobile windows. 2,349,470; May 23.
Stannard, James H., and E. G. Janke, Salt Lake City, Utah. Construction joint. 2,349,684; May 23.
Starbeck, Frank L., Montevideo, Minn. Headgear. 2,349,471; May 23.
Stein, James H. (See Herzog, G., and Stein.)
Stewart, John N., Detroit, Mich. Dressing tool. 2,349,793; May 23.
Stewart, Vincent J., Taliahassee, Fla. Resilient, puncture proof automobile wheel. 2,349,794; May 23.
Stewart-Warner Corporation. (See Barr, C., and Strickler, assignors.)
Stiller, Eric T. (See Harris, S. A., and Stiller.)
Stoetzl, Ralph E., and A. C. Thompson, Madera, Calif. Hay handling apparatus. 2,349,386; May 23.
Storrs, Kindred L., assignor to The Coal Logs Co. Inc., Salt Lake City, Utah. Manufacture of smokeless fuel. 2,349,387; May 23.
Stoughton, Roger W., assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Derivatives of 2,4-oxazolidinedione. 2,349,313; May 23.
Stoughton, Roger W., Ferguson, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Derivatives of 2,4-oxazolidinedione. 2,349,795; May 23.
Stoughton, Roger W., Ferguson, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Derivatives of 2,4-oxazolidinedione. 2,349,796; May 23.
Strain, Franklin, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Resinous composition and preparation of the same. 2,349,768; May 23.
Strickler, John F., Jr. (See Barr, C., and Strickler.)
Stuhlman, Frank A. (See Berg, L. B., and Stuhlman.)
Sturges, Edward B., assignor to Bendix Aviation Corporation, South Bend, Ind. Steering drive axle. 2,349,388; May 23.
Sullivan Machinery Company. (See Simmons, Leon E., asignor.)
Sulzer Frères, Société Anonyme. (See Brunner, Adolf, assignor.)
Sundstrand, Oscar J., West Hartford, and W. A. Anderson, Bridgeport, Conn., assignors to Underwood Elliott Fisher Company, New York, N. Y. Printing mechanism for adding and accounting machines. 2,349,769; May 23.
Sunnen, Joseph, Clayton, Mo. Boring machine. 2,349,526; May 23.
Swift Rifle Company Limited, The. (See de Lubicz-Bakanowski, Z., Minns, and Norman, assignors.)
Syrovy, Augustin J. (See Neracher, C. A., Dunn, Syrovy, and Schotz.)
Taggart, Millard S., Jr., Houston, Tex. Standard Oil Development Company. Oil prospecting method. 2,349,472; May 23.
Taniyama, Jack K. (See Townsend, G. K., Jr., and Taniyama.)
Tannich, Richard E., Bayton, Tex., assignor to Standard Oil Development Company. Extraction with sulphur dioxide. 2,349,473; May 23.
Tatosian, Harry G., assignor to King Kone Corporation, New York, N. Y. Making melba toast. 2,349,582; May 23.
Tatosian, Harry G., assignor to King Kone Corporation, New York, N. Y. Apparatus for making melba toast. 2,349,583; May 23.
Teletype Corporation. (See Potts, Louis M., assignor.)
Tendick, Frank H., Grosse Pointe Park, assignor to Parke, Davis & Company, Detroit, Mich. Production of tetra-substituted ethylenes. 2,349,770; May 23.
Tennessee Coal, Iron and Railroad Company. (See Haswell, Arthur B., assignor.)
Teplow, Leo, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Adjustable throw gyrating mechanism. 2,349,778; May 23.
ter Horst, William P., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Parasiticidal preparation. 2,349,771; May 23.
ter Horst, William P., Pompton Plains, N. J., assignor to United States Rubber Company, New York, N. Y. Parasiticidal preparation. 2,349,772; May 23.
Texaco Development Corporation. (See Herzog, G., and Stein, assignors.)
Texas Company, The. (See Barron, Joseph M., assignor.)
Theiler, Hans J., asisgnor to Whitin Machine Works, Whitinsville, Mass. Yarn-package holder. 2,349,639; May 23.
Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Apparatus for processing canned goods. 2,349,566; May 23.
Thompson, Andrew C. (See Stoetzl, R. E., and Thompson.)
Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Hoist. 2,349,389; May 23.
Thompson Grinder Company, The. (See Baldenhofer, William G., assignor.)
Thompson, Tom H., assignor to Builder-Thompson Engineering & Research Corporation, Detroit, Mich. Pump. 2,349,773; May 23.
Thorp, Joel R., assignor to The Fulton Company, West Allis, Wis. Fan. 2,349,474; May 23.
Titus, John E. (See Kemmer, E. S., Titus, and Oyler.)
Toelle, Clarence C., Nashua, Minn. Tractor guide. 2,349,527; May 23.
Toennies, Gerrit, Gladwyne, assignor to The Lankenau Hospital, Philadelphia, Pa. Acetoxyamino acids and their preparation. 2,349,774; May 23.
Tolman, Samuel L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. System for treating sewage. 2,349,390; May 23.
Tolstoouhov, Alexander V. (See Hopkinson, R., and Tolstoouhov.)
Tomkins-Johnson Company. (See Ward, Loyd A., assignor.)
Tongberg, Carl O. (See Tyson, C. W., and Tongberg.)
Tor-Vel Associates. (See Watson, Sydney C., assignor.)
Townsend, George K., Jr., and J. K. Taniyama, Honolulu, Territory of Hawaii. Center punch. 2,349,567; May 23.
Trabulsi, Peter, Fairview, N. J. Feeding mechanism for fringing machines. 2,349,640; May 23.
Trade-Wind Motorfans, Inc. (See Marker, W. M., and Orear, assignors.)
Transart Aktiebolag. (See Gravenstein, Friedrich-Wilhelm G., assignor.)
Travilla, James C., Jr., Philadelphia, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Railway vehicle body and radial truck assembly. 2,349,568; May 23.
Trew, James W., Gettysburg, Pa., assignor of one-fourth to V. E. Ramsey, Suffolk, and one-fourth to R. G. Ramsey, Driver, Va. Basket cover. 2,349,475; May 23.
Trickey, William W., Essex Fells, assignor to Lock Joint Pipe Company, East Orange, N. J. Apparatus for charging concrete molds. 2,349,476; May 23.
Trostler, Fredrick, London, and T. Andrews, Barking, England. Separation of solid materials of different specific gravities. 2,349,528; May 23.
Trucksess, David E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rectifying system. 2,349,685; May 23.
Truesdell, Fred A., Deceased, by J. Truesdell, East Cleveland, administratrix, assignor of one-half to W. S. Fallon, Cleveland, Ohio. Motion converting mechanism. 2,349,314; May 23.
Truesdell, Jetta, administratrix. (See Truesdell, Fred A.)
Tucker, Warren R., Dayton, and G. A. Waldie, Franklin, assignors to The Hydraulic Development Corp. Inc., Mount Gilead, Ohio. Rotating servo-valve. 2,349,641; May 23.
Turrettini, Fernand, Bellevue-Geneva, assignor to the firm Societe Genevoise D'Instruments de Physique, Geneva, Switzerland. Thread grinding machine. 2,349,477; May 23.
Tyson, Charles W., Summit, and C. O. Tongberg, Westfield, N. J. assignors to Standard Oil Development Company. Conversion of oils. 2,349,478; May 23.
Udale, Stanley M., Detroit, Mich., assignor to G. M. and E. Holley. Fuel regulator for aircraft carburetors. 2,349,775; May 23.
Ulrich, Arnold E., Rochester, Minn. Fruit sizing machine. 2,349,776; May 23.
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Underwood Elliott Fisher Company. (See Sundstrand, O. J., and Anderson, assignors.)
Underwood Machinery Company. (See Annis, Ross E., assignor.)
Union Carbide and Carbon Corporation. (See Hemperly, William F., assignor.)
Union Switch & Signal Company, The. (See Lazich, Branko, and Williams, assignors.)
Union Switch and Signal Company, The. (See Shields, Charles B., assignor.)
United Shoe Machinery Corporation. (See Campbell, Rouel R., assignor.)
United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Pratt, assignors.)
United States Pipe and Foundry Company. (See Arnold, Paul L., assignor.)
United States Rubber Company. (See ter Horst, William P., assignor.)
United States Rubber Company. (See Howland, Louis H., assignor.)
United States Rubber Company. (See Paul, Philip T., assignor.)
United States Trust Company of New York. (See Hopkins, Nevil M., assignor.)
Universal Oil Products Company. (See Pines, H., and Bloch, assignors.)
Usoskin, Joseph, New York, N. Y. Door rack. 2,349,391; May 23.
Utterback, Ernest, Upper Darby, and W. A. Hagerbaumer, Merwood Park, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method and apparatus for separating entrained material from gases. 2,349,777; May 23.
Van Benschoten, William H. (See Willard, R. G., and Van Benschoten.)

Van Campen, Marcus G., Jr. (See Shelton, R. S., and Van Campen.)
Van Dorn, William E., Pasadena, assignor to Pacific Railway Equipment Company, Los Angeles, Calif. Air circulating system for refrigerator cars and the like. 2,349,315; May 23.
Van Riper, Dale H. (See Gillum, D. E., and Van Riper.)
Van Sant, Edith B., Hollywood, Calif. Heel lift protector. 2,349,479; May 23.
Van Zoeren, Gerrit J., Holland, Mich., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio. Synthesis of aryl-alkyl-halogeno-ethanes. 2,349,779; May 23.
Vancil, Edgar D. (See Nenninger, L. F., Vancil, and Hassman.)
Vejin, Inc. (See Ginn, Wells W., assignor.)
Velsicol Corporation. (See Hyman, Julius, assignor.)
Victor Manufacturing & Gasket Company. (See Bernstein, W. F., and Lillis, assignors.)
Vollé, Norbert H., assignor to The Kroger Food Foundation, Cincinnati, Ohio. Thrombokinase. 2,349,316; May 23.
Von Sydow, Rudolf W. (See Sooy, Walter E., and von Sydow.)
Voorhees, Vanderveer, Homewood, assignor to Standard Oil Company, Chicago, Ill. Catalytic treatment of vapors. 2,349,575; May 23.
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wagner, Howard. (See Morris, F. E., and Wagner.)
Waldie, George A. (See Tucker, W. R., and Waldie.)
Walk, Udell C., Palo Alto, Calif. Inflating device. 2,349,480; May 23.
Wallace, Robert C., Wilmington, Calif. Rotary engine. 2,349,481; May 23.
Ward, Loyd A., assignor to Tomkins-Johnson Company, Jackson, Mich. Duplex riveting machine. 2,349,529; May 23.
Warren, S. D., Company. (See Clark, John W., assignor.)
Waters, Daniel V., Flemington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cutting apparatus. 2,349,686; May 23.
Watson, Sydney C., et al., trustees. (See Watson, Sydney C.)
Watson, Sydney C., Chicago, Ill., assignor to Tor-Vel Associates, S. C. Watson and A. J. Parcelle, trustees. Shaft coupling and system of power transmission. 2,349,642; May 23.
Weaver, Ira A., and C. H. Phelps, assignors to Weaver Manufacturing Company, Springfield, Ill. Balancing-machine indicator. 2,349,530; May 23.
Weaver Manufacturing Company. (See Weaver, I. A., and Phelps, assignors.)
Weber Foundations, Inc. (See Weber, Joseph, assignor.)
Weber, Joseph, New York, N. Y., assignor to Weber Foundations, Inc. Holder. 2,349,392; May 23.
Waco Products Company. (See Després, Lilly D., assignor.)
Weida, Millard F., Louisville, Ohio, assignor to American Machine & Foundry Company. Labeling machine and process. 2,349,317; May 23.
Weinig, Arthur J., Golden, assignor to Potash Company of America, Denver, Colo. Concentration of sylvinite ores. 2,349,393; May 23.
Weinreich, Charles F., Des Plaines, Ill., and A. J. Lippold, Milwaukee, Wis., assignors to Cherry-Burrell Corporation, Wilmington, Del. Automatic bottle filling apparatus. 2,349,780; May 23.
Weir, Robert M., Salem, Oreg. Can lifting and carrying device. 2,349,531; May 23.
Weizmann, Charles, London, England. Production of aromatic hydrocarbons. 2,349,781; May 23.
Well Surveys, Incorporated. (See Fearon, Robert E., assignor.)
Well Surveys, Incorporated. (See Pontecorvo, Bruno, assignor.)
Wells, Bruce C. (See Ellis, D., and Wells.)
Welty, Albert B., Jr., Mountainside, N. J., assignor to Standard Oil Development Company. Automatic aniline point recorder. 2,349,482; May 23.
Wesemeyer, Dietrich F. O., Euclid, assignor to Spiral Brushes, Incorporated, Cleveland, Ohio. Brush construction. 2,349,643; May 23.
Wesemeyer, Dietrich F. O., Euclid, assignor to Spiral Brushes, Incorporated, Cleveland, Ohio. Double-locked brushing unit and making the same. 2,349,644; May 23.
West, William T., Severna Park, assignor to Fisher Brush Machinery Corporation, Baltimore, Md. Tuft-making device for automatic brush making machines. 2,349,532; May 23.
Western Cartridge Company. (See Olsen, Fredrich, assignor.)
Western Cartridge Company. (See Wilson, Golder P., assignor.)
Western Electric Company. (See Waters, Daniel V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Alben, F. L., and Langer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Barnes, Thomas D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bramble, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cumming, J. M., and Hill, assignors.)
Westinghouse Electric & Manufacturing Company. (See Davis, Evan A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ellis, D., and Wells, assignors.)
Westinghouse Electric & Manufacturing Company. (See Godsey, Frank W., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Graybrook, H. W., and Biscup, assignors.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hageman, Aaron M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Keating, Thomas J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Langer, Bernard F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lindstrom, T., and Langguth, assignors.)
Westinghouse Electric & Manufacturing Company. (See Marden, J. W., and Meister, assignors.)
Westinghouse Electric & Manufacturing Company. (See Marshall, D. E., and Knochel, assignors.)
Westinghouse Electric & Manufacturing Company. (See May, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See McGowan, Michael E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Myers, Henry C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pearson, R. W., and Marshall, assignors.)
Westinghouse Electric & Manufacturing Company. (See Porter, Thomas R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Roth, Willard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Slack, C. M., and Ehrke, assignors.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Snyder, Franklin L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Williams, Clifton S., assignor.)
Westphal, Kurt, Wuppertal-Vohwinkel, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Pyridine compounds and manufacture thereof. 2,349,318; May 23.
Wethmüller, Karl, Berlin-Baumschulenweg, Germany, assignor to General Electric Company. Current transformer. 2,349,782; May 23.
Wheadon, George H., Johnstown, N. Y. Glove. 2,349,533; May 23.
Wheeler, Arthur W., Alplaus, N. Y., assignor to General Electric Company. Heat treating nickel-chrome-tungsten alloy steels. 2,349,319; May 23.
Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Turret shaping machine for cigars. 2,349,320; May 23.
White, John W., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif. Accumulator. 2,349,321; May 23.
White, John W., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif. Accumulator. 2,349,322; May 23.
White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
Whitin Machine Works. (See Theiler, Hans J., assignor.)
Whittington, James A., Evanston, Ill. Burner. 2,349,323; May 23.
Widdis, Emmett E., North Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling ball drilling fixture. 2,349,394; May 23.
Wiedmann, Ernest H., San Diego, Calif. Universal tool grinding machine. 2,349,324; May 23.
Willamette Hyster Company. (See Johnson, George V., assignor.)
Willamette Iron & Steel Corporation. (See Pointer, Robert W., assignor.)
Willard, Robert G., and W. H. Van Benschoten, U. S. Navy. Aircraft selector. 2,349,325; May 23.
Willheim, François, Vinay, France; vested in the Alien Property Custodian. Typewriting machine. 2,349,483; May 23.
Williams, Clifton S., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electromagnetic-inspection system. 2,349,687; May 23.
Williams, Richard H., Jr. (See Lazich, B., and Williams.)
Wilson, Alexander L., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Emulsion. 2,349,326; May 23.
Wilson, Golder P., Alton, assignor to Western Cartridge Company, East Alton, Ill. Processing of metal strip. 2,349,569; May 23.
Wingfoot Corporation. (See Arnstein, K., and Schnitzer, assignors.)

Wingfoot Corporation. (See McMahan, William W., assignor.)
Wingfoot Corporation. (See Moorhouse, Robert W., assignor.)
Wingfoot Corporation. (See Roberts, Harold P., assignor.)
Winthrop Chemical Company. (See Westphal, Kurt, assignor.)
Witter, Claude A., Philadelphia, Pa. Apparatus for making shell bodies. 2,349,570; May 23.
Wood, Flavius C., Jr., Washington, D. C. Producing low carbon iron or steel. 2,349,688; May 23.
Woodbridge, Richard G., Jr. (See Desetti, G. E., Dew, Mackey, and Woodbridge.)
Worth, Weldon, Dayton, Ohio. Viscosity control valve. 2,349,327; May 23.
Yee, Ming Hor. (See Gene, Frank.)
Young, Arthur A., Manchester, N. H., assignor to Anchor Manufacturing Company, Boston, Mass. Meter mounting. 2,349,645; May 23.
Young, John E., Oaklyn, N. J., assignor to Radio Corporation of America. Electron discharge device circuit. 2,349,534; May 23.
Zech, John D. (See Reiff, O. M., and Zech.)
Zentler, William F. (See Korf, F., and Zentler.)
Zimmer, Abraham I., Bridgeport, Conn. Necktie sewing machine. 2,349,783; May 23.
Züblin, Julius, Glarisegg near Steckborn, Switzerland. Rolling magnesium and magnesium alloys. 2,349,395; May 23.
Zwicky, Jean, deceased, Burnham, by W. F. and O. F. Hunt, Slough, England, executors. Reciprocating pump. 2,349,784; May 23.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aircraft, Method and apparatus for landing. W. T. Cooke and A. S. Maeder. Re. 22,484; May 23.
Clutch construction for power drives, Reversing. W. C. Starkey. Re. 22,486; May 23.
Retainer for oil wells, Cementing, washing and acidizing. C. E. Burt. Re. 22,483; May 23.
Sheave. E. J. Otto. Re. 22,485; May 23.

LIST OF DESIGN INVENTIONS

Ash tray and coaster, or similar article, Combined. M. L. Goldbert. 137,959; May 23.
Brooch or similar article. H. Pomerantz. 137,958; May 23.
Buffet or similar article. V. G. Beauchamp. 137,941; May 23.
Carrier, Baby. L. C. Lloyd. 137,944; May 23.
Casserole and serving platter, Combined. T. Kapner and D. Kamenstein. 137,961; May 23.
Clothespin. G. A. Kneedler. 137,974; May 23.
Control box or similar article, Alarm. A. W. Fruh. 137,964; May 23.
Doll or similar article. M. Szrajer. 137,972; May 23.
Dress. B. Zanderer. 137,976; May 23.
Dress, Sleeveless. E. Pransky. 137,975; May 23.
Flask and handle for a coffee-maker or the like, Combined. P. Schlumbohm. 137,943; May 23.
Handbag. W. D. Phelps. 137,969; May 23.
Holder for receipt pads or the like. P. Howard. 137,950; May 23.
Laundry tongs. E. G. Hager. 137,960; May 23.
Linear actuator unit for operating movable parts of an airplane or the like. W. P. Lear. 137,967; May 23.
Mixing unit or similar article, Food. H. C. Doner. 137,946; May 23.
Motor vehicle. L. W. Harris. 137,965; May 23.
Plaque, Door. J. P. Siewing. 137,942; May 23.
Plotting board. I. V. Stovern. 137,973; May 23.
Protector for electric flush switches, Wall. M. R. Kessler. 137,966; May 23.
Rack, Display. M. Geller and R. M. Soule. 137,945; May 23.
Rocking horse. W. A. Hartwig. 137,871; May 23.
Rod and suspending means, Combination curtain. E. Weis. 137,956; May 23.
Sign, Desk. J. K. Chun Fat. 137,948; May 23.
Slip or similar article. S. Wolf. 137,970; May 23.
Stoker. A. O. Dady. 137,963; May 23.
Supporter, Garment. W. M. O'Neal. 137,968; May 23.
Table, Child's feeding and play. A. E. Puls and E. R. Swenson. 137,951–5; May 23.
Tool for applying hose clamps or the like. H. H. Beardsley. 137,947; May 23.
Toy bear or similar article. Z. Harpignies. 137,949; May 23.
Trimming or the like, Embroidered. J. Wienger. 137,957; May 23.
Wagon or similar article, Coaster. S. Patner. 137,962; May 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory mounting for cooking ranges. H. M. Reeves. 2,349,307; May 23.
Accumulator. J. W. White. 2,349,321–2; May 23.
Acetoxyamino acids and their preparation. G. Toennies. 2,349,774; May 23.
Actuating cylinder. D. H. Brown. 2,349,244; May 23.
Acylated derivative of vitamin B_6, and preparing the same. S. A. Harris and E. T. Stiller. 2,349,267; May 23.
Addition agent for lubricating oil and making same. R. Reuter. 2,349,462; May 23.
Adhesive composition of matter. G. Mack. 2,349,508; May 23.
Adhesive fabric and making the same. H. A. Evans. 2,349,709; May 23.
Agricultural implement. W. S. Graham. 2,349,343; May 23.
Air circulating system for refrigerator cars and the like. W. E. Van Dorn. 2,349,315; May 23.
Air cleaning device. W. N. Patterson. 2,349,371; May 23.
Air control device. B. M. Guthrie. 2,349,719; May 23.
Air valve. A. Keefe. 2,349,435; May 23.
Air valve. J. T. Riddell. 2,349,463; May 23.
Aircraft cockpit canopy. R. N. Lesnick. 2,349,630; May 23.
Aircraft engine. A. Scott. 2,349,383; May 23.
Aircraft selector. R. G. Willard and W. H. Van Benschoten. 2,349,325; May 23.
Airplane spotting and handling device. J. J. Domoj. 2,349,251; May 23.
Allyl type halides, Treatment of. M. A. Pollack. 2,349,752; May 23.
Alternating electric switch. D. W. Scofield. 2,349,522; May 23.
Amines, Manufacture of. H. R. C. Pratt and G. O. Morris. 2,349,461; May 23.
Ammunition container. G. W. O'Hare and C. Harley. 2,349,454; May 23.
Animated figure. W. D. Eakin. 2,349,492; May 23.
Antenna construction. E. Carlson. 2,349,406; May 23.
Antifriction door latch. T. A. Overby. 2,349,301; May 23.
Antioxidant. K. C. D. Hickman. 2,349,274; May 23.
Antioxidant. P. T. Paul. 2,349,749; May 23.
Apparatus and method for testing paint films. L. Boor. 2,349,699; May 23.
Apparatus for charging concrete molds. W. W. Trickey. 2,349,476; May 23.
Apparatus for coating articles. J. R. Litty. 2,349,579; May 23.
Apparatus for forming bearing metal surfaces on backing metals. C. M. Angel. 2,349,397–8; May 23.
Apparatus for inside coating. M. E. McGowan. 2,349,444; May 23.
Apparatus for instruction in drawing. B. Lamberger. 2,349,504; May 23.
Apparatus for internally coating containers. E. P. Olson. 2,349,455; May 23.
Apparatus for making melba toast. H. G. Tatosian. 2,349,583; May 23.
Apparatus for making shell bodies. C. A. Witter. 2,349,570; May 23.
Apparatus for preventing clogging of oil wells. C. C. Bancroft. 2,349,536; May 23.
Apparatus for processing canned goods. A. R. Thompson. 2,349,566; May 23.
Apparatus for producing sheetlike material. D. E. Gillum and D. H. Van Riper. 2,349,495–6; May 23.
Apparatus for radially contracting tubular metal bodies. P. L. Arnold. 2,349,646; May 23.
Apparatus for the recovery of solvent. G. E. Desetti, W. A. Dew, B. H. Mackey, and R. G. Woodbridge, Jr. 2,349,249; May 23.
Applying tubular articles to dies and the like. E. P. Olson. 2,349,456; May 23.
Aqueous solutions of phenols and their homologues and making the same. H. Goebel. 2,349,654; May 23.
Artificial arm joint. D. W. Dorrance. 2,349,411; May 23.
Armored tank, One man. J. J. Baldine. 2,349,535; May 23.
Article transfer mechanism. C. W. Schreiber. 2,349,638; May 23.
Articles of commerce, Production of. J. E. Harvey, Jr. 2,349,720; May 23.
Assembly for clutches and brakes. T. L. Fawick. 2,349,494; May 23.

Astronomical educational device. E. E. Oberst. 2,340,515; May 23.
Asymmetric device and mounting means therefor. B. Lazich and R. H. Williams, Jr. 2,349,629; May 23.
Automatic bottle filling apparatus. C. F. Weinreich and A. J. Lippold. 2,349,780; May 23.
Automatic feeder. C. H. Dolan, II. 2,349,540; May 23.
Automatic reclosing breaker. J. W. May. 2,349,632; May 23.
Automobile heater. H. J. D. McCollum. 2,349,740; May 23.
Axle, Trailer. R. W. Pointer. 2,349,373; May 23.
Bacteria antigen for the treatment of diphtheria. O. C. Morrison. 2,349,293; May 23.
Bacteria antigen for the treatment of scarlet fever. O. C. Morrison. 2,349,294; May 23.
Bag closure. P. S. Coghill. 2,349,247; May 23.
Bag closure. W. H. Norseen. 2,349,369; May 23.
Bags, Sealing the mouths of. S. R. Howard. 2,349,732; May 23.
Balance testing machine. J. P. Lannen. 2,349,288; May 23.
Balancing-machine indicator. I. A. Weaver and C. H. Phelps. 2,349,530; May 23.
Barbecue apparatus. J. Gorman. 2,349,617; May 23.
Basket cover. J. W. Trew. 2,349,475; May 23.
β-cyanoethylated aryl ω-methyl sulphonamides. H. A. Bruson and T. W. Riener. 2,349,405; May 23.
Bearing: *See*—
  Pulley bearing.
Bearing lubrication. M. H. Arms. 2,349,690; May 23.
Belt. L. O. Grice. 2,349,264; May 23.
Benzotetronic acid, Preparation of. R. S. Shelton and M. G. Van Campen, Jr. 2,349,765; May 23.
Bituminous pavements and paving compositions, Manufacture of. F. B. McGrane. 2,349,446; May 23.
Bituminous paving compositions and pavements, Making. F. B. McGrane. 2,349,445; May 23.
Blank-handling apparatus. L. B. Berg and F. A. Stuhlman. 2,349,606; May 23.
Blind for automobile windows. M. A. Stamfield. 2,349,470; May 23.
Blower. W. M. Marker and A. G. Orear. 2,349,668; May 23.
Boring machine. J. Sunnen. 2,349,526; May 23.
Bottle-cap reclaiming machine. O. A. Koehler. 2,349,502; May 23.
Bottle cap applying device. R. Sonnenberg. 2,349,523; May 23.
Bottle capper. R. Sonnenberg. 2,349,524; May 24.
Box: *See*—
  Chick shipping box. Lunch box.
Brake drum. H. J. Horn. 2,349,658; May 23.
Bread, Manufacture of tin. L. S. Harber. 2,349,423; May 23.
Brush construction. D. F. O. Wesemeyer. 2,349,643; May 23.
Brushing unit and making same, Double-locked. D. F. O. Wesemeyer. 2,349,644; May 23.
Building structure. R. W. McLaughlin, Jr. 2,349,358; May 23.
Burner and improved air supply means therefor, Pot type. B. Hayter. 2,349,722; May 23.
Burner. J. A. Whittington. 2,349,323; May 23.
Burner control apparatus. L. V. McCarty. 2,349,443; May 23.
Cabinet structure. G. L. C. Earle. 2,349,541; May 23.
Cable: *See*—
  Cutter cable.
Cable highway guard. A. E. Brickman. 2,349,648; May 23.
Calorimetry of low quality combustible gas. C. S. Pinkerton. 2,349,517; May 23.
Can lifting and carrying device. R. M. Weir. 2,349,531; May 23.
Capping apparatus. J. J. Kittess. 2,349,555; May 23.
Capsules, Making. L. P. Miller. 2,349,511; May 23.
Capsule, Medical. G. D. Hiatt and J. Emerson. 2,349,430; May 23.
Car construction. S. Simonson. 2,349,565; May 23.
Carbon paper support for accounting machines. W. A. Anderson. 2,349,693; May 23.
Carbureting apparatus. G. L. Pratt. 2,349,676; May 23.
Card, Score. N. J. Musolino. 2,349,452; May 23.
Carpet. V. H. Bodle. 2,349,236; May 23.
Carton. E. L. Arneson. 2,349,241; May 23.
Carton. B. S. Harrington. 2,349,589; May 23.

Cartridge disassembling machine. F. E. Costello. 2,349,248; May 23.
Cash register. D. K. Hughes and J. J. Klosterman. 2,349,660; May 23.
Casting shot. J. E. Hatfield. 2,349,498; May 23.
Catalysis. J. R. Bates. 2,349,243; May 23.
Catalytic and thermal cracking, Combination. J. M. Barron. 2,349,603; May 23.
Catalytic conversion operation. A. L. Conn. 2,349,574; May 23.
Catalytic treatment of vapors. V. Voorhees. 2,349,575; May 23.
Caustic soda, Purification of. I. E. Muskat. 2,349,596; May 23.
Cell, Electroplating. T. J. Keating. 2,349,662; May 23.
Cellulose derivative composition and its use. B. Andersen, E. A. Grenquist and R. H. Ball. 2,349,331; May 23.
Center punch. G. K. Townsend, Jr., and J. K. Taniyama. 2,349,567; May 23.
Centrifugal pump. H. Hornschuch. 2,349,731; May 23.
Centrifuge drive. C. A. Olcott. 2,349,559; May 23.
Chair: *See*—
  Revolving chair.
Charge forming system for internal-combustion engine with reuse of exhaust gases. G. L. Pratt. 2,349,675; May 23.
Chemical process. A. A. Draeger and W. B. Franklin. 2,349,415; May 23.
Chick shipping box. R. C. Marshall, Jr. 2,349,364; May 23.
Chlorination of chromium bearing materials. I. E. Muskat. 2,349,747; May 23.
Chuck, Expanding. A. S. Martin. 2,349,447; May 23.
Circuit breaker. T. Lindstrom and P. O. Langguth. 2,349,631; May 23.
Circuit breaker mechanism. J. M. Cumming and A. W. Hill. 2,349,650; May 23.
Circuit interrupter. J. Slepian. 2,349,681; May 23.
Clamp: *See*—
  Hose clamp.
Clamping means for force-responsive element. D. W. Blair and F. G. Boucher. 2,349,404; May 23.
Clip: *See*—
  Floor securing clip.
Clutch: *See*—
  Friction clutch.
  Synchro-shifting transmission clutch.
Clutch operation means. E. W. Clements. 2,349,239; May 23.
Coating and coating methods. J. L. Krieger. 2,349,737; May 23.
Coating composition. C. F. Cummins. 2,349,571; May 23.
Coating machine. N. Pelosi. 2,349,303; May 23.
Collar, Germicidal animal. A. Finch. 2,349,713; May 23.
Combination hung and hinged window. C. Escher and J. J. Fagan. 2,349,543; May 23.
Combustible gases, Method of and apparatus for controlling the mixture of. E. X. Schmidt. 2,349,521; May 23.
Compass. C. E. Keefer. 2,349,626; May 23.
Compass and measuring instrument, Combination. F. W. Moxey. 2,349,670; May 23.
Construction joint. J. H. Stannard and E. G. Janke. 2,349,684; May 23.
Container: *See*—
  Ammunition container. Liquid dispensing container.
  Dispensing container. Tubular container.
  Dispensing container or carton.
Container. D. E. Marshall. 2,349,362; May 23.
Container lock. J. D'Esposito. 2,349,707; May 23.
Container manufacture. W. E. Sooy and R. W. von Sydow. 2,349,312; May 23.
Containers. Method and apparatus for vacuumizing. H. Brand. 2,349,588; May 23.
Continuous type payoff reel. W. O. Aldrich. 2,349,689; May 23.
Control device. W. R. Reichenstein. 2,349,519; May 23.
Control means for the impression rollers of duplicating machines. M. P. Neal. 2,349,634; May 23.
Control member. R. S. Dean. 2,349,577; May 23.
Control system. G. R. Anderson. 2,349,329; May 23.
Control system, Supervisory. M. E. Reagan. 2,349,636; May 23.
Conveying mechanism. V. G. Ellen. 2,349,578; May 23.
Cover: *See*—
  Basket cover.
Cover mechanism. J. A. King, G. Kellogg, and F. Goodwin. 2,349,283; May 23.
Crusher, Gyratory. W. C. Johnson. 2,349,790; May 23.
Current transformer. K. Wethmuller. 2,349,782; May 23.
Cutter: *See*—
  Pipe cutter.
Cutter cable. F. E. Anderson. 2,349,573; May 23.
Cutting apparatus. D. V. Waters. 2,349,686; May 23.
Cutting blade and cutting therewith. J. W. Batchelder. 2,349,336; May 23.
Cyclopentadiene, Recovering and refining. W. L. Glowacki and E. Preston. 2,348,418; May 23.
Damper construction. C. L. Myers. 2,349,368; May 23.
Damper, Hydraulically operated oscillation. A. Brunner. 2,349,610; May 23.
Dental instrument. H. R. Berger. 2,349,607; May 23.
Deodorant and moth preventing cake. M. Beibin. 2,349,402; May 23.
Derivatives of 2,4-oxazolidinedione. R. W. Stoughton. 2,349,313; May 23.
Derivatives of 2,4-oxazolidinedione. R. W. Stoughton. 2,349,795–6; May 23.
Device for ascertaining the output or input of reciprocating engines. M. F. Reijnst. 2,349,560; May 23.
Device for controlling precessional forces in gyroscopes. A. Krüssmann. 2,349,287; May 23.
Device for use in tearing sheet material. H. W. Pusheck. 2,349,635; May 23.
Diarylenethiazyl disulphides, Production of. R. W. Moorhouse. 2,349,599; May 23.
Dihydroxy-acetone-diether and its manufacture. A. Grün. 2,349,348; May 23.
Disk harrow. R. T. Evans and J. H. Clasen. 2,349,257; May 23.
Disk-type fluorescent lamp. J. W. Marden and G. Meister. 2,349,360; May 23.
Dispenser for extrusile substances. G. J. Holler. 2,349,726; May 23.
Dispensing container. W. A. Becker. 2,349,605; May 23.
Dispensing container or carton. H. E. Otto. 2,349,748; May 23.
Dispensing device for beverages. J. K. Lund. 2,349,441; May 23.
Dispensing device for pastes, creams, etc. L. Finkelstein. 2,349,714; May 23.
Display device. A. B. Collins. 2,349,706; May 23.
Display rack. E. P. Jarvis. 2,349,351; May 23.
Distillation apparatus. K. C. D. Hickman. 2,349,431; May 23.
Diversity receiving system. M. G. Crosby. 2,349,407; May 23.
Door: *See*—
  Roll-up door.
Door hinge., J. Faithfull. 2,349,711; May 23.
Door rack. J. Usoskin. 2,349,391; May 23.
Drain plug. C. E. Hartley. 2,349,425; May 23.
Dressing tool. J. N. Stewart. 2,349,793; May 23.
Drill socket construction. J. E. McLaughlin. 2,349,741; May 23.
Drilling fixture, Bowling ball. E. E. Widdis. 2,349,394; May 23.
Drive for electric generators. A. L. Armentrout. 2,349,334; May 23.
Drying hood. B. Offen. 2,349,558; May 23.
Dynamic balancing, Apparatus for. G. H. Meinzer. 2,349,450; May 23.
Electric control system. A. C. Boisseau and B. S. Beall. 2,349,647; May 23.
Electric resistance element, more particularly of resistance thermometers. A. C. Denisoff and B. P. Scanlan. 2,349,614. May 23.
Electric salt bath furnace. H. A. Rolnick. 2,349,678; May 23.
Electric storage battery. A. Setzer. 2,349,763; May 23.
Electric switch. W. M. Johnson. 2,349,354; May 23.
Electrical apparatus. F. L. Snyder. 2,349,682; May 23.
Electrical conductor carrying vinyl resin composition. W. F. Hemperly. 2,349,413; May 23.
Electrical heating apparatus. L. Marano. 2,349,509; May 23.
Electrical measuring device. T. D. Barnes. 2,349,242; May 23.
Electrical precipitator. C. W. J. Hedberg. 2,349,550; May 23.
Electrical protective device. K. R. Brown and C. E. Mosley. 2,349,609; May 23.
Electrode holder. C. Mathews and C. Chinzi. 2,349,510; May 23.
Electromagnetic inspection system. C. S. Williams. 2,349,687; May 23.
Electron discharge device circuits. J. E. Young. 2,349,534; May 23.
Electron emission device. C. M. Slack and L. F. Ehrke. 2,349,468; May 23.
Emulsion. A. L. Wilson. 2,349,326; May 23.
End labeling process and apparatus. A. J. Schmidt and J. Jackson. 2,349,309; May 23.
Engine: *See*—
  Aircraft engine. Rotary engine.
  Internal combustion engine. Two-stroke internal combustion engine.
Entrained material from gases, Method and apparatus for separating. E. Utterback and W. A. Hagerbaumer. 2,349,777; May 23.
Envelope. L. Barker. 2,349,234; May 23.
Evaporator. C. H. Beane. 2,349,695; May 23.
Explosive. F. Olsen. 2,349,300; May 23.

Extraction with sulphur dioxide. R. E. Tannich. 2,349,473; May 23.
Extrusion device. M. H. English, E. R. Jones and R. R. Nydegger. 2,349,254; May 23.
Fabric and manufacturing the same, Adhesive. H. A. Evans. 2,349,710; May 23.
Fan. J. R. Thorp. 2,349,474; May 23.
Fastener: *See*—
Separable fastener.
Fastening device. E. Gisondi. 2,349,547; May 23.
Fatty material, Treating. H. O. Renner. 2,349,377–8; May 23.
Feed mechanism. F. B. Davis. 2,349,487; May 23.
Feeding mechanism for fringing machines. P. Trabulsi. 2,349,640; May 23.
Fender shield, Front. G. G. Green. 2,349,421; May 23.
Fender shield latch mechanism. W. B. Schueren. 2,349,466; May 23.
Fiberboard. E. R. Boller and R. F. Remler. 2,349,698; May 23.
Filter. E. C. Sloan. 2,349,469; May 23.
Flashlight. P. X. Noel. 2,349,453; May 23.
Flexible abrasive article. H. C. Martin and J. B. Aust. 2,349,365; May 23.
Floor securing clip. E. G. Doke. 2,349,490; May 23.
Fluid release valve and actuating mechanism. H. N. Rider and F. G. Dieter. 2,349,464; May 23.
Flying boat hull. K. Arnstein and B. J. Schnitzer. 2,349,584; May 23.
Foam prevention. D. C. Bond and C. W. Botsford. 2,349,585; May 23.
Fog from warm bodies of water, Eliminating. A. B. Haswell. 2,349,787; May 23.
Foot accelerator speed control. E. W. Macavoy. 2,349,742; May 23.
Formaldehyde resin modified with a polyiso- or polyisothiocyanate. B. C. Pratt. 2,349,756; May 23.
Frame for measuring body posture. F. G. Leighty. 2,349,664; May 23.
Frequency drift indicator. A. Kahn. 2,349,501; May 23.
Friction clutch. E. Higgins. 2,349,624; May 23.
Froth flotation. K. F. Ruckwardt. 2,349,637; May 23.
Fruit sizing machine. A. E. Ulrich. 2,349,776; May 23.
Fuel briquettes, Making solid. J. A. Erickson. 2,349,342; May 23.
Fuel regulators for aircraft carburetors. S. M. Udale. 2,349,775; May 23.
Fuel vaporizer. R. Goodlass. 2,349,716; May 23.
Furnace: *See*—
Electric salt bath furnace.
Furnace construction. G. P. Prather. 2,349,755; May 23.
Furnace wall construction. W. H. Boyd. 2,349,700; May 23.
Garden hose holder. J. Lohne. 2,349,505; May 23.
Gas detection. R. L. Doan. 2,349,250; May 23.
Gas suitable for the synthesis of hydrocarbons, Producing a. H. Koppers. 2,349,438; May 23.
Gases, Contrivance for the heating of. H. Koppers. 2,349,439; May 23.
Gasket. W. F. Bernstein and S. M. Lillis. 2,349,235; May 23.
Gauge: *See*—
Thread tap gauge.
Gauge tapper, Automatic height. J. F. McQuillan, Sr. 2,349,667; May 23.
Geophysical exploration, Method and apparatus for. B. Pontecorvo. 2,349,753; May 23.
Geophysical prospecting. C. A. Moon. 2,349,366; May 23.
Glove. G. H. Wheadon. 2,349,533; May 23.
Glow discharge tubing and means for mounting the same. H. Epstein. 2,349,255; May 23.
Glue from chrome-tanned leather, Recovery of. Z. Erdeley. 2,349,542; May 23.
Grate for boilers, furnaces and the like. G. G. Marx. 2,349,448; May 23.
Grinding wheel feeding mechanism. C. G. Flygare and W. F. Johnson. 2,349,786; May 23.
Gun with improved projectile restraining means, Perforator. I. J. McCullough. 2,349,666; May 23.
Gutter hanger. T. L. Scott. 2,349,467; May 23.
Gyrating mechanism, Adjustable throw. L. Teplow. 2,349,778; May 23.
Gyroscopic instrument. A. Raspet. 2,349,757–8; May 23.
Hackamore bosal bit, Convertible. F. A. Ray. 2,349,375; May 23.
Hand and pinion remover. G. D. Gustafson. 2,349,497; May 23.
Handle bar, Cushioned. F. W. Schwinn. 2,349,762; May 23.
Hanger: *See*—
Gutter hanger.
Hay handling apparatus. R. E. Stoetzl and A. C. Thompson. 2,349,386; May 23.
Headgear. F. L. Starbeck. 2,349,471; May 23.
Heat exchange device. P. F. Sperry. 2,349,683; May 23.
Heat-transfer liquid, Noncorrosive. L. J. Clapsadle and G. B. Graham. 2,349,338; May 23.
Heat treating apparatus. W. Roth. 2,349,679; May 23.
Heater: *See*—
Automobile heater.
Heater. C. Barr and J. F. Strickler, Jr. 2,349,694; May 23.
Heating device. J. R. Campbell. 2,349,612; May 23.
Heel lift protector. E. B. Van Sant. 2,349,479; May 23.
Hinge and latch, Combined. L. P. Crosman. 2,349,486; May 23.
Hitch. R. D. MacDonald. 2,349,361; May 23.
Hoist. E. B. Thompson. 2,349,389; May 23.
Holder: *See*—
Electrode holder.
Garden hose holder.
Industrial X-ray film holder.
Razor blade sharpening holder.
Strainer holder.
Yarn-package holder.
Holder. J. Weber. 2,349,392; May 23.
Holder for electrolytic depiating. R. R. La Motte. 2,349,356; May 23.
Honing tool. J. E. Kline. 2,349,628; May 23.
Hose clamp. A. P. Craig. 2,349,538; May 23.
Hospital bed. J. W. Buttikofer. 2,349,701; May 23.
Hydraulic brake system. W. C. Johnson. 2,349,791; May 23.
Hydraulic control mechanism. C. H. Napier. 2,349,295; May 23.
Hydraulic system for machine tools. W. G. Baldenhofer. 2,349,602; May 23.
Hydrocarbons, Production of aromatic. C. Weizmann. 2,349,781; May 23.
Hydrocarbons, Reaction of paraffinic. J. J. Owen and E. E. Stahly. 2,349,458; May 23.
Hydrocarbons, Treating. C. E. Hemminger. 2,349,428; May 23.
Hydrokinetic torque transmitting device. F. A. M. Heppner. 2,349,725; May 23.
Identification device. C. R. Morris. 2,349,745; May 23.
Illuminator for microscopes, Vertical. H. Osterberg and K. W. Harper. 2,349,457; May 23.
Incandescent electric lamp. A. M. Hageman. 2,349,349; May 23.
Indicator: *See*—
Balancing-machine indicator.
Frequency drift indicator.
Phase angle indicator.
Industrial X-ray film holder. G. R. Heimerich. 2,349,427; May 23.
Inflating device. U. C. Walk. 2,349,480; May 23.
Insect repellent. J. Hyman. 2,349,434; May 23.
Insecticide. G. H. Coleman, F. Fletcher and W. D. Schroeder. 2,349,572; May 23.
Insecticide. S. I. Gertler and H. L. J. Haller. 2,349,344; May 23.
Internal combustion engine. J. C. Adams. 2,349,600; May 23.
Inverse neutral telegraph repeater concentration group switching. A. R. Bonorden, P. V. Koos, J. A. Krecek, W. V. K. Large, and T. A. Marshall. 2,349,586; May 23.
Iron and steel products and producing the same. J. C. Hartley and O. H. Henry. 2,349,266; May 23.
Joint: *See*—
Artificial arm joint.
Construction joint.
Rotary steam joint.
Knife and razor, Combined. E. R. Douglass. 2,349,252; May 23.
Labeling machine and process. M. F. Weida. 2,349,317; May 23.
Lamp: *See*—
Disk-type fluorescent lamp.
Incandescent electric lamp.
Latch: *See*—
Antifriction door latch.
Latch for pistol holsters, Safety. F. A. Ray. 2,349,376; May 23.
Launching device for boats and the like, Quick-acting. H. C. Hartzog. 2,349,268; May 23.
Lawn weeder. F. B. Hardman. 2,349,621; May 23.
Lever mechanism. H. C. MacGraham. 2,349,507; May 23.
Levulinic acid, Deodorizing and decolorizing. W. W. Moyer. 2,349,514; May 23.
License plate mounting for autos, etc. C. J. Carlin. 2,349,703; May 23.
Lids for hermetically sealed containers, Manufacturing. H. Brand. 2,349,587; May 23.
Liquid dispensing container. J. B. Levit. 2,349,665; May 23.
Liquids, Freezing of. W. H. Motz. 2,349,451; May 23.
Lock: *See*—
Container lock.
Lock nuts, Making. B. H. Mortus. 2,349,513; May 23.
Lock slider. D. Marinsky and L. H. Morin. 2,349,581; May 23.
Louvered register. H. W. Fiedler. 2,349,544; May 23.
Low carbon iron or steel, Producing. F. C. Wood, Jr. 2,349,688; May 23.
Lowering device, Safety. G. P. Kimmel. 2,349,735; May 23.
Lubricant testing method and apparatus. A. L. M. A. Rouy. 2,349,563; May 23.
Lubrication system for machine tools. L. F. Nenninger, E. D. Vancil, and F. A. Hassman. 2,349,597; May 23.
Lug strap and making, Reinforced tapered. B. T. Clark. 2,349,705; May 23.

Lunch box. H. M. Piker. 2,349,751; May 23.
Machine for continuously coating and/or permeating sheets. H. A. Evans. 2,349,256; May 23.
Machine for inking edges of shoe parts. R. R. Campbell. 2,349,245; May 23.
Machine for operating upon soles. F. Ricks and J. W. Pratt. 2,349,379; May 23.
Machine jaw, Stretching. M. D. Ripley. 2,349,520; May 23.
Machine tool. J. H. Schreiber and F. H. Dean. 2,349,382; May 23.
Machine tool control mechanism. M. E. Martellotti. 2,349,595; May 23.
Magnesium and magnesium alloys, Rolling. J. Zublin. 2,349,395; May 23.
Magnesium, Method and apparatus for the production of. H. P. Davis. 2,349,408–9; May 23.
Magnifying attachment for measuring instruments and the like. S. S. Barrows. 2,349,604; May 23.
Match book and emergency ash tray, Combination. C. S. Dement. 2,349,488; May 23.
Measuring and control apparatus. E. A. Keeler. 2,349,437; May 23.
Measuring thickness, Method and apparatus for. G. Herzog and J. H. Stein. 2,349,429; May 23.
Meat, Method of and apparatus for slicing. C. V. Rupin. 2,349,465; May 23.
Mechanism for synchronizing power units. A. L. Armentrout. 2,349,333; May 23.
Melba toast, Making. B. S. Tatosian. 2,349,582; May 23.
Mercaptothiazoles, Purification of. H. P. Roberts. 2,349,598; May 23.
Metal casing discharge device. D. E. Marshall and W. J. Knochel. 2,349,363; May 23.
Metal strip, Processing of. G. P. Wilson. 2,349,569; May 23.
Metal wheel disks, Forming pressed. F. H. Le Jeune. 2,349,738; May 23.
Meter: *See*—
Parking meter.
Watt-hour meter.
Wave meter.
Meter mounting. A. A. Young. 2,349,645; May 23.
Micro boring and turning device. C. M. Kouba. 2,349,503; May 23.
Mining machine. L. E. Simmons. 2,349,311; May 23.
Mixing and dispensing device. J. J. Hickey. 2,349,623; May 23.
Moistening device for gummed objects. C. D. Ryan and E. P. Drake. 2,349,564; May 23.
Motion converting mechanism. F. A. Trusdell. 2,349,314; May 23.
Motor-generator set, Self-regulated. H. W. Graybrook and C. J. Biscup. 2,349,618; May 23.
Mounting: *See*—
Meter mounting.
Vehicle wheel mounting.
Multiple ventilating system. E. S. Kemmer, J. E. Titus, and W. K. Oyler. 2,349,627; May 23.
Musketry training device. Z. de Lubicz-Bakanowski, F. J. Minns, and G. W. G. Norman. 2,349,615; May 23.
Nail holding tool. W. R. Cloer. 2,349,339; May 23.
Necktie sewing machine. A. I. Zimmer. 2,349,783; May 23.
Net, Hair. L. D. Després. 2,349,489; May 23.
Net, Hair. S. Oliner. 2,349,299; May 23.
Nickel-chrome-tungsten alloy steels, Heat treating. A. W. Wheeler. 2,349,319; May 23.
Nozzle, Fog. G. R. Meador. 2,349,449; May 23.
Nylon to rubber, Improving the adhesion of. D. L. Loughborough. 2,349,290; May 23.
Oarlock. C. S. Anderson. 2,349,692; May 23.
Oil prospecting method. M. S. Taggart, Jr. 2,349,472; May 23.
Oil from coal tar, Producing valuable. J. E. Harvey, Jr. 2,349,721; May 23.
Oil, Vegetable. W. W. Ginn. 2,349,546; May 23.
Oil well pump and the like. R. L. Chenault. 2,349,649; May 23.
Oils, Conversion of. C. W. Tyson and C. O. Tongberg. 2,349,478; May 23.
Oils, Corrosion inhibitors for lubricating. J. Faust. 2,349,785; May 23.
Olivaging machine. A. Fesselet. 2,349,258; May 23.
Optical instrument. K. W. Harper. 2,349,424; May 23.
Organic derivatives of cellulose, Coloring of. J. G. Kern. 2,349,282; May 23.
Package. S. H. Nielsen. 2,349,672; May 23.
Packing arrangement. J. M. Edmund. 2,349,253; May 23.
Paper with improved surface. J. W. Clark. 2,349,704; May 23.
Paraffins, Treatment of. H. Pines and H. S. Bloch. 2,349,516; May 23.
Parasiticidal preparation. W. P. ter Horst. 2,349,771–2; May 23.
Parking meter. C. A. MacCordy. 2,349,359; May 23.
Peanut picking machine. D. F. Good. 2,349,262; May 23.
Pencil, Mechanical. D. Jueiss. 2,349,553; May 23.
Permanent waving and a permanent wave heater. F. Korf and W. F. Zentler. 2,349,285; May 23.
Phase angle indicator. E. L. Ginzton. 2,349,261; May 23.
Phenyl o-phenoxybenzoate, Manufacture of. J. H. Pearson and B. W. Hammaren. 2,349,459; May 23.
Photographic element, Ultraviolet-sensitive. E. E. Richardson and J. J. Checbak. 2,349,760; May 23.
Photographic print treating apparatus. A. W. Caps and P. Landrock. 2,349,337; May 23.
Photographic projector. G. C. Garraway. 2,349,260; May 23.
Phthalic anhydride, Purification of. F. Porter. 2,349,518; May 23.
Picture mount. W. A. Conway, Jr. 2,349,340; May 23.
Pilot valve. J. Converse. 2,349,484; May 23.
Pipe. E. F. Needham. 2,349,296; May 23.
Pipe cutter. R. R. Hayden. 2,349,499; May 23.
Piston. R. A. Goepfrich. 2,349,345; May 23.
Piston ring elements, Processing split. H. P. Phillips. 2,349,372; May 23.
Plastic composition. J. P. Ferrer and S. D. Douglas. 2,349,414; May 23.
Plastic polymeric derivatives of chloroprene and producing the same. L. H. Howland. 2,349,733; May 23.
Plastic reaction products of conjugated olefins with wax substituted aromatic compounds. O. M. Reiff and J. D. Zech. 2,349,759; May 23.
Plug: *See*—
Drain plug.
Sparking plug.
Pneumatic timing device. A. H. Haberstump. 2,349,548; May 23.
Porous resilient printing plate. R. G. Chollar. 2,349,613; May 23.
Portable electric tool. W. K. Beckwith. 2,349,401; May 23.
Posting and check register. R. L. Smith. 2,349,384; May 23.
Potteryware, Method and apparatus for appendaging. W. J. Miller and A. J. Reek. 2,349,292; May 23.
Power transmission. C. A. Neracher, W. T. Dunn, A. J. Syrovy, and O. W. Schotz. 2,349,297; May 23.
Power transmission unit. M. J. Morgan. 2,349,744; May 23.
Preparation of tocopherol products. K. C. D. Hickman. 2,349,276; May 23.
Pressure sustaining apparatus. H. M. Louden and C. W. McCreery. 2,349,739; May 23.
Printed articles, Manufacture of. F-W. G. Gravenstein. 2,349,718; May 23.
Printing mechanism for adding and accounting machines. O. J. Sundstrand and W. A. Anderson. 2,349,769; May 23.
Printing telegraph apparatus. L. M. Potts. 2,349,674; May 23.
Projectiles, Making. W. S. Reynolds. 2,349,677; May 23.
Propellers, for multiple propeller ships. J. Kreitner and R. M. Kristal. 2,349,286; May 23.
Protection of polyphase impedance networks. J. W. Butler. 2,349,611; May 23.
Protector: *See*—
Heel lift protector.
Pulley bearing. G. H. Kendall. 2,349,281; May 23.
Pump: *See*—
Centrifugal pump.
Reciprocating pump.
Pump. J. F. Joy. 2,349,280; May 23.
Pump. T. H. Thompson. 2,349,773; May 23.
Pump and control means therefor. S. Schnell. 2,349,310; May 23.
Pyridine and compounds and the manufacture thereof. K. Westphal. 2,349,318; May 23.
Rack: *See*—
Display rack.
Door rack.
Radiant energy controlled device. O. T. Francis. 2,349,715; May 23.
Radiant energy locating system. H. Orner. 2,349,370; May 23.
Railroad track equipment. H. Fuller. 2,349,259; May 23.
Railway traffic controlling apparatus. C. B. Shields. 2,349,680; May 23.
Railway vehicle. T. R. Gilchrist. 2,349,545; May 23.
Railway vehicle body and radial truck assembly. J. C. Travilla, Jr. 2,349,568; May 23.
Railway vehicle truck. F. L. Alben and B. F. Langer. 2,349,601; May 23.
Range, Kitchen heating gas. J. F. Hennessy. 2,349,788; May 23.
Razor blade sharpening holder. M. Jaume. 2,349,734; May 23.
Receptacle. P. H. Burre. 2,349,238; May 23.
Reciprocating pump. J. Zwicky. 2,349,784; May 23.
Recorder, Automatic aniline point. A. B. Welty, Jr. 2,349,482; May 23.
Recording navigation instrument. G. Lowkrantz and E. A. Link, Jr. 2,349,506; May 23.
Rectifiers of the blocking layer type, Manufacture of. C. W. Hewlett. 2,349,622; May 23.
Rectifying system. D. E. Trucksess. 2,349,685; May 23.
Reenforcing bar support. W. P. Awbrey. 2,349,399; May 23.
Refrigerating apparatus. M. J. Goulooze. 2,349,419–20; May 23.
Refrigerating apparatus. G. Muffly. 2,349,367; May 23.
Refrigeration. S. W. E. Andersson. 2,349,396; May 23.
Refrigeration, Control of. A. B. Newton. 2,349,671; May 23.

Register control system. F. H. Gulliksen. 2,349,656; May 23.
Regulator: *See*—
  Voltage regulator.
Resilient, puncture proof automobile wheel. V. J. Stewart. 2,349,794; May 23.
Resinous composition and preparation of the same. F. Strain. 2,349,768; May 23.
Reversing line starter interlock. D. Ellis and B. C. Wells. 2,349,616; May 23.
Revolving chair. L. G. Simjian. 2,349,766; May 23.
Riveting device. J. A. Dissé. 2,349,341; May 23.
Riveting machine, Duplex. L. A. Ward. 2,349,529; May 23.
Roller, Web propelling. W. F. Huck. 2,349,659; May 23.
Roll-up door. J. F. Campion. 2,349,702; May 23.
Rotary engine. R. C. Wallace. 2,349,481; May 23.
Rotary steam joint. H. C. Behrens. 2,349,696; May 23.
Rotating servo-valve. W. R. Tucker and G. A. Waldie. 2,349,641; May 23.
Rotors, Fabricating. W. L. Hansen and I. N. Hurst. 2,349,620; May 23.
Rubber articles, Making polymerized. H. V. and K. V. Hardman. 2,349,549; May 23.
Safety device for hydraulic power transmission apparatus. G. W. Kinzelman. 2,349,284; May 23.
Safety latch for pistol holsters. F. A. Ray. 2,349,376; May 23.
Sampler, Automatic. J. W. Bertetti. 2,349,403; May 23.
Saw. W. K. Beckwith. 2,349,400; May 23.
Scraper apparatus. G. E. Daniels. 2,349,576; May 23.
Screw device, Self-locking. R. T. Rosking. 2,349,591–3; May 23.
Screw thread for high strength bolting. E. A. Davis. 2,349,651; May 23.
Sealing means. R. A. Goepfrich. 2,349,346; May 23.
Seed grading machine. G. Lundin. 2,349,442; May 23.
Selective signaling system and apparatus. L. M. Potts. 2,349,304; May 23.
Selective switch. W. H. T. Holden. 2,349,279; May 23.
Selenium, Producing. N. R. Bierly. 2,349,697; May 23.
Separable fastener. D. Marinsky and L. H. Morin. 2,349,580; May 23.
Sewage, System for treating. S. L. Tolman. 2,349,390; May 23.
Shaft coupling and system of power transmission. S. C. Watson. 2,349,642; May 23.
Shaker, Dual. W. J. Henderson. 2,349,724; May 23.
Shoes and shoe leather, Sterilization of. L. H. James. 2,349,661; May 23.
Shoes and shoe parts, Manufacture of. A. F. Pym. 2,349,374; May 23.
Shutter and heat shield therefor, Motion picture. A. S. Howell. 2,349,433; May 23.
Shutter for motion picture projectors, Rotatable. A. S. Howell. 2,349,500; May 23.
Signal: *See*—
  Street traffic signal.
Signal. J. F. Kepler. 2,349,355; May 23.
Signal discriminating system. G. Hodges. 2,349,625; May 23.
Sludges, scums, and the like to prepare relatively purified tocopherol, Purification of. K. C. D. Hickman. 2,349,270; May 23.
Smoker's draft tube. E. B. Helm. 2,349,551; May 23.
Smokeless fuel, Manufacture of. K. L. Storrs. 2,349,387; May 23.
Solid materials of different specific gravities, Separation of. F. Trostler and T. Andrews. 2,349,528; May 23.
Solvent recovery from colloided material. H. Rosenthal. 2,349,562; May 23.
Soybean oil, Treating. H. D. Royce. 2,349,381; May 23.
Sparking plug. B. Hopps. 2,349,432; May 23.
Spectacles. H. O. Sheldon. 2,349,764; May 23.
Spindle drill head, Adjustable multiple. R. B. Aiman. 2,349,240; May 23.
Stabilized diazo dicyandiamide compounds. P. P. McClellan and W. P. Ericks. 2,349,557; May 23.
Stabilized edible substances, Preparation of. K. C. D. Hickman. 2,349,277; May 23.
Steel, Treating high-speed. H. Solakian and E. N. Case. 2,349,767; May 23.
Steering drive axle. E. B. Sturges. 2,349,388; May 23.
Stocking. J. Largman. 2,349,357; May 23.
Stocking, Elastic top. F. E. Morris and H. Wagner. 2,349,746; May 23.
Strainer holder. A. Amstutz. 2,349,691; May 23.
Strap-stretching device. J. H. Bramble. 2,349,608; May 23.
Straw, Stuffed. O. W. Schroeder. 2,349,761; May 23.
Street traffic signal. H. B. Corley. 2,349,485; May 23.
Support: *See*—
  Reenforcing bar support.
  Tray tier support.
  Work support.
Swaging tool. H. E. Enders. 2,349,493; May 23.
Switch: *See*—
  Alternating electric switch.
  Electric switch.
  Selective switch.
Switch. M. B. Grout. 2,349,655; May 23.
Switching system, Teletypewriter. C. A. Dahlbom, F. S. Kinkead and G. A. Locke. 2,349,539; May 23.
Sylvinite ores, Concentration of. A. J. Weinig. 2,349,393; May 23.
Synchro-shifting transmission clutch. J. J. Dugas. 2,349,491; May 23.
Synthesis of aryl-alkyl-halogeno-ethanes. G. J. Van Zoeren. 2,349,779; May 23.
System and apparatus for hemming sheets of fibrous material. R. E. Annis. 2,349,233; May 23.
Tab actuator. R. C. Angell. 2,349,332; May 23.
Tank: *See*—
  Armored tank.
Tapered stock, Manufacture of. G. B. Coe. 2,349,246; May 23.
Telephone system. J. M. Melick. 2,349,669; May 23.
Television receiver. F. Okolicsanyi. 2,349,298; May 23.
Temperature measuring device. E. A. Keller. 2,349,436; May 23.
Textile, printing method. W. B. Reynolds and S. A. Scully. 2,349,561; May 23.
Testing, Method and apparatus for. M. Knobel, J. B. Dickson and J. W. Baymiller. 2,349,736; May 23.
Tetra-substituted ethylenes, Production of. F. H. Tendick. 2,349,770; May 23.
Thermoelectric device. W. A. Ray. 2,349,306; May 23.
Therapeutic arsenic preparation. R. Hopkinson and A. V. Tolstoouhov. 2,349,729; May 23.
Thermostatic protection of ignition tubes. R. W. Pearson and D. E. Marshall. 2,349,673; May 23.
Thread grinding machine. F. Turrettini. 2,349,477; May 23.
Thread tap gauge. R. Anders. 2,349,330; May 23.
Thresher cylinder. E. L. Rietz. 2,349,380; May 23.
Thrombokinase. N. H. Vollé. 2,349,316; May 23.
Thrust measuring device for shafts. F. W. Godsey, Jr. 2,349,653; May 23.
Tocopherols and new tocopherol derivatives. J. G. Baxter and C. D. Robeson. 2,349,273; May 23.
Tocopherol, Concentration and preservation of. K. C. D. Hickman. 2,349,789; May 23.
Tocopheral-containing composition and preparation. K. C. D. Hickman. 2,349,590; May 23.
Tocopherol-containing materials and products, Preparation of. K. C. D. Hickman. 2,349,278; May 23.
Tocopherol from scum with solvents, Separation of. K. C. D. Hickman. 2,349,275; May 23.
Tocopherol or vitamin E, Production of. J. G. Baxter. 2,349,271; May 23.
Tocopherol preparation. K. C. D. Hickman and N. H. Kuhrt. 2,349,272; May 23.
Tocopherol, Recovery of. K. C. D. Hickman. 2,349,269; May 23.
Tool: *See*—
  Dressing tool.
  Honing tool.
  Machine tool.
  Nail holding tool.
  Portable electric tool.
  Swaging tool.
Tool grinding machine, Universal. E. H. Wiedmann. 2,349,324; May 23.
Torsional measuring device. B. F. Langer. 2,349,663; May 23.
Toy kite. F. Gene, also known as Yee, Ming Hor. 2,349,417; May 23.
Track circuit signaling systems, Coded. R. M. Phinney and O. S. Field. 2,349,460; May 23.
Tractor-carried loading apparatus. C. C. Baldwin. 2,349,335; May 23.
Tractor guide. C. C. Toelle. 2,349,527; May 23.
Tractor with hydraulic drive. J. O. Hamren. 2,349,265; May 23.
Trash roll construction. J. L. Aasland. 2,349,328; May 23.
Tray, Ice. R. L. Hallock. 2,349,422; May 23.
Tray tier support. W. L. Snelling. 2,349,385; May 23.
Treating magnesium minerals. W. R. Kleckner. 2,349,556; May 23.
Truck, Industrial. G. V. Johnson. 2,349,352–3; May 23.
Tube: *See*—
  Smoker's draft tube.
Tube and sheet connection. C. F. Rosenblad. 2,349,792; May 23.
Tube bender. J. N. St. Clair. 2,349,525; May 23.
Tubular container. R. Horning. 2,349,730; May 23.
Tubular film evaporating apparatus. C. M. A. Hermelin. 2,349,657; May 23.
Tuft making device for automatic brushmaking machines. W. T. West. 2,349,532; May 23.
Turbotransmission. J. Jandasek. 2,349,350; May 23.
Turret shaping machine for cigars. H. H. Wheeler. 2,349,320; May 23.
Twister tube assembly for spinning machines. M. D. Moraros. 2,349,512; May 23.
Two-stroke internal combustion engine. H. T. Pyk. 2,349,305; May 23.
Typewriter and the like. S. Khalil. 2,349,554; May 23.
Typewriting machine. F. Willheim. 2,349,483; May 23.
Typewriting machine. W. F. Helmond. 2,349,723; May 23.
Undergarment. A. J. Harwood. 2,349,426; May 23.
Ultraviolet radiations, Method and instrument for measuring. T. R. Porter. 2,349,754; May 23.
Vacuum method for filling tires with water. W. W. McMahan. 2,349,594; May 23.
Valve: *See*—
  Air valve.
  Pilot valve.
  Viscosity control valve.
Valve. D. W. Hopkins. 2,349,727; May 23.
Valve construction. W. R. Freeman. 2,349,416; May 23.

Vapor electric device. H. C. Myers. 2,349,633; May 23.
Variable speed epicyclic gearing. E. J. de Normanville. 2,349,410; May 23.
Vehicle: *See*—
  Railway vehicle.
Vehicle. P. Grabinski. 2,349,263; May 23.
Vehicle wheel mounting. G. L. Larison. 2,349,289; May 23.
Vibratory apparatus. J. F. Meyer. 2,349,743; May 23.
Vinyl resin composition. S. D. Douglas. 2,349,412; May 23.
Viscosity control valve. W. Worth. 2,349,327; May 23.
Vise. L. Meister. 2,349,291; May 23.
Voltage regulator. J. S. Rhyne. 2,349,308; May 23.
War vessel with high power, long range gun. N. M. Hopkins. 2,349,728; May 23.
Watt-hour meter. S. S. Green. 2,349,347; May 23.
Wave meter. S. D. Lavoie. 2,349,440; May 23.
Well logging method and device. R. E. Fearon. 2,349,712; May 23.
Wheel balancer. H. G. Holmes. 2,349,552; May 23.
Wheeled scraper. T. R. Paulsen. 2,349,302; May 23.
Wire drawing. F. C. Elder. 2,349,708; May 23.
Wire drawing die. J. M. Fenner. 2,349,652; May 23.
Wire entanglements, Method and apparatus for forming. C. H. Peterson and W. V. Moren. 2,349,750; May 23.
Work sling. G. M. Graham. 2,349,717; May 23.
Work support. L. O. Carlsen. 2,349,537; May 23.
Yarn-package holder. H. J. Theiler. 2,349,639; May 23.
Yarn, Unwinding. A. G. Bouhuys and H. B. Carico. 2,349,237; May 23.
Zinc smelting. G. F. Halfacre. 2,349,619; May 23.

CLASSIFICATION OF PATENTS

ISSUED MAY 23, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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2,349,741:	279—	89	2,349,792:	285—	30						

CLASSIFICATION OF DESIGNS

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D3—	10:	Des.137,968	D17—	6:	Des.137,974	D33— 6:	Des.137,941	D34—	2: Des.137,949		26: Des.137,943
	26:	Des.137,970	D21—	1:	Des.137,956		14: Des.137,951		4: Des.137,972	D45—19:	Des.137,958
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D81—	1:	Des.137,963			
D85—	2:	Des.137,959			
D87—	3:	Des.137,969			
D92—	1:	Des.137,957			

U. S. GOVERNMENT PRINTING OFFICE: 1944

THE

OFFICIAL GAZETTE

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May 30, 1944

Trade-Marks	95	No. 407,297 to No. 407,391, inclusive.
T. M. Renewals	90	
Reissues	4	No. 22,487 to No. 22,490, inclusive.
Patents	523	No. 2,349,797 to No. 2,350,319, inclusive.
Designs	33	No. 137,977 to No. 138,009, inclusive.
Total	745	

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., May 6, 1944.*

Paul P. Russo, his assigns or legal representatives take notice:

A petition for cancellation having been filed in this Office by Sadie Dashut, 1462 Irving Street, Denver, Colorado, to effect the cancellation of trade-mark registration of Paul P. Russo, 103 East 125th Street, New York, N. Y., No. 301,462, dated February 28, 1933, and the notice of such proceeding sent by registered mail to said Russo at the said address and reforwarded to him in care of Dr. Edward L. Corbett, 217 Broadway, New York, N. Y., having been returned by the post office as undeliverable, notice is hereby given that unless said Russo, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed:

Pat. 2,218,025, A. D. Garrison and C. F. Teichmann, Method of treating a well, decided April 24, 1944, claims 1, 2, 4, 5, 11, 15, and 17.

Pat. 2,299,719, H. F. Frimel, Hydraulic valve, decided March 24, 1944, claim 1.

Disclaimers

2,055,931.—*Leroy F. Keely,* Milwaukee, Wis. DYNAMO-ELECTRIC MACHINE. Patent dated September 29, 1936. Disclaimer filed April 29, 1944, by the inventor; the assignee, *The Louis Allis Company,* assenting.

Hereby enters this disclaimer to claims 12, 18, 19, 20, and 21 of said patent.

2,259,946.—*James M. Wallace,* Braddock, Pa. CIRCUIT INTERRUPTER. Patent dated October 21, 1941. Disclaimer filed May 3, 1944, by the assignee, *Westinghouse Electric & Manufacturing Company.*

Hereby enters this disclaimer to claims 2, 3, 4, 10, and 11 of said patent.

2,292,447.—*James C. Irwin, Jr.,* Kansas City, Mo. DEHYDRATING PROCESS. Patent dated August 11, 1942. Disclaimer filed May 10, 1944, by the assignee, *United States Cold Storage Corporation.*

Hereby enters this disclaimer to claims 1, 2, 3, and 4 of said specification.

Printed Copies of Patents

A printed copy of the complete specification and drawings of any patent published herein can be obtained for ten cents.

Patents Nos. 2,349,797 to 2,350,319

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A printed copy of the complete specification and drawings of any patent published herein can be obtained for ten cents.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE JONES

No. 4,809. Decided January 3, 1944

[140 F.(2d) 1022]

PATENTABILITY—MATCH BOOK.

Certain claims to a match book *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Wilbur C. Jones pro se.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

HATFIELD, *J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 9 to 13, inclusive, in appellant's application for a patent for an alleged invention relating to improvements in so-called "paper match books."

The appealed claims read:

9. A match book comprising a strip of flexible material, such as cardboard, a card of matches, and a staple; the matches disposed upon the cardboard, one end of the cardboard, turned over the heads of the matches and the edge thereof disposed above the stub ends of the matches, the other end of the cardboard being turned over upon the stub ends of the matches and the edge of the first mentioned end of the cardboard, and a metallic staple passed through the cardboard, the stub ends of the matches, and the turned-over end of the cardboard above and in contact with the first mentioned turned-over end, and a part of the staple bent over this said bent-over end of the cardboard and countersunk in the material thereof, forming a crease or channel therein and holding the edge of the first mentioned cardboard beneath against accidental displacement.

10. The subject-matter of claim 9 wherein the first mentioned turned-over end of the cardboard has upon its outer surface and outside the other turn-over end of the cardboard frictional material which is exposed for the striking of a match.

11. The subject-matter of claim 9 wherein the staple is of a U shape and has the head portion bent over upon the surface of the second mentioned turned-over end of the cardboard and is partly countersunk within the material thereof.

12. The subject-matter of claim 9 wherein the staple is of a U shape and is inserted from the back of the cardboard and has the prongs bent over upon and above both the surface edges of the mentioned turned-over ends of the cardboard and has the said prongs partly countersunk in the surface.

13. The subject-matter of claim 9 wherein the staple is of U shape and has the prongs bent over the second mentioned end of the cardboard and into contact with the surface of the first-mentioned turned-over end of the cardboard.

The reference is: Freedman, 1,851,042, March 29, 1932.

Appellant's match book comprises a strip of flexible material, such as cardboard, a so-called "card of matches," and a staple which, it is stated, is U-shaped. The prongs of the staple pass through the cardboard, the stub end of the card of matches, and the turned-over end of the cardboard at the stub end of the match book. The end of the movable cover flap or tongue of the match book is covered with an abrasive or frictional material, and is designed to fit snugly underneath the opposite or turned-over end of the cardboard.

We quote as follows from appellant's application:

My invention consists, generally stated, in certain novelties of construction and in the combinations of parts as herein shown by the figures of the drawing and described and claimed; and, specifically, it consists in providing a staple having the head or one prong or both prongs turned or bent over upon and parallel with or angularly disposed relatively to the length of the book, said staple having the head or prong parallel or angularly disposed to the length of the book, both prongs being turned over or the head thereof only and *partially or wholly embedded in the material* of the turned-over end of the cover at the stubbed end of the matches *so as to form a crease or channel or corrugation in the outer surface of the free end of the closed cover which prevents its sidewise movement when closed,* and, further, I provide the outer surface of the end of the cover with *frictional material* which *extends outside the edge of the turned-over end of the covering far enough to be engaged by a match when struck.*

* * * * * * *

The head or U-shaped part of the staple is bent over and countersunk by pressure or a blow into the turned-over or stub end of the material of the covering, at the same time forming a groove or corrugation * * * in the surface of the end of the cover or tongue. *This crease interlocks frictionally with the crease or indentation in the turned-over or stub end of the covering above it and* holds the cover closed and at the same time holds the cover against sideways movement when a match strikes the frictional material projecting above. [Italics not quoted.]

As stated in his application, the purpose of appellant's alleged invention is to provide a match book with means for holding the tongue or movable cover flap in a closed position when the book is not in use so as to prevent accidental ignition of the matches. A further object of appellant's device is to prevent the striking of a match on the abrasive or frictional material when the cover of the book is open.

In his device, appellant forms a crease or groove in the edge of the tongue or cover flap, as well as in the opposite or turned-over end of the cardboard, as stated by the Primary Examiner—

by bending part of the staple of the match book over upon the short tuck flap at the base of the match book, and then, while the cover flap is in its closed position, applying pressure upon such bent-over portion of the staple so as to embed or countersink the same into the material of the tuck flap, *such pressure causing an impression to be formed in the tuck flap and the underlying part of the cover flap.* [Italics not quoted.]

The patent to Freedman discloses a match book somewhat similar to that of appellant. The staple used by Freedman may be either triangular or substantially U-shaped. It is stated by the patentee that the legs or prongs of the staple pass through the back of the cardboard material, the stub end of the card of matches, and that portion of the cover turned over the stub end of the matches, and are clenched on the last named portion of the cover so as to bring resilient pressure upon the end of the tongue or cover flap when in closed position. The purpose of the patentee's arrangement is to hold the tongue or movable cover flap in closed position when the match book is not in use so as to prevent accidental ignition of the matches.

Claim 9 differs from the Freedman reference in that the staple is countersunk in the turned-over

end of the cardboard at the base of the card of matches so that a crease or channel is formed therein.

Claim 10 is the same as claim 9, except that the end of the tongue or cover flap is provided with abrasive or frictional material for the striking of matches, and for aiding in holding the flap in closed position by frictional engagement with the opposite or turned-over end of the cardboard.

Claim 11 is similar to claim 9 except that it specifies that the staple shall be U-shaped.

Claim 12 is similar to claim 9 except that it provides for a U-shaped staple inserted from the back of the match book, having its prongs "bent over upon and above both the surface edges" of the turned-over portion of the flexible cardboard.

Claim 13 is similar to claim 9 except that it calls for a U-shaped staple with its prongs bent over the base portion of the flap and "into contact with the surface" of the tongue portion.

In his statement to the Board of Appeals, the Primary Examiner said that the patentee Freedman relied upon friction to hold the tongue portion in position, whereas appellant relied upon a "slight deformation of the flaps produced by embedding the staple in the material of one of the flaps." The Examiner further said that, although there was a difference between appellant's structure and that disclosed in the reference, it was "not of sufficient importance to warrant the grant of a patent," and that if the patentee's staple happened to be subjected to a blow, portions of the staple would become embedded in the turned-over end of the cardboard, with the result that the tongue or cover flap would be held firmly when in closed position. The Examiner was of opinion that if the Freedman disclosure was not satisfactory, it would be an obvious matter to adjust the staple by countersinking it so as to exert sufficient pressure to hold the tongue or cover flap securely in closed position.

The Board of Appeals concurred in the views expressed by the Examiner.

It is true that there is no statement in the Freedman patent that the prongs of the staple should be countersunk. However, no such suggestion would be necessary to one skilled in the art, if it were desired to exert more pressure upon the turned-over end of the cardboard in order to hold the tongue or cover flap more securely in closed position. It will be observed, furthermore, that, although appellant states in his application that a crease or channel is formed in the end of the tongue or cover flap, as well as in the turned-over end of the cardboard, that feature is not set forth in any of the claims. The claims call merely for a crease or channel in the turned-over end of the cardboard, which crease or channel would, of course, be caused by the countersinking of the staple in the turned-over end of the cardboard while the tongue or cover flap is in closed position.

Claims 10, 11, 12, and 13 differ from claim 9 in the manner hereinbefore stated, claim 10 differing from claim 9 only in that it calls for providing the end of the tongue or cover flap with frictional material. That feature in appellant's match book might, to some extent, aid by means of friction in holding the tongue or cover flap more securely in closed position. However, we think that whatever advantage might be obtained by this arrangement would be obvious to one skilled in the art.

One of the reasons stated by appellant for having the frictional material on the end of the tongue or cover flap is to insure the replacement of the cover to a closed position before striking the match. That advantage is also secured where the frictional material is on the back surface of the cardboard cover. (It is conceded in appellant's application that it is old to place the abrasive or frictional material on the back surface of the match book.)

Claims 11, 12, and 13, as hereinbefore noted, call merely for slightly varying the position of the countersunk or partially countersunk U-shaped staple.

We have given the arguments presented by appellant very careful consideration, but are unable to hold that the appealed claims define invention over the disclosure in the patent to Freedman.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MARKEY

No. 4,863. Decided February 7, 1944

[140 F.(2d) 1022]

PATENTABILITY—METHOD OF INCUBATING AND HATCHING EGGS.

A claim to a method of incubating and hatching eggs in a single chamber *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. A. S. Krotz (*Mr. Theodore K. Bryant* and *Messrs. Bryant & Lowry* of counsel) for Markey.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the Examiner's rejection of the only claim (which is a method claim) embraced in appellant's application for patent entitled "Combination incubator and hatcher." The claim reads:

14. A method of incubating and hatching eggs in a single chamber, comprising first placing eggs in incubating trays and placing the incubating trays in said chamber and conditioning and circulating the air suitably for incubation, then when the eggs are about ready to hatch, removing the incubating trays and transferring the eggs to hatching trays, next placing the hatching trays in the chamber in place of the incubating trays and conditioning and circulating the air suitably for hatching.

Since the claim is drawn to a method, it is unnecessary to described in detail the structure defined in the application and illustrated by the drawings. It is sufficient to say that it is clear that the defined method may be practiced on such structure. While the specification describes the structure in great detail there is nothing in the record to indicate that claims for the apparatus were ever presented in the application.

The rejection was based on prior art, the references cited being the following patents: Petersime et al., 2,176,745, October 17, 1939; and Brace, 2,184,685, December 26, 1939.

Both patents are in the incubating and hatching art, and the respective devices of both are described in detail in the decision of the Examiner. All the claims of both patents are apparatus claims.

With respect to the Petersime et al. patent, the brief of the Solicitor for the Patent Office points out that it

> • • • discloses a combined incubator and hatcher comprising a large chamber and a small one, each adapted to contain trays of eggs; and means for applying the desired degree of temperature and humidity to each chamber. Under normal conditions the patentees propose to use the large chamber for incubation and the small one for hatching, but they state that either chamber may be used for both purposes.
>
> • • • • • • • •
>
> The patent shows incubator trays • • • in which the eggs are incubated under suitable conditions, and hatching trays • • • in which the incubated eggs are hatched, also under suitable conditions. Means for producing the desired temperature and humidity are fully disclosed. The transfer of the eggs from incubator trays to hatcher trays is fully described in the patent • • •.

That the steps thus described are performed on the Petersime et al. apparatus is not questioned by appellant but he emphasizes the limitation of his appealed claim defining the process of both incubating and hatching eggs "in a single chamber."

Whether, in the absence of any prior art showing such a limitation, the limitation would present patentable novelty need not be considered here, because the Petersime et al. patent definitely teaches that both incubating and hatching may be carried out in a single chamber. We quote the following from the patent specification:

> It is a further object of the invention to provide for tilting the drum of egg-carrying trays in the hatcher so that the hatcher can be used for incubating purposes. The hatcher is used interchangeably for incubating or hatching, or both incubating and hatching, and the incubator can likewise be used for these several purposes so that it is possible for the hatcher with varying amounts of eggs at varying seasons, to have one machine an incubator with different-sized compartments, and, therefore, of different capacities so that when eggs are not plentiful he will have a relatively small compartment for incubating and hatching, and when eggs are very plentiful he can have a separate compartment for incubating and a separate compartment for hatching.

In view of the above, and without discussing the Brace patent which was merely a cumulative reference, we are of opinion that the appealed claim was properly rejected by the tribunals of the Patent Office.

The decision of the Board is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,561,906, 1,691,637, 1,922,755, 1,966,429, W. R. Buxton, Key case; 1,959,207, C. H. Howe, same, appeal filed Apr. 25, 1944, C. C. A. 8th Cir., Doc. 12,856 and 12,857, *Buxton, Inc.* v. *L. L. Gardner.*

1,691,637. (See 1,561,906.)

1,760,274, G. G. Rehfield, Duplex horn for sound reproducers; Re. 18,839, D. Mapes, Recoil preventing safety cap; Re. 19,087, H. R. Minor, Valve, filed Apr. 21, 1944, D. C. N. Y., Doc. 25/276, *Specialties Development Corp.* v. *The General Detroit Corp.*

1,807,996, N. W. Mathey, Trimming machine, D. C. Mass., Doc. 4448, *N. W. Mathey* v. *United Shoe Machinery Corp.* Judgment for plaintiff Mar. 21, 1944.

1,840,012, O. Behimer, Apparatus for making gasoline; 1,883,850, same, Process for making gasoline, D. C., N. D. Tex. (Abilene), Doc. E848, *The Texas Co.* v. *Baird Refining Co.* "Order of dismissal" Apr. 10, 1944.

1,883,850. (See 1,840,012.)

1,917,262. (See Re. 21,956.)

1,922,755. (See 1,561,906.)

1,926,579, Burgess & Golley, Method of destroying insects with pyrethrum; 2,006,437, same, Apparatus for diffusing pyrethrum; 2,066,607, same, Apparatus for treating and diffusing pyrethrum, suit for declaratory judgment filed Apr. 26, 1944, D. C. Mich. (Grand Rapids), Doc. 407, *The Tanglefoot Co.* v. *W. S. Burgess, et al.*

1,944,571, W. R. Rahm, Molding machine; 2,225,672, C. C. Webb, Apparatus for molding plastic articles; 2,226,326, A. A. Scott, Molding machine, filed Apr. 3, 1944, D. C. Md., Doc. 2,198, *Wheeling Stamping Co., et al.* v. *Standard Cap & Moulding Co.*

1,959,207. (See 1,561,906.) 1,966,429. (See 1,561,906.)

1,998,125, F. F. Eno, Method of making ribbed insoles, D. C. Mass., Doc. 996, *Prime Mfg. Co.* v. *M. F. Eno, et al.* Dismissed for lack of prosecution Jan. 3, 1944.

2,006,437. (See 1,926,579.)

2,025,973, E. S. Cornell, Jr., Hollow wrought metal body and method of making same, C. C. A., 2d Cir., Doc. —, *E. S. Cornell, Jr.*, v. *Chase Brass & Copper Co., Inc.* Decree affirmed (notice Apr. 20, 1944).

2,066,607. (See 1,926,579.)

2,074,758, L. N. Reynolds, Composition for floors, filed May 2, 1944, D. C., E. D. N. Y., Doc. 3817, *Maintenance Research, Ltd.* v. *Asbestolith Mfg. Corp.*

2,088,130, Broering & Kite, Tire retreading mold, filed Apr. 24, 1944, D. C., S. D. Calif., C. Div., Doc. 3579–RJ, *Ben Heer* v. *F. T. Linstrom, et al.*

2,202,347, T. M. Knox, Featherquilling machine, D. C., N. D. Ill., E. Div., Doc. 44C149, *T. M. Knox* v. *Sanitary Feather Co.* By stipulation cause dismissed Apr. 5, 1944.

2,225,672. (See 1,944,571.) 2,226,326. (See 1,944,571.)

2,251,284, J. S. Kamborian, Lasting footwear, filed Mar. 31, 1944, D. C. Mass., Doc. 2751, *J. S. Kamborian, et al.* v. *United Shoe Machinery Corp.*

2,345,384, Dohrn & Diedrich, Polyiodized derivatives of the hydroxy diphenyl carboxylic acids and a process for preparing same, filed Apr. 22, 1944, D. C., S. D. N. Y., Doc. 25/280, *Schering Corp.* v. *National Synthetics.*

Re. 18,839. (See 1,760,274.)

Re. 19,087. (See 1,760,274.)

Re. 20,024, M. J. Kohler, Apparatus for treating nuts, D. C., S. D. Calif., C. Div., Doc. 2098, *National Nut Co. of Calif.* v. *B. M. Shapiro, et al.* "Order of dismissal" Apr. 24, 1944.

Re. 21,956 (of 1,917,262), P. E. Hawkinson, Method of retreading tire casings, D. C. Ill. (East St. Louis), Doc. 814, *Paul E. Hawkinson Co.* v. *Anna Tire & Retread Co.* Patent 1,917,262 withdrawn from litigation; noninfringement held Apr. 21, 1941.

Des. 121,343, J. P. Wilson, Panel for an astrological and mystic robot; T. M. 386,501, same, Machine which dispenses merchandise and particularly prints and publications; T. M. 393,875, same, Prints and publications, D. C., N. D. Ill., E. Div., Doc. 4236, *J. P. Wilson* v. *Armin Von Obstfelder, et al.* T. M. 386,501 held invalid; cause dismissed Apr. 20, 1944.

Des. 132,104, R. L. Morton, Doll cradle, filed Apr. 27, 1944, D. C., N. D. Ala., S. Div., Doc. 5521, *R. L. Morton* v. *A. Sacks.*

T. M. 22,406, T. M. 47,189, The Coca Cola Co., Nutrient or tonic beverage; T. M. 238,145, T. M. 238,146, same, Beverages and syrups for the manufacture of such beverages, D. C., N. D. Ill., E. Div., Doc. 43c784, *The Coca Cola Co.* v. *National Cola Co. of America, et al.* Consent injunction against defendants Apr. 28, 1944.

T. M. 47,189. (See T. M. 22,406.)

T. M. 238,145. (See T. M. 22,046.)

T. M. 238,146. (See T. M. 22,406.)

T. M. 386,501. (See Des. 121,343.)

T. M. 393,875. (See Des. 121,343.)

Changes in Classification

Order No. 3,815, May 3, 1944, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASS

In *class 102, Ammunition and Explosive Devices* (Division 30):

Pyrotechnics
36 Torches

CHANGE SUBCLASS TITLES

In *class 102, Ammunition and Explosive Devices* (Division 30), subclasses 7, 65, and 71 should read:

Drop bombs
7 Marine type
Shells
Grenades
65 Gas, incendiary or smoke
Fuses, primers and igniting devices
71 Combined time-controlled and operated by impact on objective

ESTABLISH SUBCLASSES

In *class 102, Ammunition and Explosive Devices* (Division 30):

Drop bombs
7.2 Rebounding, having separable section and/or multiple bursting charges
7.4 With target contact anticipator
7.6 Practice or dummy
Mines
19.2 With igniter utilizing, electrical, magnetic, wave or radiant energy
Well torpedoes
21.2 With lowering cable cutting, and/or releasing means
21.4 With tamping means
21.6 With plural explosive charges, with gas and/or with non-explosive liquid
21.8 With anchoring means and/or with well wall contacting guides or buffers
Pyrotechnics
Rockets
34.1 With vanes, wings, parachute or balloon
34.2 With stick or support
34.3 With means to rotate by gas discharge
34.4 With means to eject article or charge from casing
34.5 With plural, successively ignited charges
Parachute flares
35.2 Multiple flare
35.4 Multiple and/or vane type parachutes, and/or means to restrain complete initial parachute opening
35.6 With means to eject parachute and/or flare from casing
37.1 With vanes, wings, parachute, balloon or propeller
37.2 Simulations
37.3 Combined
37.4 With holder or support
37.5 Wheels, rotors or whirlers
37.52 Spike form
37.6 With means to eject article or charge from casing
37.7 With plural, successively ignited charges
37.8 Torches
Shells
Grenades
65.2 With gun or other projector engaging or cooperating means
65.4 With throwing handle, handgrip or strand
Fuses, primers and igniting devices
70.2 Utilizing, electrical, magnetic, wave or radiant energy
Operated by impact on objective
With arming means
Vane or fluid pressure operated
81.2 Rotary vane
81.6 Manually released
Time controlled
Powder train
85.2 With train length selecting means
85.6 With relatively movable striker or igniter
86.2 Strand and/or dropped weight operated

MISCELLANEOUS CHANGES

In *class 102, Ammunition and Explosive Devices* (Division 30), subclasses 70+ should appear following subclass 92.5, with subclass "70 Fuses, primers and igniting devices" coordinate with subclass "92.5 Projectiles".

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
102	36	102	37.1 to 37.8

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Sources	
Class	*Subclass*	*Class*	*Subclass*
102	7.2 to 7.6	102	2
102	19.2	102	8
102	21.2 to 21.8	102	20
102	34.1 to 34.5	102	34
102	35.2 to 35.6	102	35
102	37.1 to 37.8	102	31, 36
102	65.2, 65.4	102	64
102	70.2	102	Various
102	81.6	102	64, 81
102	85.2	102	85
102	85.6	102	64, 85
102	86.2	102	20

IN THE DEFINITIONS:

66, Textiles, Knitting (Division 21)

in subclass 125, add:

Search Class—
28—TEXTILES, subclass 71.5, for strand feeding not elsewhere provided for.

102, Ammunition and Explosive Devices (Division 30)

in subclass 2, cancel the notes and substitute:

Search this class, subclass—
20+—for well torpedoes for dropping down into wells.
70+—for fuses, primers and igniting devices, per se. These devices are considered to be claimed per se when only features pertaining to the structure, operating means, or means for mounting on the drop bomb are claimed. Where a vane or propeller, movable relative to the drop bomb, necessary for the operation of the fuse, primer or igniting device is claimed, classification is in subclasses 70+, even though such vane or propeller is also disclosed or claimed as stabilizing flight or retarding drop. However, drop bombs designed for operation by contact with water have been left in subclass 7.

Search Class—
33—GEOMETRICAL INSTRUMENTS, subclass 46.5 for sighting devices used in bomb dropping.
89—ORDNANCE, subclass 1.5, for bomb, flare and signal dropping devices.
244—AERONAUTICS, subclass 14, for aerial bombs having wings or means to sustain flight.;

in subclass 4, cancel the notes and substitute:

Search this class, subclass—
9—for aerial type mines.
34.1—for rocket type pyrotechnic devices combined with a parachute or balloon.
35+—for parachute flares.
37.1—for miscellaneous pyrotechnic devices combined with a parachute or balloon.
63, 89—for line carrying or filamentary material distributing devices having parachutes.

Search Class—
244—AERONAUTICS, subclasses 138+, for parachutes and other safety lowering devices.;

in subclass 7, cancel the definition and notes and substitute:

7. Drop bombs under subclass 2, peculiarly adapted to be dropped into bodies of water.

(1) Note.—Included are the so-called "ash-cans" used in submarine warfare, float lights, igniters operated by water flow or hydrostatic pressure, and float torches.

Search this class, subclass—
3—for marine type drop bombs with means for controlling direction of drop.
4—for marine type drop bombs with means for retarding drop.
10+—for marine type mines.
14—for marine type mines having means operated by hydrostatic pressure to regulate depth.
37.8—and see the notes thereto for torches of other than the float type.
53—for non-ricocheting type of projectile.
54—for marine type projectiles.
70+—and see the notes thereto for igniters in general.;

establish the following subclass definitions:

7.2. Drop bombs under subclass 2 having any one or any combination of (1) springs to cause rebounding upon contact, (2) means to cause separation of one section of the bomb assembly from another after dropping by means other than, or in addition to, a bursting charge, or (3) having two or more separate bursting charges.

(1) Note.—Included, for example, are bombs which fire an explosive to project a portion of the bomb; bombs of plural separable sections, each a smaller bomb; and bombs having two or more bursting charges separately encased in different parts of the bomb structure.

Search this class, subclass—
5—for drop bombs having laterally directed barrels.
8, 19.2—for buried land mines, with means for projecting the same above the earth's surface.
37.6—for miscellaneous pyrotechnic devices having means for ejecting an article or charge from a casing and see the notes thereto.
37.7—for miscellaneous pyrotechnic devices having plural, successively ignited charges and see the notes thereto.

7.4. Drop bombs under subclass 2 having means projectable a distance in front of the bomb, usually after release and during dropping which means, on contact with the target, causes ignition of the bomb while it is spaced from the target.

Search this class, subclass—
5—for such means associated with drop bombs having laterally directed barrels.
7.2—for bombs which, on contact, project a section in an upward direction so that it may explode above the target.
70+—for fuses, primers and igniters in general.

7.6. Drop bombs under subclass 2, either having no explosive charge, or having but a small explosive charge and designed specially for practice purposes.

Search this class, subclass—
6—for practice or dummy bombs that evolve or release gas or smoke.;

in subclass 8, cancel note (0.5) and substitute:

(0.5) Note.—For fuses, primers and igniting devices, per se, for mines, see subclasses:
16+, for fuses and igniting devices for marine type mines.
19.2, for fuses and igniting devices for other mines utilizing electrical, magnetic, wave or radiant energy.
70+, for mine fuses, and igniting devices, per se, for mines other than the types provided for in subclasses 16+ and 19.2.;

cancel note (2);

in subclass 9, add:

(0.5) Note.—This class, subclass 37.1 and see the notes thereto for other combinations with vanes, wings, parachutes, balloons or propellers.;

in subclass 10, note (1), change "depth charges" to *type drop bombs*;

in subclass 18, add:

Search this class, subclass—
19.2, 70.2—for other igniters utilizing electrical, magnetic, wave or radiant energy.;

establish the following subclass definition:

19.2. Mines under subclass 8 having an igniter utilizing electrical, magnetic, wave or radiant energy, and such igniters, per se.

Search this class, subclass—
18—for firing devices for marine type mines responsive to magnetic and/or vibration or other wave energy.
70+—for igniters for mines other than those classifiable in subclasses 16+ and 19.2.;

in subclass 20, in note (1.5), before the period (.), add: , *subclass 86.2 having those operated by a lowering strand and/or by a dropped weight*;

establish the following subclass definitions:

21.2. Well torpedoes under subclass 20 having some means for either cutting or releasing the lowering cable other than, or in addition to, the explosion of the torpedo.

(1) Note.—For example, this subclass has a second explosive device specially for cable cutting purposes.

21.4. Well torpedoes under subclass 20 having means for tamping (i. e., substantially closing) the well bore above the place where explosion takes place.

Search this class, subclass—
26—for blasting cartridges with tamping means.
30—for plugs used for tamping in blasting operations.

21.6. Well torpedoes under subclass 20 having any one or any combination of (1) two or more explosive charges (in the same or in different cases) in addition to the igniter; (2) means for holding or utilizing a gas; (3) means for holding or utilizing a non-explosive liquid.

Search this class, subclass—
21.2—for the use of a second explosive device for cutting a lowering cable.
for pyrotechnic devices having plural, successively ignited charges and see the notes thereto.

21.8. Well torpedoes under subclass 20 having either, or both, (1) means to anchor the torpedo in the well bore against motion in at least one direction, or (2) guide flanges, springs or buffers to contact the wall of the bore or casing as the torpedo is moved therethrough.

Search this class, subclass—
37.4—for pyrotechnic devices having holding or supporting means and see the notes thereto.;

in subclass 22, note (2), cancel "20 and 21" and substitute: *20+*;

in subclass 26, cancel the note and substitute:

Search this class, subclass—
21.4—for well torpedoes with tamping means.
30—for other blasting plugs.;

in subclass 28, cancel the note and substitute:

Search this class, subclass—
70.2—and see the notes thereto for other electric igniters in this class.;

in subclass 31, cancel the notes and substitute:

Search this class, subclass—
6—for gas, incendiary or smoke drop bombs.
30—for cartridges containing or generating a noxious gas.
60—for shells with tracing or illuminating means.
65—for gas, incendiary or smoke grenades.
66—for gas, incendiary or smoke shells.
70+—for fuses, primers and igniting devices, per se, for pyrotechnic devices.
87—for miscellaneous devices with tracing or illuminating means.
90—for miscellaneous gas, incendiary or smoke devices.

Search Class—
67—ILLUMINATING BURNERS.
246—RAILWAY SWITCHES AND SIGNALS, subclass 487, for railway signaling torpedoes.;

in subclass 32, cancel note (2);

in subclass 33, add:

Search this class, subclass—
37.4+—for holders for firecrackers where no features of structure of the firecracker are claimed.;

establish the following subclass definitions:

34.1. Rockets under subclass 34 having any one or any combination of vanes (either stationary, or rotary or otherwise movable relative to the rocket body), wings for sustaining flight, a parachute or a balloon.

Search this class, subclass—
34.2—for rockets having one or more sticks that are neither in the form of or combined with vanes.
37.1—for pyrotechnic devices other than rockets having vanes, wings, parachute, balloon or propeller and see the notes thereto.

34.2. Rockets under subclass 34 having a stick or support other than or in addition to, the rocket casing.

(1) Note.—In some instances the support or stick is carried with the rocket in flight and is disclosed as stabilizing flight or as affecting the trajectory.

Search this class, subclass—
34.1—for sticks and supports in the form of, or combined with, vanes, wings, a parachute or a balloon.
37.4—for other pyrotechnic devices combined with a holder or support and see the notes thereto.

34.3. Rockets under subclass 34 having means by which gases from the interior of the rocket cause it to rotate about its axis during flight.

Search this class, subclass—
34.1—for vanes for causing rocket rotation.
51—for other projectiles having such means.

34.4. Rockets under subclass 34 having means for ejecting an article or charge from the casing without destroying the casing.

Search this class, subclass—
37.6—for other pyrotechnic devices having such means, and see the notes thereto.

34.5. Rockets under subclass 34 having two or more charges, and means for successively igniting the same. The rocket fuel may be one of the charges.

Search this class, subclass—
34.3—for plural, successively ignited charges in rockets rotated by gas discharge.
34.4—for this subject matter where the rocket has means to eject an article or charge from a casing.
37.7—for other pyrotechnic devices having plural, successively ignited charges and see the notes thereto.;

in subclass 35, in the definition, after "parachute", insert *or equivalent*

and after note (3), add:

Search this class, subclass—
37.1—for other pyrotechnic devices combined with vanes, wings, parachute, balloon or propeller, and see the notes thereto.
37.8—for other flares or torches and see the notes thereto.

Search Class—
89—ORDNANCE, subclass 1.5, for parachute flare dropping devices.;

establish the following subclass definitions:

35.2. Parachute flares under subclass 35, in which there are two or more distinct flares in the same or different casings.

Search this class, subclass—
37.7—for miscellaneous pyrotechnic devices having plural, successively ignited charges and see the notes thereto.

35.4. Parachute flares under subclass 35 having any one or any combination of (1) two or more parachutes, (2) a parachute of the vane type, or (3) means to restrain the complete opening of the parachute, e. g., means which will initially permit the parachute to partially open so as to slow down the rate of travel of the flare and then completely open.

35.6. Parachute flares under subclass 35 having means for ejecting either or both the flare or parachute from a casing without destroying the casing.

(1) Note.—The parachute and flare may remain connected to the casing or be completely separated from it.

(2) Note.—For means which burst the casing, release casing sections so that they separate to expose the parachute and/or flare, or which pull the parts from a casing (as distinguished from ejecting same) see subclass 35 or other appropriate indented subclass.

Search this class, subclass—
37.6—for other pyrotechnic devices having means to eject an article or material from a casing and see the notes thereto.;

abolish the definition and note of subclass 36;

establish the following subclass definitions:

37.1. Pyrotechnic devices under subclass 31 having any one or any combination of vanes, wings, parachute, balloon or propeller claimed as a part thereof.

Search this class, subclass—
2+—for drop bombs having such means, subclass 3 having movable devices for controlling direction, subclass 4 having parachutes or other drop retarding means.
9—for aerial mines.
21.8—for well torpedoes with vanes or other devices to contact the well walls to act as guides.
34.1—for rockets with vanes, wings, parachute or balloon.
35+—for parachute flares.
50+—for projectiles (for hand throwing or to be used in a gun or other projector) having stability imparting or trajectory affecting means.
81+, 86—for igniters having vanes or propellers to operate or control same.

Search Class—
46—AMUSEMENT DEVICES, TOYS, subclasses 74+, for aerial toys including flying propellers and subclasses 87+, for inflatable toys.
244—AERONAUTICS, subclasses 31+ and 138+, for balloons and safety lowering devices (including parachutes).

37.2. Pyrotechnical devices under subclass 31 either constructed to simulate some other device, or associated with a simulation.

(1) Note.—For example, included are a device that simulates a pine cone, a house that is destroyed, warships, volcano, tank, figure toy, pictorial representations, et cetera.

Search this class, subclass—
37.4+—for supports on which plural pyrotechnical devices may be arranged pictorially.

Search Class—
46—AMUSEMENT DEVICES, TOYS, for various types of toys made in simulation of other things.

37.3. Pyrotechnical devices under subclass 31 claimed in combination with means other than, or in addition to, (1) the casing of the device, (2) holding or supporting means therefor, (3) the pyrotechnical materials used, and (4) the fuse or igniter.

(1) Note.—For example, there are included the combination with a fluid fuel burner, merchandise or advertising matter to be distributed, a light reflector, et cetera.

37.4. Pyrotechnic devices under subclass 31 having a holder or support other than or in addition to its casing.

(1) Note.—Where a support or holder is disclosed, but not claimed, the patent has been placed in subclass 31 or other appropriate indented subclass and cross-referenced here.

Search this class, subclass—
8+—for mines buried in the earth, held or supported in water, or having overland propulsion means.
20+—for well torpedoes having cables for lowering or supporting the same in a well, and also for supporting means engageable with the walls of a well.
34.1, 34.2—for rockets having guiding vanes, sticks or other supports.
37.1—for pyrotechnic devices having vanes, wings, parachute, balloon or propeller and see the notes thereto for related art.
48—for bomb lances.
65.2, 65.4—for grenades having means to engage a gun or other projector, or having a throwing handle, handgrip or strand.
86.2—for igniters having a strand for operating the same which may be used for handling.

Search Class—
248—SUPPORTS, for supports in general.

37.5. Pyrotechnical devices under subclass 37.4 in which the support is either a wheel or other form of rotor, or involves means by which the device may be whirled about an axis.

Search Class—
46—AMUSEMENT DEVICES, TOYS, subclasses 47+, for non-pyrotechnical spinning and whirling toys.

37.52. Pyrotechnic devices under subclass 37.4 in which the support is in the form of a spike, and is operative to support the device by penetrating the ground, wood, et cetera.

37.6. Pyrotechnic devices under subclass 31 having means to eject an article or charge from the casing without destroying the casing.

Search this class, subclass—
5—for drop bombs with laterally directed barrels.
7.2—for drop bombs having ejecting means.
24+—for blasting cartridges.

32—for pyrotechnic cartridges.
34.4—for rockets with ejecting means.
35.6—for encased parachute flares with means to eject either or both the parachute or flare from the casing.
38+—for miscellaneous cartridges.
61—for shells with laterally directed barrels.
69—for shells comprising nested units, successively fired while in flight to impart impulses of the remaining portion.

37.7. Pyrotechnical devices under subclass 31 having two or more charges, and means for successively igniting the same.

Search this class, subclass—
7.2—for drop bombs with plural bursting charges.
11+—for fields or groups of marine type mines.
21.6—for well torpedoes involving plural explosive charges.
34.5—for pyrotechnic rockets with plural successively ignited charges.
35.2—for multiple parachute flares.
37.2—for successively ignited charges associated with simulations.
37.4+—for successively ignited charges associated with a holder or support.
37.6—for plural successively ignited charges, one of which functions to eject an article or material from a casing, and see the notes thereto for other art of this type.
40—for cartridges with divided propelling charge.
58—for shells with divided bursting charge.

37.8. Pyrotechnical devices under subclass 31 adapted to burn for an appreciable time as a signal or to illuminate an area.

(1) Note.—For torches having additional features provided for in the preceding coordinate subclasses, see such subclasses.

Search this class, subclass—
7—for marine type float torches.
35+—for parachute flares.
70+—for igniters per se for torches, including particularly in subclass 70 covers or closures associated with the torch to protect the igniter, and for igniters which utilize wires or rods imbedded in the igniter composition to reinforce the same.
90—and see the notes thereto for gas, incendiary or smoke devices in the class.

Search Class—
67—ILLUMINATING BURNERS, particularly subclasses 21+, for those that burn solid fuel.;

in subclass 50, cancel the definition and notes and substitute:

50. Devices under the class definition having means active after projection (as projection by hand, by a gun or by other means) to impart stability during flight or to vary the trajectory.

Search this class, subclass—
37.1—for pyrotechnic devices having vanes, wings, parachute, balloon or propeller and see the notes to such subclass for related art.
49—for projectiles with a propelling charge.
53—for non-ricocheting projectiles.
54—for marine type projectiles.
69—for plural shells.;

in subclass 51, add:

Search this class, subclass—
34.3—for rocket type pyrotechnic devices with means to cause rotation by gas discharge.;

in subclass 64, cancel the notes and substitute:

Search this class, subclass—
2+—for drop bombs.
37—for toy torpedoes.
70+—for fuses, primers and igniting devices for grenades, where only features pertaining to the structure, mounting or operating means of the fuse, primer or igniting device, are claimed, attention being particularly called to indented subclasses 81.6 and 85.6.

Search Class—
169—FIRE-EXTINGUISHERS, subclass 36, for fire extinguishing grenades.;

establish the following subclass definitions:

65.2. Grenades under subclass 64 having means for engaging or cooperating with a gun or other projector.

(1) Note.—For example, passageways so that a bullet from the gun may pass through the grenade, shafts or rods to enter the gun bore or other means to mount the same on a gun barrel or other projector for projection, are included.

65.4. Grenades under subclass 64 having a handle or a strand by means of which they are thrown, or having handgrip features to assist throwing.

Search this class, subclass—
37.4—for pyrotechnic devices having handles, handgrips or other forms of support, and see the notes thereto for other related art.;

cancel the definition and the note of subclass 70 and substitute:

70. Fuses, primers and igniting devices under the class definition for igniting or detonating combustible or explosive charges. Such devices are herein generically called fuses.

(1) Note.—The main casing for the material to be ignited and its combustible or explosive charge may be broadly recited, where no other features except the structure, mounting and operating means of the fuse, primer or igniting device are claimed.

(2) Note.—Where the claimed invention involves an organization involving two or more combustible or explosive charges, and the arrangement by means of which they are simultaneously or successively ignited, see other appropriate subclasses in this class, particularly subclasses 37.6 and 37.7 and the subclasses referred to in the notes to such subclasses.

(3) Note.—For igniters for devices other than the devices in this class, see the alphabetical index to the classification of patents, under the title "Igniters".

Search this class, subclass—
7—for fuses and igniters per se for marine type drop bombs, specially designed for operation in water, e. g., those operated by water flow or by hydrostatic pressure.
7.4—for drop bombs having a target contact anticipator for controlling or operating an igniter.
16+—for igniting devices for marine type mines.
19.2—for igniting devices for mines other than the marine type involving the use of electrical, magnetic wave or radiant energy, other igniting devices, per se, for mines other than those in subclasses 16+ and 19.2, being in subclasses 70+.
27+—for blasting fuses.
37.6—see note (2).
37.7—see note (2).
45+—for primer devices for cartridge cases.

Search Class—
57—TEXTILES, SPINNING, TWISTING AND TWINING, particularly subclasses 8, 164, and 165, for the manufacture of fuses by strand twisting operations.
67—ILLUMINATING BURNERS, subclasses 3+, for igniting devices, attention being particularly called to the pyrophoric, fulminating and catalytic igniters there classified.
86—AMMUNITION AND EXPLOSIVE-CHARGE MAKING, particularly subclass 1, for fuse making in general.
93—PAPER MANUFACTURES, subclass 78, for making fuses of paper tubes.;

establish the following subclass definition:

70.2. Fuses under subclass 70 in which features are claimed pertaining to the use of electrical, magnetic, wave or radiant energy.

(1) Note.—For example, electrical igniters, use of magnetic energy to hold parts together, use of light ray energy to initiate operation and means to receive radio waves to initiate operation are in this subclass.

Search this class, subclass—
7—for marine type drop bombs with electric ignition means.
18—for firing devices for marine type mines adapted to be actuated by wave energy, vibrations or sounds or a magnetic field.
19.2—for electric, magnetic, wave or radiant energy igniters for other mines.
28—for fuses for use in blasting that are fired by an electric current.
46—for primers mounted in the breech ends of cartridge cases and discharged by an electric current.;

in subclass 72, in the note, change "85" to *85+*;

in subclass 73, cancel the notes and substitute:

Search this class, subclass—
17—for firing devices for marine type mines operated by contact.
37—for toy torpedoes caused to ignite by impact with an objective.
71+—for fuses having both a time-controlled fuse and objective impact type fuse.
86.5—for charge primers per se even though of the percussion type.;

in subclass 76, cancel the notes and substitute:

Search this class, subclass—
17—for marine type mines having percussive fuses which are armed after the mine is positioned overboard.

85.2, 85.6—for powder train fuses having means movable relative to the rest of the fuse structure to cause ignition, and having safety means (similar to arming means in subclasses 76+) to render the same inactive for handling purposes.;

in subclass 78, cancel the note and substitute:

Search this class, subclass—
80—for centrifugal arming devices with an inertia member to release the same for operation.
85.2, 85.6—for powder train time fuses with inertia operated strikers to cause powder train ignition.;

cancel the definition and the note of subclass 81 and substitute:

81. Percussive fuses under subclass 76 wherein the fuse is armed by a vane or other means that is caused to move (1) by relative motion through air, or (2) by fluid pressure, which may be caused by relative motion through air or by means forming part of the fuse to generate fluid pressure.

Search this class, subclass—
7—for water pressure or flow operated igniters for marine type drop bombs.
86—for vane operated timing devices.;

establish the following subclass definitions:

81.2. Percussive fuses under subclass 81 in which there is a rotary vane for arming operated by relative motion of a fluid.

Search this class, subclass—
86—for devices in which operation of a vane times ignition.

81.6. Percussive fuses under subclass 76 wherein the fuse is armed by means that are manually released.

(1) Note.—For example, pins or other detents that are manually removed; external, spring biased levers held by the hand until the device is thrown, etc., are here.

Search this class, subclass—
85.6—for related devices for controlling a movable striker or igniter for a powder train time fuse.;

in subclass 82, add:

(0.5) Note.—For example, in this subclass are timers having dashpots, fluid pressure operated timers, use of solvent fluids for timing, catalytic timers, et cetera.;

cancel the definition and the notes of subclass 85, and substitute:

85. Time-controlled fuses under subclass 82 comprising a track of combustible material having a predetermined burning rate.

Search this class, subclass—
27—for powder trains used for blasting.
81+—for slow-burning pyrotechnic devices.
72—for powder train type device combined with a fuse operated by impact on a target.;

establish the following subclass definitions:

85.2. Powder train fuses under subclass 85 having some means for selecting the length of the powder track necessary to produce the time interval desired.

85.6. Powder train fuses under subclass 85 having some means, such as a striker or other device, movable relative to the rest of the fuse structure to cause ignition.

Search this class, subclass—
81.6—for related, manually released, arming means for fuses operated by impact on an objective.
85.2—for such devices combined with powder track length selecting means.;

in subclass 86, cancel the note and substitute:

Search this class, subclass—
81+—for devices in which operation of a vane conditions some means for operation upon impact upon an objective.
83—for vanes held stationary by air so that rotation of a shell relative thereto operates mechanical timing means.

establish the following subclass definition:

86.2. Fuses under subclass 70 (1) having a strand to initiate the operation of the fuse, or (2) having a weight for dropping on the fuse to initiate operation.

(1) Note.—In many of these devices, the strand is disclosed for lowering any explosive device in a well, but no features of the explosive device other than the fuse and its lowering strand (which is also the fuse operation initiator) are claimed.

Search this class, subclass—
20+—for strand lowered well torpedoes where features are claimed in addition to the fuse and strand.

117, Coating; Processes and Miscellaneous Products (Division 38)

in subclass 62, note (5), after "article,", insert: *whether or not they include a preparatory treatment of the coated base to receive the subsequent coating*;

and add the following note:

(7) Note.—For processes of applying different coatings to a base wherein a previously applied coating is treated preliminary to the application of a subsequent coating, see subclasses 69+.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING APRIL, 1944

NION CORPORATION *v.* BURROUGHS WELLCOME & Co. (U. S. A.) INC., Trade-Mark Interference No. 3428.

In a decision rendered April 4, 1944 (166 Ms. Dec. 462, 61 U. S. P. Q. 95), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences adjudging Nion Corporation to be the prior user and entitled to the registration of its mark in an interference proceeding involving the application of Burroughs Wellcome & Co. (U. S. A.) Inc., of New York, N. Y., appellant, filed May 19, 1942, for registration of the word "Avicap" as a trade-mark for a polyvitamin product containing six essential vitamins (A, D, B_1, B_2, C and nicotinic acid amide) encapsulated in gelatin; and the application of Nion Corporation, of Los Angeles, Calif., appellee, filed August 29, 1942, for registration of the word "Avicaps" as a trade-mark for a vitamin product containing 25,000 units of vitamin A encapsulated in gelatin.

After noting that the parties are in agreement that their trade-marks and goods to which the marks are respectively applied are substantially identical; that the fact of appellant's priority of adoption and use is conclusively established by the evidence and stating appellant's contention that because such prior use occurred only in foreign commerce, appellee has not acquired ownership of the mark within the meaning of the statute, it was held that ownership of a trade-mark can result only from its use, and that the use upon which ownership is predicated must occur in this country, but that the use need not be a use in domestic commerce.

It was held that appellee owns the mark as used and is entitled to its registration since appellee's business is conducted in the State of California, where its product is manufactured, for shipment abroad; in California the trade-mark is affixed to the goods, openly and in the regular course of business; it is there that orders are received and filled, and it is there that appellee is engaged in commerce with foreign nations.

EX PARTE BRONDOW CHEMICAL CO., Serial No. 463,413.

In a decision rendered April 8, 1944 (166 Ms. Dec. 466, 61 U. S. P. Q. 150), *First Assistant Commissioner Frazer* denied a petition from the refusal of the Examiner of Trade-Marks to register to Brondow Chemical Co., of New York, N. Y., a trade-mark in two classes upon one application.

It was held that clearly the statute permits registration "on a single application," only for such goods as are "comprised in a single class of merchandise," as established by the Commissioner of Patents under the statutory mandate.

DWINELL-WRIGHT COMPANY *v.* NATIONAL FRUIT PRODUCT COMPANY, INC., Cancellation No. 3929.

In a cancellation proceeding involving Dwinell-Wright Company, of Boston, Mass., and National Fruit Product Company, Inc., of Winchester, Va., *First Assistant Commissioner Frazer* on April 8, 1944, rendered a decision (166 Ms. Dec. 465, 61 U. S. P. Q. 150) denying a petition in which the party Dwinell-Wright Company sought a review and reversal of the decision of the Examiner of Interferences denying its motion that the testimony, depositions and exhibits offered in evidence in a recently decided trade-mark infringement suit, be admitted in evidence in this proceeding in so far as the same are relevant and material.

After noting that petitioner, in bringing its motion, sought to invoke the provisions of patent rule 157 by virtue of rule 60 relating to the registration of trade-marks, it was held that no degree of liberality in construction would justify the reading of language into the rule that is not there; and obviously an infringement suit is not an interference proceeding.

THE BLACK AND DECKER MANUFACTURING COMPANY *v.* AVIATION MANUFACTURING CORPORATION (THE AVIATION CORPORATION, ASSIGNEE, SUBSTITUTED), Opposition No. 21,292.

In a decision rendered April 11, 1944 (166 Ms. Dec. 468, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dimissing the opposition of The Black and Decker Manufacturing Company, of Towson, Md., to the application of Aviation Manufacturing Corporation (The Aviation Corporation, assignee, substituted), of New York, N. Y., for registration of a trade-mark for internal combustion aircraft engines and parts thereof, exclusive of ignition parts, packing, and hose, the opposition being predicated upon opposer's prior use and registration of a mark for various portable tools.

After noting that both marks include a hexagon, a circle and a pair of wings; but in proportion and configuration the two combinations of these several elements differ considerably; and in the absence of literal features, it may be that the designs would be too much alike to be applied to merchandise of the same descriptive properties without likelihood of confusion, it was held that since neither design is used alone, the marks must be viewed in their

entirety, and when so viewed the marks are free of confusing similarity, even were they appropriated to more nearly related goods than those here involved.

It was held that the Examiner of Interferences rightly ruled that opposer's goods and those of applicant are of different descriptive properties.

As to a second registration to opposer of a similar mark for various articles of merchandise, including air pumps and compressors, it was held that they are, broadly speaking, goods of the same descriptive properties as applicant's aircraft engines but that the marks of the parties are sufficiently different that there would be no reasonable likelihood of confusion, bearing in mind that air pumps and compressors, like internal combustion engines, are expensive merchandise and are purchased with care and discrimination, so that there is thus less danger that slightly similar trade-marks may be confused than is the case where goods are cheap and are purchased more or less casually.

EX PARTE EUGENE DIETZGEN CO., Serial No. 444,964.

In a decision rendered April 12, 1944 (166 Ms. Dec. 470, 61 U. S. P. Q. 151), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks refusing to register to Eugene Dietzgen Co., of Chicago, Ill., the word "Ageproof" as a trade-mark for drawing and tracing paper, and prepared fabric for tracing and drafting purposes.

The Examiner had held that the mark is descriptive of the goods in that the mark affirms that the goods are proof against deterioration with age, but it was held that while unquestionably the mark suggests that idea, the suggestion is too fantastic to be taken seriously by purchasers; in other words, the mark suggests a desirable characteristic of the goods through emphasis by exaggeration; if given its literal meaning, it is so palpably untrue as to be incongruous, so that, under the doctrine of the cited cases, the mark thus falls short of being merely descriptive.

E. I. DU PONT DE NEMOURS & COMPANY *v.* CELANESE CORPORATION OF AMERICA, Opposition No. 22,260.

In a decision rendered April 17, 1944 (166 Ms. Dec. 472, 61 U. S. P. Q. 193), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of E. I. du Pont de Nemours & Company, of Wilmington, Del., to the application of Celanese Corporation of America, of New York, N. Y., for registration of the word "Clarifoil" as a trade-mark for transparent or translucent wrapping and packing material.

Opposer relied upon its ownership of a trade-mark which was registered some eleven years before applicant's mark was first used, which is appropriated to a variety of merchandise, part of which is substantially identical with that described in the opposed application. The registered mark consists in the name "du Pont" printed in capital letters and inclosed in an oval border, above the notation "Clar-apel."

Notwithstanding applicant's argument that because of the inclusion in opposer's mark of the name "du Pont," the marks are not confusingly similar, it was held that the addition of a surname to one of two otherwise confusingly similar marks is not, in itself, sufficient to avoid the likelihood of confusion. Although the surname lends distinctiveness in appearance, and the two marks under consideration differ somewhat in their suggestive significance, nevertheless it was held that obviously the spoken expressions "Clar-apel" and "Clarifoil" sound very nearly alike; and similarity in sound alone is sufficient to constitute confusing similarity between marks.

WESTGATE SEA PRODUCTS COMPANY *v.* VAN CAMP SEA FOOD CO., INC., Cancellation Nos. 4112, 4113, 4114 and 4115.

In a decision rendered April 22, 1944 (166 Ms. Dec. 473, 61 U. S. P. Q. 216), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences, who sustained four petitions filed by Westgate Sea Products Company, of San Diego, Calif., to cancel four trade-mark registrations issued to Van Camp Sea Food Co., Inc., of Terminal Island, Calif.

The trade-marks involved are "Chickadee" and "Chickey," both registered October 1, 1929; "Sea Chicken," registered March 3, 1931; and "Chic-I-Nuna," registered February 12, 1935, all for canned fish.

After noting that the only question for determination is whether these marks have been abandoned and that the decision to be made is whether the dealer may adopt marks and obtain registrations thereon as bastions of defense for the mark which it uses, then shelve such marks except as the registrations therefor may be used as statutory evidence in oppositions and cancellations, and then when cancellation thereof is threatened by reason of such misuse * * * make a single slight use thereof and * * * contend that such slight use after a long period of years prohibits the inference of abandonment, it was held that such proposition refutes itself, and that upon the record presented, the Examiner of Interferences rightly ruled that these marks have been abandoned.

EX PARTE TRIMZ COMPANY, INC., Serial No. 458,828.

In a decision rendered April 24, 1944 (166 Ms. Dec. 475, 61 U. S. P. Q. 217), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks who had declined to register to Trimz Company, Inc., of Chicago, Ill., the word "Trimz," under the provisions of the act of February 20, 1905, as a trade-mark for table mats, doilies, wallpaper, and paper borders on the ground that the mark as a phonetic equivalent of the word "trims" is descriptive of the goods.

On October 7, 1941, this same mark was registered to applicant for table mats or doilies and paper borders, but on discovering that there was an error in the registration, not chargeable to the Patent Office, which the attorneys were advised could be corrected only by filing a new application for registration, accompanied by a request that the former registration be canceled, applicant filed a new application, the former registration was canceled and the new application, the present one, was rejected.

After noting that it may be that the Examiner was right in holding the mark to be descriptive of applicant's goods, it was held that there is room for doubt upon the question, and, under the peculiar circumstances of the case, such doubt should be liberally resolved in applicant's favor.

ILWACO OYSTER COMPANY, INC. *v.* WALDPORT SEA FOOD CO., INC., Opposition No. 22,159.

In a decision rendered April 27, 1944 (166 Ms. Dec. 483, 61 U. S. P. Q. 230), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Ilwaco Oyster Company, Inc., of Ilwaco, Wash., to the application of Waldport Sea Food Co., Inc., of Newport, Oreg., for registration of the notation "Pacific Spray" as a trade-mark for canned crab meat; and also refusing the registration applied for, ex parte, in the absence of a disclaimer of the word "Pacific," which the Examiner held to be merely geographical.

After noting that the word "Pacific" is perhaps not "merely" geographical, because its primary significance is other than that of the name of an ocean, it was held that as applied to sea food, it is geographically descriptive in that it indicates the source of the product so that, should applicant's mark finally be held registrable, an appropriate disclaimer will be required.

The opposition was predicated upon opposer's ownership of the trade-mark "Northern Spray," registered for canned oysters some six years prior to applicant's first use of its "Pacific Spray" mark. Opposer's labels of record describe the goods sold under the registered mark as "extra fancy Pacific oysters."

It was held that manifestly the goods of the parties are closely related merchandise of the same descriptive properties, which one might naturally assume to be produced by the same concern, so that their sale under marks so similar as "Northern Spray" and "Pacific Spray" would be reasonably likely to cause confusion, particularly in view of the fact that the word "Pacific" in applicant's mark is purely descriptive.

CRANBERRY CANNERS, INC. *v.* WALDPORT SEA FOOD CO., INC., Opposition No. 22,160.

In a decision rendered April 27, 1944 (166 Ms. Dec. 477, 61 U. S. P. Q. 231), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Cranberry Canners, Inc., of Hanson, Mass., to the application of Waldport Sea Food Co., Inc., of Newport, Oreg., for registration of the notation "Pacific Spray" as a trade-mark for canned crab meat, on the ground that applicant's mark is confusingly similar to the trade-mark "Ocean Spray," previously registered to opposer for canned cranberries. The Examiner also adjudged that the applicant is not entitled to the registration sought in the absence of a disclaimer of the word "Pacific," which word the Examiner held to be geographical.

It was held that the goods of the parties possess the same descriptive properties.

After noting that in association with either "Pacific" or "Ocean," the word "Spray," of course, connotes waves; and spray from the waves of the Pacific Ocean is ocean spray, just as truly as it is Pacific spray, it was held that because of this near identity in significance, the use of the two expressions as trade-marks for merchandise of the same descriptive properties, even though specifically different, might reasonably be expected to result in confusion, and any doubt in that regard must be resolved in opposer's favor.

It was held that while the word "Pacific" in applicant's mark is not "merely" geographical, in the sense that it would be nonregistrable for any class of merchandise, it is clearly descriptive of crab meat in that it indicates geographical origin, so that purchasers would be likely to assume that applicant's crab meat is a product of the Pacific Ocean and so that, should applicant finally prevail in the opposition proceeding, it will be called upon to disclaim the word "Pacific" as a prerequisite to the registration of its mark.

EX PARTE DISTRIBUTION AND WAREHOUSING PUBLICATIONS, INC., Serial No. 457,116.

In a decision rendered April 28, 1944 (166 Ms. Dec. 479, 61 U. S. P. Q. 233), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks declining to register to Distribution and Warehousing Publications, Inc., of New York, N. Y., a mark under the provisions of the act of February 20, 1905, for goods described in the application as "a section of a periodical and a periodical publication." The mark sought to be registered is the notation "Air Cargo," displayed in association with a design in which is incorporated the nose portion of an airplane, the notation being used as a title in each instance. The Examiner held the notation to be descriptive of the subject matter of applicant's publications.

After noting the former practice for many years, both in the Patent Office and in the courts, to per-

mit the registration of titles of printed publications as trade-marks, even though more or less descriptive, it was held that in the Patent Office such practice has been discontinued and now the same test as to mere descriptiveness has been applied to this class of marks as to those used on other kinds of merchandise because, since the registration of purely descriptive trade-marks is clearly a violation of the law, it is better for the Patent Office to comply with the law rather than to follow the precedents that have been followed throughout the years.

BARBER ASPHALT CORPORATION *v.* STEELCOTE MANUFACTURING COMPANY, Cancellation No. 4139.

In a decision rendered April 29, 1944 (166 Ms. Dec. 481, 61 U. S. P. Q. 234), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the petition of Barber Asphalt Corporation, of Perth Amboy, N. J., to cancel trade-mark registration No. 396,739, issued July 28, 1942, under the provisions of the act of March 19, 1920, to Steelcote Manufacturing Company, of St. Louis, Mo., respondent's mark being appropriated to ready-mixed paints and enamels and being a composite mark comprising the representation of a brush and brush stroke, the brush stroke bearing the notation "Lay-Tite" below which appears in small letters the notation "Rubber Base Coating."

Petitioner relied upon two registrations, both granted under the provisions of the act of February 20, 1905, but it was held that only one need be considered. That one was issued May 25, 1920, and has been renewed. The mark of this registration is essentially the word "Latite," and the goods to which it is appropriated are shingles. It was originally issued to a third party, but respondent has stipulated that it is owned by and was renewed to petitioner, and ownership implies use.

It was held that the goods of the parties are goods of the same descriptive properties.

It was further held that respondent's mark is dominated by the notation "Lay-Tite," which is phonetically indistinguishable from petitioner's word, "Latite," so that it requires no argument to demonstrate that the marks are thus confusingly similar.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 30, 1944

[VOL. 562. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 459,014. REDWOOD FIBRE PRODUCTS COMPANY, INC., Santa Cruz, Calif. Filed Mar. 10, 1943.

Sani-Soil

FOR COMMINUTED REDWOOD BARK TO BE USED AS A MULCH TO INSULATE AND CONDITION THE SOIL.

Claims use since Nov. 1, 1941.

Ser. No. 466,847. POLAR FUR DYEING CO. INC., New York, N. Y. Filed Jan. 24, 1944.

GENUINE Wallabeaver BEAVER-DYED WALLABY

The words "Genuine" and "Beaver-dyed Wallaby" are disclaimed apart from the mark.

FOR WALLABY FUR SKINS DYED TO LOOK LIKE BEAVER.

Claims use since Jan. 1, 1943.

Ser. No. 468,214. WEST KENTUCKY COAL COMPANY, Rockleigh, N. J., Earlington, Memphis, and Nashville, Tenn., Louisville, Sturgis, and Paducah, Ky., Chicago, Ill., St. Louis, Mo., and Evansville, Ind. Filed Mar. 11, 1944.



FOR COAL.

Claims use since Dec. 1, 1941.

CLASS 2

RECEPTACLES

Ser. No. 464,071. SIMPLEX PAPER CORPORATION, Adrian, Mich. Filed Oct. 11, 1943.

GLOBAL S

FOR LINERS FORMED AND SHAPED FOR CONTAINERS.

Claims use since Sept. 22, 1943.

Ser. No. 465,014. TRAVER CORPORATION, Chicago, Ill. Filed Nov. 15, 1943.

Traversheen

FOR MERCHANDISE ENVELOPES.

Claims use since Apr. 10, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 468,185. SIEGBERT WETTERHAHN, doing business as Essway Manufacturing and Trading Co., New York, N. Y. Filed Mar. 10, 1944.

ESSWAY

FOR COMPACTS AND VANITY CASES SOLD IN TRADE EMPTY, BILLFOLDS, WALLETS, PURSES, POCKETBOOKS, WRITING CASES, BRIEFCASES, PLAYING CARD CASES, KEY CASES, ROSARY CASES, AND PHOTOGRAPH CASES, ALL OF SAID GOODS BEING MADE OF LEATHER.
Claims use since Feb. 19, 1944.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 444,204. LOIS I. SMITH, Klamath Falls, Oreg. Filed June 4, 1941.

SILVER GLEAM

Applicant disclaims the word "Silver" apart from the mark.
FOR POLISH FOR SILVERWARE, CHROMIUM, MIRRORS, WINDSHIELDS, NICKEL, WINDOWS, AND FOR SIMILAR USES.
Claims use since Apr. 21, 1941.

Ser. No. 466,160. J N T MFG. COMPANY INC., New York, N. Y. Filed Dec. 29, 1943.

CLEANAMEL

FOR CLEANER FOR VENETIAN BLINDS, WOODWORK, PAINTED FURNITURE, REFRIGERATORS, ENAMELED STOVES AND OTHER ENAMELED SURFACES.
Claims use since Oct. 27, 1939.

Ser. No. 466,165. J N T MFG. COMPANY INC., New York, N. Y. Filed Dec. 29, 1943.

JNT

FOR FABRIC SPOT REMOVER AND CLEANER; MOTH RESISTANT CLEANER FOR FABRICS, UPHOLSTERY AND RUGS.
Claims use since Sept. 3, 1937.

Ser. No. 466,166. J N T MFG. COMPANY INC., New York, N. Y. Filed Dec. 29, 1943.

JNT VARNA-SMOOTH

The drawing is lined for red.
FOR PREPARATION FOR REMOVING STAINS AND HEAT RINGS FROM VARNISH, LACQUER, SHELLAC, AND METAL SURFACES.
Claims use since Nov. 19, 1934.

Ser. No. 466,524. BRICO CORPORATION, New York, N. Y. Filed Jan. 13, 1944.

BRICO

FOR CHEMICAL PASTE WHICH IS COMPLETELY DISSOLVED IN WATER AND USED AS A LIQUID SOLUTION FOR SUCH PURPOSES AS WASHING LAUNDRY, WASHING DOGS; REMOVING IODINE STAINS, ETC., SAID GOODS BEING COMPLETELY NON-ABRASIVE.
Claims use since January 1943.

Ser. No. 468,956. FAIRCHILD BROS. AND FOSTER, New York, N. Y. Filed Apr. 3, 1944.

pHisoderm

FOR LATHERING, EMOLLIENT AND DETERGENT PREPARATION.
Claims use since Mar. 3, 1944.

CLASS 5

ADHESIVES

Ser. No. 463,353. I. F. LAUCKS, INC., Seattle, Wash. Filed Sept. 11, 1943.

SPOTWELD

FOR GLUE.
Claims use since Aug. 24, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 461,932. FOSTER H. POLAND, High Point, N. C. Filed July 8, 1943.

ARMOR

AN ARMOR BETWEEN YOUR HANDS AND DIRT

No claim is made to the words "Between Your Hands and Dirt" apart from the mark.
FOR SKIN CREAM.
Claims use since Mar. 20, 1943.

Ser. No. 463,236. ROSAL LABORATORIES, LIMITED, Miami, Fla., and Philadelphia, Pa. Filed Sept. 4, 1943.

Shai

FOR PERFUMES, TOILET WATER, COLD CREAM, FACE POWDER, LIPSTICK, AND ROUGE.
Claims use since July 15, 1943.

Ser. No. 463,718. THE BOYD MANUFACTURING COMPANY, INC., Birmingham, Ala. Filed Sept. 27, 1943.

BLACK CAT

FOR FACE CREAMS, TALCUM POWDERS, FACE POWDERS, PERFUMES, AND TOILET WATERS.
Claims use since June 4, 1919.

Ser. No. 463,720. THE BOYD MANUFACTURING COMPANY, INC., Birmingham, Ala. Filed Sept. 27, 1943.

Wavine

FOR HAIRDRESSING PREPARATION.
Claims use since Oct. 23, 1917.

Ser. No. 463,923. HERMAN BERGER, doing business as Standard Pharmaceutical Co., New York, N. Y. Filed Oct. 6, 1943.

NUCARPON

FOR LAXATIVES.
Claims use since Sept. 7, 1942.

Ser. No. 464,548. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Oct. 30, 1943.

PENNEX-A

FOR INDUSTRIAL CHEMICALS SOLD IN BULK—NAMELY, CAUSTIC ALKALI, CALCIUM HYPOCHLORITE, AMMONIUM PERSULPHATE, SODIUM PERBORATE, POTASSIUM PERMANGANATE, MANGANESE SULPHATE AND MIXTURES OF SODIUM HYDROXIDE AND CALCIUM HYPOCHLORITE, SODIUM HYDROXIDE AND AMMONIUM PERSULPHATE, SODIUM HYDROXIDE AND SODIUM PERBORATE, AND SODIUM HYDROXIDE AND POTASSIUM PERMANGANATE.
Claims use since 1933.

Ser. No. 465,330. FURMAN WILLIAMS, Canadian, Tex. Filed Nov. 26, 1943.

SON-NOS'

FOR COSMETIC ASH CONSISTING OF A MINED CLAY, DRIED AND PULVERIZED TO BE MIXED WITH A GIVEN QUANTITY OF WATER AND THEN APPLIED AS A FACIAL MASQUE FOR TREATMENT OF THE SKIN.
Claims use since July 1, 1943.

Ser. No. 467,141. JOE J. WILLETTE and ELIZABETH A. WILLETTE, North Ellsworth, Maine. Filed Feb. 3, 1944.

STEP-O

FOR LINIMENT FOR LEG CRAMPS AND BUNIONS.
Claims use since Dec. 31, 1943.

Ser. No. 467,160. MACDERMID INCORPORATED, Waterbury, Conn. Filed Feb. 4, 1944.

DURODEX

FOR DRY ALKALINE-CLEANSING PREPARATIONS IN THE NATURE OF SOLUBLE SALTS FOR CLEANING METALS PREPARATORY TO PLATING, BUFFING, AND OTHER OPERATIONS.
Claims use since September 1939.

Ser. No. 467,227. WALLY BLAUSTEIN, doing business as Les Parfums Corot, New York, N. Y. Filed Feb. 7, 1944.



FOR PERFUME, TOILET WATER, EAU DE COLOGNE, HAIR LOTION, BRILLIANTINE, HAND LOTION, FACE LOTION, LIPSTICK, BATH OIL, HAND CREAM, CLEANSING CREAM, VANISHING CREAM, TALC POWDER, FACE POWDER.
Claims use since Aug. 1, 1943.

Ser. No. 467,417. THE VARNITON COMPANY, Los Angeles, Calif. Filed Feb. 14, 1944.

CATALYST "A"

No claim is made to the word "Catalyst" apart from the mark.
FOR CHEMICAL CATALYST FOR COMBINATION WITH CHEMICALS IN ACADEMIC DEMONSTRATIONS PRODUCING COLORED CHEMILUMINESCENCE, OR, IN OTHER WORDS, AN ORGANO METALLIC COMPLEX COMPOUND CONTAINING NITROGEN.
Claims use since April 1941.

Ser. No. 467,446. EDWARD T. CURRAN, doing business as Borea, Brooklyn, N. Y. Filed Feb. 16, 1944.

BOREA

FOR SKIN EMOLLIENT.
Claims use since Apr. 1, 1942.

Ser. No. 467,781. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 26, 1944.

FERMATE

FOR AGRICULTURAL FUNGICIDE.
Claims use since Apr. 17, 1942.

Ser. No. 467,796. SKOL COMPANY, INC., New York, N. Y. Filed Feb. 26, 1944.

SKOL

FOR INSECT REPELLENT LOTION.
Claims use since Feb. 17, 1944.

Ser. No. 467,957. BROEMMEL'S PHARMACEUTICALS, San Francisco, Calif. Filed Mar. 4, 1944.

ACTILAMIDE

FOR NASAL DROPS, NASAL SPRAY, AND THROAT SPRAY.
Claims use since Feb. 1, 1943.

Ser. No. 468,048. DAVID THALL, doing business as Thall's Home Remedies, Manchester, N. H. Filed Mar. 7, 1944.



The mark consists of applicant's portrait.
FOR COUGH SYRUP TO RELIEVE DRY COUGH DUE TO MILD COLDS; A MILD STIMULANT DIURETIC TO THE KIDNEYS; AN IRON RESTORATIVE TONIC; A NERVINE; A MILD DIGESTIVE, INDICATED AS A STOMACHIC TO RELIEVE MINOR BILIOUS COLIC AND FOR OCCASIONAL DIARRHOEA; A PREPARATION TO RELIEVE MINOR MUSCULAR ACHING PAINS AND SIMPLE NEURALGIA; A NUTRITIVE TONIC; A LAXATIVE AND FOR OCCASIONAL CONSTIPATION; A MILD ALTERATIVE INDICATED FOR MINOR SKIN IRRITATIONS AND MINOR ACNE; A PREPARATION USED AS A ROUND WORM EXPELLER AND A MILD LAXATIVE; A MILD RESTORATIVE TONIC AND A MILD STIMULANT; A PREPARATION TO RELIEVE BRONCHIAL IRRITATIONS AND FOR DISORDERS OF RESPIRATION DUE TO MILD COLDS; A VEGETABLE COMPOUND, INDICATED AS A VEGETABLE TONIC; A FEEBLE DIURETIC; A LINIMENT TO RELIEVE MINOR MUSCULAR ACHING PAINS, SIMPLE NEURALGIA AND SPRAINS; A PREPARATION USED FOR SCALP TREATMENT, INDICATED TO REMOVE DANDRUFF, TO SOFTEN DRY SCALY SCALP, TO RELIEVE ITCHING, AND TO KEEP THE HAIR IN PLACE; AN OINTMENT TO RELIEVE ITCHING PIMPLES AND AS A RELIEF FOR MINOR ACNE AND MINOR SKIN IRRITATIONS; AN OINTMENT TO RELIEVE ITCHING AND BURNING OF MINOR ECZEMA, PIMPLES, SUNBURN, AND MINOR SKIN IRRITATIONS; AN OINTMENT TO RELIEVE MINOR ACHING PAINS, ITCHING AND MINOR IRRITATIONS OF THE RECTUM; AN OINTMENT TO RELIEVE MINOR SKIN IRRITATIONS AND AS AN APPLICATION FOR MINOR WOUNDS AND MINOR CUTS; AN OINTMENT TO RELIEVE MINOR MUSCULAR ACHING PAINS, SIMPLE NEURALGIA AND SPRAINS; TABLETS INDICATED TO RELIEVE MINOR MUSCULAR ACHING PAINS, SIMPLE NEURALGIA, AND HEADACHES DUE TO MILD COLDS; EFFERVESCENT TABLETS, INDICATED AS A MILD DIURETIC AND URINARY ANTISEPTIC; TABLETS INDICATED TO RELIEVE MILD INDIGESTION AND GAS; POWDER USEFUL FOR NOSE AND THROAT SPRAYS AND MINOR IRRITATIONS OF THE THROAT EFFECTED BY MILD COLDS; FOOT POWDER USEFUL TO ELIMINATE FOOT ODOR, TO ABSORB SKIN MOISTURE FROM TENDER FEET; POWDER USEFUL AS A MILD ANTISEPTIC FOR A DOUCHE OR A WASH; NOSE AND THROAT INHALANT USEFUL, FOR NOSE AND THROAT SPRAYS TO RELIEVE IRRITABLE CONDITIONS OF THE NOSE AND THROAT DUE TO MILD COLDS; EARACHE DROPS AND TOOTHACHE DROPS.
Claims use since Jan. 15, 1929.

Ser. No. 468,101. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed Mar. 9, 1944.

TOBACOSE

FOR PREPARATION DERIVED FROM STARCH CONVERSION PRODUCTS TO BE USED AS A HUMECTANT FOR CHEWING AND SMOKING TOBACCO.
Claims use since Feb. 19, 1944.

Ser. No. 468,213. VIRGINIA CHEMICAL CORPORATION, Piney River, Va. Filed Mar. 11, 1944.

FEEDPHOS

FOR DEFLUORINATED PHOSPHATE.
Claims use since Nov. 16, 1943.

Ser. No. 468,300. DOROTHY A. LONG, doing business as Dawnwood Farm, Amenia, N. Y. Filed Mar. 14, 1944.

UDDEROLE

FOR SALVE FOR TREATING INFLAMED AND SWOLLEN UDDERS OF COWS.
Claims use since Feb. 17, 1944.

Ser. No. 468,358. U. S. INDUSTRIAL CHEMICALS, INC., New York, N. Y. Filed Mar. 16, 1944.

SPAR

FOR ANTI-CORROSION COMPOUND FOR USE IN RADIATORS OF INTERNAL COMBUSTION ENGINES.
Claims use since Jan. 12, 1944.

Ser. No. 468,378. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 17, 1944.

MUTAC

FOR CHEMICAL COMPOSITION FOR MODIFYING COMPOUNDS OF RUBBER AND SYNTHETIC RUBBER, AND RUBBER AND SYNTHETIC RUBBER COMPOUND TREATED THEREWITH FOR USE IN THE MANUFACTURE OF VULCANIZED RUBBER GOODS.
Claims use since Feb. 26, 1940.

Ser. No. 468,391. POLK MILLER PRODUCTS CORP., Richmond, Va. Filed Mar. 17, 1944.



FOR DISINFECTANT.
Claims use since Feb. 21, 1944.

Ser. No. 468,404. THE WELLA CORPORATION, New York, N. Y. Filed Mar. 17, 1944.

8 FOLD

"8 Fold" is not claimed apart from the mark.
FOR PERMANENT WAVE SOLUTION.
Claims use since Mar. 13, 1942.

Ser. No. 468,488. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J. Filed Mar. 21, 1944.

Loshol

FOR HAND LOTIONS, HAND CREAMS, AND ASTRINGENTS.
Claims use since Mar. 1, 1944.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 465,407. AMERICA'S OWN MATCH COMPANY, New York, N. Y. Filed Dec. 1, 1943.



All wording except "Ideal" and "Own" is disclaimed apart from the mark. The drawing is lined for blue and red.
FOR MATCHES.
Claims use since January 1934.

Ser. No. 465,408. AMERICA'S OWN MATCH COMPANY, New York, N. Y. Filed Dec. 1, 1943.



All wording except "Ideal" and "Own" is disclaimed apart from the mark. The drawing is lined for red and green.

FOR MATCHES.

Claims use since January 1934.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 465,995. THE SULLIVAN COMPANY, Memphis, Tenn. Filed Dec. 22, 1943.

GARDEX

FOR SPECIALLY PREPARED BITUMINOUS COMPOUND FOR USE AS A WATERPROOF PRESERVATIVE, RUST PROOFING, OIL AND ACID RESISTING COATING FOR CONCRETE AND STEEL.

Claims use since May 18, 1934.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 443,503. G. G. GREENE MANUFACTURING CORPORATION, Warren, Pa. Filed May 12, 1941.



FOR METAL STAMPINGS AND HARDWARE—NAMELY, FURNITURE LEG ADJUSTERS, BED RAIL AND BEDSTEAD FASTENERS, BOX CORNER FASTENERS, DESK TOP FASTENERS, PAIL AND TUB FASTENERS, TABLE TOP FASTENERS, HOOKS FOR BLINDS, SHUTTERS, DOORS, WINDOW SCREENS AND SCUTTLES, THREADED BOLTS, METAL BRACES, BRACKETS, HINGES, CLASPS, DRAWER CLIPS, MIRROR AND PICTURE CLIPS, WALL CLIPS FOR HOLDING TOOLS, PIPE COUPLINGS, CORNERS, METAL DOWELS, DRAWER AND DOOR PULLS, ESCUTCHEONS, TABLE TOP EVENERS, SLIDE FASTENERS, FURNITURE GLIDES, DOOR, CHEST AND DRAWER HANDLES, METAL CAN HANDLES, HASPS, CARD, LABEL AND DOOR HOLDERS, HOOKS, DOOR KNOBS, LIFTS, NUTS, DOOR PLATES, WEAR PLATES, FLAG HALYARD PULLEYS, CURTAIN AND CLOTHESLINE PULLEYS, CHAIR RODS, SCREWS, SCREW EYES, FENCE STAPLES, CARPET STAPLES, HASP STAPLES, MACHINE STAPLES, METAL WASHERS, FURNITURE CASTERS, TABLE TOP GUIDES, BROOM HOLDERS.

Claims use since January 1939.

CLASS 15

OILS AND GREASES

Ser. No. 468,294. INDUSTRIAL RAW MATERIALS CORPORATION, New York, N. Y. Filed Mar. 14, 1944.

VELATRUM

FOR PETROLEUM WAX USED FOR CANDLES AND MINERAL WAX.

Claims use since Dec. 11, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 466,848. WILLIAM B. SALEH, doing business as The Mir-A-Lite Co., Chicago, Ill. Filed Jan. 24, 1944.

Lustone

FOR POLISH AND CLEANER FOR FURNITURE, AUTOMOBILES, AND WOODWORK.

Claims use since September 1938.

Ser. No. 468,290. INDUSTRIAL RAW MATERIALS CORPORATION, New York, N. Y. Filed Mar. 14, 1944.

INDRALATUM

FOR WAX USED FOR POLISHING FLOORS, FURNITURE, AND THE LIKE.

Claims use since Dec. 11, 1943.

Ser. No. 468,295. INDUSTRIAL RAW MATERIALS CORPORATION, New York, N. Y. Filed Mar. 14, 1944.

VELATRUM

FOR WAX USED FOR POLISHING FLOORS, FURNITURE, AND THE LIKE.

Claims use since Dec. 11, 1943.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 468,370. JOHN BEIRO, New York, N. Y. Filed Mar. 17, 1944.



No claim is made to the word "Cigar" apart from the mark. The drawing is lined for red and green.

FOR CIGARS.

Claims use since August 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 459,993. GENERAL DIE STAMPING TOOL COMPANY, New York, N. Y. Filed Apr. 19, 1943.

Roto-sho

No claim is made to the syllable "Sho" apart from the mark.

FOR ELECTRIC REVOLVING TABLE FOR MERCHANDISE DISPLAY PURPOSES.

Claims use since January 1940.

Ser. No. 461,519. LISTER-BLACKSTONE, INC., West Allis, Wis. Filed June 19, 1943.

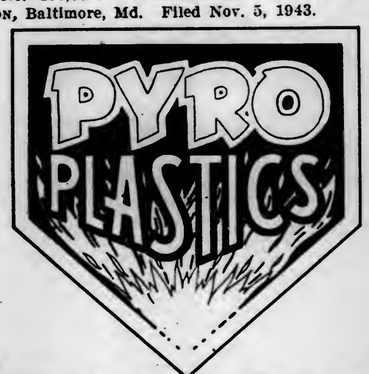


The cross-hatching on the drawing indicates shading only.

FOR PORTABLE ELECTRIC FLOODLIGHT AND SEARCHLIGHT UNITS EMBRACING THEIR OWN ENGINE DRIVEN ELECTRIC GENERATORS.

Claims use since Mar. 1, 1943.

Ser. No. 464,751. INTERNATIONAL PRODUCTS CORPORATION, Baltimore, Md. Filed Nov. 5, 1943.



Applicant disclaims the word "Plastic" except as shown.

FOR COMPOSITE ELECTRICAL INSULATING MATERIAL COMPRISING A HOT PRESSED ELECTRICAL INSULATING BASE, THE PARTICLES OF WHICH ARE BONDED WITH A LOW FUSING POINT GLASS, AND HOT PRESSED ELECTRICAL INSULATING MATERIAL COMPRISING ELECTRICAL INSULATING MICA, THE PARTICLES OF WHICH ARE BONDED WITH A LOW FUSING POINT GLASS, SAID MATERIAL BEING IN GENERAL IN SHEET AND BLOCK FORM FOR RADIO AND RADAR INSULATION PURPOSES.

Claims use since Oct. 11, 1943.

Ser. No. 467,310. COLT'S PATENT FIRE ARMS MANUFACTURING COMPANY, Hartford, Conn. Filed Feb. 10, 1944.

COLTROLLER

FOR ELECTRIC-CIRCUIT CONTROLLING DEVICES AND PARTS THEREOF AND ACCESSORIES THEREFOR—NAMELY, MOTOR CONTROL SWITCHES FOR STARTING AND STOPPING, REVERSING AND ALSO CONTROLLING THE RUNNING SPEED OF ELECTRIC MOTORS.

Claims use since Dec. 24, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 463,700. MEYER-HELTMAN, Norwood, Ohio. Filed Sept. 27, 1943.

PICK'M

FOR CARD FOR USE IN GAMES INVOLVING NUMBER SEQUENCES.

Claims use since Sept. 7, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 466,149. THE DOALL COMPANY (A Division of Wilkie Enterprises, a Co-partnership), Des Plaines, Ill. Filed Dec. 29, 1943.

Buttress

SAWS

The word "Saws" and the representation of the portion of a saw blade are hereby disclaimed apart from the mark.

FOR BAND SAWS.

Claims use since Dec. 14, 1943.

Ser. No. 467,686. CEDARBERG MANUFACTURING COMPANY, Minneapolis, Minn. Filed Feb. 23, 1944.

DANDEE-REEL

"Reel" is disclaimed apart from its association with the word "Dandee."

FOR MECHANICS SELF-CHALKING LINE REELS.

Claims use since Feb. 5, 1944.

Ser. No. 468,261. EDWARD S. KEMPTON, doing business as Kempton Parts and Spring Company, Gastonia, N. C. Filed Mar. 13, 1944.

KLENOIL

FOR BOLSTERS FOR SPINNING FRAMES, TWISTING FRAMES, DOUBLING FRAMES, AND THE LIKE, AND BEARINGS AND BUSHINGS THEREFOR.

Claims use since Mar. 4, 1944.

Ser. No. 468,305. THE PACKER MACHINE COMPANY, Meriden, Conn. Filed Mar. 14, 1944.

Packer-Matic

FOR POLISHING AND BUFFING MACHINES.

Claims use since Jan. 15, 1940.

Ser. No. 468,307. R AND R PLASTICS INC., West Springfield, Mass. Filed Mar. 14, 1944.

PLASTOOL

FOR HAMMERS PARTICULARLY ADAPTED FOR THE ASSEMBLY OF METAL PARTS.

Claims use since Feb. 29, 1944.

Ser. No. 468,345. MARVEL TOOL AND MACHINE COMPANY, River Rouge, Mich. Filed Mar. 16, 1944.

MARVECO

FOR LIVE CENTER TOOL.

Claims use since Jan. 21, 1944.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 463,027. OMEGA MACHINE COMPANY, Kansas City, Mo. Filed Aug. 26, 1943.

EDUCTOSCOPE

FOR APPARATUS FOR VISUALLY OBSERVING THE FLOW OF A GAS FROM A FEEDING DEVICE OR THE EFFECT THEREOF.

Claims use since Dec. 15, 1942.

Ser. No. 464,836. WEBER BROS. METAL WORKS, Chicago, Ill. Filed Nov. 8, 1943.

FOR LABORATORY PULVERIZING MILLS; LABORATORY MASHING APPARATUS FOR MASHING MALT AND SIMILAR MATERIALS; WATER STILLS FOR WATER PURIFICATION.

Claims use since June 8, 1943.

Ser. No. 464,852. ENGINEERING LABORATORIES, INC., Tulsa, Okla. Filed Nov. 9, 1943.

FOR SUBSURFACE PRESSURE MEASURING AND RECORDING EQUIPMENT AND APPARATUS, LABORATORY TESTING EQUIPMENT, AND MISCELLANEOUS INSTRUMENTS AND EQUIPMENT USED IN CONNECTION WITH EARTH-BORED WELLS COMPRISING SUBSURFACE RECORDING INSTRUMENTS, PRESSURE GAUGE TESTERS, MEASURING LINE APPARATUS AND PARTS THEREOF, EQUIPPED RECORDING TRUCKS AND TRAILERS, OSCILLOGRAPHS, GEOPHONES, PERMEAMETERS, PRESSURE-VOLUME CELLS, PRESSURE VISCOSIMETERS, MERCURY PUMPS FOR USE THEREWITH, WATER BATH ASSEMBLIES, PIPE LINE DETECTORS, EQUIPMENT FOR DETERMINING GAS-OIL RATIO, PUMP RATE INDICATORS, AND PRESSURE GAUGES AND PARTS THEREOF—NAMELY, PACKERS AND CLOCKS.

Claims use since January 1935.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 463,166. CORO, INC., New York, N. Y. Filed Sept. 2, 1943.

Coro Supreme

FOR PEARL NECKLACES, PEARLS AND JEWELRY FOR PERSONAL WEAR OR ADORNMENT NOT INCLUDING WATCHES.

Claims use since June 1, 1943.

Ser. No. 464,345. NAT LEVY, New York, N. Y. Filed Oct. 22, 1943.

Natalie ORIGINALS

No claim is made to the word "Originals" apart from the mark.

FOR COSTUME JEWELRY, NOT INCLUDING WATCHES.

Claims use since Jan. 1, 1943.

Ser. No. 466,304. INTERNATIONAL SOCIETY OF CHRISTIAN ENDEAVOR, Boston, Mass. Filed Jan. 4, 1944.

FOR ARTICLES MADE OF PRECIOUS OR SEMI-PRECIOUS METALS — NAMELY, BADGES, PINS, CHARMS, SPOONS, BUTTONS, ORNAMENTAL CUPS, PLAQUES.

Claims use since May 15, 1888.

Ser. No. 468,313. THEODORE WALTER, doing business as Theodore Walter Co., New York, N. Y. Filed Mar. 14, 1944.

QUEEN ANN

FOR GENUINE PEARLS, CULTURED PEARLS, AND SIMULATED PEARLS.

Claims use since July 1, 1938.

CLASS 37

PAPER AND STATIONERY

Ser. No. 460,655. NORTH AMERICAN PULP & PAPER CORP., New York, N. Y. Filed May 15, 1943.

UNITED NATIONS BOND

The word "Bond" is disclaimed apart from the mark.

FOR PAPER STOCK.

Claims use since May 1, 1943.

Ser. No. 463,424. STANLEY MAAS, Whitestone, Long Island, N. Y. Filed Sept. 15, 1943.

"Stanpat"

FOR TRANSPARENT BLANK FORMS—NAMELY, TITLE BLOCKS.

Claims use since Aug. 1, 1941.

Ser. No. 468,057. WHITEHALL, INCORPORATED, New Haven, Conn. Filed Mar. 7, 1944.

rik-rak

FOR WRITING PAPER AND ENVELOPES.

Claims use since Feb. 14, 1944.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 468,510. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 22, 1944.

DEPARTMENT OF BELLES LETTRES

The word "Department" is disclaimed apart from the mark.

FOR MAGAZINE COLUMN.

Claims use since May 15, 1943.

Ser. No. 469,222. THE CHRISTIAN SCIENCE PUBLISHING SOCIETY, Boston, Mass. Filed Apr. 11, 1944.

"I Record only the Sunny Hours"

FOR NEWSPAPER COLUMN.

Claims use since January 1925.

CLASS 39

CLOTHING

Ser. No. 464,034. SOLOMON BROTHERS CO., New York, N. Y. Filed Oct. 9, 1943.

SOL-BRO

FOR OUTER SHIRTS, JACKETS, TROUSERS, SWEATERS.
Claims use since Sept. 1, 1943.

Ser. No. 468,542. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Mar. 22, 1944.

WINTERIZED

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since July 22, 1941.

Ser. No. 468,606. GRAYLEIGH SPORTSWEAR CO., Chicago, Ill. Filed Mar. 24, 1944.

GRAYLEIGH

FOR MEN'S, WOMEN'S, AND CHILDREN'S COATS, JACKETS, AND RAINCOATS.
Claims use since Dec. 6, 1943.

Ser. No. 468,676. LIONDALE SHIRT COMPANY, New York, N. Y. Filed Mar. 25, 1944.

Westernaire

FOR MEN'S AND BOYS' DRESS, SPORT, AND NEGLIGEE SHIRTS.
Claims use since Dec. 15, 1943.

Ser. No. 468,981. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

LUSTRA CUNA

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since July 1, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 459,611. WAWAK COMPANY INC., Chicago, Ill. Filed Apr. 3, 1943.

DOVERDALE

FOR PIECE GOODS—NAMELY, WOOLEN SUMMER SUITING.
Claims use since July 2, 1936.

Ser. No. 467,969. FORSTMANN WOOLEN CO., Passaic, N. J. Filed Mar. 4, 1944.

Velcheena

FOR WOOLEN PIECE GOODS.
Claims use since Feb. 10, 1944.

Ser. No. 468,861. I. ZENDMAN, INC., New York, N. Y. Filed Mar. 30, 1944.

NYVAL

FOR LACE AND NETTED FABRIC IN THE PIECE.
Claims use since Feb. 9, 1943.

Ser. No. 468,982. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

LUSTRA CUNA

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since July 1, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 467,850. MEDICATED PRODUCTS COMPANY, Chicago, Ill. Filed Feb. 29, 1944.

Medco

FOR PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES.
Claims use since Jan. 10, 1933.

Ser. No. 467,851. MEDICATED PRODUCTS COMPANY, Chicago, Ill. Filed Feb. 29, 1944.

Venus

FOR PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES.
Claims use since Feb. 15, 1939.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 468,550. WHITE ROCK MINERAL SPRINGS COMPANY, New York, N. Y. Filed Mar. 22, 1944. Under 10-year proviso.



FOR MINERAL WATER, GINGER ALE, SARSAPARILLA AND OTHER NON-ALCOHOLIC, NON-CEREAL MALTLESS CARBONATED AND NON-CARBONATED BEVERAGES AND SYRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Oct. 16, 1893.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 464,845. ALFRED DUKE DURHAM, doing business as Keayp Foods, Pittsburgh, Pa. Filed Nov. 8, 1943.

KEAYP

FOR FOOD SOLD IN TABLET AND GRANULAR FORM CONSISTING OF DEHYDRATED VEGETABLE PRODUCTS—NAMELY, ALFALFA, PARSLEY AND KELP, AND CONTAINING VITAMINS AND MINERALS.
Claims use since July 1, 1940.

Ser. No. 465,797. FALK PRODUCTS CO., INC., Cadillac, Mich. Filed Dec. 16, 1943.

FALK-O-FROST

Applicant disclaims the surname "Falk" apart from the mark.
FOR SCIENTIFIC BLEND OF GELATINIZED WHEAT FLOUR, SALT AND VEGETABLE LECTHINS USED AS A SHORTENING EXTENDER.
Claims use since Nov. 4, 1943.

Ser. No. 465,801. FALK PRODUCTS CO., INC., Cadillac, Mich. Filed Dec. 16, 1943.

FALK-O-SHORT

Applicant disclaims the surname "Falk" apart from the mark.
FOR SCIENTIFIC BLEND OF GELATINIZED WHEAT FLOUR, SALT AND VEGETABLE LECTHINS USED AS A SHORTENING EXTENDER.
Claims use since June 24, 1943.

Ser. No. 468,783. THE WM. EDWARDS COMPANY, Cleveland, Ohio. Filed Mar. 29, 1944.

MERVUE

FOR COFFEE.
Claims use since 1899.

Ser. No. 468,792. THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Filed Mar. 29, 1944.

CARDALETTE

FOR IMITATION CARDAMON.
Claims use since Aug. 9, 1943.

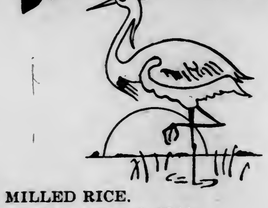
Ser. No. 468,794. THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Filed Mar. 29, 1944.

MEGOLETTE

FOR IMITATION NUTMEG.
Claims use since May 20, 1943.

Ser. No. 468,888. KAPLAN RICE MILL, INC., Kaplan, La. Filed Mar. 31, 1944.

BLUE HERON



FOR MILLED RICE.
Claims use since Jan. 1, 1944.

Ser. No. 468,891. ELIAS LASRY, doing business as Elco Food Products Company, New York, N. Y. Filed Mar. 31, 1944.

THREE MASTS

FOR CANNED TUNA FISH.
Claims use since Mar. 22, 1944.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 468,899. THE PANTASOTE LEATHER COMPANY, Passaic, N. J. Filed Mar. 31, 1944.

VINSOTE

FOR COATED TEXTILE FABRICS IN THE PIECE USED AS A LEATHER SUBSTITUTE.
Claims use since Mar. 15, 1944.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 30, 1944

407,297. GOAT'S MILK. DAVID ROBERTS, Waukesha, Wis.
Filed December 31, 1941. Serial No. 449,921. PUBLISHED MARCH 21, 1944. Class 46.

407,298. DENTAL INLAYS, DENTAL JACKET CROWNS, DENTAL BRIDGEWORK, DENTAL PONTICS, DENTAL RESTORATIONS, DENTAL ONLAYS, DENTURE TEETH, ETC. M. LARSON COMPANY, Chicago, Ill.
Filed April 22, 1942. Serial No. 452,506. PUBLISHED MARCH 21, 1944. Class 44.

407,299. ENGAGEMENT, WEDDING AND OTHER RINGS. GRANAT BROS., INC., San Francisco, Calif.
Filed December 9, 1942. Serial No. 457,295. PUBLISHED MARCH 21, 1944. Class 28.

407,300. HOSIERY. SAMUEL F. NEWMARK, doing business as Goldmark Hosiery Co., New York, N. Y.
Filed April 10, 1943. Serial No. 459,792. PUBLISHED MARCH 21, 1944. Class 39.

407,301. ASPHALT SHINGLES. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed April 15, 1943. Serial No. 459,909. PUBLISHED JANUARY 11, 1944. Class 12.

407,302. KNITTED AND WOVEN LADIES', MISSES' AND CHILDREN'S PANTIES, STEP-INS—I. E., UNDERDRAWERS, BANDEAUS, VESTS, SLIPS, NIGHTGOWNS, CHEMISES, BLOOMERS, AND PAJAMAS. KRUMHOLZ & LICHTBLAU, doing business as Kel Ray Knitting Mills, New York, N. Y.
Filed April 16, 1943. Serial No. 459,936. PUBLISHED MARCH 21, 1944. Class 39.

407,303. LADIES', MISSES', AND CHILDREN'S PANTIES, STEP-INS, BANDEAUS, VESTS, SLIPS, NIGHTGOWNS, CHEMISES, BLOOMERS, AND PAJAMAS. KRUMHOLZ & LICHTBLAU, doing business as Kel Ray Knitting Mills, New York, N. Y.
Filed May 19, 1943. Serial No. 460,739. PUBLISHED MARCH 21, 1944. Class 39.

407,304. EGGS FOR USE BY HATCHERIES. HAROLD E. FOSTER, doing business as California Turkey Industries, Artesia, Calif.
Filed July 12, 1943. Serial No. 462,009. PUBLISHED MARCH 21, 1944. Class 46.

407,305. COMBINATION LETTERHEADS AND ENVELOPES. GEO. D. BARNARD STATIONERY COMPANY, St. Louis, Mo.
Filed August 30, 1943. Serial No. 463,089. PUBLISHED MARCH 21, 1944. Class 37.

407,306. RESINS — SPECIFICALLY, SYNTHETIC RESINS AND PROCESSED NATURAL RESINS; RESIN SOLUTIONS—SPECIFICALLY, PLASTIC RESIN SOLUTIONS. REICHHOLD CHEMICALS, INC., Detroit, Mich.
Filed August 30, 1943. Serial No. 463,103. PUBLISHED MARCH 21, 1944. Class 1.

407,307. CURTAINS MADE OF COTTON. ROYAL CURTAIN MANUFACTURING CO., Hyde Park, Mass.
Filed September 11, 1943. Serial No. 463,358. PUBLISHED MARCH 21, 1944. Class 42.

407,308. PIECE GOODS WHOLLY OR MAINLY OF COTTON. HAYTHORNTHWAITE & SONS LIMITED, Burnley, England.
Filed September 27, 1943. Serial No. 463,672. PUBLISHED MARCH 21, 1944. Class 42.

407,309. FIELD SEEDS, CLOVER SEEDS, TIMOTHY SEEDS AND ALFALFA SEEDS. WERTHEIMER MCGUIN SEED CO., Ligonier, Ind.
Filed October 30, 1943. Serial No. 464,561. PUBLISHED MARCH 21, 1944. Class 1.

407,310. CARD GAME. HANSON ROBINSON, Haverford, Pa.
Filed November 2, 1943. Serial No. 464,618. PUBLISHED MARCH 21, 1944. Class 22.

407,311. BROOCHES, BRACELETS, NECKLACES, LAVALIERES, PENDANTS, AND BUCKLES FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES, MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 2, 1943. Serial No. 464,623. PUBLISHED MARCH 21, 1944. Class 28.

407,312. CUTTING OIL. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,670. PUBLISHED MARCH 21, 1944. Class 15.

407,313. CUTTING OIL. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,671. PUBLISHED MARCH 21, 1944. Class 15.

407,314. CUTTING OIL. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,672. PUBLISHED MARCH 21, 1944. Class 15.

407,315. CUTTING OIL. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,673; PUBLISHED MARCH 21, 1944. Class 15.

407,316. PAPER BAGS. UNION BAG & PAPER CORPORATION, New York, N. Y.
Filed November 9, 1943. Serial No. 464,863. PUBLISHED MARCH 21, 1944. Class 2.

407,317. PROCESSED PRODUCT MADE FROM WHEAT FLOUR, CONTAINING DEXTRIN, MALTOSE, DEXTROSE, LEVULOSE, PROTEINS AND SALT, ETC. GEORGE P. GUNDLACH, Cincinnati, Ohio.
Filed November 13, 1943 under the act of February 20, 1905, as amended June 10, 1938. Serial No. 464,967. PUBLISHED MARCH 21, 1944. Class 46.

407,318. GAME CONSISTING OF A CARDBOARD OR PAPER BASE HAVING PRINTED MATTER THEREON, INCLUDING SPACES FOR DIFFERENT POSITIONS ON WHICH THE PLAYERS' MARKERS ARE ADVANCED STEP BY STEP IN ACCORDANCE WITH DESIGNATED RULES. PRACTICAL SUPPLY CO., INC., Chicago, Ill.
Filed November 15, 1943. Serial No. 465,008. PUBLISHED MARCH 21, 1944. Class 22.

407,319. MEMBRANE FORMING, CONCRETE CURING LIQUID. FEDERAL WATERPROOFING COMPANY, INC., Indianapolis, Ind.
Filed November 16, 1943. Serial No. 465,021. PUBLISHED MARCH 21, 1944. Class 12.

407,320. ROW BOATS, SAIL BOATS, AND OUTBOARD MOTOR BOATS. GEORGE E. TARDIFF, Wood-Ridge, N. J.
Filed November 19, 1943. Serial No. 465,157. PUBLISHED MARCH 21, 1944. CLASS 19.

407,321. POWER TRANSMISSION BELTS. THE GATES RUBBER COMPANY, Denver, Colo.
Filed November 22, 1943. Serial No. 465,201. PUBLISHED MARCH 21, 1944. Class 35.

407,322. WHEELED WOODEN ANIMALS AND SIMILAR SMALL SIZED WOODEN PULL TOYS FOR SMALL CHILDREN. B-T COMPANY, Milwaukee, Wis.
Filed November 26, 1943. Serial No. 465,308. PUBLISHED MARCH 21, 1944. Class 22.

407,323. SOAP CHIPS, SOAP FLAKES, SOAP POWDER, LIQUID SOAP. ALBERT TISSIE GREEN, doing business as Green & Green, New York, N. Y.
Filed December 2, 1943. Serial No. 465,457. PUBLISHED MARCH 21, 1944. Class 4.

407,324. FOOD FLAVORING EXTRACT. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y.
Filed December 8, 1943. Serial No. 465,620. PUBLISHED MARCH 21, 1944. Class 46.

407,325. NUMBERED DISK TOSSING GAME. JAMES R. O'NEIL, doing business as J. R. O'Neil, San Francisco, Calif.
Filed December 14, 1943. Serial No. 465,764. PUBLISHED MARCH 21, 1944. Class 22.

407,326. PAPER TOWELS. BAY WEST PAPER COMPANY, Green Bay, Wis.
Filed December 16, 1943. Serial No. 465,792. PUBLISHED MARCH 21, 1944. Class 37.

407,327. RESIN BONDED WOOD FURNITURE—NAMELY, FILING CABINETS, BUREAUS, CHIFFONIERS, AND SIDEBOARDS, AND RESIN BONDED SHOW CASES. STEINWAY & SONS, New York, N. Y.
Filed December 16, 1943. Serial No. 465,833. PUBLISHED MARCH 21, 1944. Class 32.

407,328. PEARL NECKLACES, PEARLS, AND JEWELRY FOR PERSONAL WEAR OR ADORNMENT NOT INCLUDING WATCHES. SOL E. WEINREICH, doing business as Weinreich Brothers Co., New York, N. Y.
Filed December 16, 1943. Serial No. 465,837. PUBLISHED MARCH 21, 1944. Class 28.

407,329. FUSES FOR USE IN ELECTRICAL CIRCUITS IN AUTOMOBILES AND AIRPLANES. EXCELLO ACCESSORIES MANUFACTURERS, INC., Hempstead, N. Y.
Filed December 17, 1943. Serial No. 465,842. PUBLISHED MARCH 21, 1944. Class 21.

407,330. TIRES OF RUBBER, FABRIC, SYNTHETIC RUBBER, AND COMBINATIONS THEREOF. RICHMOND RUBBER CO. INC., Richmond, Va.
Filed December 21, 1943. Serial No. 465,957. PUBLISHED MARCH 21, 1944. Class 35.

407,331. SILVER BRAZING ALLOYS AND SEMIFABRICATED ARTICLES OF PRECIOUS METALS AND THEIR ALLOYS—NAMELY, PLATES, DISCS, SHEETS, STRIPS, RODS, TUBES, WIRES, CIRCLES, AND PLATER BARS OF SILVER, GOLD, PLATINUM, AND THEIR ALLOYS. THE AMERICAN PLATINUM WORKS, Newark, N. J.
Filed December 22, 1943. Serial No. 465,970. PUBLISHED MARCH 21, 1944. Class 14.

407,332. DENTAL GOLDS AND ALLOYS AND HYPODERMIC NEEDLES. THE AMERICAN PLATINUM WORKS, Newark, N. J.
Filed December 22, 1943. Serial No. 465,972. PUBLISHED MARCH 21, 1944. Class 44.

407,333. DECORATED BASE METAL RADIO CABINETS. CROWE NAME PLATE & MANUFACTURING CO., Chicago, Ill.
Filed December 22, 1943. Serial No. 465,980. PUBLISHED MARCH 21, 1944. Class 32.

407,334. CLEANING AND DETERGENT COMPOUND HAVING INCIDENTAL WATER-SOFTENING PROPERTIES. FABRIC CHEMICALS CO., Jersey City, N. J.
Filed December 24, 1943. Serial No. 466,038. PUBLISHED MARCH 21, 1944. Class 4.

407,335. CAULKING AND POINTING COMPOUNDS AND ROOFING AND DAMPPROOFING COMPOUNDS. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed December 29, 1943. Serial No. 466,180. PUBLISHED MARCH 21, 1944. Class 12.

407,336. COAL AND WOOD BURNING HEATING STOVES. KNOX STOVE WORKS, Knoxville, Tenn.
Filed December 30, 1943. Serial No. 466,200. PUBLISHED MARCH 21, 1944. Class 34.

407,337. THERMAL INSULATION MATERIAL. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 31, 1943. Serial No. 466,215. PUBLISHED MARCH 21, 1944. Class 12.

407,338. YARN. SPINNERIN YARN CO., INC., New York, N. Y.
Filed January 1, 1944. Serial No. 466,267. PUBLISHED MARCH 7, 1944. Class 43.

407,339. TOY CONSISTING OF A MINIATURE PARATROOPER WITH A PARACHUTE ATTACHED. ELVY KALEP, New York, N. Y.
Filed January 5, 1944. Serial No. 466,329. PUBLISHED MARCH 21, 1944. Class 22.

407,340. INFANTS' AND CHILDREN'S WAIST SUITS, SHIRTS, PANTIES, PAJAMAS, AND UNION SUITS. NAZARETH WAIST CO., Nazareth, Pa.
Filed January 6, 1944. Serial No. 466,360. PUBLISHED MARCH 21, 1944. Class 39.

407,341. OLIVE PRODUCTS—NAMELY, OLIVES IN TIN AND GLASS. SUPERIOR OLIVE PRODUCTS CO., Visalia, Calif.
Filed January 6, 1944. Serial No. 466,369. PUBLISHED MARCH 21, 1944. Class 46.

407,342. POTATOES IN THEIR NATURAL STATE. ALFRED W. MCCONN, doing busines as Al's Potato Company, Moorhead, Minn.
Filed January 7, 1944. Serial No. 466,381. PUBLISHED MARCH 21, 1944. Class 46.

407,343. HORSE BRIDLES (ORNAMENTED WITH SILVER). INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,388. PUBLISHED MARCH 21, 1944. Class 3.

407,344. BELLS, BOXES, BRACELETS, CUFF LINKS, CUPS, EARRINGS, TABLE FLATWARE, LAVALIERE PENDANTS, ETC. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,391. PUBLISHED MARCH 21, 1944. Class 28.

407,345. HAND-SPUN YARN. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,395. PUBLISHED MARCH 7, 1944. Class 43.

407,346. LUBRICATING OILS. SERVEL, INC., Evansville, Ind., and New York, N. Y.
Filed January 11, 1944. Serial No. 466,490. PUBLISHED MARCH 21, 1944. Class 15.

407,347. BAGS MADE OF COTTON PATCHWORK; BASKETS OF BARK, GRASS, OR WOODSPLINT; WASTEPAPER BASKETS; WOODEN BOWLS, PLATES, PLATTERS, PLANKS FOR COOKING AND TABLE USE, AND TRAYS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 11, 1944. Serial No. 466,492. PUBLISHED MARCH 21, 1944. Class 2.

407,348. DOLLS AND CHILDREN'S TOY CANOES. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 11, 1944. Serial No. 466,494. PUBLISHED MARCH 21, 1944. Class 22.

407,349. NEW AND RECONDITIONED SURGICAL BLADES. ABBETT & MACKE, Covington, Ky.
Filed January 13, 1944. Serial No. 466,520. PUBLISHED MARCH 21, 1944. Class 44.

407,350. ELECTRICAL INSULATING MATERIALS IN THE FORM OF FILMS, SOLUTIONS, SUSPENSIONS OR POWDER. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed January 13, 1944. Serial No. 466,551. PUBLISHED MARCH 21, 1944. Class 21.

407,351. PUNCH AND CHISEL STEEL. VANADIUM-ALLOYS STEEL COMPANY, Latrobe, Pa.
Filed January 13, 1944. Serial No. 466,560. PUBLISHED MARCH 21, 1944. Class 14.

407,352. MILK COOLERS, CONDENSING UNITS, WATER COOLERS, BEVERAGE COOLERS, REACH-IN COOLERS, WALK-IN COOLERS, BOTTLE COOLERS, CHEST-TYPE FREEZERS, REFRIGERATORS, REFRIGERATOR UNITS, AND PARTS THEREOF. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed January 14, 1944. Serial No. 466,577. PUBLISHED MARCH 21, 1944. Class 31.

407,353. MILK COOLERS, CONDENSING UNITS, WATER COOLERS, BEVERAGE COOLERS, REACH-IN COOLERS, WALK-IN COOLERS, BOTTLE COOLERS, CHEST-TYPE FREEZERS, REFRIGERATORS, REFRIGERATOR UNITS, AND PARTS THEREOF. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed January 14, 1944. Serial No. 466,578. PUBLISHED MARCH 21, 1944. Class 31.

407,354. MILK COOLERS, CONDENSING UNITS, WATER COOLERS, BEVERAGE COOLERS, REACH-IN COOLERS, WALK-IN COOLERS, BOTTLE COOLERS, CHEST-TYPE FREEZERS, REFRIGERATORS, REFRIGERATOR UNITS, AND PARTS THEREOF. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed January 14, 1944. Serial No. 466,579. PUBLISHED MARCH 21, 1944. Class 31.

407,355. HARMONICAS. HARMONIC REED CORPORATION, Philadelphia, Pa.
Filed January 15, 1944. Serial No. 466,613. PUBLISHED MARCH 21, 1944. Class 36.

407,356. FOOD FLAVORING EXTRACTS. DAVID MICHAEL & CO., Philadelphia, Pa.
Filed January 15, 1944. Serial No. 466,618. PUBLISHED MARCH 21, 1944. Class 46.

407,357. PREPARED MIX FOR MAKING POPOVERS. FLAKO PRODUCTS CORPORATION, Milltown, N. J.
Filed January 17, 1944. Serial No. 466,644. PUBLISHED MARCH 21, 1944. Class 46.

407,358. MARMALADE. GOLDEN WEST PRODUCTS COMPANY, Los Angeles, Calif.
Filed January 17, 1944. Serial No. 466,648. PUBLISHED MARCH 21, 1944. Class 46.

407,359. TOY PISTOLS. DAVID KRECHMAN, doing business as Jackson Industries, Chicago, Ill.
Filed January 17, 1944. Serial No. 466,652. PUBLISHED MARCH 21, 1944. Class 22.

407,360. TOY PISTOLS. DAVID KRECHMAN, doing business as Jackson Industries, Chicago, Ill.
Filed January 18, 1944. Serial No. 466,674. PUBLISHED MARCH 21, 1944. Class 22.

407,361. BATHING TRUNKS AND BATHING SUITS. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed January 19, 1944. Serial No. 466,704. PUBLISHED MARCH 21, 1944. Class 39.

407,362. MEN'S OUTER SHIRTS. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed January 21 1944. Serial No. 466,762. PUBLISHED MARCH 21, 1944. Class 39.

407,363. FRESH DECIDUOUS FRUITS. F. P. McLAUGHLIN, Yuba City, Calif.
Filed January 21, 1944. Serial No. 466,764. PUBLISHED MARCH 21, 1944. Class 46.

407,364. FRESH VEGETABLES. RUIZ BROS., Guadalupe, Calif.
Filed January 21, 1944. Serial No. 466,770. PUBLISHED MARCH 21, 1944. Class 46.

407,365. CANDY. SAMUEL M. GERTZ, doing business as Gertz Distributing Company, Chicago, Ill.
Filed January 31, 1944. Serial No. 467,032. PUBLISHED MARCH 21, 1944. Class 46.

407,366. ELECTRICAL HEARING AIDS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed January 31, 1944. Serial No. 467,058. PUBLISHED MARCH 21, 1944. Class 44.

407,367. ELECTRICAL HEARING AIDS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed January 31, 1944. Serial No. 467,060. PUBLISHED MARCH 21, 1944. Class 44.

407,368. BEDS, BED SPRINGS, MATTRESSES, SOFA BEDS, AND STUDIO COUCHES. SOUTHERN SPRING BED COMPANY, Atlanta, Ga.
Filed February 3, 1944. Serial No. 467,139. PUBLISHED MARCH 21, 1944. Class 32.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,369. (CLASS 39. CLOTHING.) TIDY PRODUCTS CORPORATION, New York, N. Y., assignor to Tidy Products Company, a partnership. Filed Jan. 28, 1941. Serial No. 440,068.

Chill-Gard

FOR INFANT'S OR CHILD'S SLEEPING GARMENT.
Claims use since Jan. 22, 1941.

407,370. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELEGATION OF MEAT PACKERS OF POLAND, INC., New York, N. Y. Filed Feb. 10, 1941. Serial No. 440,498.

POLONIA

FOR CANNED COOKED HAM.
Claims use since July 8, 1940.

407,371. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELEGATION OF MEAT PACKERS OF POLAND, INC., New York, N. Y. Filed Mar. 7, 1941. Serial No. 441,314.



The illustration of the woman is fanciful.
FOR CANNED COOKED HAM.
Claims use since July 8, 1940.

407,372. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Aug. 26, 1942. Serial No. 455,121.

RANGEFELT

FOR ROCK WOOL.
Claims use since August 1938.

407,373. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LOUIS J. KLEIN, New York, N. Y. Filed Oct. 24, 1942. Serial No. 456,394.

HOUSE



MOP - BRUSH

FOR COMBINATION FLOOR BRUSH AND MOP.
Claims use since Dec. 15, 1939.

407,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KIDD & COMPANY, Chicago, Ill. Filed Feb. 22, 1943. Serial No. 458,686.

Kidd's
WHIP-AID

FOR WHIPPING CREAM POWDER.
Claims use since Feb. 1, 1943.

407,375. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 22, 1943. Serial No. 459,280.

TAPERLITE

FOR CANDLES.
Claims use since January 1931.

407,376. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEALS-ON-WHEELS, INC., New York, N. Y. Filed Apr. 26, 1943. Serial No. 460,192.

MEALS - ON - WHEELS

FOR SANDWICHES, CAKES, AND PIES.
Claims use since Apr. 8, 1943.

407,377. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) OREL PRODUCTS COMPANY, Bronx, N. Y. Filed May 27, 1943. Serial No. 460,965.

OREL MASK



FOR FACE MASKS FOR PROTECTING WEARERS AND OTHERS AGAINST GERMS.
Claims use since Apr. 1, 1943.

407,378. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. BASSETTI, doing business as Prun-O-Date Distributing Co., Mountain View, Calif. Filed June 21, 1943. Serial No. 461,533.

PRUN-O-DATE

FOR CANDY BAR CONSISTING OF FRUITS, NUTS, AND DATES.
Claims use since Mar. 5, 1943.

407,379. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) RUDOLF K. KIND, doing business as Thorens Company, New Hyde Park, N. Y. Filed June 26, 1943. Serial No. 461,691.

THORENS

FOR PYROPHORIC CIGAR LIGHTERS AND PARTS THEREOF.
Claims use since 1914.

407,380. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE VITROLITE CONSTRUCTION COMPANY, Detroit, Mich. Filed July 17, 1943. Serial No. 462,153.

TRUPLANE

FOR SURFACE PLATES.
Claims use since Mar. 11, 1943.

407,381. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Sept. 1, 1943. Serial No. 463,157.

Staley's

FOR STARCH FOR FOOD PURPOSES, SALAD AND COOKING OIL, CONFECTIONERS' THIN BOILING STARCH, TABLE SYRUPS, CORN SYRUP.
Claims use since 1912.

407,382. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C-O-Two FIRE EQUIPMENT COMPANY, Newark, N. J. Filed Sept. 14, 1943. Serial No. 463,392.

SQUEEZ-GRIP

FOR PORTABLE HAND FIRE EXTINGUISHER.
Claims use since July 6, 1942.

407,383. (CLASS 39. CLOTHING.) BERNARD BUSH, doing business as White Products Co., New York, N. Y. Filed Sept. 30, 1943. Serial No. 463,771.

"DIAPA-GARD"

FOR INFANTS' WATERPROOF DIAPERS MADE OF PLASTIC COATED MATERIAL.
Claims use since Sept. 19, 1942.

407,384. (CLASS 2. RECEPTACLES.) SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass. Filed Oct. 6, 1943. Serial No. 463,950.

PANAMA

FOR PAPER BAGS.
Claims use since 1915.

407,385. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) C. J. BATES & SON, Chester, Conn. Filed Oct. 20, 1943. Serial No. 464,263.

Yarneedles

FOR NEEDLES FOR HAND USE IN SEWING AND EMBROIDERING ON KNITTED GARMENTS, FOR SEAM AND BUTTONHOLE STITCHING, WOOL EMBROIDERY AND EDGING.
Claims use since Nov. 30, 1942.

407,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MUTUAL PHARMACAL COMPANY, Hammond, Ind. Filed Dec. 14, 1943. Serial No. 465,763.

Petro  **Pectin**

FOR MINERAL OIL FOR RELIEF OF CONSTIPATION.
Claims use since Sept. 1, 1942.

407,387. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TEXAS PHARMACAL COMPANY, San Antonio, Tex. Filed Feb. 4, 1944. Serial No. 467,175.

ALLERCREME

FOR COSMETIC PREPARATIONS—NAMELY, A SKIN LOTION, A COSMETIC CLEANSING CREAM, NOT IN THE NATURE OF A SOAP, AND AN OIL SHAMPOO PREPARATION.
Claims use since Feb. 21, 1941.

407,388. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OLD DUTCH INDUSTRIAL PRODUCTS CO., INC., Kearny, N. J. Filed Feb. 12, 1944. Serial No. 467,375.

DRI-BRITE



FOR SHOE DRESSINGS.
Claims use since October 1942.

407,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Mar. 10, 1944. Serial No. 468,167.

Loudon

FOR CHILI SAUCE, TOMATO CATSUP, TOMATO SOUP, TOMATO PUREE, PORK AND BEANS, CANNED RED BEANS, CANNED KIDNEY BEANS, TOMATO JUICE, CANNED LIMA BEANS, CANNED SPAGHETTI, CANNED HOMINY, COCKTAIL SAUCE, RED BEANS IN CHILI GRAVY, AND APPLE BUTTER.
Claims use since the year 1904, on chili sauce, tomato catsup, tomato soup, and tomato puree; since the year 1921, on pork and beans, red beans and kidney beans; since the year 1928, on tomato juice; since the year 1933, on lima beans and spaghetti; since the year 1938, on hominy; since the year 1939, on cocktail sauce; since the year 1940, on red beans in chili gravy; and since the year 1942, on apple butter.

407,390. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) W. N. MATTHEWS CORPORATION, St. Louis, Mo. Filed Mar. 10, 1944. Serial No. 468,187.

MATTHEWS

FOR ELECTRICAL LINE CONSTRUCTION SUPPLIES—NAMELY, FUSE AND SWITCH PULLERS, FUSE LINKS, LIGHTNING GAPS AND ARRESTORS, PARTS FOR FUSES, PARTS FOR SWITCHES, EARTH ANCHORS, WIRE CLIPS, WIRE CONNECTORS, GUY GUARDS, SPLICING JOINTS, ELECTRICAL FAULT DETECTORS, CABLE CLAMPS, LIVE LINE CLAMPS, LIGHTING FIXTURE SUPPORTS, ACCESSORIES FOR FUSES AND SWITCHES.
Claims use since about January 1905 on fuse and switch pullers, fuse links, parts for fuses, parts for switches, earth anchors, splicing joints, electrical fault detectors, cable clamps, accessories for fuses and switches; since about March 1914 on lighting fixture supports; since about September 1929 on wire connectors; since about February 1931 on guy guards; since about April 1933 on wire clips; since about October 1935 on live line clamps; since about May 1936 on lightning gaps and arrestors.

407,391. (CLASS 39. CLOTHING.) SALLY MASON, New York, N. Y. Filed Mar. 24, 1944. Serial No. 468,619.

"Sally Mason"

FOR TODDLERS', GIRLS', TEEN AGE, AND MISSES' PLAYSUITS, PINAFORES, AND BLOUSES.
Claims use since Mar. 2, 1943.

TRADE-MARK REGISTRATIONS RENEWED

177,372. **TEXTILE WORLD.** WEEKLY PUBLICATION. Registered December 18, 1923. THE BRAGDON, LORD & NAGLE CO. Renewed December 18, 1943, to McGraw-Hill Publishing Company, Inc., New York, N. Y., a corporation of New York, assignee.

181,119. **AS YOU LIKE IT.** PADDING FOR HAIR DRESSING. Registered March 11, 1924. E. MITTELSTAEDT, INC., New York, N. Y., a corporation of New York. Renewed March 11, 1944.

181,324. **VIMAE DEANE.** CLEANSING CREAM AND WRINKLE REMOVER AND FACE POWDER. Registered March 18, 1924. VICTORIA MCDONALD, Cleveland, Ohio. Renewed March 18, 1944.

182,013. **VARIOLASTIC.** CORSETS, BRASSIÈRES, BUST SUPPORTERS, SUSPENDERS, GARTERS, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. Registered April 1, 1924. KOPS BROS. INC., New York, N. Y., a corporation of New York. Renewed April 1, 1944.

182,131. **SUNNYFIELD.** WHEAT FLOUR. Registered April 1, 1924. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, Jersey City, N. J. Renewed April 1, 1944, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey.

182,345. **TRAYMORE.** CANNED VEGETABLES AND CANNED FISH. Registered April 8, 1924. CENTRAL WHOLESALE GROCERS, INC. Renewed April 8, 1944, to Central Grocers Cooperative Inc., Chicago, Ill., a corporation of Illinois, by change of name.

182,984. **TRINADORA.** CHOCOLATE COATING. Registered April 22, 1924. LAMONT, CORLISS & COMPANY, New York, N. Y., a corporation of New York. Renewed April 22, 1944.

183,446. **CHARACTER.** PASTE PAINTS, READY-MIXED PAINTS AND ENAMELS IN THE NATURE OF PAINT. Registered April 29, 1924. THE DEBEVOISE COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed April 29, 1944.

183,456. **FEX.** PAINTS—NAMELY, DISINFECTANT PAINTS, COLD-WATER PAINTS, CALCIMINES, WATER-COLOR WALL TINTS, WALL PAINTS, AND WALL SIZES, EITHER IN THE DRY STATE, AS A PASTE, OR READY-MIXED. Registered April 29, 1924. MILTON D. SWARTZ, doing business as Baltimore Water Paint Compuany. Renewed April 29, 1944, to The Farboil Paint Company, Inc., Baltimore, Md., a corporation of Maryland, successor.

183,651. **"THE STEUBEN SOCIETY OF AMERICA" AND DRAWING.** BULLETIN ISSUED BIMONTHLY AND FOR PAMPHLETS ISSUED AT IRREGULAR INTERVALS. Registered May 6, 1924. STEUBEN SOCIETY OF AMERICA, New York, N. Y., an unincorporated association. Renewed May 6, 1944.

183,659. **BANDIT.** TOBACCO POUCHES. Registered May 6, 1924. JOHN LOUIS DUNCAN, doing business as Duncan's, Manchester, England. Renewed May 6, 1944.

183,754. **BUTTERCUPS.** ALIMENTARY PASTE FOOD PRODUCTS. Registered May 6, 1924. A. ZEREGA'S SONS. Renewed May 6, 1944, to A. Zerega's Sons, Inc., Brooklyn, N. Y., a corporation of New York, successor.

183,755. **BUTTERFLIES.** ALIMENTARY PASTE FOOD PRODUCTS. Registered May 6, 1924. A. ZEREGA'S SONS. Renewed May 6, 1944, to A. Zerega's Sons, Inc., Brooklyn, N. Y., a corporation of New York, successor.

183,852. **SPINTITE.** MECHANICS' TOOLS FOR ENGAGING AND TURNING NUTS, BOLT HEADS, AND THE LIKE, PARTICULARLY SOCKET WRENCHES AND OTHER WRENCHES. Registered May 6, 1924. LOUIS SCHWAB, doing business as Stevens & Co., New York. N. Y. Renewed May 6, 1944, to Stevens Walden Inc., Worcester, Mass., a corporation of Massachusetts, assignee.

184,321. **"SUPERBA" AND DRAWING.** CANNED RAVIOLIS, CANNED SPAGHETTI, AND CANNED MUSHROOM GRAVY. Registered May 20, 1924. SUPERBA PACKING CO. Renewed May 20, 1944, to Superba Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

184,618. **LECTROLITE.** READY-MIXED PAINT. Registered May 27, 1924. THE H. B. DAVIS COMPANY. Renewed May 27, 1944, to The H. B. Davis Company, Baltimore, Md., a corporation of Maryland, assignee.

184,619. **"THE 'LIGHT REFLECTING ENAMEL'" AND DRAWING.** READY-MIXED PAINT. Registered May 27, 1924. THE H. B. DAVIS COMPANY. Renewed May 27, 1944, to The H. B. Davis Company, Baltimore, Md., a corporation of Maryland, assignee.

184,795. **"20TH CENTURY" AND DRAWING.** SOAP. Registered June 3, 1924. THEO. B. ROBERTSON PRODUCTS CO., Chicago, Ill., a corporation of Illinois. Renewed June 3, 1944.

184,866. **"NEPTUNE".** INTERNAL-COMBUSTION ENGINES. Registered June 3, 1924. STERLING ENGINE COMPANY, Buffalo, N. Y., a corporation of New York. Renewed June 3, 1944.

184,977. **SCOTKNIT.** OVERCOATS, SUITS, RAINCOATS. Registered June 3, 1924. M. HENRY LAMBERT, New York, N. Y. Renewed June 3, 1944, to Amberg & Company, Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

185,150. **SUNNYFIELD.** BACON. Registered June 10, 1924. THE GREAT ATLANTIC & PACIFIC TEA CO., Jersey City, N. J. Renewed June 10, 1944, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey.

185,264. **ULTRA.** GOLF CLUBS, GOLF BALLS, AND GOLF BAGS. Registered June 10, 1924. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed June 10, 1944.

185,601. **REPRESENTATION OF A BIRD'S NEST, NESTLINGS, ETC.** MILK CHOCOLATE. Registered June 24, 1924. LAMONT, CORLISS & COMPANY, New York, N. Y., a corporation of New York. Renewed June 24, 1944.

185,602. **NESTLÉ'S.** MILK CHOCOLATE AND NUT MILK CHOCOLATE. Registered June 24, 1924. LAMONT, CORLISS & COMPANY, New York, N. Y., a corporation of New York. Renewed June 24, 1944.

185,616. **"LAKE SUPERIOR" AND DRAWING.** HANDKERCHIEFS AND WOOLEN BLANKETS AND STEAMER RUGS FOR USE BY AUTOMOBILISTS. Registered June 24, 1924. F. A. PATRICK & Co. Renewed June 24, 1944, to Patrick-Duluth Company, Duluth, Minn., a corporation of Minnesota, successor.

185,956. **"SEA-GULL".** INTERNAL-COMBUSTION ENGINES. Registered July 1, 1924. STERLING ENGINE COMPANY, Buffalo, N. Y., a corporation of New York. Renewed July 1, 1944.

185,957. **"TRIDENT".** INTERNAL-COMBUSTION ENGINES. Registered July 1, 1924. STERLING ENGINE COMPANY, Buffalo, N. Y., a corporation of New York. Renewed July 1, 1944.

185,958. **"CHEVRON".** INTERNAL-COMBUSTION ENGINES. Registered July 1, 1924. STERLING ENGINE COMPANY, Buffalo, N. Y., a corporation of New York. Renewed July 1, 1944.

185,977. **"DOLPHIN".** INTERNAL-COMBUSTION ENGINES. Registered July 1, 1924. STERLING ENGINE COMPANY, Buffalo, N. Y., a corporation of New York. Renewed July 1, 1944.

186,044. **CLIMAX.** THREAD AND YARN. Registered July 1, 1924. THE LINEN THREAD CO. Renewed July 1, 1944, to The Linen Thread Co., Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

186,117. **"ROOSTER" AND DRAWING.** FURNITURE NAILS. Registered July 1, 1924. THE BERBECKER & ROWLAND MFG. CO., Waterville, Conn. Renewed July 1, 1944, to Atlas Tack Corporation, Fairhaven, Mass., a corporation of New York, assignee by mesne assignments.

186,139. **BUT-A-KISS.** CANDY. Registered July 1, 1924. FRANK M. HOYT, doing business as F. M. Hoyt & Co. Renewed July 1, 1944, to F. M. Hoyt & Co. Inc., Amesbury, Mass., a corporation of Massachusetts, assignee.

186,420. **"SOLAR" AND DRAWING.** MEN'S STRAW HATS. Registered July 8, 1924. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed July 8, 1944, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

186,614. **"BLACK AND WHITE" AND DRAWING.** HAND SOAP. Registered July 22, 1924. MOORE & CO. INC., Worcester, Mass., assignor to Plough Chemical Company. Renewed July 22, 1944, to Plough, Inc., Memphis, Tenn., a corporation of Delaware, assignee.

187,129. **BASIC TIME STANDARD.** PRINTED FORMS. Registered July 29, 1924. FOREST PRODUCTS ENGINEERING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 29, 1944.

187,621. **"AN-A-CIN" AND DRAWING.** MEDICINAL PREPARATION FOR INTERNAL USE, ACTING AS AN ANALGESIC TO RELIEVE PAIN. Registered August 5, 1924. THE HEIDBRINK COMPANY, Minneapolis, Minn. Renewed August 5, 1944, to The Anacin Company, Jersey City, N. J., a corporation of New Jersey, assignee by mesne assignments.

187,761. **"NEWGATE" AND DRAWING.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. Registered August 12, 1924. HARRY SQUIRSKY, doing business as Superior Mineral Water Company. Renewed August 12, 1944, to Harry Squires, Thompsonville, Conn., by change of name.

187,974. **GARDENER.** FRESH, CANNED, PRESERVED, BOTTLED, AND DRIED FRUITS, INCLUDING PEACHES, PEARS, AND APRICOTS. Registered August 12, 1924. MORRIS & JONES, LIMITED, Liverpool, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 12, 1944.

187,975. **SUNNY-WEST.** FRESH, CANNED, BOTTLED, DRIED, AND PRESERVED FRUITS, INCLUDING PEACHES, PEARS, AND APRICOTS. Registered August 12, 1924. MORRIS & JONES, LIMITED, Liverpool, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 12, 1944.

188,069. **"B. D. A." AND DRAWING.** COTTON PIECE GOODS, WOOLEN PIECE GOODS, AND PIECE GOODS BEING ADMIXTURE OF COTTON AND WOOL. Registered August 19, 1924. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 19, 1944.

188,176. **SEW-AN-WEAR.** PIECE OR BOLT FABRICS COMPOSED OF COTTON, SILK, OR MIXTURES OR COMBINATIONS THEREOF. Registered August 19, 1924. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed August 19, 1944.

188,189. **"BDA PERMANENT NON-CROCK 'PNC'" AND DRAWING.** LININGS OF ALPACA AND MOHAIR, BEING PIECE GOODS. Registered August 19, 1924. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 19, 1944.

188,190. **"SOLPRUFE BDA" AND DRAWING.** COTTON PIECE GOODS. Registered August 19, 1924. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 19, 1944.

188,327. **FRITZBRO.** FLAVORING COMPOUNDS FOR FOODS. Registered August 26, 1924. FRITZSCHE BROTHERS, INC., New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,335. **K. & O.** PLATINUM, GOLD, AND SILVER AND COMBINATIONS OF THESE METALS AND OTHER PRECIOUS METALS IN THE FORM OF BARS, SHEETS, ROLLS, WIRE BLOCKS AND IN ANY OTHER COMMERCIAL FORM THAT THE SAME MAY BE MADE AND SOLD, AND PLATINUM, GOLD, AND SILVER SOLDER. Registered August 26, 1924. KATZ & OGUSH, INC. Renewed August 26, 1944, to William B. Ogush, Inc., New York, N. Y., a corporation of New York, by change of name.

188,342. **FRITZBRO.** MALTLESS FLAVORING COMPOUNDS FOR BEVERAGES. Registered August 26, 1924. FRITZSCHE BROTHERS, INC., New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,360. **MARXALL.** COTTON FABRICS. Registered August 26, 1924. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,420. **NOVASUROL.** DIURETIC AND ANTI-SYPHILITIC MEDICINES. Registered August 26, 1924. WINTHROP CHEMICAL COMPANY INC. Renewed August 26, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by merger.

188,456. **FRITSCHE BROTHERS.** ESSENTIAL OILS AND AROMATIC CHEMICAL PREPARATIONS USED IN THE MANUFACTURE OF PERFUMES AND FLAVORINGS. Registered August 26, 1924. FRITZSCHE BROTHERS, INC., New York, N. Y., a corporation of New York. Renewed August 26, 1944.

188,629. **POMPEIAN BLOOM.** ROUGES AND FACE POWDER. Registered September 2, 1924. THE POMPEIAN MFG. COMPANY, Cleveland, Ohio. Renewed September 2, 1944, to Laco Products, Inc., Baltimore, Md., a corporation of Maryland, assignee by mesne assigments.

188,712. **SAFKAR.** METAL GRATINGS FOR FLOORINGS AND STAIRCASES. Registered September 2, 1924. IRVING IRON WORKS COMPANY. Renewed September 2, 1944, to Irving Subway Grating Co. Inc., Long Island City, N. Y., a corporation of New York, successor.

188,731. **OXANTIN.** SWEET DIETETIC PREPARATION FOR DIABETIC PATIENTS. Registered September 2, 1924. H. A. METZ LABORATORIES, INC. Renewed September 2, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, assignee.

188,756. **AVIVOL.** HAIR TINTS. Registered September 2, 1924. FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed September 2, 1944, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, assignee.

188,989. **DASCO.** WEIGHING SCALES. Registered September 9, 1924. DAYTON SCALE COMPANY, Dayton, Ohio. Renewed September 9, 1944, to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio, assignee by mesne assignments.

189,032. **"KEEN KUTTER" AND DESIGN.** LUBRICATING OILS. Registered September 9, 1924. SIMMONS HARDWARE COMPANY. Renewed September 9, 1944, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri, assignee.

189,091. **AGAROL.** LAXATIVE. Registered September 9, 1924. THE THOMAS DOYLE CO., Hackensack, N. J., assignor to William R. Warner & Co., Inc. Renewed September 9, 1944, to William R. Warner & Co. Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

189,178. **DENNISON'S.** CRÊPE PAPER. Registered September 16, 1924. DENNISON MANUFACTURING COMPANY, Framingham, Mass., a corporation of Massachusetts. Renewed September 16, 1944.

189,204. **"GOOD LUCK" AND DRAWING.** GLOVES AND GAUNTLETS OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. Registered September 16, 1924. MISSOURI GLOVE MFG. CO., University City, Mo. Renewed September 16, 1944, to Good Luck Glove Company, Carbondale, Ill., a corporation of Illinois, assignee.

189,220. **CELEBRATION.** FRESH CITROUS FRUITS, FRESH DECIDUOUS FRUITS, DRIED FRUITS, NUTS SALTED AND IN THEIR NATURAL STATE, CANNED FRUITS, CANNED VEGETABLES. Registered September 16, 1924. ORANGETHORPE CITRUS ASSOCIATION, Fullerton, Calif., a corporation of California. Renewed September 16, 1944.

189,243. **MARY SUNSHINE.** TALCUM POWDER. Registered September 16, 1924. MAURY-COLE COMPANY. Renewed September 16, 1944, to Canova Foods, Incorporated, Memphis, Tenn., a corporation of Tennessee, assignee by mesne assignments.

189,300. **HARRY BERGER.** MEN'S AND BOYS' COLLARS, PYJAMAS, NIGHT ROBES, AND UNDERWEAR. Registered September 16, 1924. HARRY BERGER, doing business as Harry Berger Shirt Company. Renewed September 16, 1944, to Kaylon Incorporated, New York, N. Y., a corporation of New York, assignee.

189,304. **TOMATINE.** TOMATO PRODUCTS—NAMELY, TOMATO PASTE AND TOMATO SAUCE. Registered September 16, 1924. STROHMEYER & ARPE COMPANY, New York, N. Y., a corporation of New York. Renewed September 16, 1944.

189,358. **"ARABOL" AND DRAWING.** OILS, GREASES, AND GUMS USED IN THE TREATMENT OF TEXTILES FOR FINISHING, WEIGHTENING, SOFTENING, SIZING, PRINTING, AND WATERPROOFING SAME. Registered September 16, 1924. THE ARABOL MF'G CO., New York, N. Y., a corporation of New York. Renewed September 16, 1944.

189,410. **OLD SOUTH.** ANNOUNCEMENTS, BUSINESS STATIONERY, SOCIAL STATIONERY, AND MAILING ENVELOPES. Registered September 16, 1924. HAMPSHIRE PAPER COMPANY. Renewed September 16, 1944, to Carew Manufacturing Company, South Hadley Falls, Mass., a corporation of Massachusetts, assignee.

189,413. **"MONOGRAM" AND DESIGN.** WRAPPING PAPER. Registered September 16, 1924. UNION BAG & PAPER CORPORATION, New York, N. Y., a corporation of New Jersey. Renewed September 16, 1944.

189,414. **"DRUM HEAD" AND DESIGN.** WRAPPING PAPER. Registered September 16, 1924. UNION BAG & PAPER CORPORATION, New York, N. Y., a corporation of New Jersey. Renewed September 16, 1944.

189,506. **REPRESENTATION OF THE END OF AN HEXAGONAL PENCIL, ETC.** LEAD PENCILS, PENCIL BOXES, ERASERS, PENHOLDERS, AND PEN POINTS. Registered September 23, 1924. GENERAL PENCIL COMPANY, Jersey City, N. J., a corporation of New Jersey. Renewed September 23, 1944.

189,514. **KNOWN AS THE BEST—THE BEST KNOWN.** OUTER SHIRTS, DRESS SHIRTS, COLLARS, PYJAMAS. Registered September 23, 1924. THE MANHATTAN SHIRT COMPANY, New York, N. Y., a corporation of New York. Renewed September 23, 1944.

189,829. **THE LOUNGER.** MEN'S ROBES. Registered September 30, 1924. POLLAK BEHRENS & COMPANY. Renewed September 30, 1944, to Royal Robes, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

189,842. **"REDLEAF" AND DRAWING.** MEN'S, BOYS', WOMEN'S, MISSES', AND CHILDREN'S SUITS, DRESSES, CLOAKS, WRAPS, OVERCOATS, JACKETS, SWEATERS, HATS, CAPS, NECKTIES, MUFFLERS, COLLARS, HOSIERY; GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS; AND OTHER CERTAIN NAMED ARTICLES OF CLOTHING. Registered September 30, 1924. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 30, 1944.

189,846. **THANKSGIVING.** FRESH CITROUS FRUITS, FRESH DECIDUOUS FRUITS, NUTS, CANDIED, SALTED, AND IN THEIR NATURAL STATE, FRESH CANTALOUPES. Registered September 30, 1924. ORANGETHORPE CITRUS ASSOCIATION, Fullerton, Calif., a corporation of California. Renewed September 30, 1944.

189,847. **ARMISTICE.** FRESH CITROUS FRUITS, FRESH DECIDUOUS FRUITS, DRIED FRUITS, NUTS, IN THEIR NATURAL STATE. Registered September 30, 1924. ORANGETHORPE CITRUS ASSOCIATION, Fullerton, Calif., a corporation of California. Renewed September 30, 1944.

189,848. **ARBOR.** FRESH CITROUS FRUIT, FRESH DECIDUOUS FRUIT, NUTS, CANDIED, SALTED, AND IN THEIR NATURAL STATE Registered September 30, 1924. ORANGETHORPE CITRUS ASSOCIATION, Fullerton, Calif., a corporation of California. Renewed September 30, 1944.

189,854. **OCEAN BREEZE.** FRESH DECIDUOUS FRUITS AND FRESH VEGETABLES. Registered September 30, 1924. GARCIA & MAGGINI CO., San Francisco, Calif. Renewed September 30, 1944, to San Juan Islands Cannery, Mount Vernon, Wash., a corporation of Washington, assignee by mesne assignments.

189,867. **ALBION.** FRESH CITROUS FRUITS. Registered September 30, 1924. PLACENTIA MUTUAL ORANGE ASSOCIATION, Placentia, Calif., a corporation of California. Renewed September 30, 1944.

189,882. **"SHAMROCK" AND DRAWING.** FRESH CITROUS FRUITS. Registered September 30, 1924. PLACENTIA MUTUAL ORANGE ASSOCIATION, Placentia, Calif., a corporation of California. Renewed September 30, 1944.

189,883. **CALEDONIA.** FRESH CITROUS FRUITS. Registered September 30, 1924. PLACENTIA MUTUAL ORANGE ASSOCIATION, Placentia, Calif., a corporation of California. Renewed September 30, 1944.

189,886. **"GRIZZLEY BAR" AND DRAWING.** CANDY BARS. Registered September 30, 1924. F. A. MARTOCCIO MACARONI CO., Minneapolis, Minn. Renewed September 30, 1944, to Hollywood Brands, Inc., Centralia, Ill., a corporation of Minnesota, assignee.

189,890. **CANOE.** WHEAT FLOUR, AND PARTICULARLY SELF-RISING FLOUR. Registered September 30, 1924. BALLARD & BALLARD CO., Louisville, Ky., a corporation of Kentucky. Renewed September 30, 1944.

189,902. **FLOSSMOOR.** BUTTER. Registered September 30, 1924. A. F. THIBODEAU COMPANY, INC. Renewed September 30, 1944, to George A. Gardella, doing business as Flossmoor Butter Company, Detroit, Mich., assignee.

189,912. **REPRESENTATION OF AN AMERICAN BEAUTY ROSE, ETC.** FRESH PICKLED, SMOKED, AND CURED MEATS—NAMELY, SLICED BEEF, COTTAGE-STYLE BUTTS, SKINNED HAM, SELECTED BACON (I. E., FRESH BEEF, FRESH PORK, FRESH VEAL, FRESH LAMB, FRESH MUTTON), FLAT BONELESS COOKED HAM, HAM, DRIED BEEF, COOKED BONELESS HAM, AND OTHER CERTAIN NAMED MEAT PRODUCTS. Registered September 30, 1924. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed September 30, 1944.

189,917. **PALATIA.** FABRIC IN THE PIECE, SUCH FABRIC BEING COMPOSED ENTIRELY OF CAMEL'S HAIR. Registered September 30, 1924. S. STROOCK & CO., INC., New York, N. Y., a corporation of New York. Renewed September 30, 1944.

189,918. **PREFERENTIA.** FABRIC IN THE PIECE, SUCH FABRIC BEING COMPOSED ENTIRELY OF WOOL OR OTHER ANIMAL FIBERS. Registered September 30, 1924. S. STROOCK & CO., INC., New York, N. Y., a corporation of New York. Renewed September 30, 1944.

189,966. **THE RED BARREL.** MONTHLY PUBLICATIONS. Registered September 30, 1924. THE COCA-COLA COMPANY, Atlanta, Ga. Renewed September 30, 1944, to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

189,978. **"NY-KO" AND DRAWING.** EVAPORATED SKIMMED MILK. Registered September 30, 1924. THE UNIVERSAL MILK COMPANY, Dover, Del., a corporation of Delaware. Renewed September 30, 1944.

189,984. **EFF=BEE.** FLAVORING EXTRACTS FOR FOODS. Registered September 30, 1924. FRITZSCHE BROTHERS, INC., New York, N. Y., a corporation of New York. Renewed September 30, 1944.

189,995. **GYPSY BAND.** UNDERGARMENT FOR WOMEN TO BE WORN AS A GIRDLE OR FIGURE-RETAINING GARMENT. Registered September 30, 1924. MODEL BRASSIERE CO. INC., New York, N. Y. Renewed September 30, 1944, to Model Brassiere Corp., Brooklyn, N. Y., a corporation of New York, assignee.

190,012. **"SUNRISE EDITION" AND DRAWING.** MORNING EDITION OF A NEWSPAPER. Registered September 30, 1924. THE JOURNAL COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed September 30, 1944.

190,017. **"GRIFFIN" AND DRAWING.** CLEANING FLUID FOR CLOTHES, FABRICS, AND LEATHER; SHOE POLISHES, SHOE BLACKINGS, SHOE CLEANSERS, LEATHER DRESSINGS, LEATHER PRESERVATIVES, AND METAL POLISH. Registered September 30, 1924. GRIFFIN MANUFACTURING CO. INC., New York, N. Y. Renewed September 30, 1944, to Griffin-Manufacturing Co., Inc., Brooklyn, N. Y., a corporation of New York.

190,028. **"CHEVROLET" AND DESIGN.** AUTOMOBILES, MOTOR VEHICLES, AND PARTS THEREOF. Registered September 30, 1924. GENERAL MOTORS CORPORATION, Detroit, Mich., a corporation of Delaware. Renewed September 30, 1944.

REISSUES

MAY 30, 1944

22,487
MOLDED ARTICLE AND METHOD OF MAKING IT

William W. Carter, deceased, late of Needham, Mass., by Brayton Morton, Westport, Mass., as trustee, assignee

Original No. 2,237,048, dated April 1, 1941, Serial No. 209,407, May 23, 1938. Application for reissue March 30, 1943, Serial No. 481,099

5 Claims. (Cl. 229—3.5)



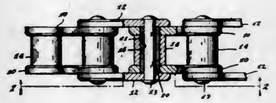
1. An individual resin-bearing molded fibrous pulp article of dish shape and of substantially uniform composition throughout, consisting of a preshaped body compacted and finished under heat and mechanical pressure and composed essentially of interfelted fibers and a cured synthetic resin, the structure and lay of the fibers of said body being substantially unchanged, except for such compacting, from their original molded shape and furnishing substantial mechanical strength to the article, and the resin being substantially uniformly cured throughout the fibrous structure of the body and furnishing a hard smooth enamel-like film of cured resin of uniform finish and appearance at the surfaces of the article.

22,488
CHAIN

Arthur E. Focke, Indianapolis, Ind., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind., a corporation of Indiana

Original No. 2,293,029, dated August 18, 1942, Serial No. 275,715, May 25, 1939. Application for reissue August 4, 1943, Serial No. 497,317

16 Claims. (Cl. 74—255)



1. A power-transmission chain, comprising alternating pin-links and bushing-links, each of said bushing-links comprising two spaced bushings and each of said pin-links comprising two spaced pins passing respectively through bushings of adjacent bushing-links, that surface portion of each pin nearest the center of the pin-link being harder than the remainder of the pin and the adjacent surface portion of the associated bushing being harder than the remainder of such bushing.

22,489
METHOD OF IMPROVING THE PROCESSING OF REFINED CHEMICAL PULPS INTO VISCOSE BY ADDING ANION ACTIVE AGENTS

Paul Henry Schlosser, Kenneth Russell Gray, and Earl Grand Hallonquist, Shelton, Wash., assignors to Rayonier Incorporated, San Francisco, Calif., a corporation of Delaware

No Drawing. Original No. 2,331,935, dated October 19, 1943, Serial No. 321,694, March 1, 1940. Application for reissue April 6, 1944, Serial No. 529,784

14 Claims. (Cl. 260—217)

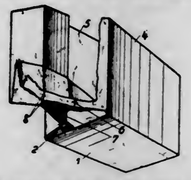
1. The method of improving the processing of refined chemical pulp containing not more than 0.15% ether extractable matter into viscose, comprising forming refined chemical pulp containing not more than 0.15% ether extractable matter into an alkali cellulose; shredding said alkali cellulose; reacting said shredded alkali cellulose with carbon disulphide, whereby xanthation occurs; providing a viscose which comprises the reaction products of said shredded alkali cellulose and said carbon disulphide; and adding at a stage prior to completion of xanthation a surface active agent of the anion active class which has substantially the same solubility characteristic in caustic soda solutions of both mercerizing and the more dilute strengths normally present in viscose, said agents being added in the range of 0.01% to 0.15% by weight, such percentages being based upon the weight of the bone dry pulp.

22,490
BAG

Adolf Rambold, Dresden, Germany; vested in the Alien Property Custodian

Original No. 2,085,509, dated June 29, 1937, Serial No. 24,416, May 31, 1935. Reissue No. 21,714, dated February 11, 1941, Serial No. 269,062, April 20, 1939. This application for reissue July 2, 1941, Serial No. 400,879. In Germany June 28, 1934

5 Claims. (Cl. 229—53)



1. A bag of polygonal cross section made from an integral blank of material, comprising a smooth continuous bottom and at least two opposite smooth continuous sides, at least two other sides being formed by folded lateral portions of said continuous sides, an outer portion of the bottom being thrust between each two of said lateral portions, said outer portion of the bottom being over-and-over folded together with said lateral portions, the edge of said outer bottom portion being retained near the edges of the adjacent lateral portions thereby automatically to form when folded a tight seam.

PATENTS

GRANTED MAY 30, 1944

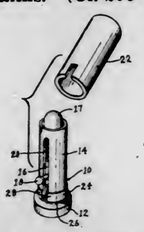
2,349,797
ALKALI-SOLUBLE CARBOXYETHYL CELLULOSE ETHER
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application January 17, 1942, Serial No. 427,205
4 Claims. (Cl. 260—231)

1. The process of preparing a water-insoluble, alkali-soluble carboxyethyl cellulose ether which comprises reacting by mixing within the temperature range of 5° and 35° C. cellulose, a solution containing about 15% to about 40% of a strongly basic, water-soluble hydroxide in an amount at least molecularly equivalent to the glucose units of the cellulose, and about 0.2 to about 0.5 molecular proportions of acrylonitrile per glucose unit of the cellulose.

2,349,798
METALLO-ORGANIC COMPOUND AND METHOD OF PREPARING THE SAME
George H. Denison, Jr., Berkeley, and Arthur C. Ettling, Richmond, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 21, 1940, Serial No. 336,392
11 Claims. (Cl. 260—619)

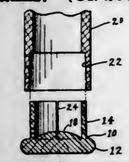
1. A process of preparing metal salts of phenols which comprises reacting an acetylide with a phenol in an environment substantially free of water, whereby said metal salt is formed in the reaction zone.

2,349,799
LIPSTICK CONTAINER
James Lee, Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application February 28, 1942, Serial No. 432,756
10 Claims. (Cl. 206—56)



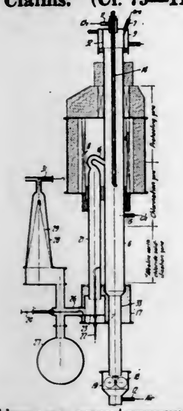
1. A container for stick material and the like comprising a tubular casing having an open end and an enlarged head at the opposite end providing a transverse shoulder adjacent said tubular casing, a cap fitted over said casing and abutted against said shoulder as a stop, a portion of said casing adjacent said head end being enlarged and of an exterior diameter slightly larger than the interior diameter of said cap, and means provided in said casing in the form of an elongated slot extending a considerable length of said casing with one end terminating short of said open end and the opposite end of said slot terminating in an enlarged opening adjacent said shoulder in said enlarged portion to permit parts thereof to resiliently spring out of normal contour so as to allow the enlarged portion to be frictionally telescoped into the open end of said cap.

2,349,800
LIPSTICK CONTAINER
James Lee, Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application February 28, 1942, Serial No. 432,757
14 Claims. (Cl. 206—56)



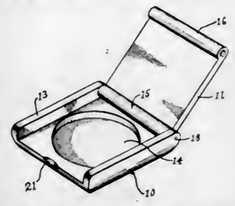
1. A two-piece container comprising a cupped holder member having a cylindrical wall and a cover member having a counterbore at its open end in which the counterbore is slightly tapered and of a mean diameter substantially approximating the outside diameter of said wall, said wall having one or more axial slots extending substantially its entire length to allow said wall to give inwardly coincident with the assembly of the holder and cover members.

2,349,801
TREATMENT OF CHROMIUM ORES
Charles G. Maier, Oakland, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application March 30, 1942, Serial No. 436,774
16 Claims. (Cl. 75—112)



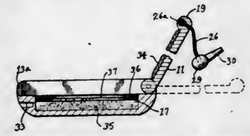
1. In a continuous countercurrent process for chlorination in a vertical column of a chromite ore containing silica and magnesia, the steps of maintaining a chlorination zone in an upper portion of said column wherein said ore is reduced and chlorinated and volatilized chlorides are formed, removing said chlorides from an upper portion of said zone to leave a mass of spent ore in said column in another zone below said chlorination zone, maintaining said other zone at a temperature whereat magnesium chloride present solidifies, and maintaining in said other zone a gaseous atmosphere substantially non-adsorbable by said magnesium chloride and which is free of chlorine and hydrogen chloride whereby said magnesium chloride wets the silica present and is carried out of said other zone on the silica.

2,349,802
VANITY BOX
Robert L. McKnight, Watertown, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application March 1, 1943, Serial No. 477,510
1 Claim. (Cl. 220—55)



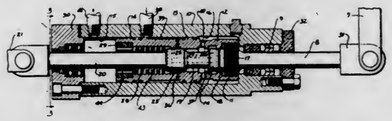
In a vanity box of the character described comprising a body member having end flanges and a cover member having an end hingedly connected to said flanges and entirely confined between said flanges when in a closed position, the opposite end of said cover member having sockets provided in each of its transverse edges, and compact cylindrical felt wads of a normal diameter slightly greater than said socket and disposed in said sockets under force of pressure to completely fill said sockets with one end of said wads firmly seated against the base of their respective sockets as a stop and the opposite end projecting beyond their respective cover edges a distance to have frictional engagement with the adjacent smooth wall surface of said flanges, the degree of frictional effect between the wad ends and the adjacent flange wall surfaces being uniform for both the closing and opening operations of said cover member when moving within the area of said flanges.

2,349,803
VANITY BOX
Le Roy P. Root, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application February 20, 1943, Serial No. 476,582
12 Claims. (Cl. 132—83)



12. A vanity box comprising a body and cover member wherein both members are of a unitary structure and of a generally U-shaped form, the body member having opposed upstanding side walls and the cover member having depending opposed beaded portions arranged perdpendicular to the side walls of said body, the beaded portions adapted to rest upon the upper base surface of said body member and of a height that the outer surface of said cover member will lie substantially flush with the upper edges of said body side walls, and means for hinging one of said beaded portions to the side walls of said body member.

2,349,804
SERVOMOTOR
Kresten T. Sorensen, Media, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application January 23, 1942, Serial No. 427,958
3 Claims. (Cl. 121—41)

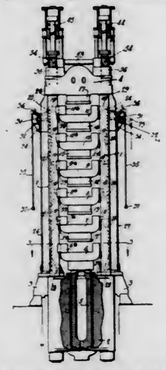


1. A servo-motor for a control system comprising, in combination, a stationary cylinder, a piston having a rod for transmitting a force to the control system, an annular space disposed between the outer wall of said piston and said cylinder, a pressure fluid supply inlet formed in said stationary cylinder for communication with said space, said piston having a bore provided with a lateral supply port for conducting pressure fluid from said space to said bore and a second lateral port adapted to conduct pressure fluid from said bore to an operating end of said cylinder so as to move said piston, an exhaust chamber at the end of said cylinder opposite to said operating end, an axial flow port coaxial with said bore, a valve within said bore, an exhaust passage movable with said valve adapted to connect said coaxial port and exhaust chamber to allow communication between the same when said coaxial port is open, said valve having provision adapted to directly close said coaxial port and to connect said lateral ports with each other thereby to supply pressure fluid to said operating end of the cylinder so as to move said piston or to close said lateral supply port and open said coaxial port thereby to allow discharge of fluid from the operating end of said cylinder through said second lateral port and coaxial port to said movable exhaust passage and thence to said exhaust chamber, and a spring for biasing said valve in a direction tending to open said coaxial port.

2,349,805
MOLDING PRESS
Thomas P. Tapper, Prospect Park, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application May 20, 1941, Serial No. 394,320
14 Claims. (Cl. 18—16)

6. A molding press comprising, in combination, a plurality of vertically disposed mold halves, mechanism for normally opening and closing said mold halves, supports on which said mold halves rest when in a normally open position, means for shifting certain of said supports so that they are removed from their mold supporting position whereby the mold half normally supported thereon is adapted to have additional opening movement, and power operated means movably supporting said latter mold half thereby to effect said additional movement upon removal of said shifted support.

11. A molding press comprising, in combination, a plurality of vertically disposed molds each consisting of two coacting mold halves, mechanism for normally closing and opening said mold halves, a plurality of vertically movable members, means for locking a selected mold to each



of said members to impart additional opening movement to the locked mold or to effect a breaking force for the mold half while the unlocked mold halves remain in their normal open position, and equalizing means for insuring uniform operation of said vertically movable members.

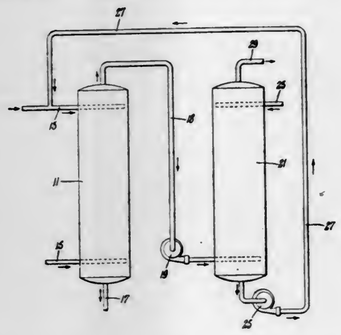
2,349,806
MOLDING PATTERN
Morris Bean, Yellow Springs, Ohio
Application August 1, 1940, Serial No. 349,032
8 Claims. (Cl. 18—34)



1. A pattern for molding plaster and the like which comprises a resiliently flexible body of plasticized vinyl chloride gel having its face a negative of the surface which is to be molded thereby, a rigid back of porous substantially rigid material, a layer between said flexible body and said back which is impervious to the plasticizing constituent of said vinyl chloride gel; and anchor means embedded partially in said flexible body and partially in said back and distributed over the area common to said flexible body and the back.

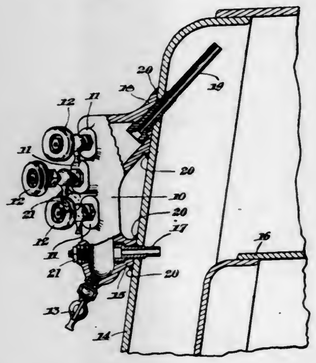
2,349,807
RECOVERY OF VINYL ACETATE FROM SOLVENT MIXTURES
Donald B. Benedict, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application August 30, 1941, Serial No. 408,971
11 Claims. (Cl. 260—499)

1. Process for recovering vinyl acetate from an aqueous mixture containing such ester together with a water-soluble ketone, which comprises extracting said aqueous mixture with a water-immiscible selective solvent for said vinyl acetate which has a higher solvent capacity for said vinyl acetate than for said ketone when in contact with a water phase, thereby forming an extract fraction and a raffinate fraction, said solvent being a mixture of saturated aliphatic hydrocarbons boiling above 125° C. at atmospheric pressure, separating the extract fraction from the raffinate



fraction, extracting such extract fraction with water to form a second extract containing said vinyl acetate and approximately free from said water-soluble ketone, and isolating the vinyl acetate from said second extract.

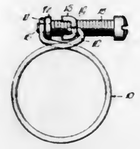
2,349,808
WATER COLUMN
William Frederick Alexander Benger, Montreal, Quebec, Canada
Application November 9, 1942, Serial No. 465,076
2 Claims. (Cl. 73—332)



1. The combination with the rear head of a boiler, of a vertically disposed water column having an upper connection to the rear head of the boiler, said connection extending angularly within and toward the top of the boiler and terminating in the steam space of the latter.

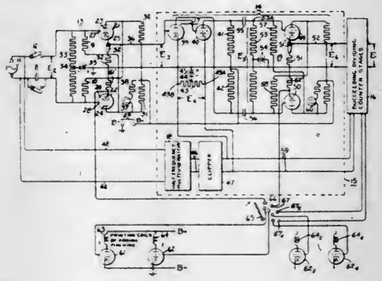
2,349,809
CLAMP
Charles F. Black, Chicago, Ill., assignor, by mesne assignments, to Central Equipment Co., Chicago, Ill., a corporation of Illinois
Application August 12, 1943, Serial No. 498,281
8 Claims. (Cl. 24—19)

1. A hose clamp, which comprises a circular band member having ends which movably extend beyond each other in opposite directions, one of the ends of said member terminating in a socket and the other end thereof terminating in hooks, a screw threaded locking element overlying and disposed between the ends of said band member and



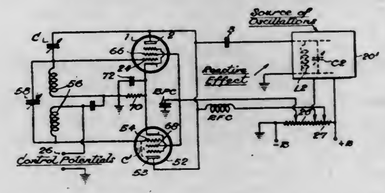
engaging said hooks, said locking element carrying a screw, one end of which is engaged by said socket member to receive the thrust of said screw in tightening said band by pushing said ends farther apart in said opposite directions.

2,349,810
COUNTER CIRCUIT
Ellsworth D. Cook, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application December 1, 1941, Serial No. 421,129
3 Claims. (Cl. 250—36)



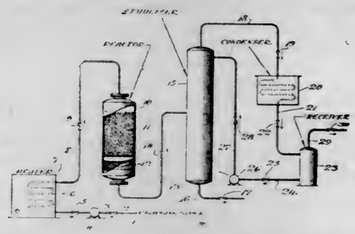
2. A counter comprising in combination an initial stage and one or more divider stages, the initial stage including a pair of electric discharge devices, and input terminals with connections for shifting current from one discharge device to another alternately in response to successive impulses supplied to said input terminals, each divider stage including input terminals with connections to the anode-cathode circuit of one of the discharge devices of the preceding stage, a pair of inversion electric discharge devices each having an anode, a cathode and a control electrode, the control electrodes being connected to the divider input terminals, a device with synchronizing conductors adapted to be connected to a source synchronized with the input terminals of the initial stage for rendering said inversion discharge devices alternately responsive to impulses applied to the input terminals of the divider stage, and a second pair of electric discharge devices each having an anode, a cathode and a control electrode with coupling between the control electrodes and the anode-cathode circuit of one of the inversion discharge devices for shifting current back and forth between electric discharge devices of the latter pair alternately in response to successive impulses transferred from said one of the inversion discharge devices through said coupling.

2,349,811
REACTANCE TUBE MODULATION
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application December 27, 1939, Serial No. 311,074, now Patent No. 2,278,429, dated April 7, 1942. Divided and this application March 7, 1942, Serial No. 433,745
7 Claims. (Cl. 179—171.5)



1. In combination with a circuit wherein alternating currents flow and across which a controllable reactive effect is to be provided, a pair of electron discharge devices each having a plurality of electrodes, including a cathode and a control electrode, means coupling the internal impedance between a pair of electrodes in each of said devices in shunt to at least part of said circuit, reactance means for impressing phase displaced currents from said circuit on two electrodes in each of said devices to produce in said devices reactive effects, a biasing impedance in a common connection between the cathodes of said devices and a point of substantially fixed alternating current potential, a direct current connection between the control electrode of one device and said point potential connected between said point and the control electrode of the other of said devices only, the connections including said impedance being such that variations of the control potential on said one control electrode produces variations in the potential drop in said impedance which changes the bias on the other grid in an opposite sense to differentially control the conductances of the devices to thereby control the reactive effects produced.

2,349,812
CATALYTIC REFORMING
Roland B. Day and Elmer R. Kanhofer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 14, 1941, Serial No. 388,464
1 Claim. (Cl. 196—50)



A process for improving a gasoline fraction of relatively low antiknock value which comprises introducing the gasoline fraction to a reaction chamber containing a first bed of paraffin dehydrogenating catalyst and a second bed of olefin isomerizing catalyst, maintaining the reaction chamber under paraffin dehydrogenating and ole-

fin isomerizing conditions of temperature and pressure, passing the gasoline fraction through said first bed at a space velocity sufficient to effect substantial dehydrogenation therein, then passing the gasoline fraction through said second bed at a space velocity such as to isomerize olefins formed by the dehydrogenation, said second bed being of substantially lesser depth than said first bed whereby to provide a higher space velocity in the second bed than in the first bed, and recovering the thus treated fraction.

2,349,813
APPARATUS FOR SURFACE HARDENING SHAFTS AND THE LIKE
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application September 4, 1941, Serial No. 409,486
12 Claims. (Cl. 219—13)



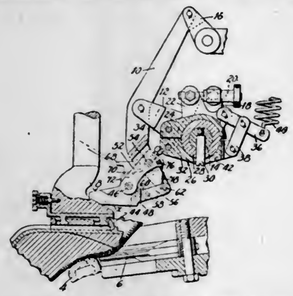
1. An apparatus for hardening an article in particular portions thereof by electro-magnetic inductive heating and quenching, comprising a source of alternating current, bus bars connected to said source, a plurality of stations at each of which a portion of an article is adapted to be hardened, a conveyor on which an article may be moved from one station to another, said bus bars extending from one station to another, a heating circuit for each station, the heating circuit comprising an inductor adapted to lie in closely spaced relation with one of the portions and means for connecting the inductor to the bus bars, means for approximately tuning the heating circuit at said station independently of the tuning at another station, said tuning means including variable condenser means, means for starting operation of each station, means responsive to the starting of each station for automatically controlling said variable condenser means to provide a different condenser effect at said station than at another of the stations, and lock-out means at each station to prevent two inductors from being connected to the bus bars simultaneously, the lock-out means at one station being operable by current flowing in a circuit at another station.

2,349,814
INSECTICIDE
Christian C. Deonier and Howard A. Jones, Orlando, Fla., dedicated to the free use of the People in the territory of the United States
No Drawing. Application January 15, 1944, Serial No. 518,392
10 Claims. (Cl. 167—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insecticidal composition comprising a solid solution of 2,2-bis-(p-chlorophenyl)-1,1,1-trichloroethane in a waxy solid.

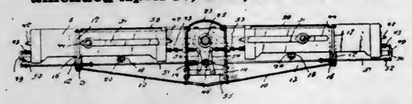
2,349,815
LASTING MACHINE
Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 30, 1942, Serial No. 467,306
10 Claims. (Cl. 12—14)

1. In a lasting machine, the combination with wipers for wiping the toe-end portion of an upper into lasted position, of a retarder for clamping the marginal portion of the upper outspread on the wipers at the end and the sides of the toe, and a plurality of links mounted to swing re-



spectively about different axes extending widthwise of the shoe, said links supporting the retarder for tipping movement about an axis extending widthwise of the shoe in a location determined by the links.

2,349,816
INTERNAL-COMBUSTION ENGINE
Jesse R. Eaton, Chandler, Ariz.
Application July 20, 1942, Serial No. 451,617
1 Claim. (Cl. 123—56)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In an engine construction, a horizontally arranged frame including integrally connected side and end members and integrally connected longitudinally and transversely extending beams and said longitudinally extending beams integrally connected with the end members, plates integral with the longitudinally extending beams and the side members and cooperating therewith in providing pairs of valve mechanism chambers and crank shaft chambers with the crank shaft chambers located between the pairs of valve mechanism chambers, said chambers being located substantially intermediate the ends of the frame, said end members and transverse beams being cutaway to provide seats having grooved walls, cylinders supported by said seats, ribs on said cylinders and received in the grooved walls of the seats, said seats and ribs coacting in preventing shifting of the cylinders transversely and longitudinally of the frame, and stud bolts carried by the end members and the transverse beams and threaded into the cylinders to prevent the cylinders from moving vertically in the seats.

2,349,817
POLYCARBOXYLIC ACID SALTS IN LUBE OIL COMPOUNDING
Bruce B. Farrington, James O. Clayton, and Dorr H. Etzler, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application March 8, 1940, Serial No. 322,946
18 Claims. (Cl. 252—39)

1. A liquid hydrocarbon oil of the lubricating oil class, normally tending to deteriorate at operating temperatures encountered in the lubrication of internal combustion engines, containing dissolved in the oil a small amount, sufficient to retard the said deterioration, of an oil-soluble metal salt of an acid of the type

$$HOOC—(CH_2)_n—COOH$$

in which n is a whole number and in which hydrocarbon radicals may replace one or more of the hydrogen atoms of the $—CH_2—$ groups, and in which at least two polar radicals have been substituted for hydrogen atoms carried by carbon atoms other than that of the salt-forming carboxylic acid group.

9. A liquid lubricating oil composition comprising a hydrocarbon oil in major part; about 0.1 to 5% by weight based on the hydrocarbon oil and sufficient to inhibit corrosiveness of the finished oil toward bearing metal alloys of the type of copper-lead and cadmium-silver alloys of a metal salt of an acid of the type

$$HOOC—(CH_2)_n—COOH,$$

in which n is a whole number from 1 to 8 inclusive, in which at least two of the hydrogen atoms of the $—CH_2—$ groups are replaced by polar groups and in which one or more hydrogen atoms of the $—CH_2—$ groups may be replaced by hydrocarbon radicals; and about 0.1 to 5% by weight based on the hydrocarbon oil of a metal salt selected from the group consisting of metal alcoholates and metal phenates.

2,349,818
BY-PRODUCT FEED
Walter R. Fetzer, Clayton, Mo., assignor to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana
No Drawing. Application January 13, 1942, Serial No. 426,553
8 Claims. (Cl. 99—9)

1. A gluten feed comprising bran, gluten and fermented steep water, said feed being substantially free of yeast fermentable sugars.

2,349,819
MULTICOLOR PRINTING
William Grancel Fitz, New York, N. Y., assignor to Economy Oil Trucking Corporation, New York, N. Y.
Application June 12, 1941, Serial No. 397,692
7 Claims. (Cl. 95—5.1)

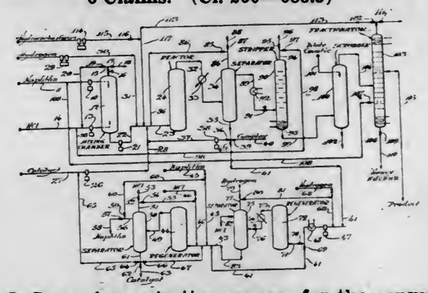


1. The art or process of multicolor reproduction of various subjects which comprises, between the initial production from the subject of a set of selected color-representing negatives and the final use of a set of ink printing blocks to combine monochrome into a multicolor image or print, the following process steps: (*a*) preparing photographically from the negative set a set of separate fixed-dimension positive colored monochrome intermediates of different printing colors substantially complementary to the selected colors, (*b*) and preparing photographically from such respective monochrome intermediates without color separation a set of printing blocks for printing with such complementary colors chosen to match the colors of the intermediates respectively; the said monochrome intermediates comprising the respective color images carried on non-distortable white supports for viewing by reflected light, with which the engraver may directly compare the respective ink printed images for trueness of colors.

2,349,820
SOLUTION OF COPPER MERCAPTIDES FROM TERPENES
Arthur L. Fox, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 23, 1942, Serial No. 440,257
18 Claims. (Cl. 252—43)

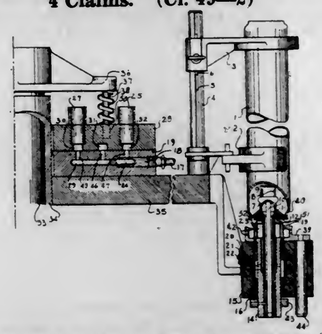
1. A hydrocarbon oil having incorporated therein an oil-soluble copper mercaptide, derived from a terpene by the introduction of an —SH group into the terpene and replacement of the hydrogen of such —SH group by copper, in an amount sufficient to provide at least 50 P. P. M. of copper.

2,349,821
CATALYTIC CONVERSION PROCESS
Nathan Fragen, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 15, 1941, Serial No. 422,977
6 Claims. (Cl. 260—683.5)



5. In an isomerization process for the conversion of straight-chain hydrocarbons to branched-chain hydrocarbons employing an aluminum halide-paraffinic hydrocarbon complex as a catalyst wherein said complex increases substantially in viscosity with use, the improvement comprising contacting said viscous catalyst with at least one isoparaffin hydrocarbon in the presence of an activator affording a hydrogen halide under the reaction conditions at a temperature and pressure effective for reducing substantially the viscosity of said viscous complex, and returning said complex to said isomerization process.

2,349,822
LAMP SEALING APPARATUS
Roland M. Gardner, Swampscott, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application April 25, 1941, Serial No. 390,312
4 Claims. (Cl. 49—2)



1. In apparatus for sealing a mount to an elon-

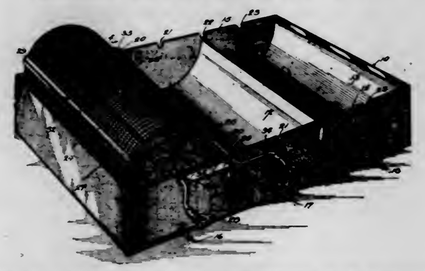
gated glass bulb, the combination: a support for said mount; a holder for said bulb above and in register with the support for said mount; a burner concentric with said mount support, and immediately below said support; and a sealing ring concentric with and of larger diameter than said burner; said ring being mounted for vertical movement with respect to said burner.

2,349,823

BLUEPRINT WASHING MACHINE

Styles T. Howard, Jeffersonville, Ind.

Application June 27, 1941, Serial No. 400,057
2 Claims. (Cl. 95—89)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



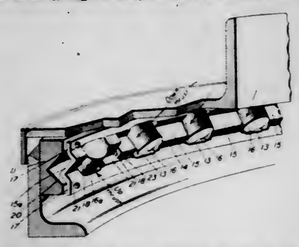
1. A photograph print processing tank comprising three adjacent compartments having semicircular bottoms and having partitions between said tanks, the side walls of said tanks having opposed pairs of notches in the side walls centrally of the compartments and at the ends of the partitions, a drum adapted to conform to the curvature of the bottom of said compartments and to receive prints or films to be processed, said drum having a central shaft removably received in the central compartment notches and having a handle for rotating said drum, and a second shaft connected to said first shaft by a pair of links at the ends of the drum and received in the pairs of notches at the ends of the partitions, said first shaft being rotatable about the second to shift the drum from one compartment to another and said second shaft being rotatable about said first shaft to be positioned in another pair of partition notches.

2,349,824

ROLLER BEARING SEPARATOR

Eugene H. Irasek, Bethesda, Md.

Application November 19, 1943, Serial No. 510,908
6 Claims. (Cl. 308—235)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



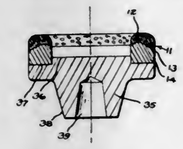
1. A roller separator comprising a sheet strip member having spaced apertures therein for receiving rollers, said member having integral spacing bars of substantially Z-shaped section defining the sides of said apertures, and a roller in each of said apertures, the slanting portion of each spacing bar being positioned parallel to the axis of the roller received in the adjacent aperture and retained by said spacing bar.

2,349,825

METALLIC COMPOSITION AND ABRADING TOOL OF SAID COMPOSITION

Joseph T. Kelleher, Malden, Mass., assignor of one-half to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts, and one-half to Neveroil Bearing Co., Wakefield, Mass., a corporation of Massachusetts

Application September 26, 1942, Serial No. 459,818
13 Claims. (Cl. 51—309)



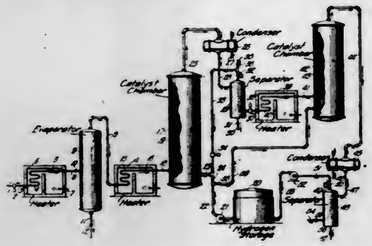
1. A metal composition for use in forming a sintered metallic bond for abrasive particles consisting of a mixture of from more than 50% and less than 95% chromium, more than 1% and less than 30% copper and more than a fraction of 1% and less than 40% nickel, with the percentages of copper and nickel being decreased only when the percentage of chromium is increased and with the percentages of the copper and nickel being varied with respect to each other according to the combined balance of said metals required.

2,349,826

METHOD FOR THE AROMATIZATION OF ALIPHATIC HYDROCARBONS

Edwin T. Layng, Jersey City, N. J., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware

Application October 24, 1938, Serial No. 236,627
1 Claim. (Cl. 260—673.5)



In a method of producing aromatic hydrocarbons and hydrogen by contacting aliphatic hydrocarbons of six or more carbon atoms in a straight chain at an elevated temperature within the range of about 850° F. to 1000° F. with a dehydrogenating-cyclizing catalyst comprising a compound selected from the oxides and sulfides of the metals included within the sixth group of the periodic table, the improvement which consists in effecting such contact in an initial stage by passing said hydrocarbons in contact with the catalyst at superatmospheric pressures of the order of about 100 lbs. and in the presence of added hydrogen in amount such that the aliphatic compounds are converted largely to cyclic compounds with minimized formation of olefinic compounds and consequent deposition of carbonaceous material on the catalyst, cooling and separating the reaction products into normally gaseous products and a condensate containing the liquid conversion products, thereafter vaporizing and contacting said condensate in a second stage with the catalyst at a pressure and with a quantity of added hydrogen substantially lower with respect to the pressure and quantity of added hydrogen than that utilized in the initial stage, and recycling hydrogen produced in the process to supply said added hydrogen.

2,349,827

CATALYTIC REFORMING

William J. Mattox, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 19, 1941, Serial No. 389,449
9 Claims. (Cl. 196—50)

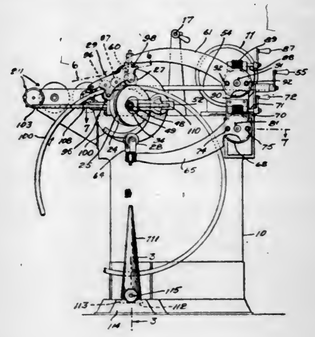
3. A process for reforming olefinic gasoline which comprises subjecting the gasoline in vapor phase at a temperature of about 800° F. to about 1100° F. under a pressure below 100 pounds per square inch and at a liquid hourly space velocity of about 3 to 100 to the action of a phosphate of a metal which has a constant valence during said conversion process and in regeneration treatment thereof, said metal being further characterized in that it forms a hydroxide which is a weak base.

2,349,828

METHOD OF AND APPARATUS FOR BENDING AND FORMING TUBING, RODS, WIRES, AND THE LIKE

Virgil W. Moray, Bronx, N. Y.

Application August 5, 1939, Serial No. 288,512
46 Claims. (Cl. 153—65)



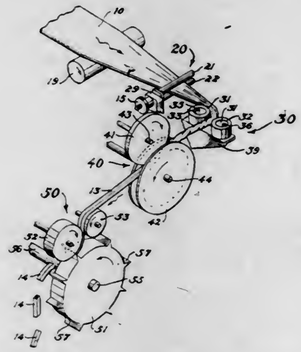
1. Apparatus for bending tubing and the like comprising curved tube receiving movable surfaces each of an extent to engage less than the entire circumference of a tube, disposed with a portion of one surface in close proximity to a portion of another surface and with other portions of said surfaces at distances apart sufficient to permit tubing to be received therebetween, means for moving each of said surfaces about an axis disposed to intersect another axis, and means for feeding tubing into said tube receiving surfaces forward of said region of close proximity thereof.

2,349,829

APPARATUS

Roland R. Nydegger and John B. Roberts, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application August 15, 1942, Serial No. 454,968
3 Claims. (Cl. 18—2)



1. In an apparatus for making formed compacted elongated bodies from a continuous sheet of cohesive material, the combination comprising a pair of gathering rolls having their axes disposed in a plane intersecting the plane of said sheet, said gathering rolls being located with respect to each other so as to gather the sheet from its edges and compact the same when the sheet is drawn therebetween, a pair of finger members separated from each other to form an opening in the plane of said sheet for guiding the sheet into said gathering rolls in a predetermined plane, a forming roll grooved to form the compacted material into a predetermined cross-sectional shape, a compressing roll having a cylindrical peripheral portion shaped to revolve in the groove of said forming roll, said compressing roll being disposed with its peripheral portion in said groove so as to form a confined space therewith for compressing and shaping the gathered material, and means comprising driven shafts for driving the forming and compressing rolls in the same direction whereby the gathered material is drawn through said gathering rolls, a spring means for resiliently loading the driven compressing roll in the direction of said forming roll, driven means for severing said material into lengths after it has been compressed and formed, and means for driving said driven members.

2,349,830

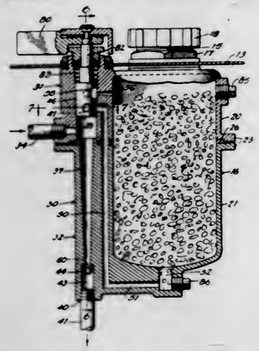
WATER TREATING DEVICE

Marvin R. Olsen, Glen Ellyn, John J. Reid, Elmhurst, and Edwin C. Higgins, Chicago, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application March 22, 1940, Serial No. 325,346
6 Claims. (Cl. 210—38)

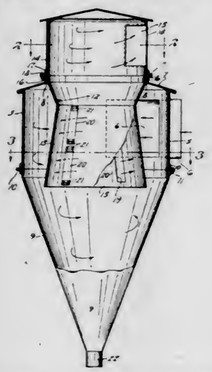
1. In combination with a sink having a substantially vertical wall and an adjoining horizontal wall, a container for water treating material having a filler neck at its upper end extending through said horizontal wall with the body of the container disposed behind and concealed by the vertical wall of the sink, means

securing the container in said position, a removable closure for said filler neck, a water



supply conduit connected into the container and an outlet conduit leading from said container to a position for discharge into the sink.

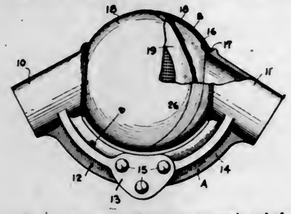
2,349,831
DUST COLLECTOR
Arthur B. Osgood, Minneapolis, Minn.
Application November 3, 1941, Serial No. 417,664
4 Claims. (Cl. 183—85)



1. In a dust collector of the kind described, a drum-like entrance chamber provided with an upwardly extended dome, and an outlet stack extended downward from said dome into said entrance chamber and provided with circumferentially spaced substantially vertically extended skimmer-acting outlet slots, said stack in the portion having said slots being downwardly and outwardly flared.

2,349,832
SPECTACULAR DUST INDICATOR FOR AIRWAY SANITARY CLEANING SYSTEMS
Daniel Benson Replogle, Berkeley, Calif.; Bank of America National Trust and Savings Association, Carl S. Replogle, Harold E. Queen, and Laurie H. Bullock, executors of said Daniel Benson Replogle, deceased, assignors to The Ohio Citizens Trust Company, Toledo, Ohio, a corporation of Ohio, as trustee
Application October 20, 1941, Serial No. 415,800
9 Claims. (Cl. 302—65)

1. In a suction cleaning system including a suction nozzle, a source of suction, and a plurality of intermediate tubular elements; a dust indicator interposed between a pair of successive tubular elements, comprising a coupling member having an inlet and outlet pipe whose axes lie in the same plane but are inclined with reference



to each other, and a transparent globular element rotatably mounted in said coupling member and having circular polar openings adapted to fit over circular bearing members at the inlet and outlet portions of the pipes of the coupling members.

2,349,833
PARACHUTE
James H. Robinson, Dover, N. J.
Application May 15, 1941, Serial No. 393,559
8 Claims. (Cl. 244—145)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



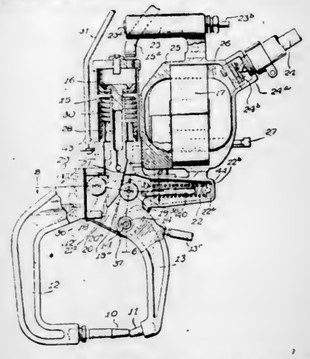
1. A paper parachute canopy comprising rows of stitched reinforcement at the edges thereof, said edges being gathered at the reinforcement at spaced intervals to form shroud attaching portions.

2,349,834
TREATMENT OF HYDROCARBONS
Louis Schmerling and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 12, 1941, Serial No. 388,270
9 Claims. (Cl. 260—672)

1. A process for producting a substantial yield of a mono-alkyl aromatic hydrocarbon from a poly-alkyl aromatic hydrocarbon which comprises subjecting said polyalkyl aromatic hydrocarbon, a non-alkylated aromatic hydrocarbon, hydrogen and hydrogen chloride at a de-alkylating temperature of from about 100° C. to about 500° C. to contact with a zinc chloride-containing catalyst.

2,349,835
WELDING TOOL
Harold A. Strickland, Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 25, 1941, Serial No. 412,235
14 Claims. (Cl. 219—4)

1. A welding apparatus having an electrode, a pivot about which said electrode is movable, a motor for moving said electrode, mechanism for changing the ratio of the movements of motor and electrode so as to more rapidly move said elec-

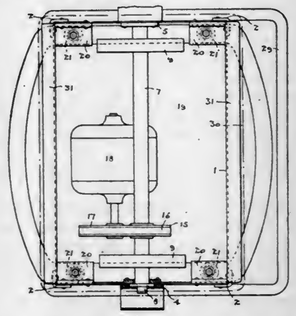


trode when remote from the work than when adjacent thereto, whereby greater pressure is applied to the electrode at one time than at another.

2,349,836
PROCESS FOR THE CURING AND PRESERVATION OF ANIMAL AND FISH PRODUCTS
Leander S. Stuart, Bethesda, Md., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office
No Drawing. Application May 11, 1942, Serial No. 442,556
8 Claims. (Cl. 99—159)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

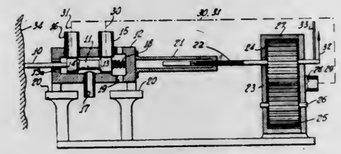
1. A method for curing and preserving animal and fish products, which comprises subjecting them to the action of an alkyl ester of para-aminobenzoic acid and at least one member selected from the group consisting of monohalide derivatives of aliphatic acids other than fluorine derivatives and alkali salts of said monohalide derivatives.

2,349,837
THERAPEUTIC VIBRATOR
John L. Wettlaufer, Toronto, Ontario, Canada, assignor to Dillon Patents Limited, Toronto, Ontario, Canada, a corporation of the Dominion of Canada
Application May 14, 1938, Serial No. 207,904
4 Claims. (Cl. 128—33)



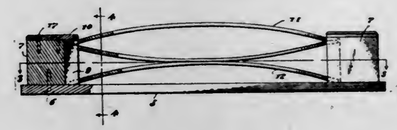
1. A therapeutic vibrator of the type having a frame flexibly mounted, and an eccentrically weighted shaft member rotatably mounted in said frame and flexible drive means for rotating same to impart vibratory motion to the frame, characterized in that said shaft is itself provided with reduced eccentric trunnion portions at the ends rotatably journalled in the frame whereby the off-centre portion of the shaft is utilized to enhance the vibratory effect, and fly wheel members are mounted on the eccentrically displaced body portion of the shaft on the inward side of the bearings immediately adjacent the reduced eccentric trunnion portions and within the said frame, the weight of the said fly wheel members thereby supplementing or directly controlling the offset weight of the said eccentrically displaced body portion of the shaft and minimizing binding or bending thrusts thereon.

2,349,838
MICROMETER
Harald Valdemar Alexandersson, Lidingo, and Carl-Erik Granqvist, Stockholm, Sweden, assignors to Aga-Baltic Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application January 12, 1942, Serial No. 426,462
In Sweden January 16, 1941
8 Claims. (Cl. 33—172)



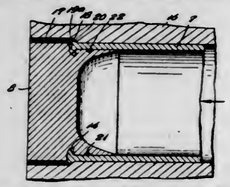
1. In a micrometer, a valve having two relatively movable members, a work contacting pin connected to move one of said members as the pin is displaced by the work, a fluid pressure motor controlled by said valve, means for transmitting motion of said motor to the other of said valve members so that movement of said motor moves said other valve member in the same direction as the first member was moved by said pin so as to restore the original relative position of said members, and means for indicating the extent of movement of the motor.

2,349,839
WOOD SPRING
Salvatore F. Apicella, New York, N. Y.
Application October 17, 1942, Serial No. 462,387
3 Claims. (Cl. 267—1)



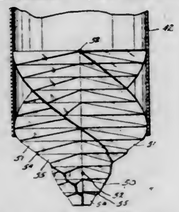
1. A device of the class described comprising spaced mounting boxes for attachment to a support, said boxes being open at the front and closed at the back and top and provided with vertical guide partitions, and a plurality of superposed flat leaves bowed in opposite directions and having their end portions slidably mounted for vertical movement within the boxes and provided with terminal recesses within which the partitions extend.

2,349,840
METHOD OF MAKING CARTRIDGE CASES
John F. Babbitt, Louisville, Ky., assignor to J. V. Pilcher Mfg. Co., Louisville, Ky., a corporation of Kentucky
Application July 9, 1942, Serial No. 450,312
6 Claims. (Cl. 29—1.3)



6. The method of making a metallic cartridge case comprising locating a brazing element within a peripheral channel in a base plug, passing the end of a cylindrical sleeve over said brazing element until said end of the sleeve overlies a peripheral groove in said base plug, upsetting said end of the sleeve to form an internal flange entering said groove, applying a force directed inwardly of said groove to carry said flange deeply into said groove, and heating the cartridge case to cause the brazing element to melt and flow about the junction of the cylindrical shell and the base plug to braze them together.

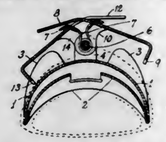
2,349,841
APPARATUS FOR COOLING GAS
Hollis P. Bacon, Cleveland, Ohio, assignor to Northern Blower Company, Cleveland, Ohio, a corporation of Ohio
Application July 1, 1942, Serial No. 449,238
2 Claims. (Cl. 138—38)



1. A device for cooling hot gas, comprising an elongated vertically extending tube, means in the end of said tube to impart a whirling action to gas entering said tube, said means comprising a plurality of bent plate members joined together along the axis of said tube, each member being formed by a series of transversely extending angularly disposed bends so arranged as to form a plurality of adjacent triangular plate portions, the bases of alternate portions being formed by opposite sides of the plate, and the planes of alternate portions extending in a substantially axial direction relative to said tube while the planes of the other triangular plate portions extend at an angle to such axis.

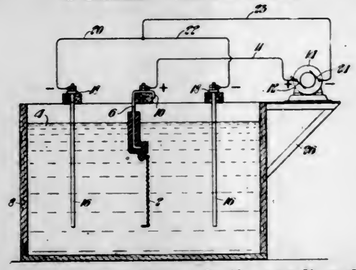
2,349,842
CLIP TO FORM NECKTIE KNOTS
Ramón González Barreto, Habana, Cuba
Application February 10, 1941, Serial No. 378,290
In Cuba February 14, 1940
3 Claims. (Cl. 2—153)

1. A clip for forming a necktie so as to simulate a knot which comprises a main element having a front portion and a rear portion, a pair of projecting ears extending from the lower edge of the rear portion rearwardly, a pair of spaced lugs



on said rear portion, a shaft carried by said lugs and a pair of operating levers pivotally mounted on said shaft and cooperating with said ears for holding a necktie in position.

2,349,843
ELECTROLYTIC TREATMENT OF CHROMIUM ALLOYS
Glenwood J. Beckwith, Brecksville, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application June 14, 1941, Serial No. 398,160
3 Claims. (Cl. 204—140)



3. An electrolyte for use in the anodic polishing of stainless steel, consisting of an aqueous solution containing in the finished solution, between 80% and 90% by weight of orthophosphoric acid of 85% grade, between 10% and 20% by weight of sulphuric acid of 60° Baumé, and .03% by weight of fluorescein dissolved in ethyl alcohol amounting to .37% by weight of the electrolyte, the balance of the electrolyte being water.

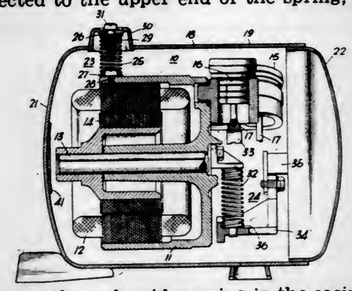
2,349,844
CATALYST CARRIER
Johann Adam Bertsch, deceased, late of St. Louis, Mo., by Manufacturers Bank & Trust Company of St. Louis, executor, St. Louis, Mo.
No Drawing. Continuation of application Serial No. 318,627, February 12, 1940. This application July 29, 1942, Serial No. 452,684
6 Claims. (Cl. 252—235)

1. The contact mass comprising a cord-type carrier selected from the group consisting of glass and quartz, characterized by being flexible, fibrous, relatively strong, relatively temperature resistant and having an individual fiber diameter of substantially 0.0003 to 0.001 inch, and a catalyst deposited thereon.

2,349,845
REFRIGERATING APPARATUS
Clifford S. Cody, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1942, Serial No. 429,631
3 Claims. (Cl. 230—58)

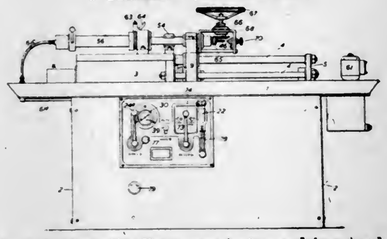
1. The combination of a horizontal shaft motor-compressor unit, a fluid-tight casing therefor

having a bolt opening therein, a vertical tension spring connected to one end of the unit, a spring holder having a screw-threaded opening therein connected to the upper end of the spring, a bolt



extending through said opening in the casing and screw-threaded into said opening in said spring holder, and a spring or springs connected between the other end of said unit and the casing for supporting the unit at said other end.

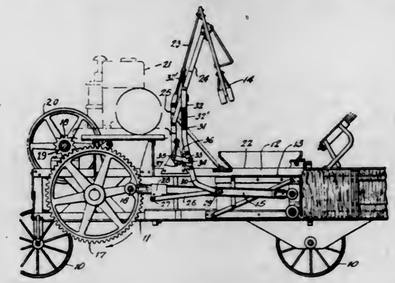
2,349,846
HYDRAULICALLY OPERATED MACHINE TOOL
Philip Grosvenor Corin, Harrogate, England, assignor of one-half to Henry Berry & Company Limited, Leeds, Yorkshire, England
Application October 5, 1942, Serial No. 460,778
In Great Britain July 14, 1941
6 Claims. (Cl. 90—28.1)



1. A hydraulically-operated machine tool having a driving cylinder and ram for creating motion between the tool and the work, there being a smaller area of thrust surface for the return stroke than for the working stroke; having a continuous output uni-directional pump to supply the necessary fluid pressure to both ends of the cylinder for the drive, the supply to the return end of the cylinder being uninterrupted; having valve means for interrupting the fluid pressure to the working end of the driving cylinder and for exhausting that end of the cylinder only when the pressure supply is cut off; having a choke valve to regulate the rate of flow of pressure fluid to the said interrupting devices and to the working end of the driving cylinder; and having a loaded relief valve placed so as to allow surplus fluid from the pump to by-pass the interrupter valve means and the choke valve, and to allow fluid from the return end of the cylinder to escape without passing through the pump.

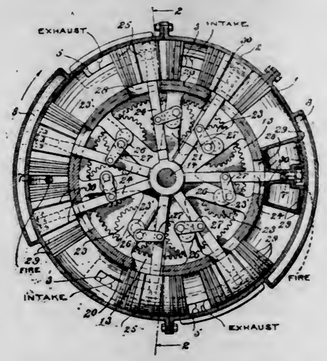
2,349,847
BALER
Charles F. Crumb, Clarendon Hills, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 13, 1943, Serial No. 479,051
12 Claims. (Cl. 100—25)

1. In a baling apparatus comprising a support, means forming a baling chamber having an opening in one side, means mounting the aforesaid means on the support, a baling plunger mounted for reciprocation in the baling chamber, a feeding device movable into and out of the baling chamber through the opening, means mounting the feeding device on the support, the combination therewith of means connecting the baling plunger and the feeding device for causing reciprocation of the baling plunger to bring about



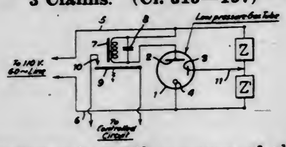
a quick movement of the feeding device into and out of the baling chamber, said connecting means comprising a first member movably connected to the support, a second member connected to the support, the baling plunger, and the feeding device, and means associated with the members for causing movement of the first member with respect to the support to effect movement of the second member with respect to the first member.

2,349,848
RELATIVE MOTION ROTATIVE MECHANISM
Robert Brewster Davids, Baltimore, Md.
Application December 8, 1942, Serial No. 468,242
20 Claims. (Cl. 123—11)



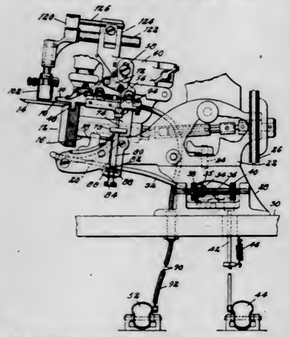
1. An energy transforming mechanism comprising an annular chamber, an axis shaft coaxial therewith and rotatable relatively thereto, a plurality of double faced pistons each having a rigidly attached arm connecting the same rotatably to said shaft, said pistons rotating in said chamber and during part of their revolution, every two adjacent faces of said pistons forming with said annular chamber an energy transforming chamber, and gearing associated with said arms, shaft and annular chamber to move adjacent pistons successively toward and away from one another.

2,349,849
GAS TUBE RELAY CIRCUITS
Harmon B. Deal, Glen Ridge, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 13, 1942, Serial No. 434,510
3 Claims. (Cl. 315—157)



1. In combination with a source of alternating current energizing voltage, a potential divider consisting of pure resistance thereacross, a gas discharge tube including a cold cathode, a plate and a starter-anode, a controlled circuit including control means arranged in circuit with the plate, means connecting the cathode to plate path of the tube across said source whereby extinction of the gas tube ignition is attained twice each alternation when the alternating source is momentarily zero, and means free of impedance connecting said starter-anode to a predetermined point of said divider such that said starter-anode is just below the "striking" voltage of said tube and said divider having such a relatively high resistance magnitude that the power consumption of the gas tube in non-ignited state is negligible.

2,349,850
SKIVING MACHINE
Paul H. Dixon, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 25, 1941, Serial No. 420,399
9 Claims. (Cl. 69—16)

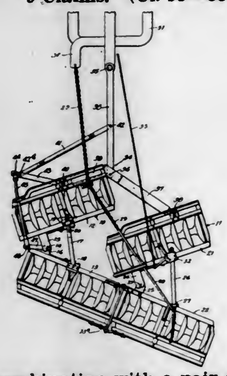


1. A skiving machine having, in combination, a knife, a feed roll, a feed disk for holding work against said feed roll, a support for said feed disk pivotally mounted for swinging movement about an axis parallel to the axis of the feed disk, and a spring for yieldingly urging the feed disk toward the feed roll to cause the feed disk to grip the work against the feed roll.

2,349,851
DI-(CYANAMIDES) AND THEIR MANUFACTURE
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 20, 1942, Serial No. 443,805. In Great Britain May 16, 1941
4 Claims. (Cl. 260—551)

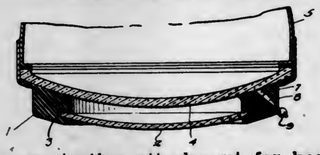
1. Polymethylene di-(cyanamides).

2,349,852
HARROW
Jacob V. Dyrr, Bell, Calif., assignor to International Harvester Company, a corporation of New Jersey
Application February 13, 1943, Serial No. 475,699
9 Claims. (Cl. 55—83)



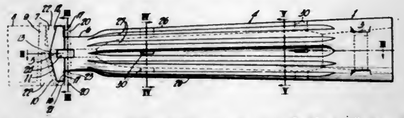
1. The combination with a pair of devices connected side by side and each composed of front and rear earth-working tools movably connected to one another, of a hitch structure for the devices comprising a first member pivotally connected at its ends to the front tools of the devices, a second member pivotally connected at one end at an intermediate point of the first member and adapted to be pivotally connected at its other end to a pulling means, a third member pivotally connected at one end to the front tool of one device adjacent the connection of the first member to the same front tool, a fourth member pivotally connected at one end to the other end of the third member and at its other end to an intermediate point of the second member, and a fifth member secured to one rear tool and pivotally connected to one of the last-mentioned members adjacent their point of connection with one another.

2,349,853
HEADLIGHT ATTACHMENT
Milton Ray Ebert, Erie, Pa.
Application March 26, 1943, Serial No. 480,689
1 Claim. (Cl. 240—48.4)



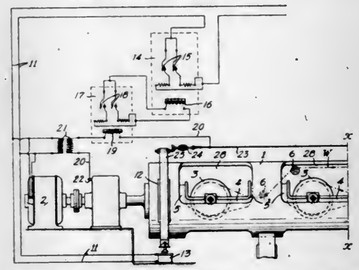
A fog penetrating attachment for headlights comprising a resilient rubber vacuum ring for mounting on a headlight lens and having a transversely curved vacuum channel on its inner surface, said ring having a substantially conical passage therein providing atmospheric communication with the vacuum channel, said ring further having a circumferential groove in its inner periphery, a substantially concavo-convex filter glass mounted in the ring and having its periphery engaged in the groove, a substantially conical valve operable in the passage for controlling same, and a ball threaded on the outer end portion of the valve, said ball being engageable with the ring for securing the valve in closed position in the passage.

2,349,854
CHARGING PEEL OR ARM FOR FURNACE CHARGING BOXES
John W. Forsythe, Wilkinsburg, and Albert T. Reichenbach, Pittsburgh, Pa.
Application October 6, 1942, Serial No. 460,998
3 Claims. (Cl. 214—26)



1. In a charging peel or arm of the class described, including a neck portion, and a head portion at the end of the neck portion, said head portion including vertical load-bearing flanges on opposite sides of said head portion, the lower ends of said vertical load-bearing flanges extending below the neck portion, a recessed horizontal downwardly extending flange below the neck portion, said horizontal flange extending between the lower end portions of the vertical flanges which extend below the neck portion of the peel, the recessed face portion of the horizontal downwardly extending flange being out of alignment with and in a different vertical plane from the load-bearing portions of said vertical flanges, whereby said horizontal downwardly extending flange is substantially relieved of any load-bearing function.

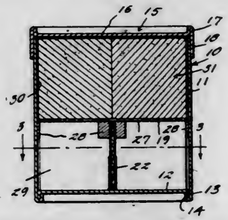
2,349,855
BROKEN WIRE DETECTOR
Salvatore Federico, West Haven, Conn.
Application February 10, 1943, Serial No. 475,465
5 Claims. (Cl. 57—81)



1. A stranding or rope laying machine including the combination of a rotor, means for rotating said rotor, a circuit for powering said rotating means, means mounted by said rotor for feeding lengths of material from said rotor, a control circuit, a detector in said control circuit mounted adjacent said rotor, and a stationary element in said control circuit mounted adjacent said detector, said circuit normally being open between said detector and stationary element, said detector being adapted to vibrate sufficiently to contact said stationary element to close said control circuit when struck by a loose end of said material and thereby open said power circuit to stop the rotation of said rotor.

2,349,856
MOISTURE-ABSORBING DEVICE
Abrom L. Feldman, Atlanta, Ga.
Application June 16, 1942, Serial No. 447,284
2 Claims. (Cl. 229—15)

1. A receptacle comprising a cylindrical body, a lower bottom in said body, a pair of right angularly disposed inner walls resting at their lower edges on said bottom wall, an inner perforate bottom resting on the upper edges of said inner walls, said inner bottom dividing the interior into a lower chamber and an upper chamber, down-



turned fingers integral with said inner bottom and interposed between the outer ends of said inner walls and the inner side of said body for holding said inner walls against movement, and a closure encompassing the upper end of said body.

2,349,857
PERMANENT MAGNET MATERIAL
Oscar J. Finch, New York, N. Y., and John H. White, Cranford, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 13, 1943, Serial No. 506,092
9 Claims. (Cl. 75—124)

1. A workable permanent magnet alloyed composition comprising nickel between 10 and 30 per cent, aluminum between 5 and 10 per cent, vanadium between 2 and 10 per cent, cobalt between 5 and 15 per cent, copper any amount above 0 up to 10 per cent and the balance iron.

2,349,858
ADJUSTABLE AIRFOIL
Richard H. Gillmor, Wilkinsburg, Pa.
Application March 8, 1943, Serial No. 478,405
3 Claims. (Cl. 244—44)

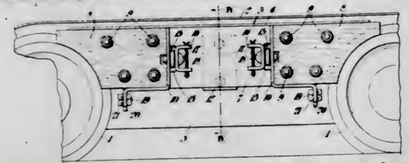


1. In an airfoil, a lower section, a rigid upper section having a pivot connection with the trailing edge of said lower section, a movable nose section pivotally connected to the leading edge of said lower section and overlapping said upper section, said nose section comprising an outer skin fastened to a plurality of transverse ribs spaced longitudinally along the airfoil, means for causing relative movement of said sections about said pivot connections to vary the aerodynamic characteristics of the airfoil, and antifriction means mounted on said ribs engaging the top surface of said upper section to facilitate relative movement between the upper section and nose section.

2,349,859
BRAKE BLOCK ASSEMBLY
George J. Hahn and Otto Sann, Johnstown, Pa.
Application December 21, 1942, Serial No. 469,692
4 Claims. (Cl. 188—57)

1. In a car wheel brake, a brake block having brake shoes removably mounted in the ends

thereof, rotatable actuating means therefor, means pivotally securing said block to said actuating means, and means spaced from said pivotal connection and actuating means for pivotally connecting said block with a fixed support, the



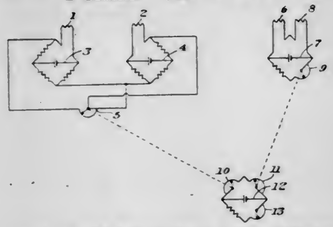
last-named means having an effective length equal to the throw of said rotatable actuating means, said actuating means and last-named means being disposed to define parallel movement of the block in a direction substantially normal to the wheel rotation axis.

2,349,860

METHOD OF DETERMINING DIFFERENCES BETWEEN DEW POINT AND DRY BULB TEMPERATURES

Glenn Oliver Hainer, Pittsburg, Calif.

Application January 21, 1942, Serial No. 427,676
1 Claim. (Cl. 73—51)



The method of determining the difference between the dew point and dry bulb temperatures of the atmosphere of a warehouse when the dry bulb temperature of the atmosphere is below the freezing temperature of its contained vapor comprising maintaining a localized portion of the warehouse atmosphere heated above the freezing temperature of water, measuring the dry and wet bulb temperatures of said heated atmosphere, determining the dew point temperature of the vapor of said atmosphere from the values of said dry and wet bulb temperatures, measuring the dry bulb temperature of the unheated portion of the warehouse atmosphere and algebraically subtracting the value of the latter dry bulb temperature from the value of the dew point temperature.

2,349,861

HEAVY LUBRICANT FOR CHEMICAL INDUSTRIES AND PROCESS OF MAKING SAME

Arlan B. Hale, Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application February 12, 1942, Serial No. 430,692
2 Claims. (Cl. 252—45)

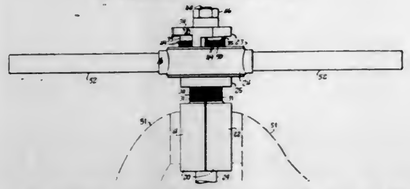
2. The process of manufacturing a normally solid lubricating composition which comprises reacting 100 parts of a mixture of petroleum asphalt and petroleum lubricating oil with from 5 to 15 parts of sulfur, the lubricating oil having a Saybolt Universal viscosity of from 100 seconds to 500 seconds at 100° F., the mixture containing not less than 35 parts or more than 65 parts of either oil or asphalt, and conducting the reaction at a temperature of the order of 350° F. to 550° F.

2,349,862

THREAD-ROLLING TOOL

August W. Hallberg, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation

Application July 29, 1942, Serial No. 452,721
2 Claims. (Cl. 80—6)



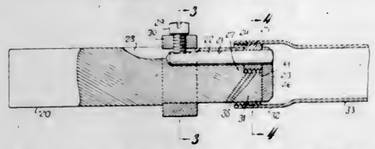
1. A thread-rolling tool comprising: a longitudinally-split work-holder having opposite clamp-faces and an external lead-screw thread on its split forward end-portion, and having a hole extending through the work-holder along said longitudinal split and through said work-holder end-portion, said work-holder being adapted to securely hold a tube in said hole with an end-portion of the tube to be threaded projecting forwardly beyond said work-holder end-portion; and a threading-head having an internal lead-screw thread adapted to thread upon said external lead-screw thread, and having thread-rolling means adapted to roll threads on said projecting end-portion of a tube held in said work-holder when said threading-head is rotated relatively to said work-holder to cause said internal lead-screw thread to thread upon said external lead-screw thread.

2,349,863

THREAD-ROLLING TOOL

August W. Hallberg, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation

Application July 29, 1942, Serial No. 452,722
2 Claims. (Cl. 80—6)



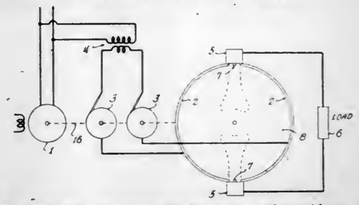
1. A thread-rolling tool for rolling threads on the interior of a tube-end, comprising: a shank having a shank-end of substantially smaller outside diameter than the inside diameter of said tube-end; said shank-end having a plurality of sockets a substantial distance back from the front face of the shank-end to provide a front wall and a rear wall at opposite sides of each socket, said sockets opening through the perimetric surface of the shank-end; a shaft for each of said sockets, each shaft being supported by said front and rear walls and extending across a socket and being insertable and removable through the front face of said shank-end; a locking-ring surrounding said shank and having locking-means releasably lockingly-engaging the rear ends of said shafts; and a thread-rolling member for each socket, each thread-rolling member being supported by a said shaft for rotation in a socket and projecting beyond said perimetric surface; said thread-rolling members being adapted to roll a thread on the interior of said tube-end when said shank-end is moved helically into said tube-end.

2,349,864

COMMUTATING MEANS

Klaus L. Hansen, Milwaukee, Wis.

Application February 2, 1942, Serial No. 429,189
3 Claims. (Cl. 175—364)



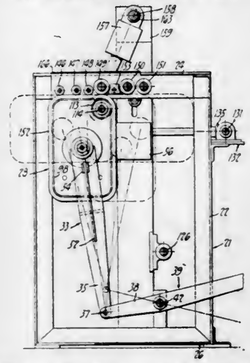
3. A rotary commutator construction comprising a body portion, relatively large and widely spaced main segments carried by said body portion, relatively small auxiliary segments located in the space between successive main segments, brushes bearing on said segments, said body portion having open spaces between said main segments, and said auxiliary segments preventing tilting of said brushes, said body portion having insulating plate like members projecting outwardly on opposite sides of said main and auxiliary segments adjacent the spaces between successive main segments, said body portion having passageways opening outwardly between said main segments for centrifugally producing a blast of gas upon rotation of said commutator outwardly between said main segments for suppressing arcing between said brushes and said main segments.

2,349,865

CONTAINER SEAMING MACHINE

Watson L. Hawk, Max Paul, and Llewellyn W. Evans, Stockton, Calif., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California

Application January 13, 1942, Serial No. 426,608
10 Claims. (Cl. 113—59)



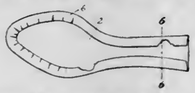
1. In a machine of the character described for moving a polygonal object having rounded corners past a fixed point at a constant lineal speed, a pair of rotatable head members mounted in axially spaced relation upon a common axis of rotation and being supported for universal displacement in a plane at right angles to said axis, means for moving one of said head members toward the other for gripping said object therebetween, a polygonal internal rack gear mounted on one of said head members in coaxial relation thereto and having straight sides and rounded corners conforming to the peripheral shape of said object, a plurality of rollers having the peripheries theeof in a straight line adapted to engage and support the sides of said gear, a drive pinion enmeshed with said gear and located in alignment with said fixed point and having a pitch radius equal to the radius of curvature of the corners of said gear so as to drive said gear rectilinearly when engaged with the straight sides thereof and to rotate said gear when engaged with the corners thereof, and means connected to said head members for holding the sides of said gear in engagement with said rollers during periods of engagement of said pinion with said sides.

2,349,866

SHOE CONSTRUCTION

Valentine M. Heck, St. Louis, Mo., assignor to International Shoe Company, St. Louis, Mo., a corporation of Delaware

Application June 14, 1943, Serial No. 490,717
5 Claims. (Cl. 36—19.5)



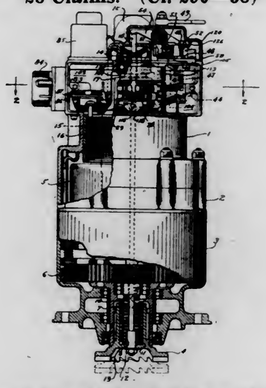
1. In a shoe, the combination with a lasted upper attached to an insole; of an outsole, comprising a fibre filler and a bottom and edge cover for said filler, including a relatively thin flexible plastic sheet material, and a fabric marginal strip attached thereto, said sheet covering the bottom of the filler and said marginal strip being securely connected to the upper marginal edge of the filler, and means for securing the outsole to the insole of the lasted upper.

2,349,867

STARTER

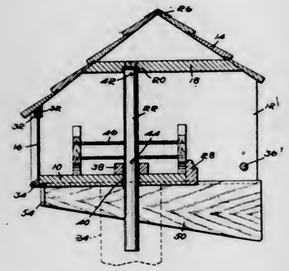
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application July 7, 1942, Serial No. 450,038
28 Claims. (Cl. 290—38)



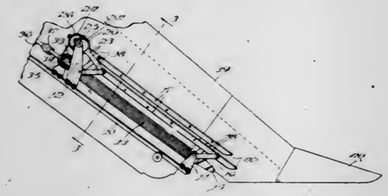
1. In an engine starter having an inertia member and an extensible jaw clutch member, an electric motor for rotating said inertia member, resilient means for urging the brushes of said motor into contact with the motor commutator, manually operable means for retracting said resilient means and extending said jaw clutch member, means for latching said resilient means in retracted positions, and solenoid operated means for releasing said latching means and extending said jaw clutch member.

2,349,868
BIRD FEEDER
Donald B. Hyde, Newton, Mass.
Application April 21, 1942, Serial No. 439,807
4 Claims. (Cl. 119—51)



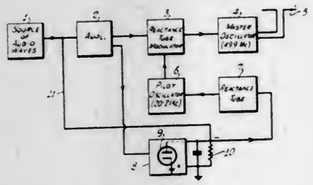
1. A weathervane bird feeder in the shape of a house comprising a platform floor, vertical side walls extending beyond said floor at the rear edge thereof, a roof fixed to said side walls and extending the full length of said side walls, a window closing the front of the bird house, the rear of the bird house being open to allow the birds to enter the house, means for retaining a supply of bird feed within the interior of the bird house, a fixed vertical post, said house being mounted for relative rotation with respect to said post by having an opening in the floor of said house to receive the post and a socket bearing in the roof of the house to engage the upper end of the post, and a pair of wind vanes fixed to the underside of said floor and extending from the rear lower corners of said side walls to a point at the middle of the front edge of said floor, said wind vanes being flared vertically from the front ends to the rear end thereof and being so arranged that the wind will cause the bird house to turn with the open side thereof facing away from the wind.

2,349,869
CORN HARVESTER
Elof Karlsson, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 28, 1941, Serial No. 408,650
17 Claims. (Cl. 56—107)



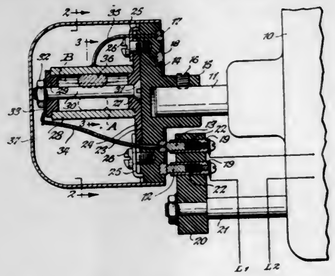
1. In combination, supporting means, a pair of rolls, means rotatably mounting the rolls on the supporting means, means rotating the rolls to cause them to move downwardly at their adjacent portions, a pair of strippers positioned above the snapping rolls, and means mounting the strippers on the supporting means for oscillating movement toward and away from the snapping rolls.

2,349,870
FREQUENCY MODULATION SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 27, 1942, Serial No. 444,639
12 Claims. (Cl. 250—6)



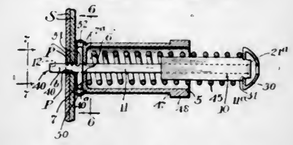
1. A method of signalling which includes generating oscillations, varying the frequency of the oscillations in accordance with the amplitude of modulation signals, preventing variation of said frequency in response to modulation signals above a predetermined modulation amplitude, concurrently producing a control tone whose frequency is varied in an increasing sense for modulation signal amplitudes above said predetermined amplitude, varying the frequency-variable oscillations with said control tone, and transmitting the resultant frequency-variable oscillations.

2,349,871
SWITCH AND METHOD OF CONTROLLING CIRCUITS
Harry L. Lambert, Enfield, N. Y., assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y.
Application September 22, 1939, Serial No. 296,124
26 Claims. (Cl. 200—80)



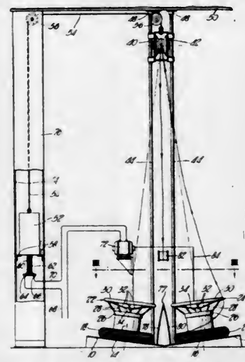
25. An electric switch comprising a closed chamber filled with an inert atmosphere and having an interior surface of a material not wet by mercury, means for rotating said chamber about an axis eccentric thereto, a body of mercury within and only partially filling said chamber and of such size that a substantial portion thereof is drawn by its surface tension away from the zone of said surface against which said body may be confined, whereby when said chamber is so rotated said body will be confined by centrifugal forces, relatively immovably against that portion of said interior surface which is farthest from said axis, a conductor disposed within said chamber in a position to contact with and separate from said body as the latter changes its shape beyond selected limits, with changes in speed of rotation, under the opposing actions of centrifugal forces and surface tension, and means for including electrically in series, said body of mercury and said conductor.

2,349,872
SKIN CLAMP
Elmer L. Lipp, Glendale, Calif., assignor to Herman H. Helbush, Los Angeles, Calif.
Application March 2, 1943, Serial No. 477,693
9 Claims. (Cl. 85—5)



3. A clamp of the class described including a body and a retaining member reciprocally mounted in the body for protraction and retraction relative thereto, said retaining member comprising a pair of pins having their outer end portions projecting from the body and a pair of plates disposed in face to face relationship between the inner ends of the pins, each of said plates having a skirt portion bent upon itself to provide a pin housing.

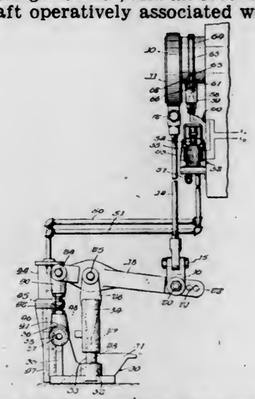
2,349,873
UNCOILING DEVICE
John Lisy, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application July 9, 1942, Serial No. 450,339
4 Claims. (Cl. 242—128)



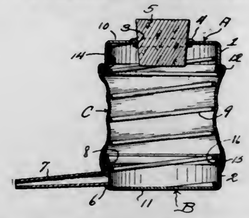
1. Uncoiling apparatus of the character described comprising a pair of platforms with bundle supporting surfaces inclined downwardly toward one another, respective bundle positioning cores mounted on said platforms, each core carrying a coil separating element comprising an inner annular member engageable with the upper end of the core and an outer coil separating ring connected to said inner ring, and a barrier located between said cores and adapted to prevent intertwining of the respective bundles carried thereby.

2,349,874
SCRAP CUTTER
Frederick M. Littell, Detroit, Mich., assignor to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois
Application February 13, 1943, Serial No. 475,747
8 Claims. (Cl. 164—10.6)

1. In apparatus of the character described, a reciprocable cutting slide, an oscillating member pivotally connected to the cutting slide for reciprocating the same, means providing a fulcrum for the oscillating member, and an eccentrically journalled shaft operatively associated with said fulcrum means for adjusting the position of said means, whereby to render the cutting slide operative or inoperative.



2,349,875
POWDER GUN
Louis Mandlak, Fort Worth, Tex.
Application July 28, 1942, Serial No. 452,667
3 Claims. (Cl. 43—146)

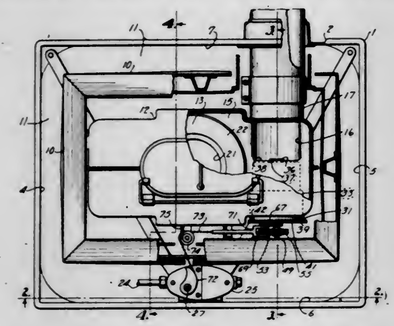


1. A powder gun comprising a top member having a side wall, a bottom member having a side wall, the side wall of one member being disposed toward the side wall of the second member, a flexible tubular side wall interposed between the top and bottom members, the side walls of said members extending within the opposite end portions of the tubular side wall, one end portion of the tubular side wall being inwardly reverted, a flexible strand surrounding said reverted portion for clamping the same to the side wall of one of the members, said strand being between the reverted portion and the side wall proper whereby said strand is entirely concealed, a flexible strand encircling the opposite end portion of the tubular side wall for anchoring the same to the side wall of the second member, a coiled spring interposed between the top and bottom members, the tubular side wall surrounding said spring, and a spout carried by one of the members and extending out through the side wall thereof.

2,349,876
AIR INTAKE GOVERNOR FOR HEATING DEVICES
Russell Martin, Wichita, Kans., assignor to The Coleman Lamp and Stove Company, Wichita, Kans., a corporation of Kansas
Application August 16, 1941, Serial No. 407,156
15 Claims. (Cl. 110—163)

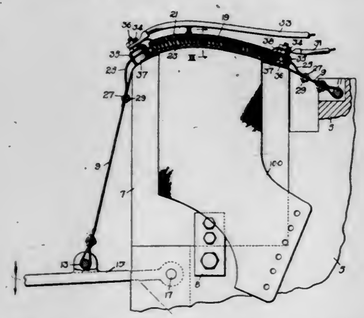
1. In a fuel burning appliance, the combination of a combustion chamber having a variable

internal pressure, an air supply chamber having an inlet for exterior air, means for supplying fuel to the appliance, means responsive to pressure differential between said chambers for govern-



ing admission of air through said inlet for maintaining a predetermined rate of air flow through said appliance, and means for changing the rate of air flow responsive to change in rate of fuel supply.

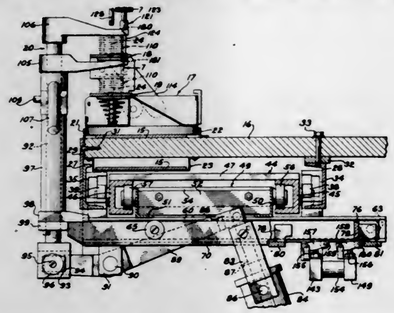
2,349,877
REINFORCING SHOE PARTS
Thomas C. Morris, Medford, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 17, 1942, Serial No. 447,385
6 Claims. (Cl. 36—57)



1. The method of reinforcing a selected portion of the upper of a shoe, said method comprising applying to the selected portion a coat of liquid vulcanizable rubber latex, and thereafter applying heat and pressure directly to the coating.

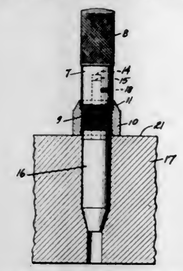
2,349,878
ASSEMBLING APPARATUS
Eugene L. Malhiot, Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1942, Serial No. 465,941
6 Claims. (Cl. 29—84)

1. In an assembling apparatus, compressing means engageable with articles for compressing them while they are secured together, means for actuating the compressing means, a supporting frame for supporting the compressing means and its actuating means, a carriage, means on the carriage for slidably supporting the frame for movement with respect to the carriage, a framework, means on the framework for supporting the carriage for movement with respect to the



framework, and inclined trackways for supporting the framework for movement at an angle to the horizontal.

2,349,879
DEPTH AND TAPER GAUGE
Arthur Ogren, New York, N. Y.
Application December 27, 1941, Serial No. 424,656
8 Claims. (Cl. 33—170)

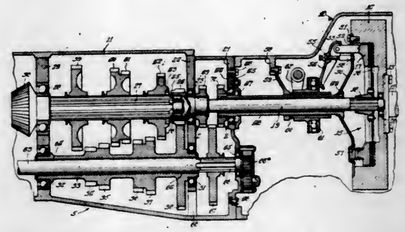


1. A gauge for measuring holes comprising a barrel, a ring threadedly mounted on the barrel, relative rotation of the barrel and ring producing relative axial motion of said barrel and ring, a zero index line on the barrel, and graduations including a zero line on the ring registering with the zero line on the barrel, upon said rotation, said graduations extending on either side of the zero line on the ring, said gauge indicating a theoretically correct hole in a piece of work when said zero lines are in register simultaneously with the ring contacting the surface of the work outside of the hole substantially adjacent thereto, and the barrel in the hole is extended into contact with the work, said ring being then entirely to one side of the extreme end of the barrel in the work, permitting measurement of holes in work of any lateral extent.

2,349,880
POWER TRANSMISSION MEANS
John R. Orelind, Wilmette, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 8, 1942, Serial No. 461,276
14 Claims. (Cl. 74—11)

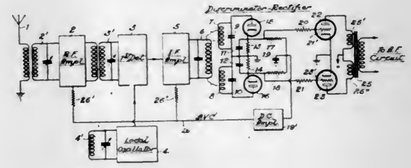
1. For a vehicle including: a fly-wheel; an engine clutch having a driven clutch part; a change-speed transmission; and a driving shaft connecting the transmission and the aforesaid clutch part; a sleeve surrounding the aforesaid driving shaft; means directly connecting said

sleeve to the fly-wheel, for rotation of said sleeve regardless of operation of the engine clutch; a gear on the driving shaft; a gear on the sleeve



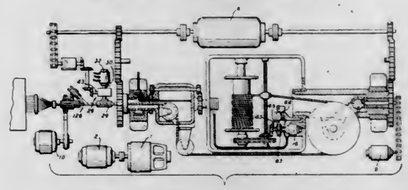
closely spaced from the first gear; a power take-off shaft; and a gear slidably keyed on the power take-off shaft for shifting into mesh with either of the aforesaid gears.

2,349,881
FREQUENCY MODULATION RECEIVER
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 27, 1941, Serial No. 420,661
12 Claims. (Cl. 250—27)



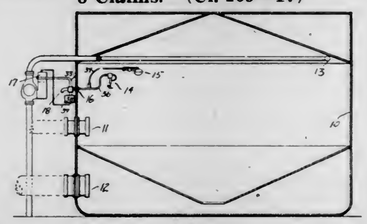
1. In combination with a pair of rectifiers each having its individual resistive load impedance, means for simultaneously applying to said rectifiers modulated carrier waves whose modulation includes a frequency modulation component and an amplitude modulation component of substantial magnitude whereby rectified voltages are developed across each of said load impedances corresponding to said modulation components, a pair of electron discharge tubes each having input and output electrodes, means connecting the output electrodes of said tubes in polarity opposing relation, means impressing the rectified voltage developed across one of the rectifier load impedances upon the input electrodes of one of said tubes, means impressing the rectified voltage developed across the second rectifier load impedance upon the input electrodes of the second tube, said rectified voltages being applied to the separate input electrodes of said pair of tubes in like polarity with respect to both said modulation components, but in opposing magnitude senses with respect to said frequency modulation component, means for causing the output currents of said tubes to vary by substantially equal amounts in response to the rectified voltages whereby currents in the common output circuit of said pair of tubes corresponding to said amplitude modulation component are effectively balanced out and means coupled solely to the output electrodes of said pair of tubes for deriving therefrom currents corresponding to said frequency modulation component.

2,349,882
MULTIPLE UNIT APPARATUS
Lester O. Reichelt, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 23, 1942, Serial No. 444,285
6 Claims. (Cl. 57—100)



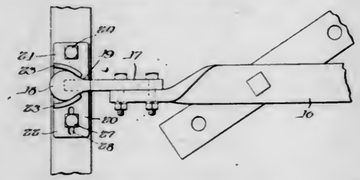
1. In a cabling machine having a rotatable strand twisting member and a rotatable strand advancing member to intertwist a plurality of strands into a cable by the cooperative action of the two members, means to rotate the strand twisting member, an electric motor to rotate the strand advancing member, a vacuum power tube to supply current to the motor to drive the same, and means driven by the strand twisting member and by the cable being formed in the machine and effective to modify the output of the vacuum tube to the motor in accordance with variations in the ratio of the speed of the rotating strand twisting member to the longitudinal speed of advance of the cable, in combination with means to hold the strand advancing member against reverse rotation during periods of stoppage and thereby maintain in the cable being made the tension necessary to keep the vacuum tube output modifying means accurately effective during acceleration and deceleration of the machine.

2,349,883
SPRINKLER VALVE ACTUATING DEVICE
Harry N. Rider, Youngstown, Ohio, assignor to "Automatic" Sprinkler Company of America, Youngstown, Ohio, a corporation of Delaware
Application October 19, 1942, Serial No. 462,631
8 Claims. (Cl. 169—17)



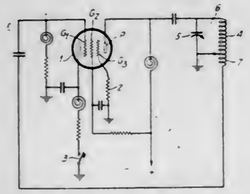
6. In a heat detecting system, the combination of an enclosure and dual heat detecting devices therein, means of communication extending between the said dual heat detecting devices and the exterior of the said enclosure, the said dual heat detecting devices and the said communication means normally containing air at a pressure in excess of atmospheric, one of the said dual heat detecting devices comprising a pressure generating device and the other one of the said dual heat detecting devices comprising a pressure relieving device, a secondary communication means in communication with the said pressure relieving heat detecting device and in communication with the exterior of the said enclosure so that pressure relieved by the said heat detecting device upon actuation exhausts to atmosphere therethrough.

2,349,884
DRAFT DEVICE
Edward L. Rietz, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application February 23, 1942, Serial No. 431,954
7 Claims. (Cl. 280—33.15)



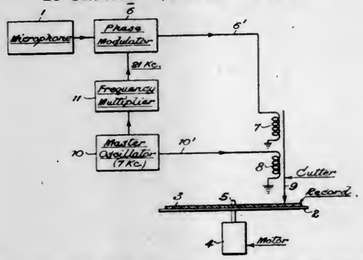
1. Releasable hitch means for connecting a draft vehicle and trailing vehicle together, comprising a first part adapted to be connected to one vehicle, and a second part adapted to be connected to the other vehicle, the first part including a portion formed with an adjustably fixed opening, the second part having a portion formed of yieldable material and including a neck portion and an enlarged head portion, said parts being normally connected together with the aforesaid neck portion fitting the opening in the second part and the enlarged head portion yieldably resisting separation of the parts, said enlarged head portion being yieldable upon excess of a predetermined draft force between the vehicles to escape the fixed opening in the second part for at least partial release of the trailing vehicle from the draft vehicle.

2,349,885
OSCILLATION GENERATOR
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 25, 1941, Serial No. 416,452
2 Claims. (Cl. 250—36)



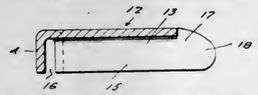
1. In an oscillator including a tube having a cathode, plate, control grid and at least one other cold electrode adapted to control the flow of current to said plate, and including a tank circuit wherein the volt-amperes are very large compared with the volt-amperes flowing in the capacities between said electrodes to thereby stabilize the frequency of oscillation, a coupling from the plate-cathode circuit to said tank and a coupling from said tank to the control grid-cathode circuit of said tube, said couplings being arranged to cause the alternating voltages on said grid and plate to be substantially 180° out-of-phase but due to losses in said oscillator system being not exactly 180° out-of-phase, and means for producing an out-of-phase voltage on said additional cold electrode adapted to compensate for the aforesaid departure from the 180° phase relation consisting solely of an unbypassed resistor connected between said cold electrode and a point of zero radio frequency potential, said resistor being chosen too small to substantially alter the direct potential of said cold electrode but sufficiently large to produce a small alternating voltage on said cold electrode which is out-of-phase with the voltage on said grid and which thereby slightly alters the phase of the alternating current to said plate and thus causes the resulting phase of said plate current to be exactly opposite to that of the said alternating plate voltage.

2,349,886
PHASE MODULATION RECORDING AND REPRODUCING SYSTEM
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 30, 1942, Serial No. 428,810
15 Claims. (Cl. 179—100.4)



1. In a system for recording signals, means for generating a pair of waves of integrally related frequencies, means to phase modulate one of said waves, means to combine the remaining unmodulated wave and the phase modulated wave, and means to translate the combined waves into a physical record.

2,349,887
HOSE CLAMP WRENCH
Clarence M. Selberg, Los Angeles, Calif.
Application May 14, 1943, Serial No. 487,017
1 Claim. (Cl. 81—119)

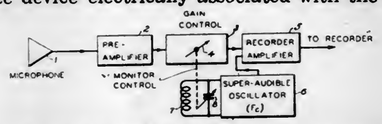


A wrench of the character described comprising a shank straight throughout its length and a cross head at one end of said shank projecting from opposite sides thereof and straight throughout its length, the cross head being U-shaped in cross section to provide a straight and unobstructed channel extending the full length of the cross head and having inner and outer side walls, the shank being also U-shaped in cross section to provide a straight and unobstructed channel having side walls and communicating with the channel of the cross head through the inner side wall thereof, and said shank being slotted from its outer end along the bottom of its channel to form flat jaws of free end portions of its walls.

2,349,888
SOUND RECORDING SYSTEM
Chester M. Sinnett, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 21, 1942, Serial No. 462,831
2 Claims. (Cl. 179—100.4)

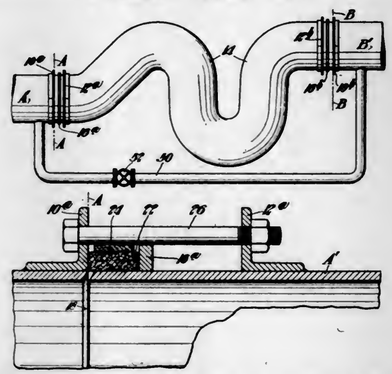
1. In a system for recording sound waves, means for amplifying audio frequency currents derived

from the sound waves, means for rectifying the currents to provide a control voltage, means to control the gain of the amplifying means with said control voltage, means to generate superaudible control oscillations, an electronic reactance device electrically associated with the gen-



erating means for control of the frequency of said superaudible oscillations, means responsive directly to said control voltage to vary the magnitude of the reactive effect of said electronic device whereby said superaudible frequency is varied, and means for recording both said amplified audio currents and said superaudible oscillations.

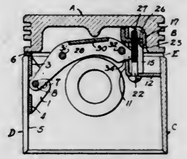
2,349,889
METHOD OF CUTTING MAINS UNDER PRESSURE
George E. Steudel, Chicago, Ill.
Application December 11, 1941, Serial No. 422,600
5 Claims. (Cl. 29—157)



1. The method of cutting a section from a main containing a fluid under pressure and inserting a new section therein, which includes the steps of cutting through the wall of the main in separate peripheral increments to form one zone of cleavage, applying a packing after each increment is cut to prevent the escape of fluid from the main, then at a second zone of cleavage spaced from the first mentioned zone, repeating the aforesaid steps to thus completely sever from the main the section thereof between said zones, removing the packings at both zones of cleavage, applying a respective temporary sealing member to the main at each of said zones of cleavage, removing the severed section, inserting a new section of main, connecting the ends of said new section to the main, and removing the said temporary sealing members, to thus establish communication through said new section.

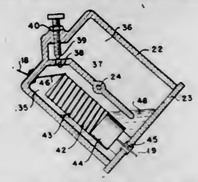
2,349,890
PISTON EXPANDER
Joseph Sunnen, Clayton, Mo., assignor to Cornelia Sunnen, Clayton, Mo.
Application September 4, 1942, Serial No. 457,349
20 Claims. (Cl. 309—12)

1. An expander for a piston having a head and an expansible skirt, said expander including an anchor plate for fixed association with said expansible skirt, an arm pivotally associated at one end with said anchor plate, said arm extending diagonally to an opposed point in the piston head and being bent intermediate its length to lie adjacent the inner faces of said head for a portion of its length, a bracket en-



gaging the piston head adjacent the upper end of said arm, and a member carried by said bracket and adjustable in the direction of the length of the piston for engaging the end of said arm to cause the same to have a rectilinear movement against the anchor plate for expanding the skirt of the piston.

2,349,891
HEAT CONTROL FOR ARC WELDING
Joseph M. Tyrner, Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1941, Serial No. 412,061
5 Claims. (Cl. 201—55)



1. Means for controlling the heat of electric arc-welding apparatus including a generally cylindrical housing containing a partition extending in the direction of the cylindrical axis of the housing and dividing the housing into two chambers communicating with each other at one end of the housing by a passage through the partition, a valve for controlling the extent of opening of said passage, said partition terminating at a location short of the other end of the housing so as to leave the chambers in communication at one end independently of said valve, a resistance element in one of the chambers, and a conducting liquid that short circuits at least a portion of the resistance element when the housing is in one position, the chambers being so related that the liquid drains from the chamber containing the resistance element and through said passage to the other chamber when the housing is in another position.

2,349,892
PITCHER MANIKIN
John L. Vaughn, Chicago, Ill., assignor to Richard W. Hood, Chicago, Ill.
Application August 22, 1942, Serial No. 455,758
6 Claims. (Cl. 124—6)

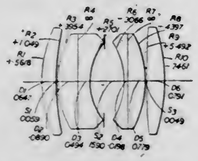
1. In a ball projecting device comprising a swinging arm pivotally mounted for movement out of normal position into ball projecting position, an inverted trough formation at the free end of said arm, a lever pivotally mounted on said arm for rocking movement in the direction of the orbit of movement of said arm, a projection on said lever and movable toward and away from said trough formation and adapted to coact

with the latter to receive a ball and to hold the latter while said arm is moved into ball projecting position, and counterbalance means formed on said lever normally urging said projection toward said inverted trough formation and



adapted to urge said projection in an opposite direction when said arm arrives at a point adjacent said ball projecting position, and the trough formation is disposed in ball supporting position, to release the ball for projection upon return of said arm toward normal position.

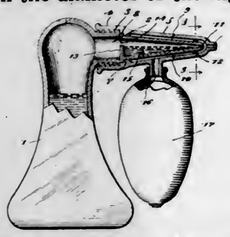
2,349,893
OPTICAL OBJECTIVE
Arthur Warmisham and Charles Gorrie Wynne, Leicester, England, assignors to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application January 2, 1943, Serial No. 471,142
In Great Britain November 27, 1941
21 Claims. (Cl. 88—57)



1. An optical objective corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and comprising a diaphragm and four components in axial alignment, two on either side of the diaphragm, of which the two outer components are simple and convergent and the two inner are compound divergent meniscus components each having a divergent element cemented to a convergent element, wherein the objective has a reversed paraxial secondary spectrum and the two divergent elements are made of potassium bromide crystal, while the average value of the Abbé ν numbers of the materials used for the four convergent elements is not greater than 49.0, and not less than 42.0.

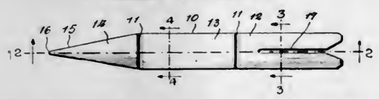
2,349,894
ATOMIZER
Walter A. Wells, Washington, D. C.
Application June 8, 1942, Serial No. 446,235
3 Claims. (Cl. 299—88)

3. An atomizer comprising a solution container having a laterally extending neck in communication therewith, a nozzle removably mounted on the neck, an injector confined within the nozzle and spaced therefrom to provide an air chamber, said injector having its inner end abutting the neck and formed with a transverse wall of less height than the diameter of the injector to pro-



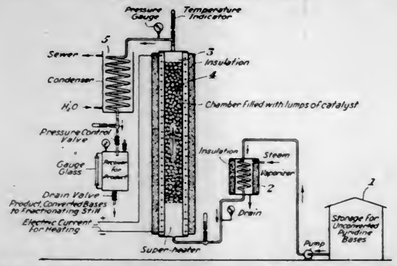
vide a passage for solution from the neck into the injector, said wall serving to trap a quantity of solution in the injector when the container is tilted, and means for forcing air into said chamber to effect atomization of the solution from the injector and nozzle.

2,349,895
HAIR CURLING AND WAVE DEVICE
Henry Clay Whittaker, Memphis, Tenn.
Application October 14, 1943, Serial No. 506,239
1 Claim. (Cl. 132—41)



A hair curler of the character described comprising a blank of sheet material of elongated form, including an end portion longitudinally slotted through the extremity to receive a strand of hair as described, the material of the device being crimped transversely a spaced distance from the inner end of said slot, and having a second transverse crimped portion at a distance from the first crimped portion corresponding to the length of the slotted end portion, a pointed end portion outwardly of the last named crimped part, for the purposes described, the material being adapted to be bent at said crimped portion, for the uses described.

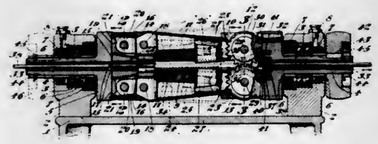
2,349,896
PROCESS FOR PREPARING METHYL PYRIDINES SUITABLE FOR CONVERSION INTO NICOTINE DERIVATIVES
Philip J. Wilson, Jr., and Joseph H. Wells, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application January 30, 1942, Serial No. 428,960
7 Claims. (Cl. 260—290)



1. The process of producing 3-methyl pyridine suitable for conversion into nicotine derivatives,

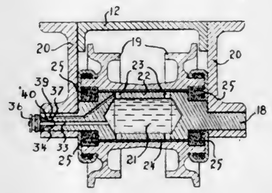
which comprises heating, in the presence of a catalyst, a methyl pyridine selected from the class consisting of 2-methyl pyridine and 4-methyl pyridine to a temperature of at least approximately 500° C. and in the absence of free oxygen until substantial rearrangement of the compound of the said class is effected, and recovering the 3-methyl pyridine from the resulting reaction made.

2,349,897
APPARATUS FOR POLISHING WIRE
Tom Wilson, Baltimore, Md., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application October 1, 1942, Serial No. 460,396
21 Claims. (Cl. 29—90.5)



1. In a polishing machine, a frame, spaced journal bearings for supporting the frame, means for rotating the frame, a pair of coacting dies mounted for radial movement in the frame, a swinging lever pivoted to the frame for actuating each dies adapted to throw the dies inwardly toward the axis of the frame into operative position by centrifugal force during the rotation of the frame and means for gearing one end of the swinging levers together.

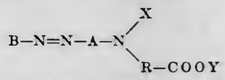
2,349,898
LUBRICATING MEANS
William O. Bechman, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 16, 1941, Serial No. 398,206
1 Claim. (Cl. 308—103)



In the combination, a fixed shaft having an internal chamber having perforate outer walls adapted to receive fluid and including upper and lower portions, said fixed shaft having a fluid supply conduit leading to the lower portion of the chamber, a fluid supply fitting connected with said conduit and movable with respect to said fixed shaft, said chamber including an overflow outlet conduit at its upper portions to permit escape of fluid from the chamber, both of said conduits terminating at one end of the fixed shaft and lying substantially parallel one to the other, and means normally closing said outlet conduit and operable by movement of the supply fitting with respect to the fixed shaft to open said outlet.

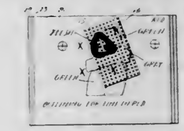
2,349,899
PRODUCTION OF AZO DYESTUFFS
Bernd v. Bock, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application July 13, 1939, Serial No. 284,248. In Germany July 28, 1938
5 Claims. (Cl. 260—155)

1. Azo dyestuffs corresponding to the general formula



wherein A stands for a monocyclic radical of the benzene series free from sulfonic and carboxylic acid groups, wherein B stands for a radical free from sulfonic and carboxylic acid groups selected from the group consisting of radicals of the benzene, naphthalene and benzothiazole series, wherein X stands for a member of the group consisting of hydrogen, alkyl, cycloalkyl, aralkyl and phenyl and a chain of several methylene groups connected with the radical A so as to form a tetrahydroquinoline nucleus, wherein R stands for an alkylene radical, and wherein Y stands for an alkyl radical containing at least one free hydroxy group.

2,349,900
METHOD OF MAKING COLOR REPRODUCTIONS
Albert R. Bourges, New York, N. Y.
Application June 10, 1940, Serial No. 339,604
8 Claims. (Cl. 101—401.1)

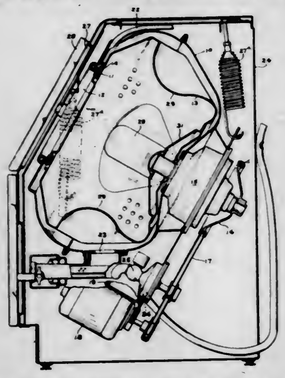


1. The method of forming printing plates for making color reproductions of line copy, wash drawings, photographs, or combinations thereof, which consists in the steps of forming a negative of the copy, printing the negative on a sensitized metal plate, placing thereover a plurality of superimposed transparent sheets, marking color notations on the first sheet constituting a color guide sheet, tracing on the second sheet the outlines of areas on the print to be reproduced in color, adding detail to desired portions of such areas by applying thereto a transparent shading sheet having detail thereon, and then producing a printing plate using the transparent sheet and attached shading sheet as a negative.

2,349,901
ROTOR CONSTRUCTION
Frank Breckenridge, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 21, 1940, Serial No. 371,102
2 Claims. (Cl. 68—140)

1. In a washing machine rotor construction, the combination of a basket including a side wall and a re-entrant end wall defining a dome within the side wall, a sleeve for supporting the basket and having an end thereof secured to a central portion of the dome, a reinforcing wall member secured adjacent its periphery to an outer portion of the re-entrant end wall, said wall mem-

ber having an offset portion extending within the re-entrant wall and disposed generally in concentric relation with the re-entrant wall, said wall member having the central portion thereof secured to a portion of the sleeve axially spaced



from said end thereof, a shaft carrying said sleeve, and a structure for rotatably supporting the shaft, said structure having a portion thereof extending within the offset portion of said wall member.

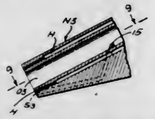
2,349,902

DESEAMING AND DESURFACING APPARATUS

James H. Bucknam, Cranford, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York

Original application January 14, 1939, Serial No. 250,965. Divided and this application February 21, 1940, Serial No. 320,092

7 Claims. (Cl. 158—27.4)



1. A blowpipe nozzle comprising an elongated body member having an outer end face, a relatively large longitudinal bore opening at its outer end in the outer end face of said member for discharging a main jet of oxidizing fluid obliquely against and along a work surface for thermochemical reaction with surface material to form an undercut space, and a pair of relatively small bores each of which opens at its inner end to said large bore, extends downwardly and laterally therefrom and then forwardly and inwardly toward said outer end face of said member, said small bores opening at their outer ends to said face for discharging auxiliary jets of such oxidizing fluid obliquely against and along the work surface at the margins of said undercut space, the angle of impingement and the velocity of said auxiliary jets being substantially less than that of said main jet.

2,349,903

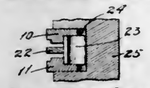
PISTON RING ASSEMBLY

Albert P. Fall, Toledo, Ohio

Application August 3, 1940, Serial No. 350,229

3 Claims. (Cl. 309—45)

1. A piston ring assembly comprising ring segments, said ring segments including upper and lower members having radially inwardly extending flanges and axially extending shoulder flanges, each of said shoulder flanges having an outer recessed edge providing a cylinder engaging surface of less width than the axial width of the member, a radially expansive spring expander seated between said radially extending flanges and against said axially extending shoulder flanges, and a floating ring segment between



said upper and lower members seated against said spring expander and extending radially outward thereof to terminate flush with the cylinder engaging surfaces on said ring segments, said ring assembly being adapted to slidingly fit within a piston ring groove with the spring expander pressing against the bottom of the groove and against the ring segment members and the floating ring to hold them against the wall of a cylinder.

2,349,904

PROCESS FOR PREPARING CATALYTIC MATERIALS

Kafi H. Hachmuth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 17, 1940, Serial No. 370,558

11 Claims. (Cl. 260—683.15)

1. In a catalytic process for the polymerization of low-boiling olefin hydrocarbons heavier than ethylene, the improvement which comprises preparing a hydrous gel of silicic acid, treating said hydrous gel at least twice with an aqueous solution of a hydrolyzable salt of a metal selected from Groups III B and IV A of the periodic system, subsequent to each such treatment washing said treated gel with water to free it substantially of soluble ionic material, and finally drying said gel at a temperature not substantially higher than approximately 225° F. and to a water content such that the resultant material is adapted to polymerize low-boiling olefin hydrocarbons heavier than ethylene when present in a hydrocarbon mixture in a concentration between 15 and 40 per cent at a temperature between approximately 200° and approximately 225° F., and subsequently passing a hydrocarbon material containing low-boiling olefins heavier than ethylene, in an amount between 15 and 40 per cent thereof, over said catalyst at an initial polymerization temperature not higher than approximately 225° F.

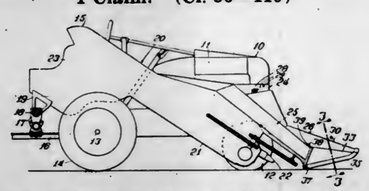
2,349,905

HARVESTER CONSTRUCTION

Benjamin M. Hyman, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application July 14, 1941, Serial No. 402,307

1 Claim. (Cl. 56—119)



In combination, a tractor, a harvester mounted thereon and including shield members and

snapping units mounted at opposite sides of the tractor, pointed hollow shell members secured at two points to the shield members at the front of the tractor and having under surfaces sloping upwardly in a forward direction for pressing down extraneous plant growth at the sides of corn stalks from which ears are removed by the snapping units, one point of securement of each shell member to the shield members being adapted to be removed so as to leave each shell member pivotally connected by the other point of securement and thereby to ride the ground as a divider.

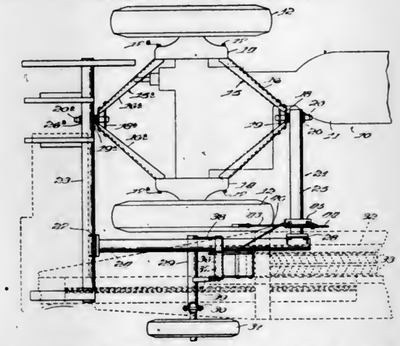
2,349,906

TRACTOR-ATTACHED IMPLEMENT

Benjamin M. Hyman, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application August 28, 1941, Serial No. 408,645

19 Claims. (Cl. 56—15)



1. In combination, a tractor having a rear axle, an implement frame, and supporting structures in the form of V's for the implement frame connected by the ends of the legs of the V's to the tractor axle and extending forwardly and rearwardly of the axle to provide at the apices of the V's pivotal mountings for the implement frame forward and rearward of the axle.

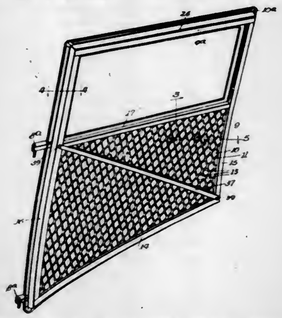
2,349,907

METAL DOOR

Alfred S. Kos, Glendon T. Gerlach, and Peter Altman, Detroit, Mich., assignors, by mesne assignments, to Consolidated Vultee Aircraft Corporation, a corporation of Delaware

Application July 9, 1941, Serial No. 401,614

11 Claims. (Cl. 189—46)



1. A door having a closed panel comprising a thin imperforate metal sheet and expanded metal bonded to the inner face of the sheet at spots distributed throughout the area of the sheet and forming a rigid backing for preventing flexure of the sheet and box-like border-strips having transversely extending portions around the margins of the expanded metal, the margin of the sheet and the border-strips being interfolded and bonded together, the marginal portions of the expanded metal having transversely extending portions bonded to the transversely extending portions of the strips.

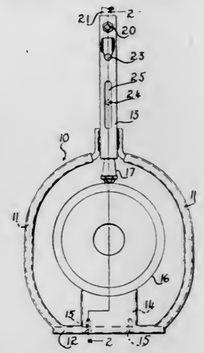
2,349,908

HOLDER FOR DEPLATING ARTICLES

Ralph R. La Motte, Richmond, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application March 3, 1941, Serial No. 381,481

2 Claims. (Cl. 204—297)



1. A holder for a circular metallic article adapted to have material removed therefrom upon immersion in an electrolytic bath, said holder comprising a metal support element having a tubular metal end portion, a spring-pressed plunger enclosed within the end portion, a metallic ring attached to the end portion and extending in a closed loop beyond the end of the end portion and in substantially the same plane therewith, a non-metallic article-holding tip carried on the plunger and projecting into the ring, the tip extending along a diametric line into the ring along the projected axis of the plunger, a metallic work-holding means carried by the ring at a location substantially diametrically opposed to the aforementioned tip, said ring being coated with a non-metallic coating, the latter article-holding means likewise being similarly coated but leaving a radially inward contact area uncovered to be engaged by the article, said spring plunger acting through its tip to clamp the article against the latter contact area and to automatically compensate for wear on the exposed area of said latter contact area.

2,349,909

PROCESS OF MAKING MINERAL WOOL BATTS

Virgil E. Meharg, Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of New Jersey

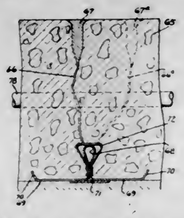
No Drawing. Application February 17, 1940, Serial No. 319,465

4 Claims. (Cl. 117—126)

1. Process of making a batt containing intersecting smooth surfaced non-cellular fibers of

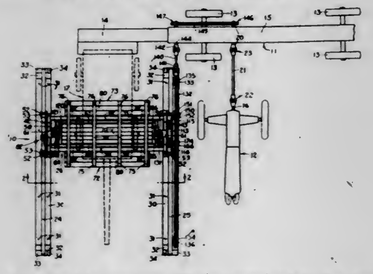
glass wool which comprises coating the fibers with a dilute watery alkaline solution of a phenol aldehyde resinoid, said solution having a viscosity between approximately 1.1 centipoises and approximately 10 centipoises, dehydrating the coating on one portion of the fibers sufficiently slowly to cause the coating to migrate to the intersection points of the fibers and dehydrating the coating on another portion sufficiently quickly to cause the resinoid to deposit from the solution in situ.

2,349,910
JOINT CONSTRUCTION
Clyde L. Methven, St. Paul, Minn.
Application June 19, 1941, Serial No. 398,792
8 Claims. (Cl. 94—18)



1. An assembly for use in preventing the passage of water through joints in pavement and the like which comprises a membrane having a central transversely flexible portion and relatively movable edge flanges extending into the space occupied by the pavement or the like, a protection member covering said flexible portion on one side, and a second member covering said flexible portion on the other side, said covering members being permanently attached so as to be irremovable when the assembly is cast into a concrete section.

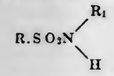
2,349,911
WAGON DUMP
Leonard B. Neighbour and Frank T. Court, Moline, and Ben R. Haverstick, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 5, 1940, Serial No. 355,474
15 Claims. (Cl. 214—46.5)



1. A portable wagon dump comprising a pair of rails adapted to rest on the ground in parallel spaced relation, a platform having supporting wheels adapted to run on said rails, flange means on said wheels engageable with said rails to prevent transverse movement of the platform relative thereto, and means on said rails engageable with said platform for locking the same against vertical movement with respect to the rails, whereby said rails and said platform are held together during transportation of the wagon dump.

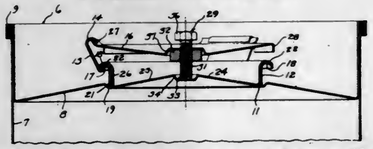
2,349,912
HALOGEN METHYL COMPOUNDS OF SULPHONAMIDES AND SULPHONHYDRAZIDES AND A PROCESS OF PREPARING THEM
Ludwig Orthner, Gerhard Balle, and Heinz Schild, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 23, 1938, Serial No. 247,394. In Germany December 24, 1937
8 Claims. (Cl. 260—556)

1. The process which comprises reacting upon a compound of the general formula



wherein R stands for an aliphatic hydrocarbon radical of at least 4 carbon atoms and R_1 stands for a member of the group consisting of hydrogen and alkyl radicals, with formaldehyde and hydrochloric acid, in the presence of a liquid medium of the group consisting of water and organic solvents.

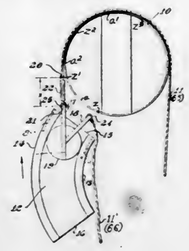
2,349,913
CONTAINER CLOSURE
Robert D. Patterson, Elizabeth, N. J., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application February 25, 1941, Serial No. 380,422
3 Claims. (Cl. 220—25)



1. In combination with a container wall having a circular opening therein and a cylindrical flange bounding said opening in concentric relation therewith, said wall being formed with an annular external depression at said flange, a plurality of lugs each formed of an elongated strip of metal positioned at one end in said depression and extending outwardly of said wall alongside of said flange, each of said lugs being formed with a transverse offset portion intermediate its length and a hook portion at the outer end thereof, the outer end of said flange being bent over the offset portion of each of said lugs to clamp said lugs against said wall and to form a seat at the outer end of said flange, a closure for said opening adapted to engage said seat, a disc shaped locking member provided with a body portion of substantially the same circumference as said closure and having a plurality of radially extending projections equal in number to the number of said lugs and formed to detachably engage said book portions for supporting said locking member across said opening in spaced relation to said closure, and a screw mounted centrally of said locking member and engageable with said closure for urging the same against said flange seat.

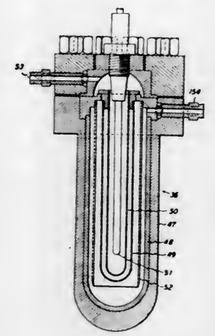
2,349,914
MATERIAL LOADING AND CONVEYING
Richard Peale, Clearfield, Pa., and Rembrandt Peale, Jr., Greenwich, Conn.
Application March 10, 1942, Serial No. 434,070
27 Claims. (Cl. 37—115)

2. In apparatus for loading shot-down coal or the like, in combination, a skip, means for drawing said skip toward a pile of shot-down coal, skip-guiding means for changing the direction of the skip and affording bearing support thereto while it is being drawn into said pile to load it with coal, said skip having spaced side walls,



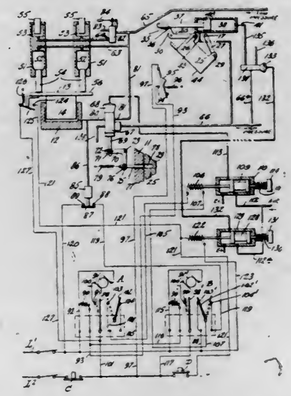
a pivoted arm projecting from the top of said skip over one of said walls and adapted to provide spacing and bearing contact between said skip and said guiding means in its path, and a rope cooperating with said arm for drawing the skip.

2,349,915
PROCESS FOR SYNTHESIS OF HYDROCARBONS, ALCOHOLS, AND FORMALDEHYDE
Paul Xavier Spillane, Ashfield, near Sydney, New South Wales, Australia, assignor to Keith Williams, Wahroonga, near Sydney, Philip Ring, Sydney, and Thomas Andrew Lawrie, Killara, near Sydney, New South Wales, Australia
Application April 22, 1940, Serial No. 331,067
In Australia April 29, 1939
5 Claims. (Cl. 204—168)



1. A process for synthesising a member of the group consisting of hydrocarbons, alcohols, and mixtures thereof, which includes the step of passing a mixture of hydrogen and carbon monoxide through an alternating electric field whereof the potential difference is from 60,000 to 100,000 volts and whereof the frequency substantially synchronises with the natural molecular oscillation periodicities of the hydrogen and carbon monoxide under treatment, said field frequency being between 6,000,000 and 37,000,000 cycles per second whereby, in accordance with the magnitude of the said field frequency, the said hydrogen and carbon monoxide react to produce a corresponding member of the aforesaid group.

2,349,916
POWER PRESS
Thomas F. Stacy, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio
Application April 9, 1940, Serial No. 328,643
25 Claims. (Cl. 18—16)

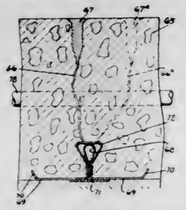


9. In a shiftable head press, a base, a pair of plates connected to said base disposed in spaced, parallel, side by side upright positions, and with the faces of said plates extending in directions substantially forwardly and rearwardly of said press a platen disposed between said plates and guided for movement along said plates, means supported by said base for operating said platen back and forth in a desired path, a press head having a pressing face, a pair of links hinged to said plates along the forward edges thereof for swinging movement about coincident axes and hinged at their free ends to said head adjacent the forward edge thereof, a pair of links similarly hinged to said plates adjacent the opposite edges thereof and similarly hinged to said head along the rear edge thereof, with all of said links approximately parallel to one another when extending generally in the direction of travel of said platen, and floatingly supporting said head with said pressing face approximately normal to said path, whereby the pressure on said face by said platen during a pressing operation will be transmitted through said links to said plates in directions endwise of said links, means for swinging said head on said links into a position in which said pressing face is out of pressing relation to said platen and is exposed for easy access thereto, and means carried by at least one of said plates for releasably engaging with said head for locking it against swinging movement with said pressing face approximately normal to said path.

19. In a hydraulic press, a frame, a pressing head on said frame, a ram on said frame and operable toward and from said head, means including a hydraulic circuit for operating said ram in a pressing stroke, valve means in said circuit for controlling the advance and retraction of said ram, control means having a control member yieldingly urged into a position in which it causes an operation of said valve means into a condition to cause an advance of said ram, means responsive to the pressure on said ram in said circuit and operable automatically and repeatedly whenever the pressure on said ram fluctuates above and below one selected pressure for forcing said control member out of said position and causing

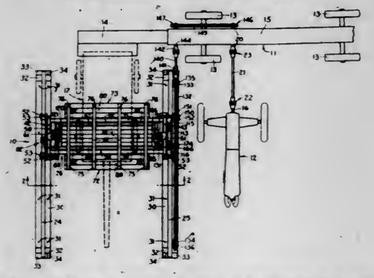
glass wool which comprises coating the fibers with a dilute watery alkaline solution of a phenol aldehyde resinoid, said solution having a viscosity between approximately 1.1 centipoises and approximately 10 centipoises, dehydrating the coating on one portion of the fibers sufficiently slowly to cause the coating to migrate to the intersection points of the fibers and dehydrating the coating on another portion sufficiently quickly to cause the resinoid to deposit from the solution in situ.

2,349,910
JOINT CONSTRUCTION
Clyde L. Methven, St. Paul, Minn.
Application June 19, 1941, Serial No. 398,792
8 Claims. (Cl. 94—18)



1. An assembly for use in preventing the passage of water through joints in pavement and the like which comprises a membrane having a central transversely flexible portion and relatively movable edge flanges extending into the space occupied by the pavement or the like, a protection member covering said flexible portion on one side, and a second member covering said flexible portion on the other side, said covering members being permanently attached so as to be irremovable when the assembly is cast into a concrete section.

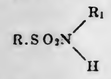
2,349,911
WAGON DUMP
Leonard B. Neighbour and Frank T. Court, Moline, and Ben R. Haverstick, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 5, 1940, Serial No. 355,474
15 Claims. (Cl. 214—46.5)



1. A portable wagon dump comprising a pair of rails adapted to rest on the ground in parallel spaced relation, a platform having supporting wheels adapted to run on said rails, flange means on said wheels engageable with said rails to prevent transverse movement of the platform relative thereto, and means on said rails engageable with said platform for locking the same against vertical movement with respect to the rails, whereby said rails and said platform are held together during transportation of the wagon dump.

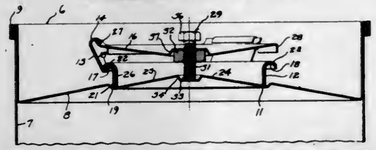
2,349,912
HALOGEN METHYL COMPOUNDS OF SULPHONAMIDES AND SULPHONHYDRAZIDES AND A PROCESS OF PREPARING THEM
Ludwig Orthner, Gerhard Balle, and Heinz Schild, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 23, 1938, Serial No. 247,394. In Germany December 24, 1937
8 Claims. (Cl. 260—556)

1. The process which comprises reacting upon a compound of the general formula



wherein R stands for an aliphatic hydrocarbon radical of at least 4 carbon atoms and R_1 stands for a member of the group consisting of hydrogen and alkyl radicals, with formaldehyde and hydrochloric acid, in the presence of a liquid medium of the group consisting of water and organic solvents.

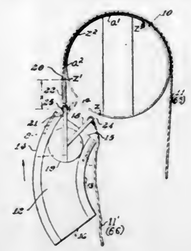
2,349,913
CONTAINER CLOSURE
Robert D. Patterson, Elizabeth, N. J., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application February 25, 1941, Serial No. 380,422
3 Claims. (Cl. 220—25)



1. In combination with a container wall having a circular opening therein and a cylindrical flange bounding said opening in concentric relation therewith, said wall being formed with an annular external depression at said flange, a plurality of lugs each formed of an elongated strip of metal positioned at one end in said depression and extending outwardly of said wall alongside of said flange, each of said lugs being formed with a transverse offset portion intermediate its length and a hook portion at the outer end thereof, the outer end of said flange being bent over the offset portion of each of said lugs to clamp said lugs against said wall and to form a seat at the outer end of said flange, a closure for said opening adapted to engage said seat, a disc shaped locking member provided with a body portion of substantially the same circumference as said closure and having a plurality of radially extending projections equal in number to the number of said lugs and formed to detachably engage said book portions for supporting said locking member across said opening in spaced relation to said closure, and a screw mounted centrally of said locking member and engageable with said closure for urging the same against said flange seat.

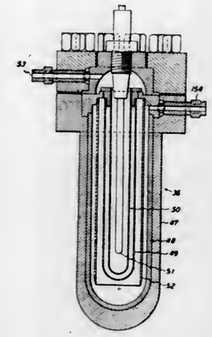
2,349,914
MATERIAL LOADING AND CONVEYING
Richard Peale, Clearfield, Pa., and Rembrandt Peale, Jr., Greenwich, Conn.
Application March 10, 1942, Serial No. 434,070
27 Claims. (Cl. 37—115)

2. In apparatus for loading shot-down coal or the like, in combination, a skip, means for drawing said skip toward a pile of shot-down coal, skip-guiding means for changing the direction of the skip and affording bearing support thereto while it is being drawn into said pile to load it with coal, said skip having spaced side walls,



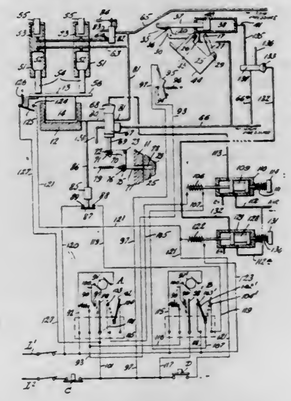
a pivoted arm projecting from the top of said skip over one of said walls and adapted to provide spacing and bearing contact between said skip and said guiding means in its path, and a rope cooperating with said arm for drawing the skip.

2,349,915
PROCESS FOR SYNTHESIS OF HYDROCARBONS, ALCOHOLS, AND FORMALDEHYDE
Paul Xavier Spillane, Ashfield, near Sydney, New South Wales, Australia, assignor to Keith Williams, Wahroonga, near Sydney, Philip Ring, Sydney, and Thomas Andrew Lawrie, Killara, near Sydney, New South Wales, Australia
Application April 22, 1940, Serial No. 331,067
In Australia April 29, 1939
5 Claims. (Cl. 204—168)



1. A process for synthesising a member of the group consisting of hydrocarbons, alcohols, and mixtures thereof, which includes the step of passing a mixture of hydrogen and carbon monoxide through an alternating electric field whereof the potential difference is from 60,000 to 100,000 volts and whereof the frequency substantially synchronises with the natural molecular oscillation periodicities of the hydrogen and carbon monoxide under treatment, said field frequency being between 6,000,000 and 37,000,000 cycles per second whereby, in accordance with the magnitude of the said field frequency, the said hydrogen and carbon monoxide react to produce a corresponding member of the aforesaid group.

2,349,916
POWER PRESS
Thomas F. Stacy, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio
Application April 9, 1940, Serial No. 328,643
25 Claims. (Cl. 18—16)

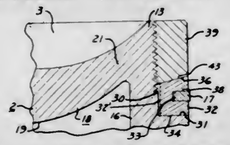


9. In a shiftable head press, a base, a pair of plates connected to said base disposed in spaced, parallel, side by side upright positions, and with the faces of said plates extending in directions substantially forwardly and rearwardly of said press a platen disposed between said plates and guided for movement along said plates, means supported by said base for operating said platen back and forth in a desired path, a press head having a pressing face, a pair of links hinged to said plates along the forward edges thereof for swinging movement about coincident axes and hinged at their free ends to said head adjacent the forward edge thereof, a pair of links similarly hinged to said plates adjacent the opposite edges thereof and similarly hinged to said head along the rear edge thereof, with all of said links approximately parallel to one another when extending generally in the direction of travel of said platen, and floatingly supporting said head with said pressing face approximately normal to said path, whereby the pressure on said face by said platen during a pressing operation will be transmitted through said links to said plates in directions endwise of said links, means for swinging said head on said links into a position in which said pressing face is out of pressing relation to said platen and is exposed for easy access thereto, and means carried by at least one of said plates for releasably engaging with said head for locking it against swinging movement with said pressing face approximately normal to said path.

19. In a hydraulic press, a frame, a pressing head on said frame, a ram on said frame and operable toward and from said head, means including a hydraulic circuit for operating said ram in a pressing stroke, valve means in said circuit for controlling the advance and retraction of said ram, control means having a control member yieldingly urged into a position in which it causes an operation of said valve means into a condition to cause an advance of said ram, means responsive to the pressure on said ram in said circuit and operable automatically and repeatedly whenever the pressure on said ram fluctuates above and below one selected pressure for forcing said control member out of said position and causing

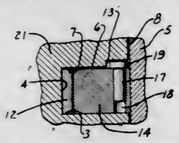
a retraction of said ram, when the pressure on the ram exceeds said selected pressure and releasing said control member when said pressure on said ram falls below said selected pressure, thereby causing repeated operations of said valve means and thereby a plurality of repeated momentary, incomplete minor retractions and then readvances of said ram alternately whenever pressure on said ram fluctuates above and below one selected pressure, means effective in all positions of the platen away from retracted position for removing said valve means from the control of said pressure responsive means after said retractions and readvances have continued for a predetermined extent; and means for automatically causing a complete retraction of said ram a predetermined interval of time after the first advance of said ram has been initiated and regardless of the rate of travel of said ram.

2,349,917
PISTON
Oscar L. Starr, Mission San Jose, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application July 8, 1940, Serial No. 344,304
2 Claims. (Cl. 309—44)



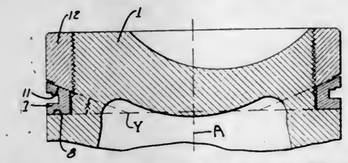
1. A piston comprising a body having a peripheral recess adjacent the crown thereof and which forms a peripheral shoulder, a peripherally grooved piston ring groove band in said recess free of molecular union with the piston body and supported by said shoulder, the band being of harder material than the piston body to provide a wear resistant seat for a piston ring adapted to seat in its groove and fitting with inside radial clearance with respect to the piston body, and a securing ring in said recess over said band to clamp said band firmly against said shoulder, the part of said securing ring adjacent said band having a peripheral recess to preclude application of direct pressure to the outer peripheral portion of said band.

2,349,918
PISTON CONSTRUCTION
Oscar L. Starr, Mission San Jose, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application July 8, 1940, Serial No. 344,305
3 Claims. (Cl. 309—31)



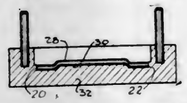
1. A piston arrangement comprising a piston having a peripheral piston ring groove, and a substantially uninterrupted peripheral channel in the upper side of said groove to minimize blow-by; and a piston ring adapted to seat in said groove and having a member adapted to project into said channel and during relative movement between said ring and said piston remove carbon from said channel to maintain it open.

2,349,919
FITTING OF MEMBERS
Oscar L. Starr, Mission San Jose, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application July 8, 1940, Serial No. 344,306
11 Claims. (Cl. 309—29)



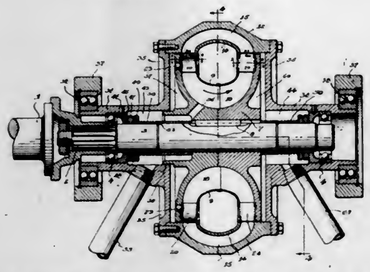
1. A piston having in the periphery thereof an annular member seated between surfaces inclined with respect to each other to form an angle the apex of which is spaced a predetermined distance off the axis of said piston for providing a predetermined loose or tight fit of said member at a predetermined temperature within a varying temperature range.

2,349,920
DIE
Carl J. Welcome, Toledo, Ohio
Original application August 19, 1940, Serial No. 353,195. Divided and this application August 25, 1941, Serial No. 408,182
3 Claims. (Cl. 18—47)



3. A die formed of superimposed metals including a layer of chromium of substantially uniform thickness constituting the working surface of the die; a metallic foundation of nickel bonded to said chromium layer the face of the metallic foundation formed to the shape of the working surface of the die; a layer of chromium bonded to the rear surface of said metallic foundation forming a covering therefor; and a metallic backing bonded to said chromium covering.

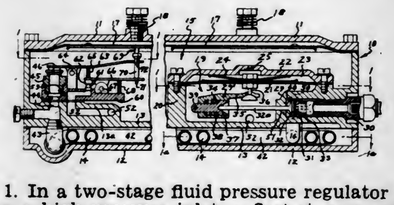
2,349,921
TORQUE REACTION DEVICE
Ernest E. Wemp, Detroit, Mich.
Application May 26, 1941, Serial No. 395,139
14 Claims. (Cl. 188—90)



1. A torque reaction device comprising a stator and a rotor cooperating to form a torus chamber adapted to be filled with liquid, the stator and rotor each having an inlet and an outlet, vanes adjacent the rotor outlet for accelerating the liquid to maximum angular momentum, vanes,

in the stator for receiving the liquid from the rotor outlet and arranged to change the direction of absolute velocity of the liquid and to direct the liquid from its outlet into the rotor inlet in a direction which opposes the direction of absolute velocity at the rotor outlet, and curved vanes adjacent the rotor inlet positioned so that a tangent at the entrance tips thereof is substantially parallel to the direction of relative velocity of the liquid entering the rotor inlet, the curvature of the vanes being such as to decelerate the angular momentum of the liquid from maximum to zero and to then re-accelerate the liquid to a lineal velocity and angular momentum such that the liquid enters the vanes adjacent the rotor outlet without shock.

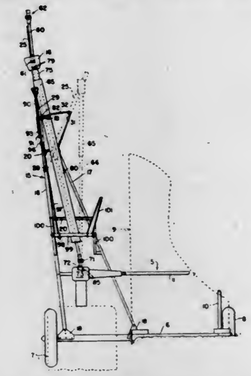
2,349,922
PRESSURE REGULATOR
Karl W. Westlund, Huntington Park, Calif., assignor to Ensign Carburetor Co., Ltd., Huntington Park, Calif., a corporation of California
Application July 1, 1940, Serial No. 343,443
14 Claims. (Cl. 50—10)



1. In a two-stage fluid pressure regulator having a high pressure inlet, a first stage regulator means, including a valve and a valve operating diaphragm, for reducing the high inlet pressure to an intermediate pressure, an intermediate pressure passage, a diaphragm chamber located on that side of the diaphragm where pressure on it tends to close the valve, a low pressure chamber, and a second stage regulator actuated by pressure in the low pressure chamber and including a valvular means which controllably admits fluid from the intermediate pressure passage to the low pressure chamber; the combination of means forming a restricted communication from the intermediate pressure passage to the first stage diaphragm chamber to restrictedly apply intermediate pressure thereto, and a passage leading from the first stage diaphragm chamber to the valvular means of the second stage regulator so that said valvular means admits fluid directly from the first stage diaphragm chamber to the low pressure chamber.

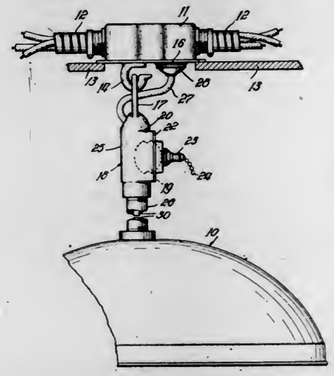
2,349,923
IMPLEMENT DRAFT DEVICE
Ralph L. Anderson, Chester Ray Arnold, and Louis A. Paradise, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Original application July 29, 1940, Serial No. 348,128. Divided and this application October 29, 1941, Serial No. 416,938
11 Claims. (Cl. 280—33.44)

1. In a machine of the class described, a main frame, a rigid draft frame fixed thereto and extending forwardly therefrom, a draft tongue pivotally connected to said draft frame for lateral swinging movement relative thereto between at least two positions, means for fixing said tongue in each of said positions, a power shaft extending forwardly from said machine along said draft frame, means including a universal joint for supporting the rear end of said shaft on one of said frames, a bearing for the forward end of said



shaft, and swivel means for mounting said bearing on said tongue providing for pivotal movement of said bearing about a vertical axis when said power shaft swings laterally with the tongue.

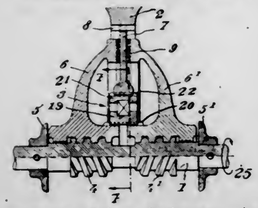
2,349,924
ELECTRICAL FIXTURE
Ernst G. K. Anderson, Chicago, Ill.
Application April 3, 1942, Serial No. 437,479
2 Claims. (Cl. 248—343)



2. In an electrical apparatus including a fixed electrical means and electrical means detachably suspended from said fixed electrical means, the means for suspending said detachable means from said fixed means including a conduit structure with conductors therein and having a conduit box adjacent one end thereof and connected at its opposite end with said detachable means, said conduit box having one end open and adapted for threaded engagement with the next adjacent part of said conduit structure, and a partially closed opposite end formed with an integral portion adapted for detachable connection with said fixed means, said conduit box having a central portion of enlarged section open at one side, and a cover for said one side adapted to carry switch mechanism thereon, said switch mechanism, when said cover is in a closed position relative to said open side, being located in said enlarged central portion in a spaced relation with the wall of said central portion, with the

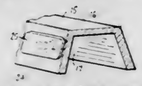
conductors in said conduit structure being connected with said switch mechanism and extended longitudinally through said conduit box for connection with said detachable means and said fixed means, said opposite end of the conduit box having an opening therein for said conductors.

2,349,925
ONE-WAY CLUTCH MECHANISM
Jean Edouard Andreau, Daurat, near Leognan, France; vested in the Alien Property Custodian
Application April 17, 1940, Serial No. 330,112
In Luxemburg April 15, 1939
7 Claims. (Cl. 192—41)



1. A one-way drive between two elements adapted to turn freely with respect to each other in one direction and to be locked angularly for the opposite direction of relative rotation, which comprises, in combination, a part carried by one of said elements in fixed angular relation thereto, a part movably carried by the other element, said parts having cooperating clutch means, one-way clutch means interposed between said parts adapted to prevent rotation with respect to each other in the direction of drive, and cooperating means carried by said other element and the second mentioned part for moving said second mentioned part into clutching engagement with the first mentioned part and angularly locking it with respect to said other element when said elements are relatively rotated to render the one-way clutch means effective.

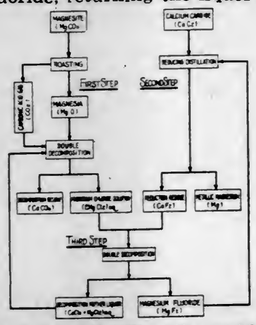
2,349,926
LADY'S HANDBAG
Robert Appel, New York, N. Y.
Application June 7, 1943, Serial No. 489,878
2 Claims. (Cl. 150—42)



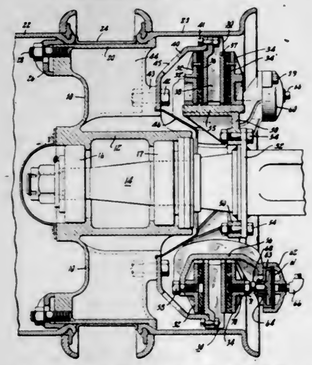
1. In a flexible handbag having an open top, a closure therefor comprising an inverted trough-like member adapted to envelop the bag top, said closure having flaring sides and end walls, and means for removably interlocking the closure with said handbag, said means comprising bayonet slots in the side walls of the bag and locking pins slidably engaged with the side walls of the closure for removable interengagement with the walls of the bayonet slots.

2,349,927
METHOD OF MANUFACTURING METALLIC MAGNESIUM
Tsuyoshi Arimori, Yukio Konishi, Junkichi Ishibashi, and Rinnosuke Yoshimura, Dairen, Manchukuo; vested in the Alien Property Custodian
Application April 22, 1941, Serial No. 389,728
7 Claims. (Cl. 75—67)

1. The method of recovering metallic magnesium which consists in roasting a magnesium ore, suspending it in a solution of a calcium salt, passing carbon dioxide into the solution, treating the resulting magnesium salt solution with calcium fluoride, returning the liquor to the calcium salt solution, distilling the residual magnesium fluoride with calcium carbide to vaporize metallic magnesium, and returning the calcium fluoride residue to the magnesium salt solution.



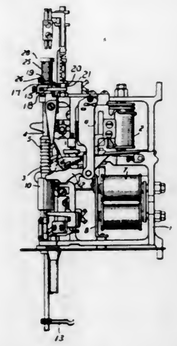
2,349,928
WHEEL AND BRAKE ASSEMBLY
Charles S. Ash, Milford, Mich.
Application February 26, 1941, Serial No. 380,582
3 Claims. (Cl. 188—72)



1. In an automotive wheel and brake assembly, the combination of an axle member, a wheel having a hub journaled for rotation about the end of the axle member, a centrally apertured brake member comprising outer and inner brake disks, the outer disk being of greater diameter than the inner disk and having its outer peripheral portion projecting beyond the outer peripheral portion of the latter, said disks being separated by radial partitions coextensive in radial extent with the outer disk and forming air passageways, the outer ends of said partitions being bent at an angle so as to face forwardly in one direction of rotation of the wheel, a pair of spaced apart centrally apertured brake shoes between which the brake member is located, one for engagement with each of the brake disks of the brake member and each of the brake shoes comprising a disk having its face adjacent the coacting brake disk of the brake member provided with friction material, mounting means carried by the axle member and located between the same and the inner peripheries of the brake member and shoes and comprising an annular series of independent guide rails independently secured to the axle and on which the brake shoes are mounted so as to be held from

rotation and so as to be axially slidable toward and from the brake disks of the brake member, and a dished member surrounding the inner end of the hub and the outer brake shoe and connected to the wheel and to the outwardly projecting peripheral portion of the outer brake disk of the brake member.

2,349,929
SWITCHING MECHANISM
George E. Atkins, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 1, 1942, Serial No. 460,369
4 Claims. (Cl. 267—1)



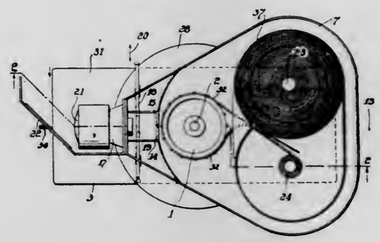
1. In combination, a shaft, a sleeve connected to said shaft having diametrically opposite slots at the free end thereof, a bracket associated with said sleeve, a helical spring surrounding said sleeve having one end secured to said bracket, a collar having an enlarged end and a smaller opposite end and an intermediate cone-shaped connecting portion, the opposite end of the spring being connected to said collar and sleeve by the wrapping of a last turn of the spring around the cone-shaped portion and by having the end of the spring straight and running diametrically across the sleeve through the opposite slots therein and corresponding apertures in the cone-shaped portion of the collar, said spring being thereby, when wound, tensioned against the cone-shaped portion of the collar to position its succeeding turns concentrically with each other on the sleeve.

2,349,930
AIRCRAFT CARRIER
William H. Atkinson, San Francisco, Calif.
Application August 1, 1942, Serial No. 453,168
5 Claims. (Cl. 114—43.5)



4. In an aircraft carrier of the type from which a plurality of aeroplanes operate, the combination of a hull having the conventional propulsion and steering machinery, a servicing deck extending substantially over the length and breadth of said hull, a flight deck supported at its sides above said servicing deck, an outwardly disposed deck forming portion at the bow and stern of said flight deck of sufficient size to accommodate an aeroplane, support forming means at the ends of said hull to which said outwardly disposed deck forming portions are hingedly connected, and means for swinging said outwardly disposed deck forming portions about their hinged connection with said support forming means, whereby they may be moved downwardly and upwardly about said support forming means to bring their free ends into register with said servicing deck or said flight deck.

2,349,931
PANORAMIC CAMERA
Franz G. Back, New York, N. Y., assignor of one-half to Robert D. Eshbaugh and one-half to Gastro-Photor Laboratories, both of New York, N. Y.
Application May 7, 1942, Serial No. 442,012
14 Claims. (Cl. 95—17)

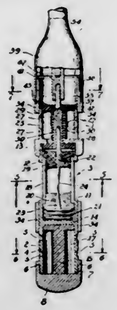


1. A panoramic camera comprising in combination a stationary base, a stationary sprocket drum supported by this base and adapted to carry the film during exposure, a camera casing enclosing said stationary sprocket drum and being rotatable about the axis of the same, a supply and a winding-up spool for the film arranged within said camera casing rotatably with the same means for rotating said winding up spool about its axis while the same is simultaneously rotated together with said casing about the axis of said stationary sprocket drum, and an optical picture-taking system arranged in a wall of said rotatable casing in such a manner as to form during rotation of said casing the required panoramic picture on that portion of the film which is stationarily supported by said cylindrical member within said rotatable casing.

2,349,932
APPARATUS FOR TAKING PHOTOGRAPHS OF CAVITIES OF THE BODY
Franz G. Back, New York, N. Y., assignor to Gastro-Photor Laboratories, New York, N. Y.
Application January 29, 1943, Serial No. 473,926
15 Claims. (Cl. 95—11)

1. In photographic apparatus of the class described, the combination of two tubular cameras provided each with at least one exposure chamber, a tubular lighting device between said cameras secured to one end of each of said cameras and forming with them one unitary camera structure leaving the other ends of said cameras open, a tubular shutter mechanism slidably enclosing said unitary camera structure, a shutter operating mechanism detachably attached on the one hand to the open end of one of said pair of tubular cameras and on the other hand to said shutter mechanism for moving the same relative to said unitary camera structure, a first camera cover detachably secured to said open end of said camera to which said shutter operating mechanism is detachably attached, said first

camera cover normally covering said open end of said camera to which said shutter operating mechanism is attached in such a manner that the exposure chamber or chambers in said camera are light-tightly closed also when said shutter operating mechanism is detached from said



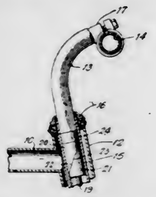
unitary camera structure and the shutter mechanism slidably enclosing the same, and a second camera cover detachably secured to the open end of the other of said pair of tubular cameras normally covering said open end and light-tightly closing the exposure chamber or chambers within said other camera.

2,349,933

COUPLING STRUCTURE

Cornelius J. Barry, Chicago, Ill., assignor to Superior Plating Works, Chicago, Ill., a corporation of Illinois

Application March 25, 1943, Serial No. 480,476
6 Claims. (Cl. 287—54)



1. A coupling structure comprising a tubular casing, a locking shoe within said casing, a stem having a threaded stud extending from the end thereof, at least a portion of said stem being disposed out of alignment with the axis of said stud and being rotatable thereabout, said stud being disposed in an end portion of said casing and extending beyond the shoe therein, and cam means carried by the portion of said stud extending beyond said shoe for engaging the shoe to bring the same into locking engagement with the casing when said stem is rotated about the axis of the stud.

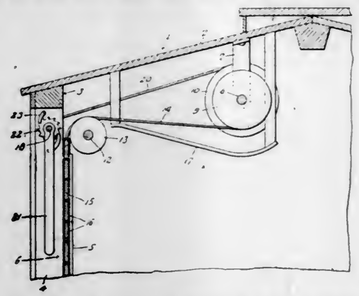
2,349,934

GRAIN CAR DOOR

Moses I. Beaudine, Abercrombie, N. Dak.

Application January 19, 1944, Serial No. 518,873
4 Claims. (Cl. 160—133)

1. The combination with a grain car having a door opening, a frame for the opening including a pair of vertical members, and a roof, a pair of guides mounted vertically on said vertical members, a pair of spaced, parallel, horizontal shafts rotatably suspended from the roof, reels fixed on one of the shafts, pulleys fixed on the other of said shafts, cables severally operable on the pulleys and secured, at one end, to the reels



for winding thereon, a flexible door mounted on the cables and operable in the guides, said door being operable over the pulleys and windable on the reels, and means for actuating the reels for winding the cables and the door thereon.

2,349,935

FLOATING SWIVEL RING FOR NONSKID CHAINS

Otto Bornemann, Berlin, Germany; vested in the Alien Property Custodian

Application March 22, 1941, Serial No. 384,730
In Germany March 26, 1940
2 Claims. (Cl. 152—245)



1. In an anti-skid chain for vehicle wheels, a floating ring adapted to roll freely on a portion of a cross-link of the chain, the metal of said ring for at least the exterior half of its cross-sectional area being of substantially semi-elliptical form with the major semi-axis of the ellipse extending radially of the ring.

2,349,936

MANUFACTURE OF TITANIUM SULPHATE SOLUTIONS

L'Roche G. Bousquet, Wilmington, Del., David W. Young, Roselle, N. J., and Allan W. Low, Woodside, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application June 10, 1941, Serial No. 397,386
11 Claims. (Cl. 23—117)

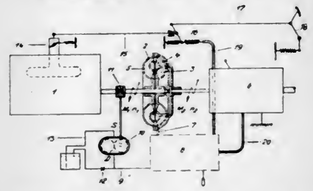
5. In the method for reducing the acidity factor of a crystalloidal titanium sulphate solution by acid extraction therefrom and without disturbing the crystalloidal properties thereof, the steps comprising (1) providing a crystalloidal water-titanium sulphate-iron sulphate starting solution containing total g. p. l. of Ti calculated as $TiOSO_4$ and Fe calculated as $FeSO_4$ not less than 575 and not more than 915 and having an Fe/TiO_2 ratio of not less than 0.3 and not more than 0.62, (2) agitating the starting solution with not less than one part by volume of a liquid extracting agent comprising a neutral organic oxygen containing compound substantially non-reactive with sulfuric acid at room temperature, soluble in water, and having specific gravity not above 1.034 at 25° C., a molecular weight of 46.1–118.1, and a dielectric constant of 4–24.1, (3) forming from the mass resulting from step (2) a titanium sulphate solution layer and an extracting agent-acid-water layer, and (4) separating said layers to recover the titanium sulphate solution layer having acidity factor less than that of said starting solution.

2,349,937

AUTOMATIC TRANSMISSION

Josef Buchhart, Stuttgart-Zuffenhausen, Germany; vested in the Alien Property Custodian

Application July 19, 1939, Serial No. 285,330
In Germany July 22, 1938
8 Claims. (Cl. 74—189.5)



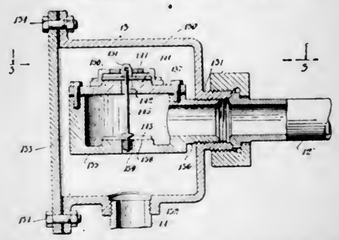
1. In combination, a prime mover, a change-speed drive having a plurality of predetermined driving ratios, a torque converter drivably connecting said prime mover with said change-speed drive, said converter having a driver element connected to said prime mover, a driven element connected to said change-speed drive, and a reaction member, control means responsive to the torque on said reaction member for actuating said change-speed drive to change the speed to a higher ratio upon a decrease in the torque load of the driven element below a predetermined minimum, and to change the speed to a lower ratio upon an increase in the torque load of the driven element above a predetermined maximum, said control means being ineffective to cause a change in said change-speed drive at that torque on the reaction member corresponding to the maximum transmission efficiency of said converter, and means for disabling said control means from actuation by said reaction member and permitting control of said change-speed drive at will.

2,349,938

MEANS FOR SEPARATING EXPANSIBLE FLUIDS FROM NONEXPANSIBLE FLUIDS

Algernon R. Burnette, New York, N. Y.

Application July 17, 1941, Serial No. 402,788
5 Claims. (Cl. 137—103)



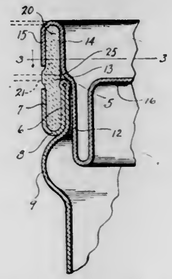
1. In a trap for separating non-expansible fluid from expansible fluid in combination, a casing to receive such fluids, two outlet openings therefrom, a valve for each of said openings connected together to operate in unison in the opening and closing directions, the relation of the valves to each other and to their respective openings being such that when one of said valves is closed the other remains open a small distance, and said other valve and its controlled passage being so arranged as to have a discharge passage of progressively increasing cross-sectional area extending for a relatively large distance permitting the expansion of expansible fluids escaping therethrough.

2,349,939

CAN

Wilford E. Burns, Burlingame, Calif., assignor to M. J. B. Company, San Francisco, Calif., a corporation of Delaware

Application April 4, 1942, Serial No. 437,652
4 Claims. (Cl. 220—48)



1. A can of the character described, comprising a body closed at its lower end and having its upper end open, and formed about said open end with an encircling flange that is turned outwardly and downwardly, then outwardly and finally upwardly, thus to provide a continuous, upwardly opening channel of substantial depth circumferentially about the open end of the can body; a closure member for the open end of the body, having a countersink removably fitted within the open end of the can, and the countersink being formed thereabout with an outwardly directed seat engaged with the peripheral edge of the body about the open end, and there being a flange continuing above the said seat, extended upwardly, then outwardly and finally downwardly, thus to provide a downwardly opening channel of substantial depth circumferentially of the closure opposite the first mentioned channel, and a cylindrical sealing band of a severable material, with upper and lower circumferential portions thereof seated and sealed in the channels of the closure and body, respectively, and having its medial circumferential portion exposed to the outside of the can for the severance thereof, thus to detach the closure from the body.

2,349,940

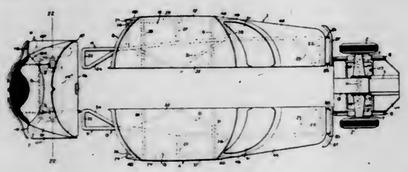
AUTOMOTIVE VEHICLE CONSTRUCTION

Burnie J. Craig, Los Angeles County, Calif.

Application February 12, 1940, Serial No. 318,397
26 Claims. (Cl. 296—28)

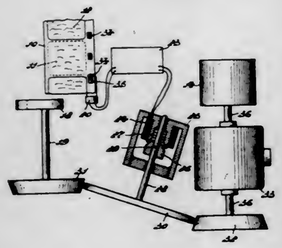
1. An automotive vehicle having a closed body comprising a plurality of compartments, the body including two unitary, complementary, side members, each side member constituting one half of the compartments and each including a continuous running gear supporting side rail and a body portion supported thereby, the side rails projecting beyond the body portion at one

end thereof, the side members each constituting integral portions connected together and an ad-



ditional unitary compartment forming member disposed above the projecting portions of the side rails and concentric thereto.

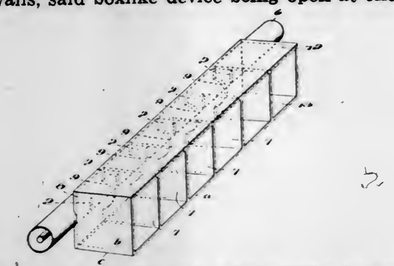
2,349,941
FILM APPARATUS
Arnaud Cramwinckel and Franciscus Lambertus van Weenen, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application July 3, 1941, Serial No. 401,026
In the Netherlands July 6, 1940
4 Claims. (Cl. 88—18.6)



1. An apparatus for periodically driving a film band provided with pictures and optical marks, comprising a picture gate, a member for continuously driving the film without slippage, a shoe member arranged to reciprocate between two predetermined positions, said shoe member in one position engaging the film at a portion between the first member and the picture gate and forming the same into a loop of predetermined length, means to drive one of said members at a substantially constant speed, means for driving the other member from the driven member and comprising a variable coupling, and means for controlling the position of the pictures at the picture gate, said latter means including an electro-optical device controlled by the optical marks and controlling said coupling.

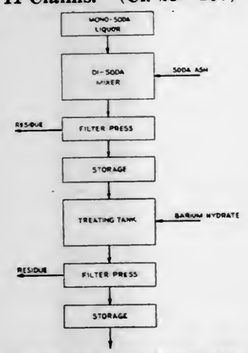
2,349,942
HOLLOW SPACE RADIATOR
Walter Dällenbach, Berlin, Germany; vested in the Alien Property Custodian
Application August 22, 1940, Serial No. 353,755
In Germany August 22, 1939
3 Claims. (Cl. 250—11)

3. A device for radiating ultra short waves, particularly of a wave length of less than 1 meter, comprising at least two tuned hollow spaces defined by a plurality of walls having conducting surfaces, said hollow spaces being closely adjacent one another and adjacent spaces having one wall in common, the wall between the single hollow spaces having openings therethrough whereby to couple the hollow spaces electrically, said hollow spaces being defined by a boxlike device with parallel walls, said boxlike device being open at one



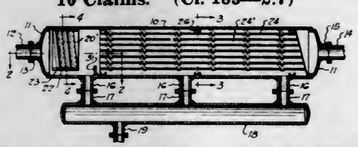
side and having a breadth substantially longer than the length and depth and being divided by walls in several single radiators.

2,349,943
PROCESS FOR PURIFYING DISODIUM PHOSPHATE
Arthur C. Ditzel, Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 2, 1942, Serial No. 437,375
11 Claims. (Cl. 23—107)



1. In a process for purifying disodium phosphate liquor contaminated with soluble phosphate rock impurities the steps of reacting the liquor with a small amount of barium hydrate but sufficient to form a precipitate of barium diphosphate which acts to remove said impurities from solution, and filtering the resultant material.

2,349,944
METHOD OF AND MEANS FOR SEPARATING LIQUIDS AND GASES OR GASEOUS FLUIDS
Philip C. Dixon, Houston, Tex., assignor to National Tank Company, Tulsa, Okla., a corporation of Nevada
Application January 13, 1941, Serial No. 374,230
10 Claims. (Cl. 183—2.7)



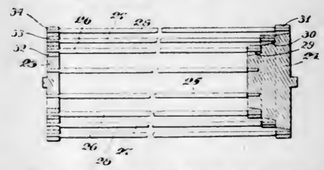
8. A separator adapted to separate suspended liquid bodies from a high pressure hydrocarbon gas stream wherein the ratio of hydrocarbon gas to liquid is very high including, an elongate nonvertical tank adapted to carry a high pressure

having imperforate enclosing walls and provided with a reduced inlet at one end and a reduced outlet at its opposite end, whereby the velocity of the flowing high pressure gas stream entering the inlet is reduced, an upright liquid extracting element in the tank adjacent the inlet having tortuous passages therethrough in the general longitudinal path of the inflowing stream, a plurality of substantially vertically spaced longitudinal flat plates in the tank in longitudinal alinement with the passages of the liquid extracting element and spaced therefrom, said plates extending continuously thereacross from one enclosure wall of the tank to the opposite enclosure wall of the tank, said plates also being unobstructed at each end to provide open-ended elongate shallow channels intermediate their open ends, whereby the gas stream is caused to flow between said plates under minimum turbulence to permit said liquid bodies to descend and agglomerate into larger liquid bodies on said plates, means for carrying the agglomerated liquids from the plates, and means for discharging said liquids from the tank.

2,349,945
WELDING ROD
Louis C. Dodd, Buffalo, N. Y., assignor to Magnus Metal Corporation, Chicago, Ill., a corporation of New York
No Drawing. Original application April 2, 1941, Serial No. 386,432, now Patent No. 2,319,539, dated May 18, 1943. Divided and this application May 13, 1943, Serial No. 486,912
3 Claims. (Cl. 219—8)

1. A welding rod consisting predominantly of copper and containing tin from 1.0 to 8.0%, nickel 0.1 to 1.0%, and lead from 3.0 to 20.0%.

2,349,946
ELECTROPLATING REEL
Friedrich Dürr, Berlin-Friedenau, Germany; vested in the Alien Property Custodian
Application September 15, 1938, Serial No. 230,090
In Germany September 15, 1937
2 Claims. (Cl. 242—77)



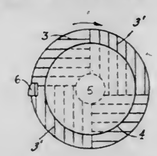
1. In a device of the type and for the purpose described, a reel comprising a first and a second disc-like end member having a common axis, said discs each provided with an outwardly extending axle portion, a first set of rods arranged about said axis and connecting said end members to each other, said first end member having a cylindrical circumference, said second end member having a stepped periphery providing a series of seats, a plurality of coaxial cage-like members each including a first and a second ring end and having a plurality of rods connecting said rings, the first rings of said cage-like members adapted to nest into each other and the innermost first ring fitting the circumference of said first end member, the second rings of said cage-like members successively nesting in the seats of said second end member whereby said cage-like members can be assembled to and disassembled from said end members by shifting in an axial direction.

2,349,947
BINDING DEVICE
Henry Einzig, Chicago, Ill., assignor to Stemar Displays Company, Chicago, Ill.
Application October 26, 1942, Serial No. 463,428
2 Claims. (Cl. 281—21)



1. In combination, a plurality of relatively nested longitudinally folded sheets, each having spaced and registering openings formed therein adjacent to their longitudinal folds, a sheet-like and comparatively stiffer body arranged adjacent and along the fold of the innermost of said nested sheets, and flexible fingers carried by and extending beyond one side of said sheet-like body engaging through the registering openings in said folded sheets and having their extended free portions flexed into binding and clamping engagement with respect to the outermost of said folded sheets and their remaining portions fixedly connected to adjacent portions of the outer side of one portion of said outermost folded sheet.

2,349,948
REFACING AND RESEATING TOOL
Elmer W. Elliott and Ole O. Rothe, Minneapolis, Minn.; said Rothe assignor to Anna M. Rothe, Minneapolis, Minn.
Application December 8, 1939, Serial No. 308,143
3 Claims. (Cl. 90—12.5)

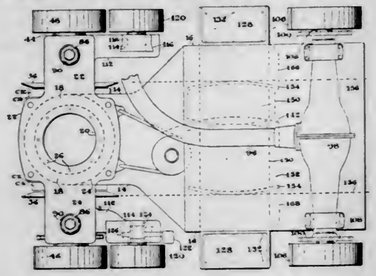


1. A tool for refacing and reseating the seats of globe, gate and check valves, said tool comprising a cylindrical body having a central opening therein, the bottom face of said body being circular in configuration and having a plurality of groups of cutting teeth provided over the entire surface thereof, the teeth of each group extending from and being arranged in non-parallel relation to the teeth of an adjacent group, and means in said central aperture for attaching an operating member to said body, the tool adapted for rotation in a direction to permit the teeth to have a shearing action on the work and also to permit the chips removed from the work to be conveyed outwardly by the cutting action of said teeth.

2,349,949
APPARATUS FOR CUTTING CHANNELS IN ROAD SURFACES
Francis J. Farrell, Burlington, N. J., assignor to Far-Lin Inc., Burlington, N. J., a corporation of New Jersey
Application December 14, 1942, Serial No. 469,026
6 Claims. (Cl. 262—19)

1. In a device of the character stated, the combination with a housing, front and rear wheels for movably supporting said housing, an engine for driving said rear wheels to propel said device, and a steering mechanism operatively connected

to said front wheels, of a cutter disc assembly mounted at the front end of the machine, means for operatively connecting said cutters to said engine, said cutter disc assembly comprising two end discs having uninterrupted cutting edges and



a plurality of intermediate toothed cutting discs, means for driving said cutters, a receptacle removably carried by said housing for receiving the debris resulting from the action of the cutters and thrown rearwardly by centrifugal force into said receptacle.

2,349,950

METHOD AND APPARATUS FOR SPINNING

Anton Formhals, Mainz, Germany; vested in the Alien Property Custodian

Application August 16, 1938, Serial No. 225,207

In Germany August 18, 1937

9 Claims. (Cl. 18—8)



1. Apparatus for preparing fiber from a fiber forming liquid which comprises a plurality of nozzles disposed along a straight line and forming one pole of a high potential field, two very thin wires fixed and disposed below and extending substantially parallel to said nozzles, said wires being of polarity opposite to said nozzles, and means for continuously removing fibers formed between the wires and below the nozzles.

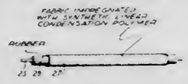
2,349,951

ELECTRICAL CONDUCTOR

Calvin S. Fuller, Chatham, and Archie R. Kemp, Westwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 16, 1938, Serial No. 240,630

7 Claims. (Cl. 174—121)



1. An abrasion resistant covering on telephone wire of the type adapted to be strung outdoors in close proximity to the swaying branches of trees or in close proximity to other objects which subject the wire to rubbing or shearing stresses, comprising a textile fabric impregnated with a material having the property of increased toughness and tensile strength when subjected to stress, said material being a cold drawing superpolyester.

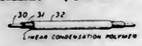
2,349,952

ELECTRICAL CONDUCTOR

Calvin S. Fuller, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 22, 1939, Serial No. 269,502

8 Claims. (Cl. 174—121)



1. A mechanically durable, insulated telephone switchboard wire having a high insulation resistance at high humidities, consisting of a conducting metal core insulated with a layer of organic fibrous insulating material and an outside coating of a cold drawing polyester.

4. An insulated electrical conductor, which is capable of being soldered without stripping of its insulation, comprising a conducting metal core and a coating immediately over said metal core comprising a cold drawing polyester.

2,349,953

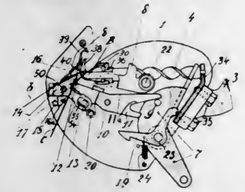
DEVICE FOR TYING THREAD ENDS IN WINDING FRAMES OR OTHER TEXTILE MACHINES

Stefan Fürst, Gladbach-Rheydt, Germany; vested in the Alien Property Custodian

Application February 18, 1941, Serial No. 379,542

In Germany July 14, 1939

5 Claims. (Cl. 289—3)



1. In a mechanism for tying together two threads in a weaver's knot, a knot forming device comprising a rotary knotter shaft and knotter bills extending laterally therefrom so as to travel in a plane of revolution perpendicular to the axis of the knotter shaft as the latter rotates; means located at opposite sides of said knotter shaft for holding the ends and bights of two threads laid across said knotter shaft behind said knotter bills, with their ends extending in opposite directions from said knotter shaft; said holding means comprising means to hold the end and the bight of the first thread extended forward of said plane of revolution on opposite sides of said knotter shaft, means to hold the end of the second thread extended forward of said plane of revolution adjacent the bight of said first thread, and means to hold the bight of said second thread extended rearward of said plane of revolution on the same side of said knotter shaft with the end of said first thread; means to revolve said knot forming device through at least one and one half complete revolutions in such direction that the knotter bills thereof first engage over the bight of said first thread and the end of said second thread, then pass between the end of said first thread and the bight of said second thread whereby said first thread is formed into a crossed loop and said second thread is formed into an uncrossed loop on said knotter bills; means to hold said knotter bills open during a part of their movement following their first complete revolution and then to close them; deflecting means to move the end of said second thread over said uncrossed loop and into said plane of revolution, so as to be grasped by said knotter bills during said last-mentioned portion of their movement; and means to strip said loops from the knotter bills, so that said crossed loop passes over the end of said second thread held in the grasp of the knotter bills.

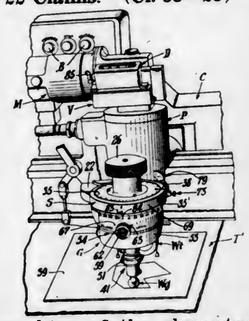
2,349,954

GUIDING UNIT FOR REPRODUCING MACHINES

Frank C. Geibig, Westfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio

Application April 18, 1942, Serial No. 439,479

22 Claims. (Cl. 33—23)



1. In a machine of the character described which is provided with an odometer, a guiding unit, and a tool carriage; the combination of oppositely-rotatable driving means for propelling said carriage respectively in forward and reverse directions; a unidirectionally-operable odometer transmission extending from said oppositely-rotatable driving means for operating said odometer in one direction irrespective of the direction of carriage movement; and angle selector means for said guiding unit adapted to determine the direction in which said carriage is propelled, while the distance in that direction is indicated by said odometer.

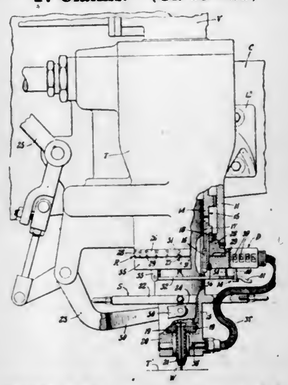
2,349,955

REPRODUCING MACHINE GUIDING UNIT

Fred B. Johnson, Chicago, Ill., assignor to The Linde Air Products Company, a corporation of Ohio

Application April 18, 1942, Serial No. 439,462

17 Claims. (Cl. 33—23)



1. A reproducing machine comprising a tool-supporting carriage movable in varying directions in a plane relative to a work surface; propelling means adapted to propel said tool-supporting carriage in said plane; guiding means adapted to control the angle of such relative movement; means for maintaining said guiding means at a selected direction angle; an odometer, said odometer being provided with calibrations indicating carriage travel in standard units of lineal measurement; and odometer driving means adapted to actuate said odometer in accordance with the extent of carriage travel.

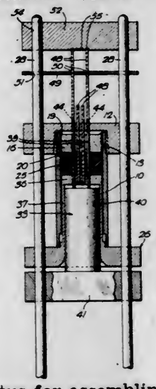
2,349,956

APPARATUS FOR ASSEMBLING ARTICLES

George E. Gliss and John H. Schmidt, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 1, 1942, Serial No. 449,362

10 Claims. (Cl. 29—84)



1. An apparatus for assembling articles, which comprises a perforator having a plurality of perforating pins disposed thereon, a guide having a plurality of spaced holes for guiding the perforating pins into a member to be perforated, a seat on each perforating pin for positioning an article thereon after the pin has penetrated the member to be perforated, and means for forcing the articles against the seats on the perforating pins to force the perforating pins back out of the perforations formed in the member by the perforating pins, the perforating pins acting as guides for directing the insertion of the articles into the perforations.

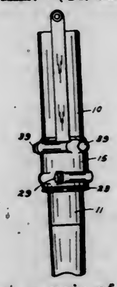
2,349,957

SHOCK-ABSORBING STRUT

Louis W. Greve, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio

Application November 12, 1941, Serial No. 418,690

11 Claims. (Cl. 308—6)



1. In an air strut, a pair of telescoping cylinders, one of said cylinders formed with pockets

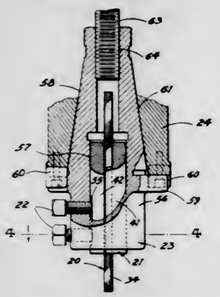
carrying a series of rollers spaced around the periphery of the cylinder and bearing upon the other cylinder, each roller having a longitudinal surface contour corresponding to the transverse curvature of the cylinder surface upon which it bears.

2,349,958
PNEUMATIC TOOL ASSEMBLY
Hubert Grobe, Wuppertal-Barmen, Germany; vested in the Alien Property Custodian
Application March 28, 1940, Serial No. 326,461
In Germany April 22, 1938
1 Claim. (Cl. 189—36)



A pneumatic tool comprising a plurality of constructional elements subjected to separating forces in the operation of the tool, means including a wire rope passing in U-form around one of said elements and connected at its ends to another of said elements said means forming the sole connections of said elements to each other against said separating forces, and rollers arranged between the bends of the U-form wire rope and the element around which it passes.

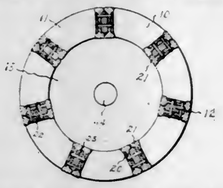
2,349,959
CUTTING TOOL
Edward Guetzkow, West Allis, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application February 20, 1941, Serial No. 379,821
17 Claims. (Cl. 90—11)



1. A rotary cutting tool comprising a relatively long piece of flat bar stock of uniform transverse section adapted for rotation about its longitudinal axis and having a lateral cutting edge extending the entire length of said tool, and an end including a cutting edge disposed to lie in a plane normal to the lateral cutting edge.

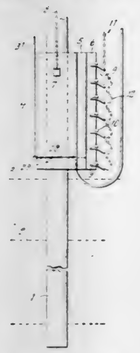
2,349,960
DISINTEGRATOR ROTOR FOR USE IN CONJUNCTION WITH DISINTEGRATING EQUIPMENT
James A. Hall, Houston, Tex.
Application June 26, 1942, Serial No. 448,578
4 Claims. (Cl. 83—11)

1. In a distintegrator rotor of the type having side plates joined by transverse bars, the improvement which includes, impact elements having a T-shaped cross-section disposed in pairs above and below each bar, the depending flanges



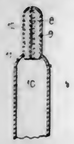
of the elements extending along the sides of the bars, and means for securing the elements to the bars.

2,349,961
APPARATUS FOR CASTING CONCRETE AROUND PILES
Thorwald H. Hansen, Avenel, N. J.
Application May 21, 1942, Serial No. 443,849
20 Claims. (Cl. 25—118)



1. Apparatus for casting concrete around piles comprising a form having a side opening adapted to surround a pile, means for closing the side of said form, a flexible tube in the bottom of said form, said tube closely fitted between said pile and form to cover the open end of said form, said tube being supported through the side of said form, means for inflating said tube to close said bottom and to center said form relative to said pile, and means for deflating said tube and for removing the same from said pile while said form is in place.

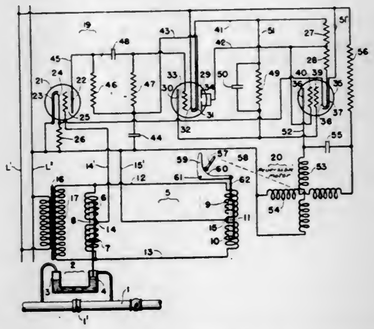
2,349,962
CONTAINER
Walter Sim Harris, Wilmslow, England, assignor of one-half to E. Griffiths Hughes Limited, Adelphi, Salford, Lancashire, England
Application January 14, 1943, Serial No. 472,394
In Great Britain February 12, 1942
1 Claim. (Cl. 222—541)



A container for liquids, semi-liquids and so forth, comprising in combination, a hollow, containing body, an integral neck-like extension on the containing body, an integral permanently

closed end on the said extension, a soft elastic, readily cutable mass of material integral with and situated inside the said extension, one end of the said mass being imperforate and situated in the said closed end of the said extension and the other end of the said mass projecting into the containing body, and a soft elastic, readily cutable, open ended capillary tube integral with and situated in the said mass, one end of the said tube being situated in the imperforate end of the said mass and the other end of the said tube projecting together with the other end of the said mass into the container body.

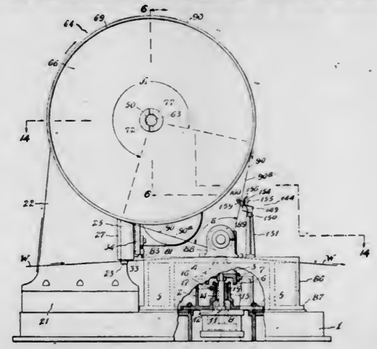
2,349,963
MEASURING AND CONTROL APPARATUS
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 14, 1937, Serial No. 159,198
19 Claims. (Cl. 172—239)



12. In measuring apparatus the combination with a reversible electrical motor having two windings adapted to be selectively energized for forward and reverse rotation of said motor in accordance with variations in a quantity to be measured, means responsive to variation in said quantity from a predetermined value for deriving from an original source of alternating voltage an additional alternating voltage variable in phase and amplitude according to the direction and extent of the change in said quantity, means for amplifying and converting said derived alternating voltage into a direct current voltage variable from a mean value in accordance with the phase and amplitude of said alternating voltage, an electronic valve having its anode circuit connected in circuit with a source of alternating voltage and with one of said motor windings, a resistor connected in circuit with the other of said motor windings and said source, and means for utilizing said direct current voltage to control the conductivity of said valve.

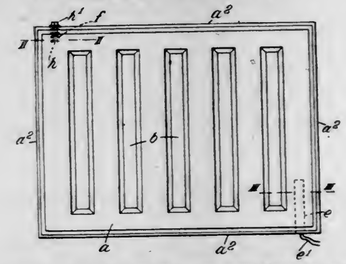
2,349,964
GRINDING AND POLISHING MACHINE
Lad L. Hercik, Lakewood, Ohio, assignor to The Hill Acme Company, Cleveland, Ohio, a corporation of Ohio
Application June 20, 1941, Serial No. 398,886
23 Claims. (Cl. 51—137)

1. A machine of the character described including in combination, a driving pulley having a relatively large diameter, a contact pulley having a relatively small diameter, an endless abrasive belt mounted on said pulleys, the belt comprising two portions engaging the peripheries of the pulleys and maintained by the pulleys against vibration and two unsupported strands intermediate the periphery engaging portions, said unsupported strands being inherently subjected to vibration, the spacing of said pulleys



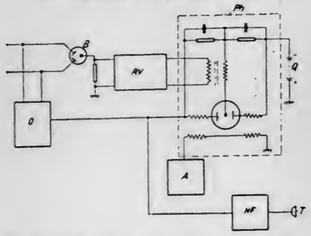
being such that the length of each strand of unsupported belt does not exceed one and one half times the length of the periphery of the said contact pulley whereby the length of belt subject to vibration is kept relatively small, means for actuating the driving pulley, and a work support juxtaposed to said contact pulley.

2,349,965
HEATING APPLIANCE
Max Hurley, London, England, assignor to Hurseal Patents Limited, London, England, an English joint-stock company
Application June 26, 1942, Serial No. 448,566
In Great Britain March 7, 1941
1 Claim. (Cl. 219—38)



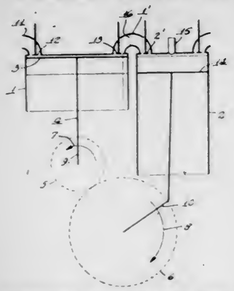
A heating apparatus comprising a radiator body having therein a plurality of unimpeded vertical fluid flow-paths, an unimpeded horizontal flow-path at one end of said vertical flow-paths and another unimpeded horizontal flow-path at the opposite end of said vertical flow-paths, all of said flow-paths arranged for free intercommunication, a heating element projecting vertically across the opening to only one of the horizontal flow-paths and extending upwardly into only one of the vertical flow-paths for a distance substantially less than the length of said path, a fluid inlet to the radiator body remote from the heating element and means for hermetically sealing said inlet and said radiator body, said flow-paths containing oleaginous circulating liquid having a high boiling point and low coefficient of expansion and less in volume than the total cubic capacity of said flow-paths whereby said liquid is capable of freely circulating throughout said several flow-paths.

2,349,966
RECEPTION OF FREQUENCY MODULATED WAVES
Otto Irslinger, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application July 17, 1941, Serial No. 402,827
In Germany July 18, 1940
2 Claims. (Cl. 250—20)



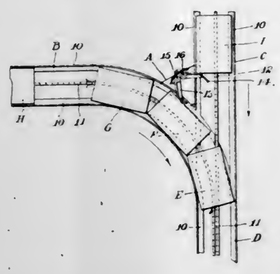
1. In a heterodyne type receiver for receiving ultra high frequency modulated signals, a circuit for receiving said signals, a local oscillator connected to said circuit for producing an intermediate frequency in conjunction with said frequency modulated signals, a fixed reference oscillator, control means comprising a phase bridge and voltage regulating means connected between the phase bridge and said local oscillator for regulating said local oscillator to maintain said intermediate frequency substantially constant, said phase bridge comprising, a double diode having cathode means and two anodes, and two transformer means each of which has a primary winding and a secondary winding, one of said transformer means having its primary winding connected to said fixed reference oscillator and having its secondary winding divided into two equal sections with the opposite ends of the secondary winding connected respectively to the two anodes of said double diode, the other of said transformers having its primary winding connected to said signal receiving circuit to receive the intermediate frequency and having its secondary winding connected between said cathode means and the juncture of the two sections of the secondary winding of the first-named transformer, and audio frequency responsive means connected to said voltage regulating means.

2,349,967
EXPLOSION AND INTERNAL-COMBUSTION ENGINE
Henri Leopold Javal, Vichy, France; vested in the Alien Property Custodian
Application October 7, 1941, Serial No. 414,028
In France April 17, 1940
4 Claims. (Cl. 123—68)



1. In an internal combustion engine, a crankshaft, a work cylinder offset axially with respect to the axis of said crankshaft in the direction of rotation of said shaft, a piston in said cylinder, a connecting rod pivotally secured to said piston and to the crank of said shaft, a second crank-shaft, a compression cylinder axially aligned with the second crank-shaft, a compression piston in said compression cylinder and connected to said second crank-shaft, valve controlled means operatively connecting said cylinders to transfer a compressed charge from the compression cylinder to the work cylinder, the cranks of said crank-shafts being angularly offset so that the compression piston lags behind the working piston, and means to explode the transferred charge in the work cylinder when the work piston has passed its dead center and when its connecting rod approaches an axial position in the work cylinder and at a substantial angle to the crank on the crank-shaft.

2,349,968
TRAFFIC CONTROL FOR POWER CONVEYERS
Charles W. Kampfer, St. Paul, Minn.
Application March 12, 1942, Serial No. 434,328
5 Claims. (Cl. 198—21)

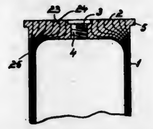


1. In a conveyer system in which a pair of branch conveyers converge into a single continuing conveyer, a housing, a pair of substantially parallel shafts extending from said housing, arms on said shafts designed to extend into the path of articles on said branch conveyers, cams on said shafts within said housing, pivotal arms movable into and out of the path of movement of said cams, the movement of each cam moving its associated pivotal arm, and means connecting said arms for simultaneous movement of said arms, movement of one of said arms by its associated cam out of the path of movement of aid cams operating to move the other of said arms into the path of movement of the other of said cams.

2,349,969
PROCESS OF SEPARATING ALBUMINOUS PRODUCTS FROM MILK GOOD FOR BEATING AND BAKING
Karl Kremers, Stuttgart, Germany; vested in the Alien Property Custodian
No Drawing. Application February 18, 1939, Serial No. 257,240. In Germany February 21, 1938
8 Claims. (Cl. 99—57)

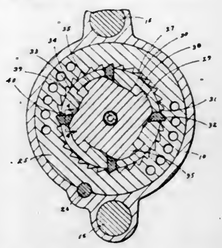
3. The process of separating albuminous products from whey comprising raising the pH value of whey above 7 without heating to form a precipitate, passing the whey through a separator to concentrate the precipitate to a solid content value between 6 and 12% and spray drying the concentrate.

2,349,970
CARTRIDGE CASE
Adriaan Jan Jurriaan Lambeek, Dordrecht, Netherlands; vested in the Alien Property Custodian
Application June 12, 1940, Serial No. 340,193
In the Netherlands May 26, 1939
2 Claims. (Cl. 102—43)



1. A cartridge case comprising a cup-shaped metal member having a bottom portion provided with a central bore, and a side portion, the flow lines of the metal as taken in a plane through the longitudinal axis of the case having an end at the outside surface of the bottom portion and said line extending longitudinally of the side portion.

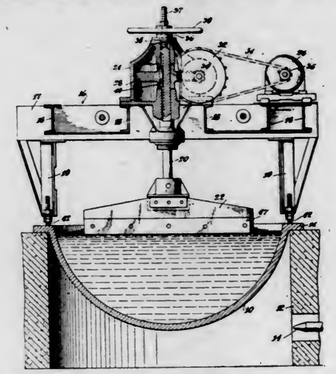
2,349,971
ROCK DRILL ROTATION MECHANISM
Earl B. Lear, Garfield Heights, Ohio, assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application December 3, 1942, Serial No. 467,753
4 Claims. (Cl. 121—7)



1. In a rock drill, a cylinder having a piston reciprocable therein and capable of rotation, a ratchet ring fixedly mounted in said cylinder, a rotation mechanism for said piston including a rifled stem operatively associated therewith, a head on said stem, a member disposed between said head and ratchet ring and movable with said head, and means carried by said member adapted to engage said ratchet ring for effecting rotation of said piston during its strokes in one direction.

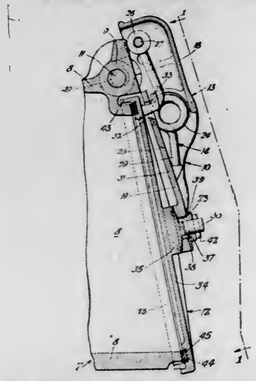
2,349,972
APPARATUS FOR REFINING METALS AND ALLOYS
Thomas R. Lister, Whiting, Ind., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application February 25, 1943, Serial No. 477,101
4 Claims. (Cl. 266—37)

1. In liquating and skimming metallurgical apparatus for refining metals and alloys, receptacle means for holding a molten bath of the metal to be refined, frame means disposed over said receptacle, skimming means arranged on said frame comprising a vertically-disposed shaft and a horizontally-disposed skimmer depending therefrom, means for rotating said skimmer in a horizontal plane while in contact with the surface of said melt to repeatedly brush aside dross and skimmings which form thereon, and means for supplying heat to said bath to maintain said



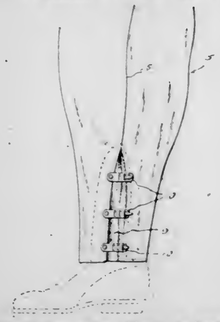
metal at a temperature such that the impurities in said melt will tend to separate from the body of the melt and rise to the surface.

2,349,973
JOURNAL BOX LID
George McCormick, San Carlos, Lauren N. Griffith, Oakland, Edward J. Carter, Berkeley, and Austin D. Williams, Sacramento, Calif., and Stephen McCormick and Thornton T. McCormick, Columbus, Tex.; said Griffith, said Carter, said Williams, said Stephen McCormick, and said Thornton T. McCormick, assignors to said George McCormick
Application June 25, 1941, Serial No. 399,718
3 Claims. (Cl. 308—47)



1. In a journal box lid assembly, a unitary spring retainer having a base portion and a hood portion, a torsion spring disposed wholly within said base portion and said hood portion and carried by said base portion, meas formed on said spring retained for hingedly connecting said spring retainer and said journal box, a lid member separable from said spring retainer and said journal box and having a pin provided with a bore extending centrally therefrom and a lug struck up from said lid at one end thereof, a plurality of apertures formed in said base portion of the spring retainer for reception of said pin and said lug, a bushing adapted to embrace said pin, and means for removably maintaining said spring retainer, said lid member, and said bushing in assembled relation.

2,349,974
SAFETY LEG PORTION FOR TROUSERS OR SIMILAR GARMENTS
Thomas B. McMasters, Chicago, Ill.
Application August 25, 1942, Serial No. 456,062
1 Claim. (Cl. 2—227)



In a garment construction, a leg portion having side seams and provided with cutout portions extending along the seams from the free end of the leg portion and having the edges of one of the cutout portions brought together and stitched completing one of the seams to the free end of the leg portion and cooperating with the other cutout portion when the edges thereof are drawn toward each other in fitting the leg portion tightly to the leg of the wearer from the ankle to the calf of the leg, separable fasteners for adjustably drawing the edges of the last named cutout portion toward each other, and a one piece flap stitched to the inner face of the leg portion along one entire edge of the last named cutout portion and for a limited distance along the other edge of said last named cutout portion in the direction of the free end of the leg portion and acting to close the latter named cutout portion when the edges thereof are secured together by said fasteners.

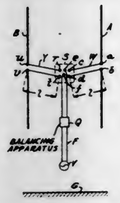
2,349,975
REINFORCEMENT AND MOLDED ARTICLE CONTAINING THE SAME
Franklin H. Mackenzie, Lansdowne, Pa., assignor, by mesne assignments, to Alexander Smith & Sons Carpet Company, Yonkers, N. Y,. a corporation of New York
Application June 27, 1942, Serial No. 448,802
23 Claims. (Cl. 28—80)



1. An article of manufacture for use as a reinforcement in molded articles comprising a pile fabric having a filler cooperating with the pile thereof to maintain said pile in a substantially upright position prior to and during incorporation in the production of the molded article, said filler being formed of a flowable material which is compatible with the material to be molded and will flow to substantially fill the voids between the pile.

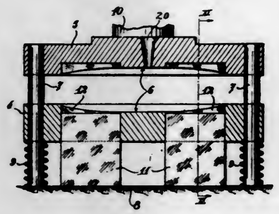
2,349,976
SYSTEM FOR DIRECTIVE RADIATION OF ELECTROMAGNETIC WAVES
Hatsutaro Matsudaira, Hsingking, Manchoukuo; vested in the Alien Property Custodian
Application January 14, 1941, Serial No. 374,322
1 Claim. (Cl. 250—11)

A system for directive radiation of electromagnetic waves, comprising a current source, a double pole change over means connected to said source, two doublet antennae each of which is tuned to a predetermined wave length, a pair of feeders connected to each of said antennae and having end contacts adapted to be engaged by said change over means, said feeders having an inductive reactance at the frequency to which said antennaes are tuned when said end contacts are opened by said change over means so as to cause the antennae respectively connected to the feeder involved to act as a reflector and



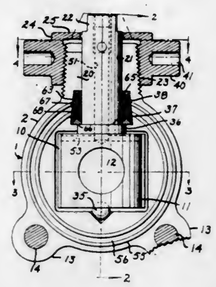
allowing two fields to be radiated by the operation of said change over means, said fields having different directional characteristics of symmetrical pattern and said change over means comprising means for connecting both feeders simultaneously to the current source during the change over period so as to cause excitation of both antennae in the same phase and magnitude and radiate a third field of different directional characteristics than the first two and thereby avoid any interruption of radiation from the system during said change over period.

2,349,977
COMB MOLD
Lucien Mazzoni, Lyon, France; vested in the Alien Property Custodian
Application March 18, 1941, Serial No. 384,011
In France March 19, 1940
9 Claims. (Cl. 18—42)



7. A molding device for the manufacture of combs from plastic materials and the like comprising in combination a fixed base; guiding means supported by said base; a bottom portion guided by said guiding means, said bottom portion having a molding recess on its upper face and a plurality of substantially parallel vertical slits opened at both ends; spring means to elastically support said bottom on said base; a top portion guided by said guiding means and adapted to be pressed on said bottom portion, said top portion having on its lower face a molding recess adapted to cooperate with said first-named molding recess to mold a blank having the contour and thickness of the comb to be obtained and said top portion having a plurality of blind slits registering with the slits of said bottom portion and parallel therewith; a gate leading into the recesses and a plurality of vertical blades fixed to said base, said blades being adapted to slide longitudinally through said slits, and to extend across the recesses when the top and bottom portions are in contact to receive the plastic material forced into said recesses under pressure, and said blades being so proportioned as not to project within the recess of said bottom portion when the latter is not lowered by the pressure of said top portion against the action of said spring means.

2,349,978
SPLIT HOUSING PLUG VALVE
Melvin G. Miller, Houston, Tex., assignor of one-fourth to Thomas N. Hunt
Application October 2, 1942, Serial No. 460,472
1 Claim. (Cl. 251—156)



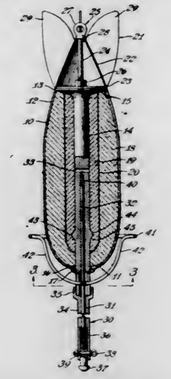
A valve including a housing comprising sections forming an enclosed chamber having ports leading thereto from opposite sides, complemental projections on said sections forming a passage transversely of the axis of said ports from within said chamber, a valve member within the chamber, a stem on said member extending through said passage, means opposite said projections securing the sections together, tapered threads on the periphery of the projections and a clamping member having complemental threads engaging said tapered threads whereby the sections may be clamped rigidly upon the valve member and released therefrom when the position of the valve member is to be changed.

2,349,979
POLYMERIZATION OR POLYCONDENSATION PRODUCT AND THE METHOD FOR PRODUCING THE SAME
Otto Moldenhauer and Helmuth Bock, Hirschberg, Riesengebirge, Germany; vested in the Alien Property Custodian
No Drawing. Application March 12, 1941, Serial No. 383,038. In Germany June 29, 1939
5 Claims. (Cl. 260—78)

4. The method of producing a plastic condensation or polymerization product comprising refluxing approximately 286 parts of hexadecane dicarboxylic acid with 50 parts of hydrazine hydrate for about ten hours and finally heating the product to between 200° and 300° C. for about three hours to produce a polymeric compound.

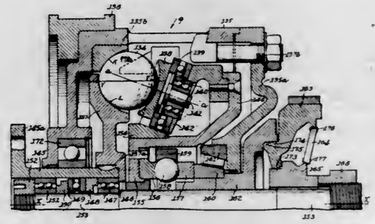
2,349,980
FOREST FIRE EXTINGUISHER
Lindley W. Moore, Baltimore, Md.
Application June 21, 1940, Serial No. 341,769
1 Claim. (Cl. 102—2)

A fire extinguisher comprising a frangible shell, a layer of powder adapted to extinguish fire lining the inner periphery of the shell, an explosive powder disposed within the layer of fire extinguishing powder, a body extending axially through said explosive powder and having a cartridge chamber opening against the said explosive powder and through one end of the body, a detonating mechanism detachably secured to the mentioned end of the body, parts of said mechanism being movable into engagement with



a cartridge disposed within the chamber, the said body being formed at its end remote from the detonating mechanism with an enlarged head portion having a frusto-conical shaped side confronting the explosive powder and at its end adjacent the detonating mechanism with a circumferential rib presenting oppositely sloping sides to portions of the explosive powder, the said body parts being adapted to direct the particles of fire extinguishing powder when the device is exploded.

2,349,981
EPICYCLIC GEAR
Cornelis Andries Heero Mulder, Utrecht, Netherlands; vested in the Alien Property Custodian
Application September 6, 1939, Serial No. 293,631
In the Netherlands September 15, 1938
18 Claims. (Cl. 74—281)



1. A gear transmission having automatically variable gear ratio, comprising a driving shaft; a driven shaft; a primary surface and a reaction member rotatable about said primary and secondary shafts, respectively, said primary surface and reaction member having cooperating, facing, and co-axial races therein, and said primary surface and reaction member being axially movable relative to each other; a third body associated with said primary surface and reaction member and adapted to be mounted on one of said shafts; a plurality of intermediate bodies disposed between and in contact with said primary surface, reaction member, and third body, so as to be in roll-

ing contact with the two first-mentioned elements, and so as to rotate about their axes against said third body; torque-responsive means for moving said three elements axially relative to each other; weights responding to centrifugal force, depending upon the speed of one of said shafts, and moving said three elements axially relative to each other, the combination of the last two movements of the three said elements resulting in the determination of a gear ratio highly suited for the momentary load demand on the transmission, in the substantial absence of sliding and rolling friction of the intermediate bodies on the said three elements.

2,349,982

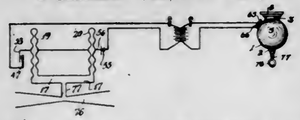
STALL WARNING DEVICE FOR AIRPLANES

Clive Murray-Waller, Ashfield, near Sydney, New South Wales, Australia

Application October 18, 1939, Serial No. 299,922

In Australia October 22, 1938

8 Claims. (Cl. 177—311)



1. In a stall warning instrument for attachment to an airplane, an electrical contact system connected by an electrical circuit to a source of electrical energy, said electrical contact system comprising a casing, two diaphragms arranged within said casing electrically insulated therefrom forming in said casing two diaphragm chambers, a Venturi tube secured to said casing and having its suction pipe communicating with said diaphragm chambers, two pairs of electrical contacts consisting each of one contact being secured to one of said diaphragms and one contact being fastened to said casing electrically insulated therefrom, one of said contact pairs being constructed so as to be closed to complete said electrical circuit when the velocity of the airplane is below its stalling speed, and the other of said contact pairs being constructed so as to be broken to interrupt said electrical circuit when the airplane has a velocity above its stalling speed.

2,349,983

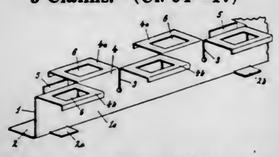
DEVICE FOR DOWELING TRANSVERSE JOINTS OF CONCRETE ROAD PAVEMENTS

Alexander Musall, Berlin, Germany; vested in the Alien Property Custodian

Application March 25, 1941, Serial No. 385,177

In Germany June 5, 1939

5 Claims. (Cl. 94—17)



1. A doweling device for joints of road pavements, said device comprising a single plate to be arranged vertically upon the foundation bed of the pavement, said plate being formed with vertical slots starting at levels substantially spaced upwardly from the lower edge of the plate and opening through the upper edge of the plate to define bendable sections, the portions of said bendable sections extending upwardly from points located above the lower ends of said slots being bent laterally with respect to the plane of said single plate so as to define anchoring plates, that portion of some of the bendable sections extending upwardly from the lower ends of said slots as far as said levels being bent outwardly at an upward inclination whereby the last mentioned portion and thereby the anchor plates on such bendable sections are laterally displaced out of the plane of said single plate.

2,349,984

TOY

Robert K. Ostrander, South Orange, N. J., assignor to Badger Cut Outs, Inc., Maspeth, Long Island, N. Y., a corporation of New York

Application November 9, 1943, Serial No. 509,548

6 Claims. (Cl. 46—146)



1. A toy comprising, in combination, a box, said box having a bottom and a hinged lid, and a resilient lazy tong assembly mounted within said box and confined under compression between said bottom and said lid, and adapted on release of said lid to expand to project the upper end thereof beyond the confines of the box.

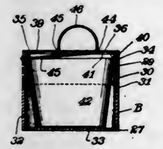
2,349,985

RECEPTACLE CLOSURE

John N. Page, South St. Paul, Minn.

Application March 2, 1942, Serial No. 432,937

3 Claims. (Cl. 220—30)



1. A container comprising a body, a top on said body having an opening therethrough, a closure for said opening, a hinge connecting said closure to said body, and a resilient band secured to said container wall, extending through said closure, forming a free open loop above said closure adapted to receive a finger, and being terminally connected to said closure, said band extending substantially beneath said hinge.

2,349,986

AQUEOUS SOLUTION OF LACTOFLAVIN

Ernst Preiswerk, Munchenstein, near Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 9, 1942, Serial No. 438,325. In Switzerland April 3, 1941

6 Claims. (Cl. 167—81)

1. An aqueous solution of more than .013% of lactoflavin containing a water-soluble salt of a compound selected from the group consisting of 2,4-dihydroxy-benzoic acid and its mono-alkyl ethers.

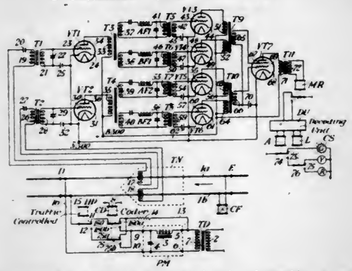
2,349,987

SIGNAL SYSTEM USING PHASE MODULATION

Willard P. Place, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application January 12, 1942, Serial No. 426,376

5 Claims. (Cl. 177—353)



1. In combination, a control circuit, a source of alternating current, a code transmitter operative to periodically operate a contact member to alternately engage a first and a second contact at a predetermined code rate, a modulating unit including inductance and capacitance, circuit means including two alternative paths to connect said current source to said control circuit to supply current thereto, one of said paths including said contact member and first contact to supply to said control circuit such alternating current non-modulated and the other of said paths including said modulating unit in series with said contact member and second contact to impress on the current supplied to the control circuit a phase modulation predetermined in phase shift by said modulating unit, a demodulator operative to create current impulses in response to such phase modulation of such alternating current, decoding means peculiarly responsive to current impulses of said code rate, a signal connected to said decoding means, and circuit means to couple the control circuit to said demodulator and said demodulator to said decoding means to control said signal by said current supplied to the control circuit.

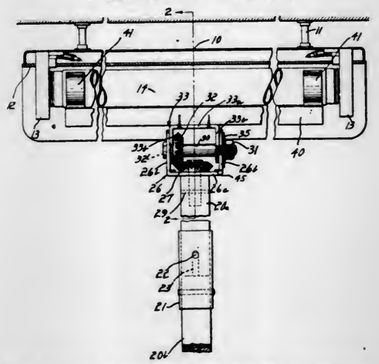
2,349,988

DEVICE FOR INSTALLING AND REMOVING LAMP TUBES

Lyle B. Quick, New Britain, Conn.

Application November 17, 1943, Serial No. 510,632

7 Claims. (Cl. 294—20)



1. A device for installing and removing lamp tubes comprising a rod, a member journaled on one end of said rod and about the longitudinal axis thereof, a second member journaled on said first member for limited pivotal movement about an axis at right angles to the axis of rotation of said rod relative to said first member, a pair of spaced apart aligned clasps fixedly carried by said second member and adapted to frictionally embrace a lamp tube, and gear means between said rod and second member for causing pivotal movement of said second member about its axis when said rod is turned about its longitudinal axis.

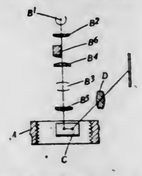
2,349,989

OPTICAL TESTING OR MEASURING APPARATUS

Richard Edmund Reason, Leicester, England, assignor to Kapella Limited, Leicester, England, a company of Great Britain

Original application June 1, 1938, Serial No. 211,231. Divided and this application July 12, 1940, Serial No. 345,079. In Great Britain June 2, 1937

13 Claims. (Cl. 88—14)



1. In optical measuring or testing apparatus for examining plane section profiles of objects having non-planar surfaces, the combination of an illuminating device for defining the profile of a plane section of the object under examination such device comprising a plane knife edge shaped to correspond closely to the non-linear shape of the section profile and an optical system for focussing an image of the knife edge on the surface of the object, and means whereby the diffused light from the surface of the object is utilized for the optical projection of an image of the section profile, the optical system being so arranged as to produce a rectified image free from distortion due to the obliquity of parts of the knife edge to the optical axis of the system.

2,349,990

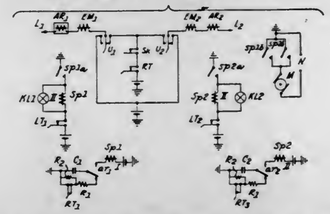
CONNECTION FOR TELEPRINTERS

Ehrhard Rossberg, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian

Application September 20, 1940, Serial No. 357,533

In Germany September 25, 1939

10 Claims. (Cl. 178—2)



1. In a printing telegraph system, a transmitter, two receivers, said transmitter and receivers being located at the same station, two lines incoming to said station and terminating in said receivers, respectively, circuit connections over which one line circuit is completed by way of its associated receiver and the said transmitter in

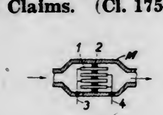
series, the other line circuit being completed by way of its associated receiver alone, and switching means for altering said circuit connections to include said transmitter in the second line circuit but not in the first.

2,349,991
CONNECTING CLAMP
Frank S. Sander, New York, N. Y.
Application May 28, 1943, Serial No. 488,827
12 Claims. (Cl. 287—76)



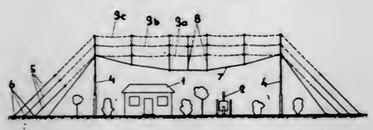
1. Connecting clamp for two wire loops comprising a connecting sleeve with openings at both ends through which said wire loops may be introduced into said sleeve in such a manner that the loop tips are facing each other, and projections on said sleeve bent inward into said sleeve in such a manner as to hook into said wire loops, to hold them within said sleeve and to prevent sliding out of the same from said sleeve when said wire loops are introduced into said sleeve and arranged within said sleeve with the loop tips facing each other.

2,349,992
DEVICE FOR INDICATING CONTAMINATIONS IN OIL CIRCULATION SYSTEMS
Walter Schrader, Doberitz, near Berlin, Germany; vested in the Alien Property Custodian
Application October 10, 1940, Serial No. 360,689
In Germany October 23, 1939
11 Claims. (Cl. 175—183)



1. Apparatus for determining contaminations in the oil circulating system of internal combustion engines, comprising a measuring cell inserted in the circulation system so as to be traversed by the oil circulating in the system, said cell containing filter elements of conducting material exposed to the oil for retaining in said cell part of the contaminations, and electric circuit terminals connected to said elements.

2,349.993
CAMOUFLAGE
Károly Heinz Schwimmer and Ervin Quittner, Budapest, Hungary; vested in the Alien Property Custodian
Application February 10, 1941, Serial No. 378,286
In Hungary December 9, 1940
7 Claims. (Cl. 41—10)



2. A camouflage comprising three superposed nets and means supporting said nets to keep them apart from each other and the objects to be camouflaged, the lowest net being green and having the smallest meshes, the middle one being red and having the largest meshes and the uppermost being blue with meshes of intermediate size, the nets having the same shape and size but the direction of the threads of the various nets with respect to the outlines of the nets being different.

2,349,994
ABRADING TOOL
Ira J. Snader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application July 28, 1941, Serial No. 404,290
8 Claims. (Cl. 51—184.3)



2. A holder for the abrading element of an abrading tool comprising a flat elongated plate formed in one side with a longitudinal medial groove having at least one undercut side and formed on the other side with two upstanding locating pins spaced longitudinally on the medial center line.

2,349,995
ABRADING TOOL
Charles E. Archer, Birmingham, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application February 27, 1942, Serial No. 432,565
14 Claims. (Cl. 51—184.3)

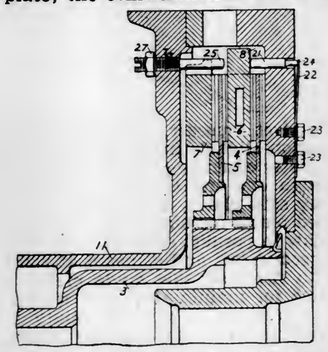


1. An abrading tool comprising, in combination, an elongated rod having an end portion tapering gradually and uniformly from opposite sides to a thin end edge, each of the tapering sides being planar in form, said rod being formed with a guide slot opening therethrough medially to the opposed tapering sides and spaced from said end edge, and having a groove in each side extending longitudinally in endwise alinement with and opening to one end of said slot, a lapping device for each of said tapering sides, each of said lapping devices having a longitudinal medial rib extending only through a portion of its length and slidably engaging in said slot, elongated means extending endwise from each of said devices and receivable in the associated groove in said rod, and means for anchoring said elongated means against movement while permitting relative axial movement of said elongated rod.

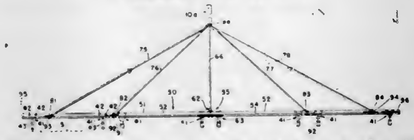
2,349,996
CLUTCH
Charles B. Spase, Nedrow, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York
Application May 7, 1942, Serial No. 442,027
7 Claims. (Cl. 192—68)

1. In a friction clutch including driving and driven members, the driving member being

formed with an annular recess opening through its rear face, a pressure ring in the recess rotatable with the driving member, the driven member including a friction plate located in the recess and extending between the pressure ring and the driving member, mechanism for applying pressure to and releasing the same from the pressure ring, and a back plate forming a cover for the recess, the mechanism being partly carried by the back plate; the combination of means for shifting the pressure ring in a retrograde direction relatively to the force applied by the clutch engaging and releasing mechanism, for releasing the pressure plate when the clutch mechanism is operated to disengage the clutch, including a spring-pressed plunger slidably mounted in the driving member, extending through the bottom of the recess and thrusting against the pressure ring, and a spring located outside the driving member and thrusting against the plunger.

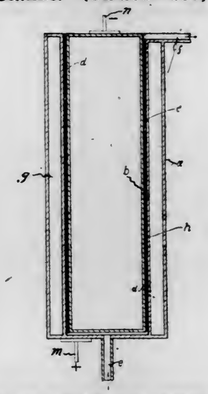


2,349,997
HITCH DEVICE
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 24, 1941, Serial No. 412,135
7 Claims. (Cl. 55—84)



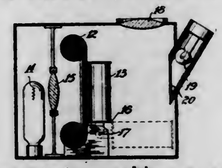
1. An evener bar for harrows and the like, comprising a main evener bar having a generally vertical web with apertures therein adjacent one edge thereof, and a pair of forwardly converging draft links connected together at their forward ends and having hook portions at their rear ends, each of said hook portions being normally disposed in a generally horizontal plane and including a pair of straight parallel sections spaced apart a distance substantially equal to the thickness of said vertical web and a curved section joining said parallel sections, the openings in the web being spaced from the edge thereof a distance no greater than the distance between said spaced apart parallel sections, whereby by shifting said links forwardly and then upwardly and laterally inwardly, the side portions of said hook portions may be brought down in close fitting relation on opposite sides of said web and said draft links connected together at their forward ends so as to prevent disengagement of said hook portions from said evener bar.

2,349,998
APPARATUS FOR OBTAINING PERSALTS BY ELECTROLYSIS
Werner Trinius, Bruhl, near Cologne, Germany; vested in the Alien Property Custodian
Application January 31, 1939, Serial No. 253,939
In Germany February 1, 1938
2 Claims. (Cl. 204—260)



1. A cell for the electrolytic preparation of persalts comprising an anode and a cathode surrounded by said anode and spaced therefrom a distance not exceeding 5 mm., means for conducting the electrolyte in continuous flow through the space between the electrodes, and a surface covering not more than 3 mm. thick on the cathode surface which faces the anode of a material selected from the group consisting of: glass wool and slag wool.

2,349,999
COMBINED PRINTING AND VIEWING ARRANGEMENT
Franz Urbach, Rochester, N. Y.
Application May 15, 1941, Serial No. 393,502
20 Claims. (Cl. 95—75)



1. Arrangement for making a positive print from a photographic negative on a light-sensitive positive material and viewing said print, comprising in combination means for holding said photographic negative during printing, a support for holding said light-sensitive positive material during printing, a printing light source emitting light rays to which said light-sensitive positive material is sensitive, a viewing light source emitting only light rays to which said light-sensitive positive material is substantially insensitive, said viewing light source arranged in such a manner as to be adapted to illuminate said light-sensitive positive material, while the same is held by said holding means, viewing means for observation of said light-sensitive material while the same is held by said holding means, and means adapted to prevent light rays emitted by said printing light source to reach directly or indirectly the observer's eye when he observes through said viewing means the light sensitive material held by said holding means.

2,350,000

PROCESS FOR OBTAINING DETERGING, WETTING, FOAMING, METALLIC SALT DISPERSING, AND EMULSIFYING AGENTS

Jean Paul Amédée Vallernaud, Valence-sur-Rhone, France; vested in the Alien Property Custodian

No Drawing. Application December 12, 1939, Serial No. 308,888. In France November 2, 1938
4 Claims. (Cl. 260—401)

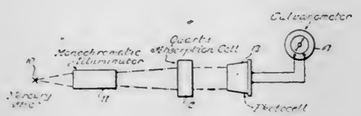
4. A process for obtaining detergent, wetting, foaming, metallic salt dispersing and emulsifying agents in finely divided pulverulent form and which will not agglomerate, which consists in condensing with an amine selected from the group consisting of alkyl alkyl amines and alkyl alkylol amines, the fatty acids derived from partially saponified murumuru butter, and then treating the so obtained condensation product with an acid of the group consisting a chlorosulphonic acid, phosphoric anhydride acid chloride, fuming sulphuric acid and sulphuric acid, in the presence of a body of the group consisting of sodium tungstate, and ammonium vanadate.

2,350,001

CONCENTRATION RECORDER

Johannes A. Van den Akker, Appleton, Wis., assignor to The Institute of Paper Chemistry, a corporation of Wisconsin

Application September 2, 1941, Serial No. 409,174
9 Claims. (Cl. 250—43)



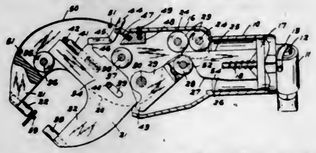
1. In apparatus wherein the intensity of ultraviolet light radiation having a wavelength of 253.7 mmu is used for measurement purposes, a light conversion and selection system comprising, in combination; a mercury vapor lamp serving as a source of said ultraviolet radiation used for measurement purposes and with the emitted radiation being concentrated in the 253.7 mmu line of the mercury spectrum; a cadmium borate phosphor fluorescent plate disposed to receive radiation from said mercury vapor lamp, the excitation characteristics of said fluorescent plate being such that it is very strongly excited by ultraviolet radiation of the 253.7 mmu line of the mercury spectrum according to the intensity thereof, receiving substantially no excitation at all from visible light, and only weakly excited by near-ultraviolet light, the strong excitation of said fluorescent plate by said concentrated ultraviolet radiation of the 253.7 mmu line of the mercury spectrum causing it to fluoresce in the orange and red region of the spectrum; and a filter disposed to receive and transmit fluorescent radiation from said fluorescent plate, the absorption characteristics of said filter being such that visible light in the orange and red region of the spectrum due to said strong excitation of said fluorescent plate is transmitted therethrough while substantially all direct radiation in the system and incident thereon of wavelength less than 580 mmu is absorbed thereby.

2,350,002

RIVETING TOOL

Paul Van Sittert, Shaker Heights, and Lloyd G. Speth, East Cleveland, Ohio, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio

Application December 11, 1941, Serial No. 422,602
6 Claims. (Cl. 78—48)



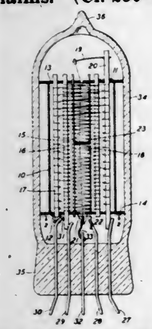
1. In a rivet squeezer, a housing, a power actuated piston slidable in said housing, a pair of parallel plates extending lengthwise of said housing through one end thereof, a stationary jaw carried by said plates, a second jaw carried between said plates for movement toward said stationary jaw in parallel relation therewith, means on said second jaw and disposed at right angles thereto to form slidable guide means between said plates for maintaining said second jaw in parallel relation with said stationary jaw, and means responsive to the slidable movement of said piston for imparting slidable movement to said second jaw.

2,350,003

ELECTRON DISCHARGE DEVICE

John W. West, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 17, 1940, Serial No. 345,911
5 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising an enclosing vessel, an electrode mount therein including a linear filament extending along the axis thereof, spacer discs attached to the ends of one of the electrodes, a tension support connected to one end of said filament, and a metallic bridging element having a central portion with a flat surface parallel to the axis of said mount and end clamping portions parallel to one of said discs embracing the edges thereof, said filament being attached to said central flat surface.

2,350,004

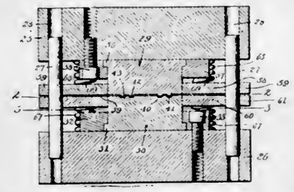
PUNCH AND DIE MECHANISM FOR FORMING KNOCKOUTS

Lawrence V. Whistler and Sanford A. Whistler, Kenmore, N. Y.

Application March 20, 1943, Serial No. 479,953
22 Claims. (Cl. 164—32)

1. A punch and die-device having an integral punch-member and an integral die-member,

each member having a die surface and one of said members having a depression in its die surface defined by a surrounding wall forming a shearing edge and the other having a co-acting



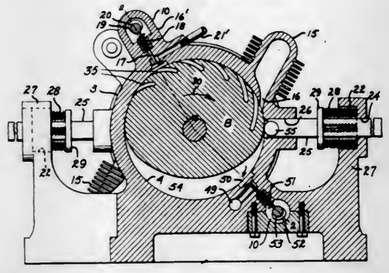
elevated portion rising from its die surface with a perimetric wall forming a co-acting shearing edge, one of said walls being provided with means at its shearing edge to retain a narrow unsheared region at one point thereof.

2,350,005

INTERNAL-COMBUSTION ENGINE

Henry V. Wilcoxson, Lubbock, Tex.

Application February 23, 1940, Serial No. 320,290
1 Claim. (Cl. 60—41)



An internal combustion engine comprising, a stator having an inlet and an outlet, a gas receiving chamber associated with the stator and having an opening to the interior thereof, means to admit a fuel charge to said chamber, a rotor within the stator, said rotor having a plurality of diverging passageways in an angular portion thereof from the periphery to one end of the rotor to conduct gases of combustion from the opening through the diverging passageways to the outlet so that torque is applied to the rotor by the expanding gases, means operable during another angular portion of each revolution of the rotor for compressing a combustible gas within said chamber, means operable thereafter for igniting the gases within the chamber, and valve means operable during the passage of said first mentioned angular portion thereby for admitting a cooling fluid to the rotor passages.

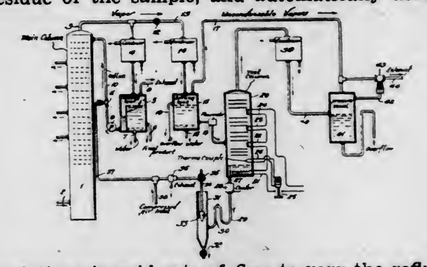
2,350,006

PROCESS AND APPARATUS FOR CONTROLLING FRACTIONATION

Alfred Samuel Wolfner, Paris, France; vested in the Alien Property Custodian

Application February 27, 1941, Serial No. 380,914
In France February 20, 1937
6 Claims. (Cl. 196—141)

1. A method for controlling the boiling point range of the product of a fractionation column having a reflux comprising continuously separating a sample portion from the distilled product as it comes from the column, continuously distilling the sample at a temperature below its final boiling point, measuring the rate of flow of the residue of the sample, and automatically using



variations in said rate of flow to vary the reflux ratio whereby the boiling point range of the product may be controlled.

2,350,007

PROCESS OF HEAT-TREATING POLYMERIZATION PRODUCTS

Carl Zerbe, Hamburg, Germany; vested in the Alien Property Custodian

No Drawing. Application October 14, 1940, Serial No. 361,195. In Germany October 30, 1939
5 Claims. (Cl. 260—36)

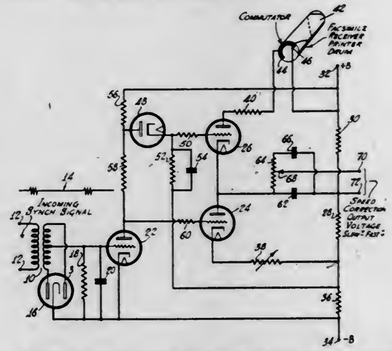
1. The process of rendering workable the copolymers of butadiene and styrene which consists in mixing said polymers with an unsaturated neutral distillation residue from mineral oil treated with concentrated sulphuric acid and thereafter subjecting the mixture to approximately 135° C. for from one to two hours.

2,350,008

FACSIMILE APPARATUS

Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

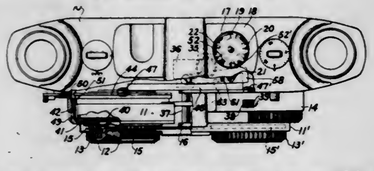
Application July 30, 1942, Serial No. 452,871
20 Claims. (Cl. 178—69.5)



1. A facsimile receiving system for receiving picture and synchronizing impulses, the picture signals being representative of a subject matter scanned at a transmitter and the synchronizing impulses occurring at regularly spaced intervals, comprising means responsive to the received synchronizing impulses to produce corresponding negative control impulses, a bridge arrangement including a pair of series-connected electron discharge paths, means responsive to the produced negative control impulses for varying the conductivity of one of the discharge paths between the limits of zero and a finite value, a facsimile receiver printer drum, switching means asso-

ciated with said drum to intermittently apply an operating potential to the other of said paths to condition said path for conduction, means responsive to the produced negative control impulses to render said other path conducting when an operating potential is applied thereto by said switching means, means for maintaining conductivity to said other path irrespective of the continued conductive condition of said one path and irrespective of the continued presence of the negative control impulse until said switching means removes the operating potential, and a condenser associated with said discharge paths and connected between the junction of said discharge paths and a point of fixed potential in said bridge arrangement whereby a charge potential will be deposited on said condenser in a polarity determined by the direction of phase displacement between the operation of the switching means and the received synchronizing impulses, the intensity of the charge potential being a function of the degree of phase displacement.

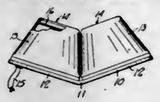
2,350,009
DEPTH OF FIELD INDICATOR FOR CAMERAS
David L. Babcock and Floyd J. Frisby, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 28, 1941, Serial No. 416,824
6 Claims. (Cl. 95—45)



1. In a photographic camera the combination with an objective, means for focusing said objective, an adjustable diaphragm, means for adjusting said diaphragm, a focus indicator, including a focusing scale, movable relative to a stationary index, means connecting said focus indicator to said focusing means whereby said scale is adapted to be moved relative to said index by operation of said focusing means, of means for indicating the depth of field of the objective for any adjustment of focus and diaphragm setting, said last mentioned means comprising a pair of pointers oscillatably mounted to move in overlapping relation, and relative to, said focusing scale on opposite sides of said index, a linkage for simultaneously oscillating said pointers symmetrically over said scale on opposite sides of said index and including a pair of links pivotally connected to opposite ones of said pointers and pivoted at a common point, and means actuated by adjustment of said diaphragm adjusting means for moving said common pivot point of said links in a direction to oscillate said pointers in accordance with an adjustment of the diaphragm.

2,350,010
MICROPHONE
Francis Cheyney Beekley, West Hartford, Conn., assignor to The Glastonbury Bank & Trust Company, Glastonbury, Conn., a banking corporation of Connecticut, as trustee
Application December 26, 1941, Serial No. 424,437
16 Claims. (Cl. 179—1)

1. A microphone comprising vibration means having two non-directional sound-receiving portions, spaced apart a small fraction of a wave length of audible sound for normally equal impression of sound thereon, and electrical signal



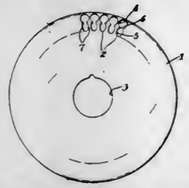
means responsive to said vibration means, said electrical means being rendered operative to transmit a signal only when sound is impressed unequally on said sound-receiving portions.

2,350,011
FILTERING AND FILTERING APPARATUS
Henry R. Black, Toledo, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application August 12, 1940, Serial No. 352,203
7 Claims. (Cl. 183—52)



7. The process of filtering dust laden air which comprises placing a woven filter cloth under biasing tension to cause the parallel threads of the cloth to approach each other and thereby reduce the size of the interstices of the cloth, passing dust laden air through the cloth while under such tension to cause the dust to be deposited on the cloth, the restriction of the flow of air after a dust cake has been built up on the cloth, causing a relative translative movement in unbiasing direction between opposite edges of the cloth to cause the threads thereof to move away from each other and thereby increase the size of the interstices in the cloth to loosen the dust cake formed thereon, and maintaining tension on the cloth during such translative movement.

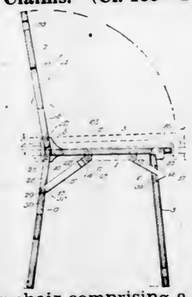
2,350,012
ELECTRICAL ROTOR CORE
William H. Brady, Roselle, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application May 13, 1942, Serial No. 442,735
7 Claims. (Cl. 172—120)



1. An induction motor rotor core having magnetic laminations formed with conductor-receiving slots located adjacent the outer peripheral portion of said laminations, said slots each having an outer portion and an inner portion, an intermediate neck portion joining said outer and inner

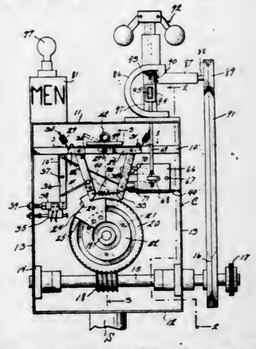
portions, said outer portion having an area so related to the total area of the slot that a preformed copper conductor substantially filling the outer portion will have substantially the same electrical resistance per unit length as a cast aluminum conductor filling the entire slot.

2,350,013
FOLDING CHAIR
Leslie H. Burlin, Valparaiso, Ind.
Application June 5, 1942, Serial No. 445,899
18 Claims. (Cl. 155—148)



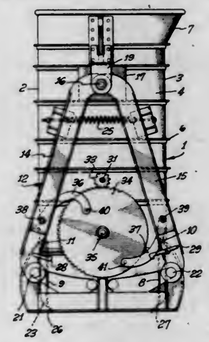
4. A folding chair comprising a seat, front and rear legs pivoted to the seat and swingable from their normal positions to a folding position overlying the top and bottom surface, respectively, of the seat, a back rest pivoted to the seat and swingable to a position overlying the front leg when that leg overlies the seat, the length of the front leg being greater than the distance from the center of the front leg pivot to the center of the back rest pivot, said back rest having a central opening through which the front leg passes to its chair folding position, the part of the front leg that extends through the opening having a handle portion for carrying the folded chair, the lengths of the back rest and of the rear leg being such that upon positioning the seat of the folded chair vertically with the rear edge of the seat uppermost the back rest and the rear leg hang vertically and terminate below the seat and at the same level to constitute supports for the folded chair and with the center of gravity of the folded chair between such supports.

2,350,014
SAFETY DEVICE
Ray W. Burt, Lafayette, Colo.
Application August 1, 1942, Serial No. 453,258
5 Claims. (Cl. 177—336)



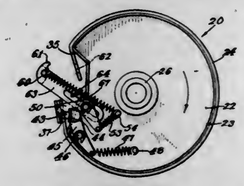
2. A safety control mechanism as set forth in claim 1, with an electrical signalling unit, an electric circuit having said unit therein, and mechanism operatively connected with the said moving means for the arms for preparing said signal unit circuit for operation only upon the positioning of the arms for selective engagement by the shoulders of one of said pair.

2,350,015
CONCRETE BUCKET
Francis T. Crowe, Shasta Dam, Calif.
Application August 23, 1943, Serial No. 499,615
3 Claims. (Cl. 294—71)



1. In a concrete bucket, the combination of: an open ended tubular bucket body; a pair of closure members mounted on opposite sides of said body for movement toward each other from open positions to closed positions closing one end of said body; an over-center mechanism connected between said members and operable in the closed positions of said members to lock said members against movement toward said open positions, said mechanism comprising a disk; means mounting said disk for rotation on said body; a link connected to each of said closure members; and pivot means pivotally connecting one end of each of said links to said disk, said pivot means being so positioned with respect to each other that lines joining respective ends of each of said links will lie on one side of the center of said disk in the open position of said closure members and on the other side of the center of said disk in the closed position of said closure members.

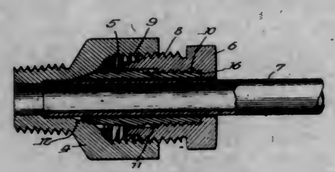
2,350,016
PRINTING MACHINE
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application August 15, 1942, Serial No. 454,925
20 Claims. (Cl. 101—415.1)



1. In a printing machine drum, a wall providing a generally cylindrical impression surface over which a master may be extended which is interrupted longitudinally thereof to afford a clearance space, means including spaced walls afford-

ing a slot into which the leading edge of a master may be extended, means in said slot providing positioning surfaces some of which face generally outwardly of said slot and some of which face generally in opposite directions endwise of the slot, and into abutment with which positioning surfaces complemental positioning surfaces on the leading edge of a master may be moved by endwise shifting movement of the master with relation to the drum to thereby dispose the border portion of the leading edge of the master in an accurately predetermined endwise and lateral relation to said drum, and securing means mounted on the drum for shifting movement into and out of said slot and generally normal to the face of said border portion of the leading edge of the master to operatively engage such border portion and hold said positioning surfaces of the leading edge of the master in engagement with said positioning surfaces of said drum to thereby retain the border portion of the master in said accurately predetermined relation to said drum.

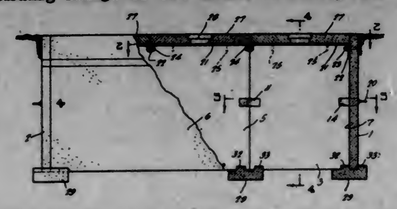
2,350,017
TUBE COUPLING
Ernest W. Davis, River Forest, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application October 2, 1942, Serial No. 460,479
8 Claims. (Cl. 285—122)



1. In a tube coupling, a body member having a bore therethrough, said body member having an internally threaded portion and an internal tapered portion; an externally threaded sleeve movable longitudinally forward in said body member to engage said tapered portion and form a fluid-tight seal therewith; and a rotatable bushing having internal threads for engaging said sleeve threads and having external threads for engaging said body threads, one of said bushing threads being right hand and the other left hand, and the angle of said tapered portion being more acute than the angle of said sleeve threads, whereby the friction of rotation between said sleeve and said tapered portion is greater than the friction between said sleeve threads and said bushing threads, and whereby rotation of said bushing in a direction to cause forward movement thereof will also cause forward movement of said sleeve relative to said bushing.

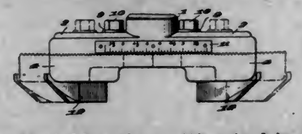
2,350,018
METER BOX
William F. Dean and Frank M. Brooks, Pasadena, Calif.
Application December 10, 1940, Serial No. 369,442
2 Claims. (Cl. 220—4)

1. In a box of the character described, end plates, a plurality of side plates to form each side of the box and placed adjacent one another, means for securing said side plates together, and means for maintaining said plates in position, comprising a plurality of similar metal frames each formed as an open rectangle, adapted to have a cover seated thereon, each of said frames having depending flanges on two opposite sides, the other pair of opposite sides having a length corresponding to that of the co-operating side plate, and joined respectively to said side plates, adjacent frames being arranged so that a depending flange of one frame is contiguous to a



depending flange of the other frame, the frames defining with the side plates, a series of rectangular spaces, the number of such spaces corresponding to the number of frames, and means for fastening said contiguous flanges together, said end plates being joined to the depending flanges of the corresponding end frames.

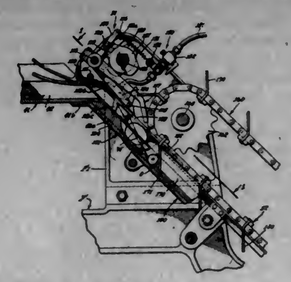
2,350,019
VALVE CUTTING TOOL
Frederick A. Dexter, Orange, Mass., assignor to The Leavitt Machine Company, Orange, Mass., a corporation of Massachusetts
Application September 24, 1941, Serial No. 412,189
4 Claims. (Cl. 29—105)



1. An adjustable valve cutting tool including a head having a plurality of arms respectively provided on their under sides with grooves extending longitudinally thereof, cutter carrying members respectively mounted on and adjustable longitudinally of said arms, each of said cutter carrying members having a groove in its upper surface, an elongated member secured within the groove of each cutter carrying member and projecting upwardly therefrom into the groove on the under side of the arm with which the cutter carrying member is associated, each cutter carrying member being also provided with toothed portions on opposite sides of the elongated member secured thereto so that it may be selectively interlocked with the arm on which it is mounted in a plurality of different positions of adjustment, and means for detachably securing each of said cutter carrying members to its associated arm in a desired position of adjustment.

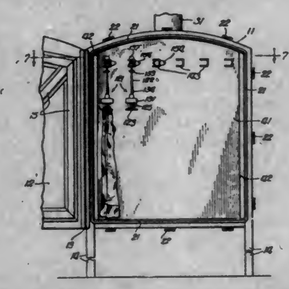
2,350,020
METERING AND CONVEYING SYSTEM
Edward P. Drake and Fred J. Alberty, Los Angeles, and William Herbert Kagley, Lindsay, Calif., assignors to Lindsay Ripe Olive Company, Lindsay, Calif., a corporation
Application May 3, 1941, Serial No. 391,744
11 Claims. (Cl. 198—26)

1. In a fruit pitting apparatus the combination of: mechanisms adapted to receive fruit from bulk and deliver individual pieces thereof at regularly spaced intervals for further treatment comprising a plurality of substantially adjacent fruit passages merging into a single fruit passage, and means for accelerating the movement of fruit from the plurality of passages into the single passage comprising fluid nozzles in the first named fruit passages adapted to direct jets



of fluid under pressure against fruit passing therethrough substantially in the direction taken by the fruit in passing from the first named passages into the single passage.

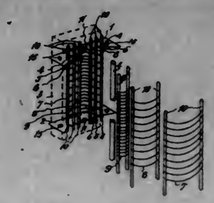
2,350,021
METHOD OF TREATING TEXTILES
George E. Dunn, Kankakee, Ill., assignor to Paramount Textile Machinery Co., Kankakee, Ill., a corporation of Illinois
Application August 7, 1940, Serial No. 351,654
6 Claims. (Cl. 18—54)



1. The method of setting a fabric article fabricated substantially from a yarn essentially a synthetic linear condensation polyamide following the primary fabrication of said article and prior to any subsequent hot, liquid treatment, which comprises supporting said article in such a manner as to retain therein the naturally occurring loose folds and configurations of the article resulting from the primary fabrication, and subjecting the article while so supported to the action of a vaporous setting medium.

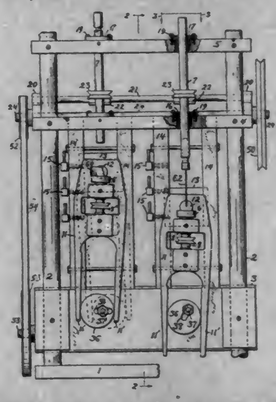
2,350,022
ELECTRODE ASSEMBLY OF ELECTRONIC VALVES
Bernhard Erber, St. Johns Wood, London, England
Application July 22, 1942, Serial No. 451,979
In Great Britain January 26, 1942
8 Claims. (Cl. 250—27.5)

1. An electronic valve having plural grids formed of substantially equal separate preshaped discontinuous parts, projections upon said parts and a grid support including a pair of sheets of insulating material fixed in spaced relationship one to the other and having open ended slots which receive the grid projections and locate the grid parts in their correctly assembled positions, together within means which retain the projections within the slots, comprising strips of insulating material which engage



said projections and in effect close said slots, and means which fix the grid projections to the respective strips comprising the grid support, said fixing means also holding the anode support.

2,350,023
LAPPING MACHINE FOR WIRE-DRAWING DIES
Otis G. Ferrier, Fort Wayne, Ind.
Application April 28, 1941, Serial No. 390,839
3 Claims. (Cl. 51—46)



3. A wire drawing die lapping machine consisting of a frame having guides, a supporting block adjustably secured to said guides, a carriage pivotally supported on said block, an axially rotative arbor in the carriage, a mechanism in the frame including a rotative shaft provided with an eccentric adjustably mounted thereon engaging said carriage to actuate it, and axially rotative and reciprocative spindle provided with a lapping tool supported by the frame and axially disposed with its axis in the plane of the axis of said arbor, the arrangement being such that the swing of the carriage is increased or decreased according to adjustment of the carriage relative to said eccentric, and means for actuating said shaft, arbor and spindle.

2,350,024
AUTOMATIC PILOT FOR AIRPLANES
Earl Henry Francis, Kansas City, Mo.
Application December 9, 1940, Serial No. 369,242
2 Claims. (Cl. 244—76)

1. In an automatic pilot for airplanes as described, a pivotal stabilizing element, a slidably mounted gear box, a cable connecting said stabilizing element with said slidably mounted gear box, an electric motor adapted to be energized when the airplane varies from a predetermined

stable position, a worm drive shaft driven by said motor, a worm gear mounted in said gear box to operatively engage said worm drive shaft, a clutch member carried by said gear box operable to lock said worm gear against rotation, a



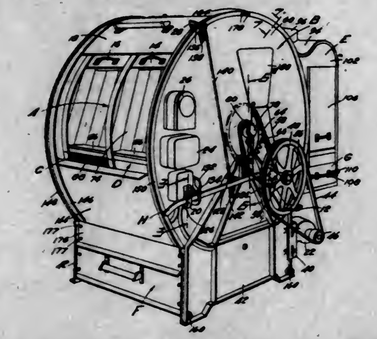
centrifugal governor carried by said gear box and driven by said electric motor adapted to operate said clutch member to lock said worm gear whereby the worm shaft will engage the locked worm gear and cause the gear box to move longitudinally of said worm shaft.

2,350,025

FUR CLEANING APPARATUS

Samuel Friedman, Brooklyn, N. Y.

Original application September 16, 1938, Serial No. 230,219. Divided and this application June 23, 1942, Serial No. 448,127
4 Claims. (Cl. 192—135)



1. A fur cleaning apparatus comprising a fur cleaning cylinder, a casing around said cylinder, a door on said casing openable for access to the cylinder, a motor for rotating the cylinder, a switch for controlling the motor, a brake for the cylinder, a latch for said casing door, a single manually operable handle movable into two end and one intermediate positions, and means interconnecting said handle with the switch, the brake and the latch, said means including provisions for closing the switch, releasing the brake and locking the latch with the handle moved to one end position, for opening the switch, applying the brake and releasing the latch with the handle moved to the other end position and for holding the switch open and the latch released without applying the brake with the handle moved to the intermediate position.

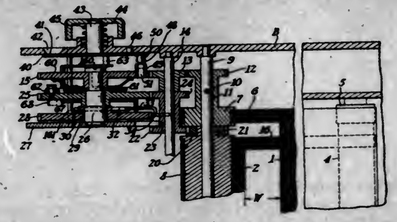
2,350,026

FOCAL PLANE SHUTTER CONTROL

Carl C. Fuerst, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 17, 1942, Serial No. 451,277
12 Claims. (Cl. 95—57)

1. In a focal plane shutter of the type employing two curtains each mounted on an individual spring roller at one end and on separate rotatable supports at the other end and means for providing predetermined widths of slot between the ends of the curtains to produce different exposures, the combination with said means for providing predetermined widths of slot for exposures, of a control therefor including a pair of separately rotatable disks, one of said disks constituting a setting disk, the other of said disks



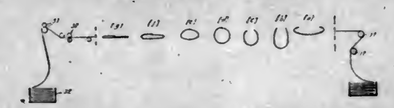
constituting a curtain disk movable with a shutter curtain, cooperating stops one on each disk whereby movement of the curtain disk may be limited, and a pair of coupling members, one carried by the setting disk and the other carried by the curtain disk, a mount on which the setting disk may move axially to engage the coupling members when properly positioned for turning the curtain disk from the setting disk for adjusting one curtain relatively to the other.

2,350,027

METHOD OF MAKING BIAS FABRIC

Percy Gardner, Glen Ridge, N. J., assignor to Lever Bias Machine Corporation, New York, N. Y., a corporation of New York

Application March 17, 1942, Serial No. 435,021
8 Claims. (Cl. 28—72)



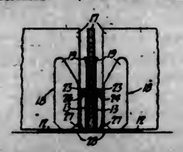
1. A method of making bias fabric which comprises the step of pulling sheet material out of a container and through a series of treatment-zones or positions, during which the material is formed into approximately tubular form, fastened at its adjacent edges to form a tube, subjected along the finished seam to regulated tension, subjected to a regulated stretching and flattening pressure and then allowed to drop loosely folded into a container.

2,350,028

MERCHANDISE DISPLAY AND HOLDING FIXTURE

David Garfinkle, Alameda, Calif.

Application June 16, 1942, Serial No. 447,290
5 Claims. (Cl. 312—140.3)



5. In a counter-top merchandise display and holding fixture, an elongated member having upright and horizontal walls united in substantially right angular relation and having formed therein

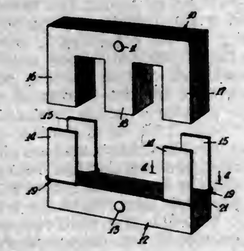
vertically spaced and opposed channels, said horizontal wall having a portion spaced from said channels and vertical wall and providing a means of supporting the member on the counter top with the horizontal and vertical walls respectively parallel and perpendicular to said top, and a partition holder arranged on said member and having partition-gripping wing portions positioned over said horizontal wall and vertically spaced anchoring portions seated in said channels and resiliently and interlockingly engaging with the wall portions defining said channels.

2,350,029

INDUCTIVE CORE

John P. Glass, Jr., North Bergen, N. J., assignor, by mesne assignments, to Maxwell Bilofsky, Newark, N. J.

Application July 22, 1940, Serial No. 346,678
12 Claims. (Cl. 175—356)



1. An inductive core comprising ferrous structure presenting an air gap between faces thereof and a rod-like interspacer clamped therebetween, with its length extending substantially along said faces of material impervious to moisture, having high electrical resistance and low coefficient of expansion, and impregnating material filling that portion of the air gap not occupied by said interspacer.

2,350,030

COATED CEMENT PRODUCT AND METHOD OF MANUFACTURING SAME

Harold W. Greider, Wyoming, and William T. Young, Springdale, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio

No Drawing. Application December 29, 1941, Serial No. 424,788
26 Claims. (Cl. 117—123)

2. A method of coating an hydraulic cement product which comprises applying to the product as a coating an aqueous composition that contains at least about 30% (by weight of the dry solids in the composition) of soluble silicate consisting predominantly of sodium silicate and that contains at least about 10% of acidic kaolinitic type clay, and drying and heat curing the coating, said heat curing of the coating being carried out at a temperature between about 500° F. and 750° F. to insolubilize soluble silicate contained therein.

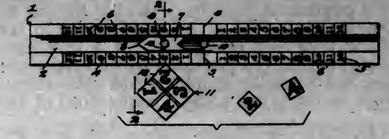
2,350,031

GAME

Charles L. Hagan, Laverne, Okla.

Application April 1, 1943, Serial No. 481,477
1 Claim. (Cl. 273—94)

In a game of the class described an elongated strip having a longitudinal groove, there being transverse graduations on the strip intersected by the groove and an opening in the bottom of the groove, a game piece mounted for sliding movement in the groove, and a pin extending



from the game piece and constituting a finger piece, said finger piece, when inverted, constituting means for supporting the pin within the opening, thereby to hold the game piece against sliding movement.

2,350,032

DELUSTERING CELLULOSE ESTER FABRICS

Onslow B. Hager, Glenside, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application August 9, 1941, Serial No. 406,201
4 Claims. (Cl. 8—135)

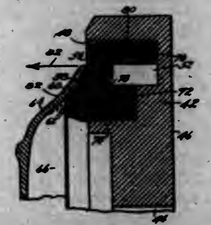
2. A process of delustering cellulose actate fabric which comprises impregnating said fabric with a dispersion which consists of about ¼% to about 6% of a copolymer formed from a mixture of 50% to 90% of acrylonitrile and 50% to 10% of ethyl acrylate suspended in an aqueous medium, retaining thereon about ¼% to about 4% of said copolymer based on the weight of the fabric, and drying the impregnated fabric.

2,350,033

STAMP FOR DECORATING NONPLANAR SURFACES

Harry C. Hebenstreit, Alliance, Ohio

Application November 29, 1941, Serial No. 420,946
8 Claims. (Cl. 101—379)



1. A stamp for decorating non-planar surfaces comprising a base member having a ring shaped recess formed therein, a resilient ring pad positioned with its outer edge portion in said recess and its inner edge portion resting on said base adjacent said recess and extending above said base member, and a relief design of substantially frusto-conical form carried on the outer surface of said pad.

2,350,034

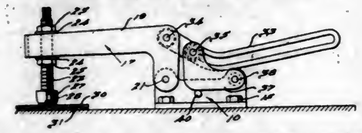
TOGGLE CLAMP

James A. Herrington, Detroit, Mich., assignor to Knu-Vise, Incorporated, Detroit, Mich., a corporation of Michigan

Application July 21, 1942, Serial No. 452,541
1 Claim. (Cl. 144—290)

A clamping device comprising a base, an L-shaped clamping arm made of an elongated U-

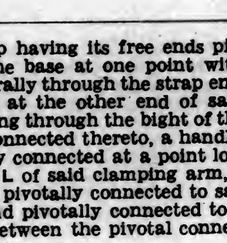
shaped strap having its free ends pivotally connected to the base at one point with the pivot passing laterally through the strap ends, a clamping element at the other end of said clamping arm extending through the bight of the U-shaped strap and connected thereto, a handle having its end pivotally connected at a point located in the bend of the L of said clamping arm, a link having one end pivotally connected to said base and the other end pivotally connected to said handle at a point between the pivotal connection of the



handle to the clamping arm and the pivotal connection between the link and the base, whereby when the parts are in clamping position the pivotal connections between one end of the link and the base, the handle with the clamping arm, and the handle with the other end of the link, lie in substantial alignment, the pivotal connection between the handle and said other end of the link being intermediate the other of said pivotal connections, and means on said base for limiting the movement of said link and clamping arm to the clamping position.

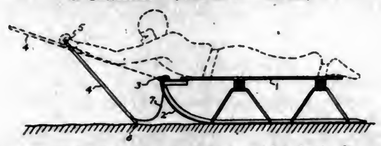
2,350,035
PHOTOGRAPHIC LENS
Maximilian J. Herzberger, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 6, 1942, Serial No. 446,085
3 Claims. (Cl. 88—57)





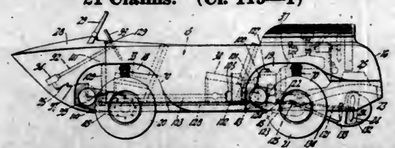
1. A photographic objective of the type having four axially spaced components of which the two outer ones are positive and the two inner ones are menisci highly concave toward a diaphragm therebetween characterized by the rear component being compound with a cemented surface concave toward the diaphragm and having a radious of curvature between −.5F and −5F where F is the focal length of the objective and which surface separates two glasses the front one of which has an index of refraction at least .04 greater than that of the other and by the ratio R_6:R_5 being between 5:4 and 5:2 where R_5 and R_6 are the radii of curvature respectively of the rear surface of the second component and of the front surface of the third component, and further characterized by the meniscus component immediately behind the diaphragm being compound with a cemented surface concave toward the diaphragm between two elements, the rear one of which has the higher index and by the front component of the objective being of glass with an index of refraction between 1.65 and 1.75 and a dispersive index between 50 and 60.

2,350,036
SLED PUSHING AND PULLING MEANS
Emerick Hodaly, Detroit, Mich.
Application October 7, 1942, Serial No. 461,179
5 Claims. (Cl. 280—12.11)



1. The combination with a vehicle, of a push pole having a metal shoe at one end for transmitting thrust to a surface on which the vehicle travels and equipped with oppositely projecting handles substantially at its other end, the vehicle including a platform spaced above said surface to receive an occupant of the vehicle, said handles being engageable by the hands of such occupant, and the platform being adapted to advance above the push pole as the latter is thrust rearwardly against said surface, and an elongated, flexible, non-elastic tie connection to the front portion of the vehicle from the lower portion of the push pole, limiting the extent to which the pole may engage beneath the platform and thus protecting the hands of the occupant from the advancing vehicle.

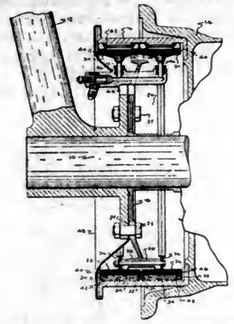
2,350,037
AMPHIBIAN VEHICLE
Roger W. Hofheins, Carlos E. Harrington, Charles D. Thomas, and Paul P. M. Dubosclard, Buffalo, N. Y., assignors to Amphibian Car Corporation, Buffalo, N. Y.
Application December 3, 1941, Serial No. 421,470
21 Claims. (Cl. 115—1)



8. In an amphibian vehicle, a watertight hull, fore and aft axles passing through the walls of said hull, an elongate drive transmission attached to each end of said axles and mounted for pivotal movement thereabout, a casing for said transmission, a traction wheel mounted at the other end of each of said transmissions, and a resilient strut engaging between said casing adjacent said other end of each transmission and an upper stationary part of said vehicle and being resiliently compressible for rendering each wheel independently resiliently mounted for limited pivotal movement.

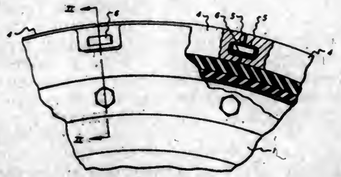
2,350,038
BRAKE STRUCTURE
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application May 24, 1939, Serial No. 275,355
12 Claims. (Cl. 188—152)

1. In a brake mechanism, a multi-part sheet metal torque plate comprising a fairing and a pair of substantially identical members in reverse relation collectively defining a brake element supporting rim, said fairing and members having central portions in contiguous relation collective-



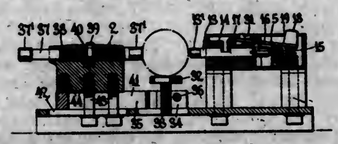
ly defining torque plate, the central portions of said members being substantially spaced from the rim portion defined thereby and in combination with the fairing solely constituting the torque plate for the brake mechanism.

2,350,039
REINFORCING FOR BRAKE BLOCKS
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application June 17, 1943, Serial No. 491,177
6 Claims. (Cl. 188—78)



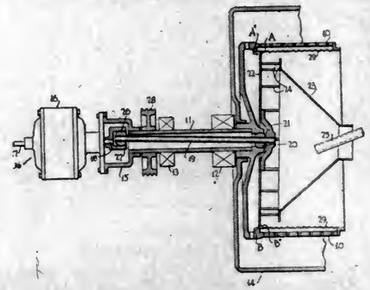
1. In a brake construction, a circular rim part, arcuate brake blocks adapted to be assembled upon the periphery of said rim, said brake blocks being positioned adjacent one another end-to-end, metal tubes disposed between adjacent blocks and anchored thereto for supporting said blocks from each other, and means anchoring said blocks to said rim.

2,350,040
PRECISION INSTRUMENT
Erwin C. Horton, Hamburg, and Anton Rappl, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application October 5, 1942, Serial No. 460,752
14 Claims. (Cl. 33—147)



1. An indicating gage comprising an anvil, a work engaging plunger arranged in opposition thereto, means movably supporting the plunger for movement toward and from the anvil, a primary lever acting at one end on the plunger, a pointer in the form of a secondary lever bearing on the opposite end of the primary lever, resilient means acting on the primary lever in a manner to hold said opposite end on the secondary lever, spring means acting on the secondary lever and through the primary lever to urge the plunger into work engaging position in opposition to and in domination of said resilient means, means for adjusting the tension of said spring means to regulate the urge on the plunger for light or heavy pressure contact with the workpiece, a retractor operable to withdraw the plunger against the action of said spring means, resilient means acting on said retractor to normally hold the plunger retracted against the urge of said spring means, and means for rendering the retractor inoperative whereby the plunger is free of manual control for snap gaging operation.

2,350,041
CENTRIFUGAL SEPARATOR
Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application March 21, 1942, Serial No. 435,601
3 Claims. (Cl. 210—68)

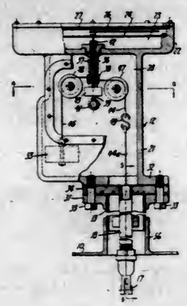


3. In a centrifugal separator designed to separate liquid from solids and discharge the solids by moving them longitudinally through a centrifugal rotor, the combination comprising a rotor, means for feeding a mixture of liquid and solids into said rotor, a disc within said rotor having its outer circumference adjacent the surface of said rotor along which the solids accumulate, a shaft secured to said disc and intersecting the rotor axis, said disc and shaft being designed to be rotated at the speed of rotation of the rotor, a bearing for a part of said shaft longitudinally removed from the part of said shaft which intersects the axis of the rotor, said bearing being disaligned with respect to the axis of the rotor and designed to permit oscillation of said shaft, and means for rotating said bearing about the axis of the rotor at a rate different from the rate of rotation of said rotor, whereby to effect a progressive wobbling movement of said disc with respect to said rotor and impel the solids longitudinally from the rotor.

2,350,042
TANK GAUGE
Eugene E. Jurs, Oakland, and John J. Denham, Orinda, Calif., assignors to Shand and Jurs Company, a partnership composed of Albert E. Jurs, Raymond M. Young, Peter C. Jurs, and Eugene E. Jurs
Application April 13, 1942, Serial No. 438,706
3 Claims. (Cl. 73—317)

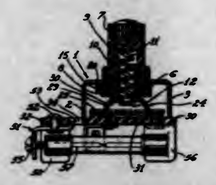
1. In gauging apparatus for application to a liquid tank, a closed housing located exterior of the tank, a hollow member connecting the hous-

ing to the tank, a movable float disposed within the tank, indicating means carried within the housing and including a vertically disposed rotatable indicator shaft, a spool secured to the shaft, a pair of spaced sheaves mounted on a horizontal axis and disposed upon opposite sides of the indicator shaft in a plane substantially tangent to the periphery of the spool, a cable



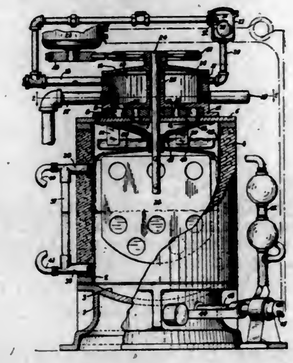
wrapped about the spool and extended in said plane to engage over one of said spaced sheaves and to thence extend downwardly for attachment to the float, another cable likewise wrapped about the spool and extended in said plane to engage over the other one of said spaced sheaves, and a counterbalance weight secured to the depending end of said second named cable, whereby constant tension is applied to both said cables.

2,350,043
ELECTRIC SWITCH
Edwin F. Kalvin, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application November 4, 1940, Serial No. 364,224
1 Claim. (Cl. 200—11)



An electric switch including, a casing, a tubular bearing secured to and extending through a wall thereof, a carrier carrying contacts supported by said casing, bridge means operatively related to said contacts, handle means mounted within said bearing, said handle means being provided with an opening, recessed means nonrotatable with respect to said handle means slidably mounted in said opening connected to said bridge means whereby movement of said handle means will rotate said bridge means, cooperating means provided on said bearing, means provided on said handle means engageable with said cooperating means for predetermining at least one position of said bridge means, and resilient means disposed in the opening of said handle means and having a part disposed in the recess of said recessed means for urging said means slidable in the said opening into engagement with said bridge means for urging the latter toward said contacts and the means provided on the handle means toward said cooperating means.

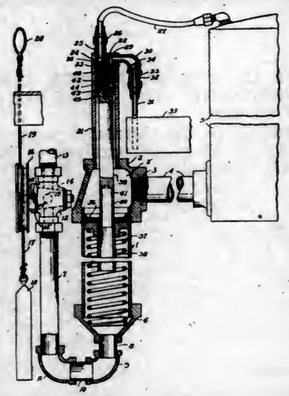
2,350,044
MIXING TANK FOR CARBONATED BEVERAGES
James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Original application August 2, 1941, Serial No. 405,123. Divided and this application January 5, 1942, Serial No. 425,618
7 Claims. (Cl. 259—24)



1. In a mixing apparatus, a mixing tank including a top having concentrically arranged openings therein, a water chamber arranged above said top having a discharge opening in the bottom thereof, a syrup chamber arranged above said top having a discharge opening in the bottom thereof, said openings being arranged in concentric circles and a rotary valve disposed between said tank top and the bottoms of said water and syrup chambers and having a measuring cup therein arranged, during the rotation thereof, to first coincide with the discharge opening in said water chamber and then coincide with one of said concentric openings in the top of said mixing tank, and a second measuring cup in said valve arranged to, during the rotation of said valve, first coincide with the opening in said syrup chamber and then coincide with the other of said concentric openings in the top of said tank.

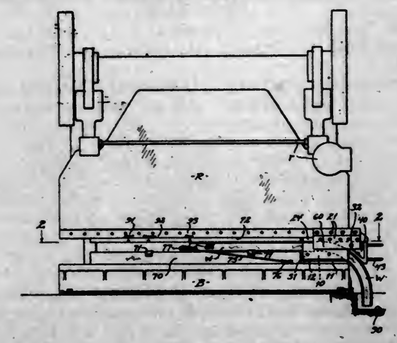
2,350,045
WATER SOFTENER
Edmund A. Kathe, Springfield, Ohio, assignor to The Rainflo Manufacturing Company, Springfield, Ohio, a corporation of Ohio
Application July 22, 1940, Serial No. 346,681
2 Claims. (Cl. 210—40)

1. In a water softening apparatus, a cylinder, a piston therein, a water inlet connection for said cylinder on one side of said piston adapted to be connected to a source of water under pressure, a water discharge connection for said cylinder on the opposite side of said piston, a hollow tube associated with said piston and extending into the spaces on opposite sides of said piston, a restricted passage in said tube within the inlet end of said cylinder, a spring surrounding said tube and interposed between the piston and a fixed abutment in said cylinder, a valve for controlling flow of water between said inlet and discharge connections, a second smaller cylinder communicating with said first mentioned cylinder, a piston therein, means connecting the two pistons, means connecting said smaller cylinder to a source of water softening material and including a check valve, means including a check valve connecting said smaller cylinder to the water supply source, whereby when said valve is opened the larger piston, will be moved by water pressure from the water supply source against the tension of the spring and said smaller piston moved therewith to draw in a supply of



water softening material into the smaller cylinder, and when said valve is closed said larger piston will be returned to its normal position by said spring to inject the water softening material into said water supply source, and a valve associated with the smaller piston to close said connections to the water softening material source and to the water source after ejection of material from said cylinder.

2,350,046
METHOD AND APPARATUS FOR BENDING STRUCTURAL SHAPES
Daniel Kelleher, Strongsville, Ohio, assignor to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio
Application December 4, 1941, Serial No. 421,655
12 Claims. (Cl. 153—48)



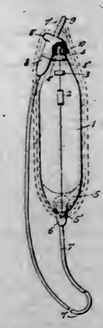
1. An apparatus for bending flanged beams comprising a bed having a straight portion to support the beam and a curved anvil about which it may be bent, a movable ram having a straight portion to oppose the straight portion of the bed and having a deflected portion to engage and bend the bar, a pair of clamping plates having shoes to engage opposite sides of the bar loosely enough to allow the bar to be fed, means on the ram to force the plates inwardly to clamp the web as the ram moves into active engagement to bend the beam, such clamping action being relieved when the ram recedes, whereby at that time the beam may be fed lengthwise.

10. The method of bending bars comprising placing one edge of the bar in position against a support with one end thereof overhanging the support, exerting pressure on the overhanging portion of the bar against its opposite edge thereby swinging the bar about the support as a fulcrum, and simultaneously exerting pressure on the end portion of the bar opposite the overhanging portion, and continuing the pressure on both end portions of the bar until the bar is engaged on longitudinally coextensive top and bottom surfaces thereof, relieving the pressure, successively repeating such operation, and between successive operations feeding the bar lengthwise of itself.

2,350,047
ANTIPERSPIRANT AND DEODORANT
Emil Klarmann and Louis W. Gates, Bloomfield, N. J., assignors to Lehn & Fink Products Corporation, a corporation of Delaware
No Drawing. Application September 13, 1941, Serial No. 410,759
9 Claims. (Cl. 167—90)

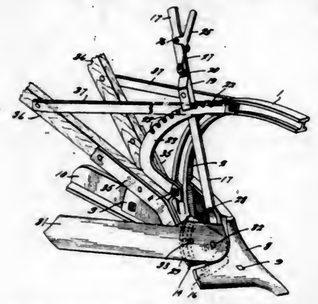
1. A perspiration retarding or inhibiting composition obtained by combining a soluble astringent salt of a polyvalent metal with a proportion of a water-insoluble metallic base in an amount of from about 4% to about 15% on the soluble astringent salt.

2,350,048
ELECTRIC DRY-SHAVING APPARATUS HAVING A SHEARING HEAD GUARD
Victor Kobler and Werner Kobler, Zurich, Switzerland
Application June 26, 1941, Serial No. 399,876
In Germany October 8, 1940
11 Claims. (Cl. 30—34)



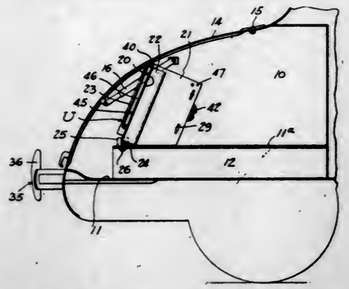
1. In an electric dry shaving apparatus having a shearing head projecting from a casing, an electric driving arrangement having connecting terminals included in said casing, an electroconductive supply cord connected with said terminals and leading out of said casing at a point of junction between said cord and said casing, and a guard cap for said shearing head attached to said supply cord, said cap being formed with a cup adapted to fit on the shearing head to protect said head when not in use.

2,350,049
PLOW OF THE SWEEP TYPE
George W. Lee, Willow Springs, N. C.
Application November 13, 1941, Serial No. 418,969
2 Claims. (Cl. 97—118)



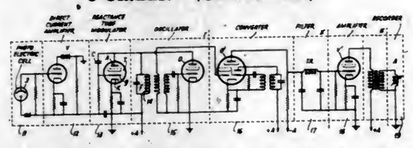
1. A plow construction comprising a body portion, a frog provided at the front end of the body portion, a share attached to the frog, an offset provided on the frog, a plate pivotally attached between the body portion and the offset and having an angular portion extending rearwardly therefrom, an arcuate slot in the angular portion, a sweep secured in the slot whereby vertical adjustment of the sweep may be effected and a lever attached to the plate to raise and lower the free end of the sweep.

2,350,050
VEHICLE
Peter Lim, Los Angeles, Calif.
Application August 16, 1940, Serial No. 352,920
2 Claims. (Cl. 296—26)



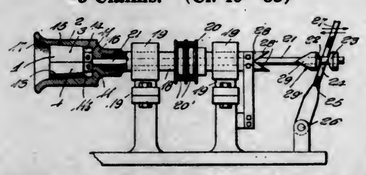
1. In a vehicle, a vehicle body having an exteriorly streamlined storage space opening to the top and to the rear thereof; a streamlined lid pivotally mounted at its forward end on the body to swing downwardly and rearwardly to close the storage space; an open-topped storage unit composed of a bottom panel, side panels and a rear panel; means mounting said unit in the storage space at the lower forward corner portion of the unit for pivotal movement independently of the lid about a fixed horizontal axis extending transversely of the vehicle body; said axis being disposed for the storage unit to occupy a working position wherein it projects beyond the rear of the storage space to form rearward extensions of the sides and bottom of the latter, or an inactive position entirely within the storage space, wherein the open top of the unit faces forwardly of the storage space and the rear of the unit is uppermost; and means pivotally mounting said rear panel of the storage unit at the rear lower corner thereof to close the rear of the storage unit or function as a tail gate thereof when the unit is in working position, or to be disposed substantially flatly against said bottom panel when the unit occupies its inactive position, whereby to enable a load in the storage space to project between the side panels and above the latter without interference by the rear panel.

2,350,051
METHOD OF AND MEANS FOR ELECTRICAL TRANSMISSION OF PICTURES AND/OR CHARACTERS
Heinz Lübeck, Berlin, Germany, assignor to General Electric Co., a corporation of New York
Application February 26, 1941, Serial No. 380,635
In Germany July 10, 1939
8 Claims. (Cl. 178—6.6)



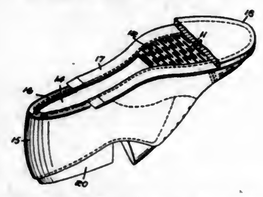
1. A system for producing records of subjects, a scanner for scanning a subject to produce potentials corresponding to subject point brightness, a generator for producing carrier current the frequency of which is modulated in accordance with variations of the potentials produced by scanning said subject, a source of oscillations, a mixer tube excited by oscillations from said source and by said modulated carrier current for deriving from said frequency modulated carrier current, currents of lower frequency correspondingly modulated in frequency, a recorder including a stylus and a coil system for moving the same, the natural frequency of the recorder, including said coil and stylus being outside the frequency range of the wave energy impressed thereon, and connections for impressing said wave energy of lower frequency on said coil system.

2,350,052
METHOD OF MAKING HOLLOW GLASS ARTICLES
Paul R. Luertzing, Vineland, N. J., assignor of one-half to Walter O. Luertzing, Vineland, N. J.
Application August 23, 1940, Serial No. 353,952
5 Claims. (Cl. 49—85)



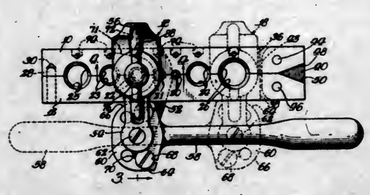
1. The method of making an open ended tubular glass body with finished end surfaces in a single operation, which consists of feeding to a substantially horizontally disposed substantially stationary mold an elongated molten glass charge of a volume equal to that of the completed body, depositing the charge on the internal surface of the mold, and rapidly accelerating rotation of the mold about a substantially horizontal axis to cause by centrifugal force alone the flow of glass along its interior forming surface to complete the body.

2,350,053
BOTTOM FILLER FOR SHOES
Henry G. Lumbard, Auburn, Maine
Application December 7, 1943, Serial No. 513,227
2 Claims. (Cl. 36—30)



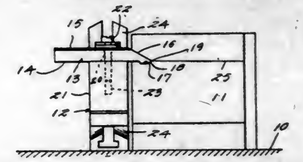
1. In a flexible shoe having an insole with an upper overlasted upon its margin and an outsole, the combination with the insole, of a flexible filler comprising a blank of insole stock fitted within the overlasted margin of the upper upon the outer face of the insole and transversely slashed in adjacent parallel rows of short, aligned, through-and-through slashes extending from edge to edge of the filler and intersecting both edges thereof, the material of the filler being expanded and the opposed edges of each individual slash thereby separated sufficiently to remain out of contact when the shoe bottom is flexed in wear.

2,350,054
TUBE FLARING TOOL
Robert D. McIntosh, River Forest, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 11, 1941, Serial No. 406,429
3 Claims. (Cl. 153—81)



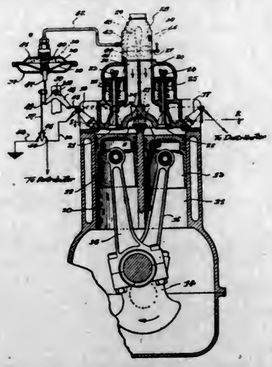
1. In a flaring tool having a pair of elongated clamping bars provided with complementary recesses throughout their length for holding tubing of various sizes, the combination of a yoke forming a clamp having a leg adjacent the underside of the bars, a leg adjacent the topside of said bars and an integral connecting portion at adjacent ends of the legs overlying the outer side of one of said bars, a lever arm having a head end pivotally secured between opposite adjacent ends of said legs, said lever having an adjustable cam and cam face on each side of the head having a camming position against the adjacent bar forcing said bars into clamped relationship against a tube when the lever is adjacent and substantially parallel to one end of said pair of clamping bars, said lever and the clamping bar on the opposite side of the tube comprising cooperative handles for manually compressing the bars against any selected size of tube for either position of operation of said lever, an expanding element on each of said cams providing when operated a variation in the distance between said opposite cam faces, an aperture in the leg of said yoke adjacent the topside of the clamping bars, and a flaring die slidably supported on said leg in the aperture adapted to be forced into the tube for making a flare.

2,350,055
SCRATCH BIT
John F. McQuillan, Sr., East Orange, N. J.
Application March 12, 1942, Serial No. 434,422
2 Claims. (Cl. 33—18)



1. A scratch bit for use with height gauges, planer gauges, and gauge blocks, said bit having a flat bottom surface, said bit having a beveled upper plane surface at one end thereof, a depending projection on the bit disposed at said end thereof and extending downwardly from the bottom surface, said projection having a beveled plane surface at its outer end, and said beveled surfaces intersecting to form a scratching edge, said scratching edge being disposed in the same plane as the bottom surface of the bit.

2,350,056
INTERNAL-COMBUSTION ENGINE
Marion Mallory, Detroit, Mich.
Application October 24, 1942, Serial No. 463,155
12 Claims. (Cl. 123—53)

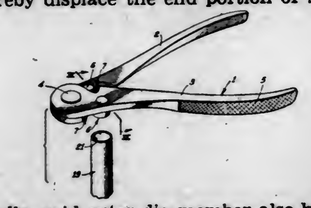


1. In an internal combustion engine comprising two cylinders, a piston for each of said cylinders, the one piston leading the other piston, each cylinder having a valve controlled intake port and a valve controlled exhaust port for charging and exhausting said cylinders, a restricted passageway between the two cylinders, a valve controlling said passageway, and means tending to move said last mentioned valve toward closed position when the charge for the said cylinders is insufficient to maintain a predetermined compression in the cylinders with the restriction open.

2,350,057
FORMING TOOL
Otis C. Martin, Los Angeles, Calif.
Application May 26, 1941, Serial No. 395,200
7 Claims. (Cl. 81—15)

1. In a tool for forming a cylindrical enlargement on the end of a tube, the combination of: an outer die member having an abutment surface engageable with the exterior surface of said tube at a point spaced from the end thereof; an in-

ner die member insertable into said tube and having a forming surface engageable with the interior surface of said tube at a point nearer the end of said tube than the point engaged by said abutment surface; and means mounting said inner die member for movement laterally of the length of said tube toward said outer die member to thereby displace the end portion of said tube



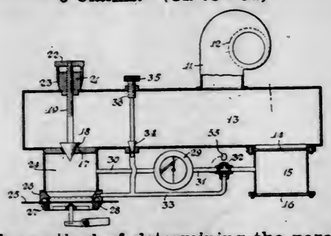
outwardly, said outer die member also having an upper tubing engaging surface normally spaced from the exterior surface of said tube and extended parallel thereto for arresting outward movement of said end portion, whereby movement of said inner die member moves said displaced end portion to a position spaced outwardly from the exterior surface of said tube and disposed parallel thereto.

2,350,058

METHOD AND APPARATUS FOR TESTING THE POROSITY OF SHEET MATERIALS

Richard W. May, Pittsfield, Mass., assignor to W. & L. E. Gurley, Troy, N. Y., a corporation of New York

Application December 23, 1940, Serial No. 371,462
6 Claims. (Cl. 73—51)



1. The method of determining the porosity of sheet material, which comprises causing a gaseous medium to flow from a source at an approximately uniform maintained pressure to a discharge at a lower maintained pressure through two distinct confined paths, the flow in one path being serially through two flow restricting orifices, whereby an intermediate reference pressure is established between the orifices, and the flow in the other path being serially through two restrictions, one of which is a definite area of the sheet material and the other of which is a variable orifice, whereby a variable intermediate test pressure is established between the sheet material and the variable orifice; adjusting the flow capacity of said variable orifice until the intermediate test pressure equals the intermediate reference pressure; and expressing porosity in terms of the adjustment of the variable orifice.

2,350,059

INDICATOR FOR TYPEWRITERS AND THE LIKE

Frederick W. Messchaert, Oakland, Calif.

Application April 15, 1942, Serial No. 439,000
4 Claims. (Cl. 197—101)

1. In a detachable typewriter indicator, a clamp comprising two tension arms adapted to compressively engage the shaft of a predetermined key, said clamp adapted to support a vertically disposed arm which carries an indicator,



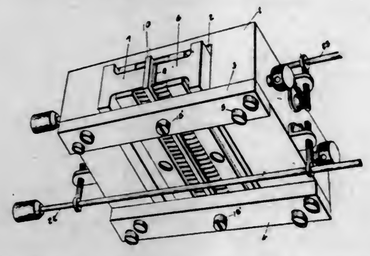
said indicator adapted to be positioned adjacent to the top face of the said key and relatively projected therefrom.

2,350,060

COMPRESSION TESTING DEVICE FOR THIN MATERIALS

Wiley P. Montgomery, Washington, D. C., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application October 22, 1942, Serial No. 462,916
6 Claims. (Cl. 265—12)



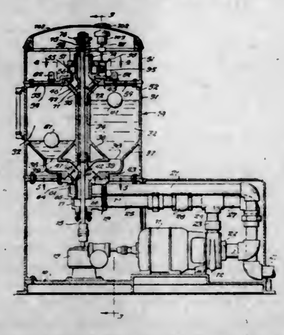
1. A device for making compression tests of a relatively thin specimen comprising, in combination, opposed rolling means whose rolling axes extend transversely of the direction of movement of the specimen, said means being spaced apart to receive and laterally engage a relatively thin specimen during application of a compression load thereto, and means for maintaining said opposed rolling means in their operative position.

2,350,061

GAS AND LIQUID PUMPING AND SEPARATING APPARATUS

Porter S. Morgan, Westport, Conn., assignor to American Brake Shoe Company, a corporation of Delaware

Application August 8, 1942, Serial No. 454,126
12 Claims. (Cl. 103—6)



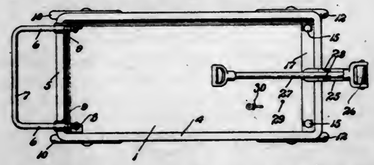
1. A gas and liquid pumping and separating apparatus comprising a plurality of chambers each having an inlet for a mixture of gas and liquid, means for connecting each of such chambers in turn to the mixture to charge each chamber therewith, duct means for each chamber through which liquid entering from the inlet may be withdrawn and through which gas-free liquid may be supplied to each chamber, movable valve means for successively opening and closing the duct means whereby each chamber may be drained and may thereafter be flooded with liquid entering through said duct means, said inlet connecting means and said movable valve means operating in timed relationship whereby a chamber being flooded is disconnected from said inlet, a relief port for each chamber through which gas and adventitious liquid may escape during the flooding of the chamber, and means for recovering such adventitious liquid and directing it back into the mixture.

2,350,062

CART

Peter Mosier, Grand Rapids, Mich.

Application October 11, 1943, Serial No. 505,715
9 Claims. (Cl. 280—87.01)



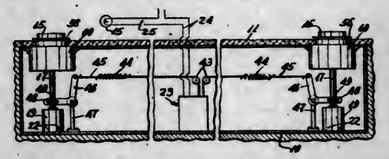
1. In a construction of the class described, a body of sheet metal having a bottom and a front end extending upwardly at right angles thereto, reinforcing means located at the front of said body having a portion rigidly attached to the front end of the body interiorly thereof with a horizontal portion extending to the rear, said reinforcing means also comprising an additional horizontally located means underneath the body, said horizontal portion and means having alined openings therein, posts rotatably mounted in said openings and extending downwardly underneath said body, wheels mounted at the lower ends of the posts, and means for simultaneously oscillating the posts, said last mentioned means being underneath the bottom of the body.

2,350,063

DRIVEWAY SWITCH

Benjamin M. Overby, Brunswick, Wilson Swilley, Ray City, and Sam M. Overby, Brunswick, Ga.

Application September 14, 1943, Serial No. 502,240
8 Claims. (Cl. 200—85)



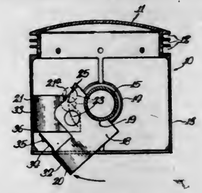
1. A driveway switch, comprising a casing adapted to be mounted beneath a driveway and to the front of a porch of a house, a pair of depressible piston-like buttons projecting from said casing and spaced longitudinally of said driveway and more than a car length of each other so that a car may stop between said buttons, a stem for each button, resilient means for urging said stems upwards when the buttons are depressed, a switch for controlling a light for said porch and mounted within said casing and having a rotative contact engaging an insulation member having a spaced complementary stationary contact, means for advancing said rotative contact in steps to engage one of said stationary contacts each fourth step, and linkage means connecting said buttons with said means for advancing said rotative contact one step each time one or the other of said buttons are depressed.

2,350,064

PISTON EXPANDER

Roy W. Paton, Hagerstown, Ind., assignor to The Perfect Circle Company, Hagerstown, Ind., a corporation of Indiana

Application November 2, 1942, Serial No. 464,202
5 Claims. (Cl. 309—12)



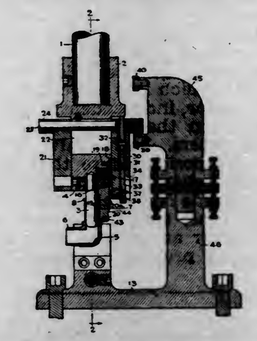
1. A piston skirt expander in the form of a channel-shaped shell of resilient metal comprising two relatively movable piston skirt-engaging sections and base portions supporting said skirt-engaging sections and adapted to engage projection means within a piston, each section having a skirt engaging part, one part being superimposed and in alignment with the other part when in piston expanding position, and one of said skirt-engaging sections being rigidly connected to said base portions and the other of said skirt-engaging sections being pivotally and eccentrically mounted with respect to said base portions.

2,350,065

METALWORKING MACHINE

Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio

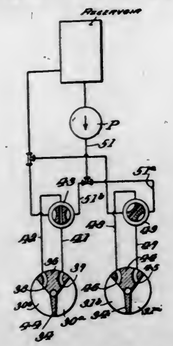
Application March 31, 1941, Serial No. 386,218
8 Claims. (Cl. 82—19)



1. A metal working machine comprising a rotating and reciprocating spindle, a work clamp for fixedly supporting a work piece in axial alignment with the spindle, a tool supporting head fixed to said spindle, a cutting tool eccentrically mounted on said head so as to be moved radially thereof, spring means for nor-

mally moving said cutting tool outward, means for moving the cutting tool inward during the downward movement of the spindle for positioning the same so as to shape the outer face of the work piece to provide a portion at the upper end thereof of one diameter and a portion below said end of a uniform smaller diameter, and means operated by the downward movement of the spindle for releasing the means which moves the cutting tool inward for permitting the spring to move the tool outward from contact with the work during the upward movement of the spindle.

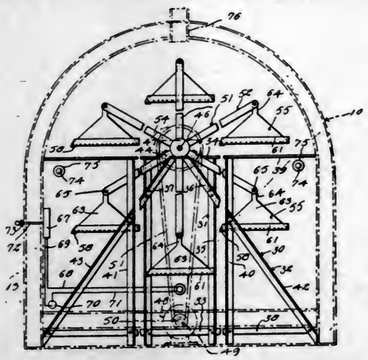
2,350,066
HYDRAULIC MOTOR
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1941. Serial No. 386,219
1 Claim. (Cl. 60—97)



A fluid motor comprising a cylinder, a transverse partition for dividing said cylinder into separate chambers, an oscillatable shaft disposed centrally of the cylinder and extending through the partition and both of said chambers, a vane in each chamber extending longitudinally thereof, each vane being oscillatable and rigid with the shaft and extending from one end of the chamber to the other in which it is located and also contacting at its free edge with the cylinder wall, an abutment in each chamber extending longitudinally thereof and fixed to the cylinder wall, said abutment being in contact with the shaft, each of said abutments having ports leading through opposite sides thereof to the chamber with which it is associated, a fluid supply for the motor, independently operated valves disposed between the fluid supply and the respective chambers, each valve having ports adapted to be positioned so that fluid may be directed to the chamber with which it is associated at either side of the abutment and exhausted from the other side, and a port for connecting the chamber at opposite sides of the abutment so as to provide a neutral closed fluid chamber.

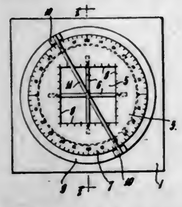
2,350,067
ROTARY OVEN
William A. Roberts and William Spiegel, Butte, Mont.
Application September 8, 1942, Serial No. 457,684
1 Claim. (Cl. 107—59)

A rotary oven comprising a heat insulated housing formed of opposite side, front and rear walls, and a substantially semi-circular top wall, said walls including inner and outer jackets and heat insulating means between said jackets, a carrier support comprising a pair of upstanding frame members embedded in the insulation of said side walls, a rotary shaft carried by the upper portions of said members and extending through said oven, and a rotary carrier means



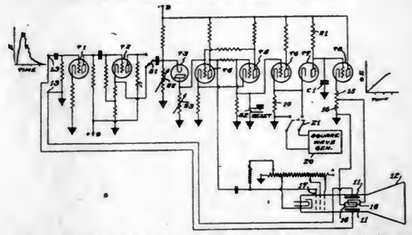
fixed to said shaft, each frame member comprising upper and lower horizontal angle members, a pair of vertical angle members secured between said horizontal angle members and inwardly from the ends of the latter, and upwardly convergent bracing members extending upwardly from said lower horizontal angle member.

2,350,068
FOCUS DRAWING SCALE
Henry Scheller, New York, N. Y.
Application August 16, 1943, Serial No. 498,752
2 Claims. (Cl. 35—26)



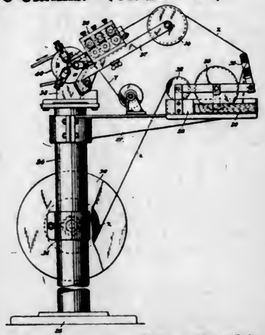
1. A focus drawing scale comprising a base plate having a square aperture in its center, a circular plate secured to said base plate and having an aperture in its center which registers with the aperture in said base plate; a disk the diameter of which is larger than that of said circular plate, coaxially secured to said circular plate so as to form an annular groove with said base plate, and having an aperture registering with the aperture in said circular plate; center strips connecting the center of each two opposite sides of said square apertures to each other and crossing each other in the center point of said disk; a ring engaging the annular groove formed by said base plate, said circular plate and said disk; and a strip secured to the face of said ring and adapted to be moved angularly over said disk when said ring is rotated relative to said disk; said strip being secured to said ring at diametrically opposite points so that its half-way point always coincides with the center point of said disk, and said disk being graduated at its outer circular edge and at the edges of its square aperture.

2,350,069
OSCILLOGRAPH SWEEP CIRCUIT
Harold J. Schrader, Haddonfield, and Ranald D. Scheldorf, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application February 20, 1942, Serial No. 431,626
14 Claims. (Cl. 171—95)



1. In a cathode ray oscillograph circuit for observing transient voltages, means for producing in said circuit a single timing voltage pulse in response to an initial portion of said transient voltages, a time constant circuit, means for deriving from said time constant circuit a timing voltage pulse for said transient, and manually operable means for reconditioning said circuit after each application of said transient voltages.

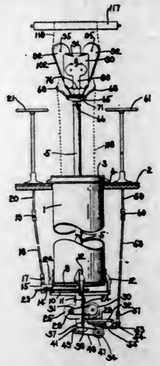
2,350,070
MACHINE FOR MAKING FLEXIBLE TUBES
Herman Shellmer, Newark, and Edward J. Rennie, Denville, N. J., assignors to Breeze Corporations, Inc., Newark, N. J., a corporation of New Jersey
Application February 11, 1942, Serial No. 430,382
8 Claims. (Cl. 113—35)



1. In a machine for making flexible metallic tubes from a strip, a fixed die head, a plurality of jaws radially slidable therein, means to adjust said jaws, means to clamp the jaws when adjusted relative to the axis of said head, a fork having a spindle slidable and rotatable in each jaw, means to adjust the spindle longitudinally, means to clamp said spindle in its adjusted rotative position, an arbor removably carried by the branches of said fork, a mandrel, and a form roll die freely rotatable on each arbor to coil the strip on said mandrel.

2,350,071
CLOTH SPREADING DEVICE
Wendell H. Shields, Grand Rapids, Mich.
Application March 11, 1942, Serial No. 434,260
24 Claims. (Cl. 26—55)

1. In a tubular cloth spreading and feeding device, the combination of an elongated tubular can, a support from which said can is suspended, outer and inner concentric tubes located within said can longitudinally thereof and extending from below the bottom to above the top thereof, the inner tube terminating above said outer tube, a bottom for said can rotatably mounted thereon and secured to said outer tube, a plurality of arms located atop said outer tube and extending radially outwardly therefrom, said tube of cloth



adapted to pass upwardly within said can and around said arms, a pair of endless belts located atop said inner tube in a vertical plane at diametrically opposed points, means for moving the outer run of each belt upwardly to thereby spread the tube of cloth and feed it away from the machine, and means for rotating said bottom, outer tube and arms connected therewith whereby the cloth may be maintained in a straight and untwisted form.

2,350,072
TORQUE MEASURING APPARATUS
Edward E. Simmons, Jr., Pasadena, Calif.
Original application February 23, 1940, Serial No. 320,327. Divided and this application January 1, 1942, Serial No. 425,358
5 Claims. (Cl. 265—1)



4. A torsional dynamometer comprising, in combination, a member adapted to have torque transmitted thereto, a rigid arm of fixed length connected to said member substantially tangentially thereof, an end of said arm being anchored to resist torsional movement of said member, and strain responsive means secured to said arm so as to be responsive to the strain induced therein by the torsional force.

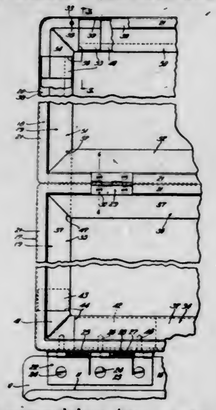
2,350,073
STRAIN GAUGE AND METHOD FOR MAKING SAME
Edward E. Simmons, Jr., Pasadena, Calif.
Application May 8, 1942, Serial No. 442,159
5 Claims. (Cl. 201—63)



1. A strain gauge comprising, in combination, a continuous solid filament of material whose

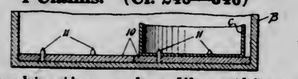
electrical resistance is adapted to vary with changes of strain therein, and a thermal softening material bonded to said filament throughout its effective length so as to transmit strains to the filament from a test member to which the filament is adapted to be thermally bonded throughout its said effective length.

2,350,074
COVER FOR COOKING RANGES
Louis J. Smallen, Los Angeles, Calif.
Application December 21, 1940, Serial No. 371,091
8 Claims. (Cl. 126—214)



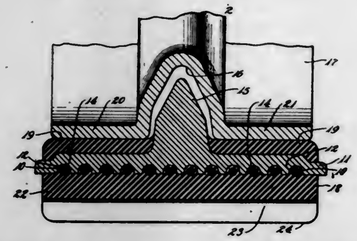
1. A cover comprising two cover sections arranged in edge to edge relation and having edge flanges, separately formed mold members arranged at the under sides of the sections to engage with said flanges and extending along the lengths thereof, blocks engaged in the mold members, a hinge for connecting the sections for relative swinging movement and having cheeks at the under sides of the sections, and screws passed through openings in the hinge cheeks, edge flanges and mold members and threaded into the blocks to attach the hinge to the sections and to secure the mold members to their respective sections.

2,350,075
HOLDING DEVICE FOR FOOD CONTAINERS IN REFRIGERATING DISPENSING CABINETS
Charles L. Smith, Glendale, and Thomas J. Ball, Pasadena, Calif.
Application August 21, 1943, Serial No. 499,738
4 Claims. (Cl. 248—346)



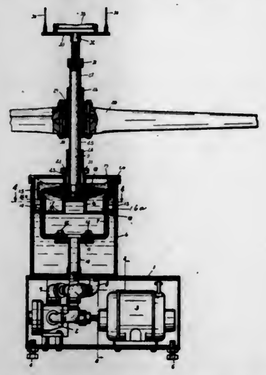
1. In combination, a box-like cabinet having bottom and side walls and open at its top, a container mounted in said cabinet so that the contents thereof may be dispensed therefrom thru the open top of the cabinet, a plate-like support mounted on the bottom wall of the cabinet as a seat for the lower end of the container, and pin-like projections extending upwardly from said support and penetrating a wall of the container to hold the latter against turning on lateral movement relative to said support while the contents of the container is being removed, said container being removable from said pin-like projections and the cabinet by forcibly lifting the container upwardly.

2,350,076
TRACK FOR VEHICLES
Kimball D. Smith and Robert Mayne, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 30, 1942, Serial No. 428,884
6 Claims. (Cl. 305—10)



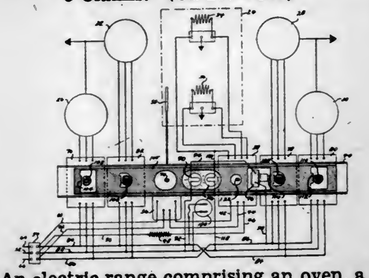
4. A track for a self-laying track type vehicle, said track comprising a band of longitudinally extending flexible tension elements spaced laterally from each other, a body of resilient rubber-like material surrounding said tension elements, and cross-bars of stiff material at the wheel side only of said band and resiliently secured to said elements through said rubber-like material.

2,350,077
BALANCE TESTING MECHANISM
Roy D. Smith, Bettendorf, Iowa, assignor to Bee-Line Company, Scott County, Iowa, a copartnership
Application May 5, 1942, Serial No. 441,883
11 Claims. (Cl. 73—53)



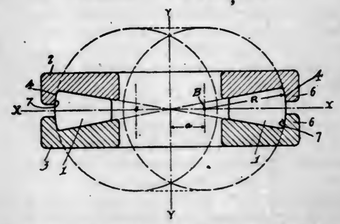
1. In a balance testing machine, a liquid receptacle having a second receptacle therein, a liquid inlet extending through the lower part of the first receptacle and into the interior of the second receptacle, the upper portion of the lateral wall of the second receptacle being formed as a valve seat, a closure member shaped to fit said seat closely, a vertically extending shaft carried thereby, the surface of the valve seat and cooperating surface of the closure member being formed as segments of spherical surfaces, whereby to permit universal tilting of the closure member and the shaft carried thereby with relation to the seat, the direction of tilt of the shaft indicating the direction of unbalance of the member being tested, means for securing on said shaft a member the balance of which is to be tested, an outlet from the first receptacle, liquid pumping means connected to said inlet and outlet to carry liquid under pressure from the first receptacle to the second receptacle and deliver it beneath said closure member, and means for indicating the amount of tilt and thereby the amount of unbalance.

2,350,078
DOMESTIC APPLIANCE
William Smith, Jr., Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 18, 1939, Serial No. 295,428
5 Claims. (Cl. 177—311)



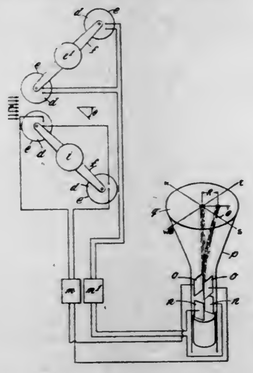
3. An electric range comprising an oven, a surface heating unit, an oven heating unit, a manually operable surface heating unit switch means, manually operable oven heating unit switch means, pilot light means energized by the closing of any one of said switch means, said pilot light means being provided with a lost motion connection with each one of said switch means constructed and arranged so that when any one of said switch means is moved from its circuit open position to a circuit closing position said pilot light means is energized whereupon any one of and all of the remainder of said switch means may be operated from circuit open position to circuit closing position without affecting said pilot light means, and said pilot light means being deenergized by the last one of the switch means that is returned to circuit open position, thermostatically operable oven heating unit switch means for thermostatically controlling the oven heating unit while said manually operable oven heating unit switch means is closed, and a signalling device energized by the closing and deenergized by the opening of said thermostatic switch means.

2,350,079
ROLLER BEARING
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 6, 1939, Serial No. 277,612
4 Claims. (Cl. 308—231)



1. In a roller bearing, the combination of a roller having an end surface, a race for said roller, a guide flange associated with said race and adapted to receive thrust imparted by said end surface of the roller, the operative surface of said guide flange constituting a portion of a surface of revolution generated by revolving a certain curve about the rotational axis of the bearing, the end surface of the roller constituting a portion of another surface of revolution generated by revolving the same curve about the axis of the roller, the said surfaces of revolution theoretically having in common only a single curve of constant radius for any given position of the roller relative to the race, and the adjacent portions of said surfaces gradually diverging outwardly from said common curve substantially for the purpose described.

2,350,080
COMPRESSIONAL WAVE INDICATOR
Donald Orr Sproule, London, England, assignor of one-third to Arthur Joseph Hughes, Essex, and one-third to Henry Hughes & Son Limited, London, England, a British limited-liability company
Application November 26, 1938, Serial No. 242,642
In Great Britain November 26, 1937
6 Claims. (Cl. 177—352)

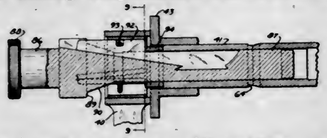


5. In a compressional wave indicator comprising a compound oscillograph having two pairs of deflecting electrodes, the combination of two groups of electrical current generators, each generator including movable means for generating a current, compressional wave responsive means adapted to respond to the two components of a vector quantity of wave motion, pivotally movable mechanism connecting said compressional wave responsive means with said movable means of said generators to cause said generators to convert said components into electrical pulses, and means connecting each of said generator groups in series with one pair of said electrodes, respectively, to effect vectorial summation of the two components as a visible indication of the direction and magnitude of the wave motion.

2,350,081
BORING MACHINE
Joseph Sunnen, Clayton, Mo.
Original application February 3, 1940, Serial No. 317,074. Divided and this application October 16, 1941, Serial No. 415,154
4 Claims. (Cl. 77—55)

1. Centering mechanism for boring machines comprising a body member having a substan-

tially cylindrical surface adapted to be slidably fitted to a corresponding cylindrical surface carried by the spindle of the boring machine, said body member having three or more longitudinal grooves, said grooves having their bottoms formed at an angle to the axis of said body member, slide members fitting in said grooves and adapted to slidably follow the bottoms thereof during longitudinal movement of said



slidable members along said grooves, a sleeve member at the inner ends of said slidable members, said sleeve member being adapted to contact the cylindrical surface of said body member and to form a contact between the end of the spindle and the ends of said slidable members, the outer edges of said slidable members lying in a surface of rotation, and a spring device for holding said slidable members against the bottom of said grooves.

2,350,082

COMPOSITION OF MATTER AND PREPARATION AND PROCESS OF PRODUCING THE SAME

Ilona Taussky, New York, N. Y.

No Drawing. Application April 15, 1942, Serial No. 439,123
16 Claims. (Cl. 99—92)

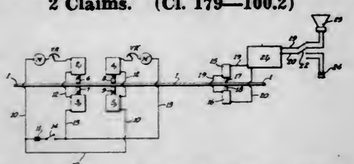
1. A fat containing food composition having incorporated therein a proportion of at least one substance selected from the group consisting of unhardened jojoba nut alcohol, elaidinated jojoba nut alcohol, and hydrogenated jojoba nut alcohol.

2,350,083

MEANS AND METHOD OF MAGNETIC RECORDING

Joseph B. Walker, Los Angeles, Calif.

Application December 2, 1941, Serial No. 421,276
2 Claims. (Cl. 179—100.2)



1. In a device of the character described, a medium upon which sounds have been magnetically recorded, two pairs of magnets, pole pieces of each of which pairs are of opposite polarity and disposed in spaced relation axially opposite each other in contact with opposite sides of said medium, each of said pole pieces being of the same polarity as the pole piece of the other pair of magnets disposed at the opposite side of said recording medium, means to vary the magnetic force as between said respective pairs of magnets, and means to move said medium between said pole pieces.

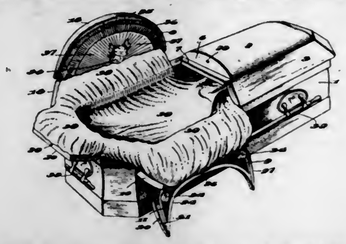
2,350,084

CASKET

Wayne H. Williams, Bristol, Va.

Application March 3, 1943, Serial No. 477,869
2 Claims. (Cl. 27—4)

1. A casket having a closed top for the lower end portion thereof and an upper end portion capable of being opened, said upper end portion being lined and comprising; side walls, a back head cap section, means pivoting said back section to a side wall to support said back head cap section in an upstanding position to display the lining on the interior thereof, and having a forward curved edge, a front section head cap, means pivoting the front section to another side wall of said casket to permit the same to be pivoted to an open position substantially parallel with the casket wall to display the lining on the interior of



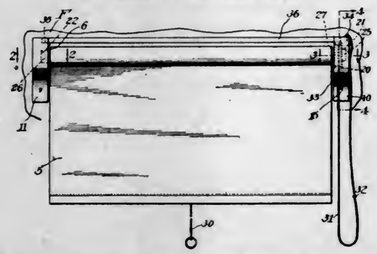
said front section and to obscure a portion of the side wall of the casket, said front section head cap having a rear curved edge, the curved edges of the head sections when in closed position being in abutting relation to each other and preventing transverse movement of said head cap sections with relation to each other, said closed top having supporting means and said head cap sections having side edges adapted to rest upon said supporting means when the head cap sections are in closed position.

2,350,085

ROLLER SHADE

Leonard A. Yashan, Portland, Oreg., assignor to L. D. Reeder, doing business as L. D. Reeder Co., Los Angeles, Calif.

Application February 1, 1943, Serial No. 474,308
1 Claim. (Cl. 160—293)



The combination of a rotatable shade roller, a shade windable about and unwindable from the roller, a cord windable about and unwindable from the roller in a direction opposite that of the shade, a stop member on the cord and means engageable by the stop member after the shade has been unwound from the roller to a predetermined extent whereby to arrest unwinding of the shade.

2,350,086

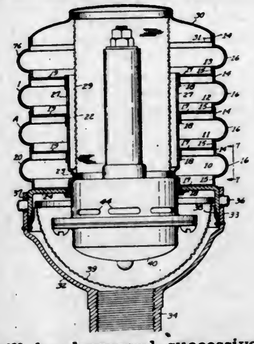
IRRIGATING MEANS

Norris W. Young, Wilsonville, and Dorris S. Young, Newberg, Oreg.

Application May 13, 1941, Serial No. 393,280
7 Claims. (Cl. 299—19)

1. In a sprinkler of the character described, a plurality of similar ring-shaped sections, said

sections arranged one above the other about a central chamber, means for delivering water under pressure into the bottom of said chamber, said chamber discharging directly into an upper ring section, ports connecting adjacent ring sections whereby water will pass downwardly through said sections successively, said ports and sections so arranged that the pressures in said



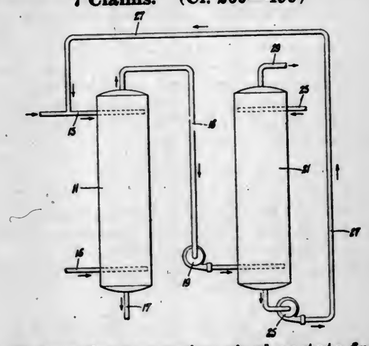
sections will be decreased successively, each of said sections having a plurality of discharge outlets, said outlets being of various size depending upon the pressure to be maintained in the particular ring section and upon the particular area to be serviced by the stream from the outlet, and the whole so arranged that the streams from said outlets will not interfere with each other but will each cover a predetermined ground surface area.

2,350,087

RECOVERY OF VINYL ACETATE FROM SOLVENT MIXTURES

Donald B. Benedict, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application September 21, 1943, Serial No. 503,200
7 Claims. (Cl. 260—499)



1. Process for recovering vinyl acetate from an aqueous mixture containing the same together with a water-soluble aliphatic ketone, which comprises extracting said aqueous mixture with an aliphatic ether having from eight to ten carbon atoms in the molecule and boiling between around 120° C. and around 200° C. at atmospheric pressure, thereby forming an ether extract fraction and a raffinate fraction, separating the two fractions, extracting said extract fraction with water to form a second ether extract containing said vinyl acetate and approximately free from said water-soluble ketone, and isolating the vinyl acetate from said second extract.

2,350,088

METHOD OF PREPARING LOW-LOSS INSULATING MATERIAL

Ernest L. Dinning, Jr., Baltimore County, Md.

No Drawing. Application May 29, 1942, Serial No. 445,100
17 Claims. (Cl. 25—157)

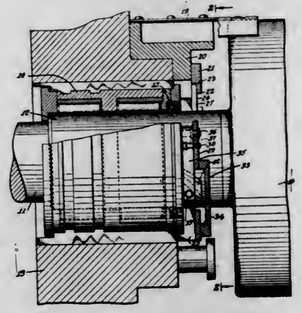
1. The method of producing low loss electrical insulation which comprises firing a body of green steatitic material containing more than two percent by weight of iron at a temperature in excess of 1500° F. in a carbon containing crucible and substantially excluding air and hydrogen from said body during said firing and subsequent cooling of said body.

2,350,089

BEARING SHIELD

Alfred Behringer, Wanaque, N. J., assignor to Alco-Gravure Division of Publication Corporation, New York, N. Y., a corporation of New York

Application May 22, 1943, Serial No. 488,014
8 Claims. (Cl. 101—157)



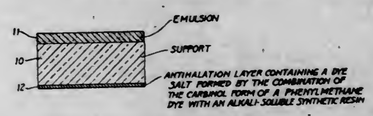
1. A bearing seal for printing cylinders comprising a printing cylinder having a shaft, a bearing for the shaft, a scraper blade, means to mount the blade at an angle to the axis of the shaft and at an angle greater than 90° with respect to a plane transverse to the axis of the shaft on the side toward the cylinder, and means to urge the scraper blade against the cylinder shaft.

2,350,090

PHOTOGRAPHIC LAYERS CONTAINING DYESTUFFS

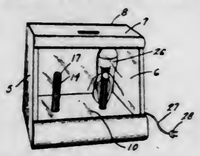
Bernard Beilenson, Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 15, 1941, Serial No. 393,659
In Great Britain May 17, 1940
5 Claims. (Cl. 95—8)



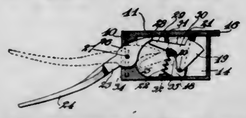
1. A sensitive photographic element comprising a support having thereon a light-sensitve emulsion layer and an unsensitive anti-halation layer containing as the light-absorbing material a dye salt formed by the combination of the carbinol form of a phenylmethane dye with an alkali-soluble synthetic resin.

2,350,091
SANITIZING DEVICE
Raymond W. Bergman, Lockport, Ill., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York
Application May 21, 1942, Serial No. 443,896
5 Claims. (Cl. 21—54)



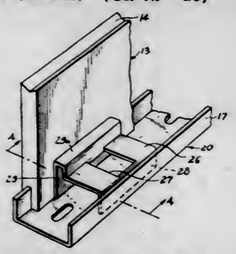
1. In a device of the character described for sanitizing an article of apparel, a cabinet, an article support in said cabinet, and a gaseous discharge lamp extending inside said support, said article support having large openings therein and functioning both as a support for the article undergoing sanitization and as a guard for said lamp.

2,350,092
DOOR LOCK
Charles S. Bock, Chicago, Ill., assignor to Andrew Hoffman, Chicago, Ill.
Application November 22, 1941, Serial No. 420,105
5 Claims. (Cl. 70—92)



1. A lock for emergency doors comprising a casing, a latch bolt therein and retractable to permit the door to be opened outwardly, the action of the bolt being on a vertical pivot, a push plate opposite the inner side of the door, a substantially-horizontal lever extending from the push plate into the casing, and means between the lever and the latch bolt to swing the same in the retracting direction when the push plate is pressed toward the door, said means comprising a vertical pivot for the lever in the casing, a pawl extended from the lever beyond the pivot, a back flange of the latch bolt in front of the pawl, the pressure of the latter on the back flange procuring the retractive swing of the latch bolt, and a spring directed to the front of the back flange to resist said retractive swing.

2,350,093
WALL STRUCTURE
Henry Braloff, Rockville Centre, N. Y.
Application September 26, 1941, Serial No. 412,511
7 Claims. (Cl. 72—46)



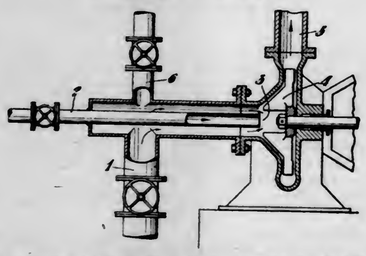
1. A wall construction, including a channel element adapted to be fixed to the floor with its flanges upstanding, a base forming member for a wall having a slot intermediate its width extending from end to end of the lower edge thereof, said member being located upon said channel element with one of the flanges thereof entered in the slot of said member, the flange being concealed by the portion of the member external of said channel element, and means mounted to extend transversely between the opposite flanges of said channel element having depending vertical side walls to abut respectively upon said member at its inner wall surface, and the free flange of the channel element to cooperate with said slot-engaging flange to maintain said member rigid with said element.

2,350,094
VENTILATING BLACK-OUT WINDOW SHADE
Richard R. Butts, Miamisburg, Ohio, assignor of one-half to T. B. Zumstein, Fort Thomas, Ky., and one-half to George F. Miller, Cincinnati, Ohio
Application December 24, 1941, Serial No. 424,350
8 Claims. (Cl. 160—114)



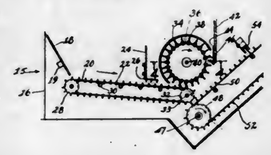
3. A window shade of the class described comprising a pair of accordion plaited webs having panels connected at the plait folds by salient and reentrant hinge folds and pull cords passing through each panel adjacent the reentrant hinge fold thereof whereby the web plaits are retained in partially nested relation in both extended and folded condition of the webs.

2,350,095
WASTE PICKLE LIQUOR DISPOSAL
Earl C. Carlson, Pittsburgh, and Douglas F. Sharp, New Kensington, Pa.
Application January 22, 1942, Serial No. 427,841
3 Claims. (Cl. 210—2)



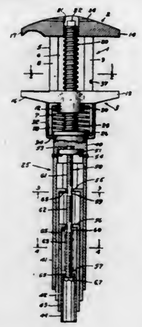
1. A method of neutralizing waste pickle liquor with a basic solution to render the liquor fit for disposal, said method being characterized by feeding separated flows of the liquor and the basic solution into the central intake of a centrifugal pump and there bringing them together while the pump is working so they are violently intermixed immediately upon their coming together, the mixture reacting without lumping or clotting and being forced by the pump through its discharge to create a smooth flow of a substantially neutral product fit for disposal.

2,350,096
FORAGE DRYING METHOD
Forrest S. Chilton, Pompton Plains, N. J.
Application March 14, 1941, Serial No. 383,273
10 Claims. (Cl. 99—8)



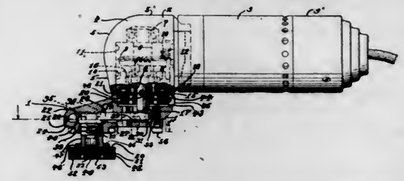
1. A method of forage drying in kiln apparatus which includes the step of combing the forage into a matlet and the step of disintegrating the bunches and lacerating the coarse stems in the matlet followed by the steps of uniforming its depth, compacting it, forming a supply for treatment in the kiln composed of successive accumulations of equal multiples thereof and subjecting the supply so formed to drying medium consisting of recirculated used gases raised to the desired temperature by an infusion of hot combustion gases.

2,350,097
UNIVERSAL TOOL
Quinten E. Conner, San Francisco, Calif.
Application February 13, 1943, Serial No. 475,838
2 Claims. (Cl. 81—185)



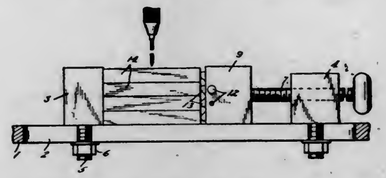
2. A tool comprising an adjustable wrench having a handle consisting of a plurality of sockets of diminishing diameters slidably arranged one within another; a screw arranged within said handle adapted to affect the relative movement between said sockets by rotation thereof; said sockets having threaded bottoms adapted to ride on said screw; said screw having portions thereof of reduced diameter so as to stop the movement of said sockets along said screw; and means for retaining said sockets when their movement is stopped, so as to expose any one of said sockets for use as a wrench.

2,350,098
OSCILLATING SANDER
Alonzo G. Decker, Baltimore, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Application December 31, 1941, Serial No. 425,181
11 Claims. (Cl. 51—170)



1. A hand supported and directed sanding machine having a casing comprising a barrel and a ball like gear casing with gear means therein, the gear casing being adapted to fit in the palm of the hand and serving as a hand grip whereby the tool is supported in and directed by one hand of the operator, a sanding head having a frame and a rotary driving member, the latter being transverse to the axis of said barrel and driven by gearing in said gear casing, an arm guided for reciprocation in said frame and extending outward radially beyond said gear casing and means connecting said arm to said rotary member to impart a reciprocating motion to the arm, and means for supporting a sanding pad member on said arm at a point spaced outward radially beyond and also below said gear casing, said machine having a finger end engaging surface below the palm engaging portion and immediately above said arm.

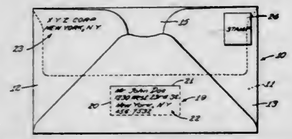
2,350,099
PLATE HOLDER
Hartley Peter Dermond, Hickory Township, Mercer County, Pa.
Application November 23, 1942, Serial No. 466,650
3 Claims. (Cl. 77—63)



2. In combination with the bed of a drill press or like machine having a plane upper face and provided with an elongated slot, a pair of blocks disposed on said bed and having depending threaded shanks passing through and slidable in said slot to provide adjustment of the blocks toward or away from each other, nuts on said shanks to secure the blocks in adjusted position, one of said blocks constituting a fixed jaw and having a plane inner face perpendicular to the upper face of the bed, a movable jaw mounted on the bed and interposed between said blocks, said movable jaw having a plane inner face perpendicular to the upper face of the bed and provided at said inner face with three work-engaging elements, one of said elements being disposed in a horizontal plane between the other two elements, and said other two elements being disposed in the same vertical plane to one side of the one element so that the two elements will engage the

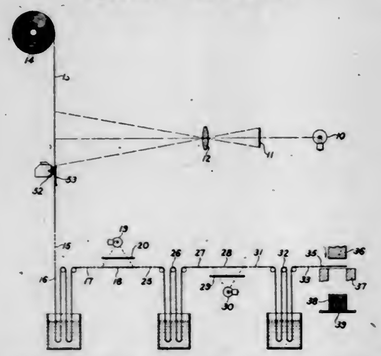
edges of spaced ones of three plates and the one element will engage the edge of the remaining plate of the three plates when the latter are stacked on the bed between the jaw block and the jaw and an adjusting screw threaded through the other block and engaging the jaw for forcing the latter toward the jaw block and clamping the plates on the bed.

2,350,100
MAILING DEVICE
Abraham Deutschmeister and Herman Deutschmeister, New York, N. Y.
Application October 3, 1942, Serial No. 460,644
4 Claims. (Cl. 229—73)



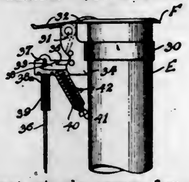
1. A two-way mailing device comprising a carrier portion including front and rear walls, said front wall being provided with a score line and lines of perforations defining a flap adapted to bear a mailing address, said flap being separable from said front wall along said perforations, and being foldable along said score line back against the inner surface of said front wall to present an opening, in said front wall, revealing a return address borne by the inner surface of said rear wall.

2,350,101
COLOR PHOTOGRAPHY
Ralph M. Evans and Benjamin E. Lubosliez, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 29, 1941, Serial No. 424,794
4 Claims. (Cl. 95—1.1)



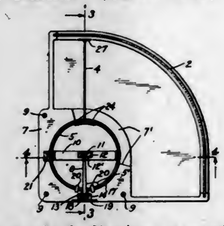
1. In a process of printing from a multicolored record, which process includes exposing a color-sensitive layer on a support and immersing the layer in solutions, flashing the layer with red light through the support and immersing it in subsequent solutions, the method of labeling prints which comprises marking on the back of each exposed area at effectively the same time as said exposing with a quick-drying ink which, when dry, is not removed by any of the said solutions, is compatible with said sensitive layer, and at least prior to said immersing in subsequent solutions is completely transparent to red light.

2,350,102
EXHAUST STACK CONTROL
Philip R. Fairbanks, Ogden, Utah
Application February 21, 1941, Serial No. 380,062
1 Claim. (Cl. 137—69)



In an exhaust stack cover for internal combustion engines which are provided with a vertical exhaust, the combination of a vertical exhaust stack; a cover for the top end of said stack to keep out the rain when the exhaust gases are not passing therethrough; a lever extending from one side of said cover substantially parallel therewith; a pivot pin through a hole in said lever; a bracket in which said pivot pin is mounted adjacent the top end of said exhaust stack; spring means carried on said pin to normally hold the cover closing the exhaust stack opening; an extension on said bracket; a horizontally pivoted dog mounted on said extension, the latch of said dog being biased to engage the end of the lever to hold the cover open after having been forced open by the exhaust gases; and a control rod mounted adjacent the dog to draw down upon the latch and release the lever for closing the stack when there are no exhaust gases passing therethrough.
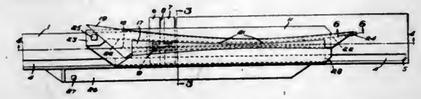
2,350,103
FIRING ANGLE INDICATOR
Herman J. Fanger, Piedmont, Calif., assignor of thirty per cent to Martin C. Mogensen, Martinez, thirty per cent to Herbert W. Erskine, Piedmont, thirty per cent to Cleve F. Shaffer, San Francisco, and five per cent to Henry Gruenhagen, Oakland, Calif.
Application April 6, 1942, Serial No. 437,732
7 Claims. (Cl. 33—215)



1. A firing angle indicator comprising a ball, means pivotally mounting the ball on a single vertically disposed supporting point at the center of the ball, a pointer carried by and projecting from the ball, a graduated dial adjacent which the pointer swings when oscillated with said ball on said supporting point, means on said ball counterweighting said pointer, and fixed means free of but close to the outer surface of the ball arranged to contact the ball upon displacement of the center of the ball in any direction.

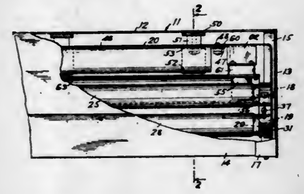
2,350,104
NECKTIE DEVICE
Ali J. Fiumedoro, Boston, Mass., assignor of one-third to Joseph D. Ramsey, Boston, Mass.
Application July 23, 1941, Serial No. 403,626
3 Claims. (Cl. 112—2)

1. An article of the character described comprising a support, a base element mounted on said support, said base element having a channel extending longitudinally along the upper side thereof, a gauge plate having a rib slidably engaged in the channel, said gauge plate having a stitching slot formed centrally therein, and provided with friction elements extending along the sides of the slot, said gauge plate at its upper side presenting an aperture shaped to correspond to the form of



a necktie lining element, holding strip means forming a part of one side of the aperture and being detachably secured to the said gauge plate, said holding strip means having one edge thereof variably spaced apart from the said stitching slot to provide a substantially curved surface corresponding to one of the contours of a necktie, and fastening means for holding covering material located around the holding strip means.

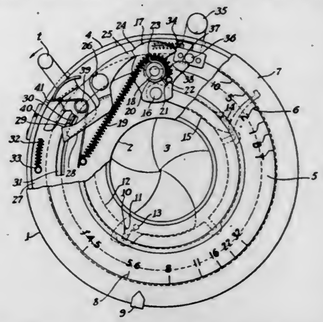
2,350,105
SHOCK-RESISTANT FLUORESCENT LAMP HOLDER
Emanuel Fuchs, Jersey City, N. J.
Application November 14, 1942, Serial No. 465,620
6 Claims. (Cl. 240—78)



1. In a shock-resistant fixture for fluorescent lamps, a housing, a support member within the housing, and in the shape of an inverted U, a lamp socket secured to the support and having a pair of parallel prong-receiving slots therein, a tubular lamp having terminal prongs thereon adapted to enter the slots and having a circumferential groove therein adjacent the inner ends of the prongs, means for removably locking the lamp in the socket compris'ng a member arranged to clasp the socket and having a flange thereon entering the groove of the lamp and a bolt to clamp the member to the socket and to lock the flange in said groove, a lamp ballast in the housing, a plurality of straps passing around the ballast and secured to the housing, a starter switch button secured to the housing, and a spring urging the button toward its operative position and maintaining it in said position.

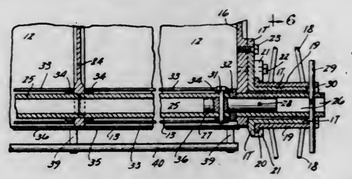
2,350,106
SHUTTER RELEASE MECHANISM
Carl C. Fuerst, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 28, 1943, Serial No. 496,462
7 Claims. (Cl. 95—63)

1. In a photographic shutter including an apertured casing, shutter blades pivotally mounted in the casing, a blade ring for operating the shutter blades, a master member and operative connection between the master member and the blade ring for operating the latter from the former, the combination with said master member, of a setting member movable through a path of movement on the casing and slidably engaging the master member in moving it to a set position, a latch element on the master member, a latch carried by the casing for engaging and holding the latch element of the master member in a set position, the setting member being movable in a setting direction a material distance after the master member is latched in a set position,



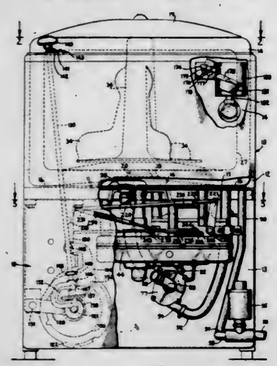
a spring tending to move the setting member in a non-setting direction, a trigger movably mounted and including a trigger latch element, a lug on the setting element positioned to be held by the trigger latch after setting the master member, said latch for the master member lying in the path of movement of the setting member to be operated thereby when moved by its spring upon the release of the setting member by the trigger, whereby the master member may move only after movement of the setting member.

2,350,107
SPREADER FOR FERTILIZER, SEEDS, AND THE LIKE
Ebenhard S. Gandrud, Owatonna, Minn.
Application July 13, 1942, Serial No. 450,648
8 Claims. (Cl. 275—2)



1. In a device of the kind described, a hopper, laterally spaced wheels supporting said hopper, a rotary agitator mounted in said hopper and having a shaft axially aligned with one of said hopper-supporting wheels, a primary drive shaft connected to rotate with and to move axially of the hub of the aligned wheel, said drive shaft and the shaft of said agitator having telescopic engagement, means for locking said drive shaft to said agitator shaft for common rotation, said hopper having a bearing with which the extended end of said agitator shaft is telescopically and rotatively engaged but from which it may be disengaged by a limited axial movement, said rotor shaft being of such length that it will drop within the hopper when withdrawn from said inner bearing, and displaceable means normally holding said agitator shaft against such release and dropping movement.

2,350,108
WASHING MACHINE AND DRIER
Peter Eduard Geldhof and Luther Ringer, St. Joseph, Mich., assignors to Nineteen Hundred Corporation, St. Joseph, Mich., a corporation of New York
Application December 30, 1939, Serial No. 311,714
6 Claims. (Cl. 68—12)



1. In a control mechanism for an automatic washing and drying machine having a tub, means in said tub for washing clothes, centrifugal means for drying clothes, means for introducing water into said tub, a pump for withdrawing water from said tub, and a motor for actuating said apparatus, said control mechanism comprising rotatable means for directing the operation of said washing means, centrifugal means, introducing means and pump means in predetermined sequence, and a manually shiftable member for mechanically connecting said rotatable means with the motor and initiating said predetermined sequence of operations.

2,350,109
PHOTOGRAPHIC DEVELOPERS CONTAINING ACYLAMINO GROUPS
Wesley T. Hanson, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 11, 1941, Serial No. 410,422
8 Claims. (Cl. 95—88)

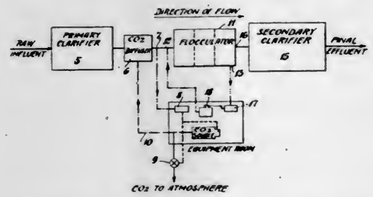
1. A photographic developing solution comprising as the developing agent a lower fatty acid acylamino-4-aminodialkylaniline.

2,350,110
LENS HOOD
Henry J. Hood, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 19, 1941, Serial No. 398,789
1 Claim. (Cl. 88—1)



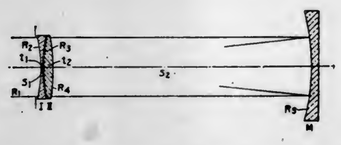
A collapsible lens hood comprising a bellows-like member formed to provide a plurality of concentric cylindrical portions of different diameters, inclined portions of decreasing mean diameter connected to said cylindrical portions, the smallest of said inclined portions terminating in a radially extending portion, said portions being relatively movable to collapse said hood, a confining ring mounted on and of slightly less diameter than the cylindrical portion of largest diameter, and a second confining ring mounted on and of slightly greater diameter than said radial portion and cooperating with said first ring to maintain said portions in self-supporting relation when said hood is collapsed.

2,350,111
CLARIFICATION OF LIQUIDS
John W. Hood, Ridgewood, N. J., assignor to Acco, Incorporated, Bloomfield, N. J., a corporation of New Jersey
Application August 3, 1940, Serial No. 351,214
5 Claims. (Cl. 210—23)



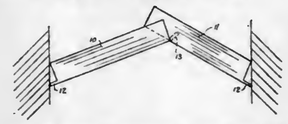
1. A coagulation process comprising diffusing carbon dioxide in thorough contact with a supply of raw aqueous liquid containing coagulable matter and having a pH value not less than the pH value at which calcium carbonate can exist in equilibrium in said liquid, continuing said treatment with sufficient carbon dioxide to lower the pH value of the liquid to a point below said pH value at which calcium carbonate can exist in equilibrium in said liquid, terminating said carbon dioxide treatment and then adding a coagulant acting further to lower the pH value of said liquid so that it is 1.0 or more below said pH value at which calcium carbonate can exist in equilibrium in said liquid and effective to cause coagulation of matter in said liquid to clarify the liquid to desired degree.

2,350,112
LENS SYSTEM
James Leonard Houghton, Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 2, 1942, Serial No. 433,046
In Great Britain March 7, 1941
13 Claims. (Cl. 88—57)



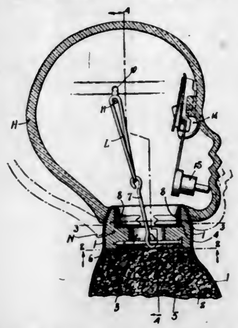
1. A spherical reflecting element and a correcting lens system for correcting the spherical aberration of said element, said lens system consisting of a plurality of lens elements with substantially spherical refracting surfaces only being over-corrected for spherical aberration to compensate for the under-correction of the reflecting element, and also being of infinite focal length.

2,350,113
PORTABLE SUPPORT
Earl H. Hurley, Emporium, Pa.
Application November 10, 1942, Serial No. 465,151
1 Claim. (Cl. 248—354)



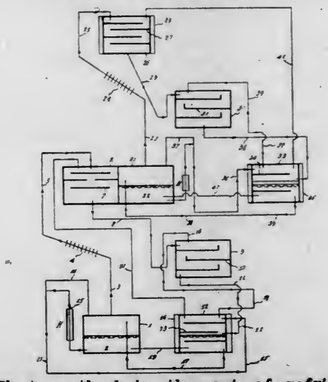
A portable support comprising inner and outer sections said inner section having openings formed therein, a concavo-convex tongue on the inner end of the outer section adapted to engage in an opening of the inner section, pivotally connecting the sections, and projections on the outer section adapted to extend into longitudinal grooves on the inner section securing the sections in their extended positions, and spurs on the outer ends of said sections adapted to be embedded into a supporting surface.

2,350,114
HEAD CONSTRUCTION FOR DOLLS
Abraham M. Katz, Brooklyn, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application January 23, 1942, Serial No. 427,865
4 Claims. (Cl. 46—173)



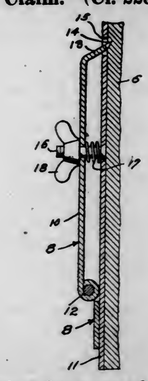
1. A doll body having a skin made of elastic material, said skin having a stuffing, said skin having a neck portion, the top of said stuffing being at the bottom of said neck portion, a rigid neck block located in said neck portion, said neck block being laterally oversized relative to the neck portion of the skin, said neck portion of the skin being laterally stretched and snugly abutting and frictionally gripping the outer wall of said neck block, said neck block being insertable into said neck portion through the top of said neck portion, said neck block having a top recess and also having a bottom recess and also having a vertical bore, a transverse holding member located in said bottom recess and embedded into the material of said neck block, said holding member being thus rigidly fixed to said neck block, a hook member which is partially located in said bore and which extends above the top of said neck member, said hook member having a loop at its bottom end, said holding member being located in said loop, said hook member being slidable and turnable relative to said holding member, the top portion of said skin being bent into the top recess of said neck block, holding means which hold the inwardly bent portion of the skin against the inner wall of said top recess, the longitudinal elements of the outer wall of said neck block being convex at the top of said neck block, a rigid head which is open at its bottom, the wall of said head at the open portion thereof abutting and interfitting the respective part of said skin, said head having a universal movement relative to said skin and to said neck block, elastic means movably connecting said head to said hook member above the top of said neck block.

2,350,115
REFRIGERATING SYSTEM
Abram Katzow, Indianapolis, Ind.
Application May 25, 1940, Serial No. 337,275
7 Claims. (Cl. 62—179)



1. That method in the art of refrigerating through the agency of an absorption system which includes continuously expelling volatile substance from a solution of volatile and relatively non-volatile substances, continuously condensing the expelled volatile substance at relatively high temperature while the volatile substance gives up heat, with this heat expelling refrigerant from a second solution of refrigerant and absorbent, liquefying the refrigerant from the second solution, and evaporating both the volatile substance and the liquid refrigerant at sub-atmospheric temperatures to produce refrigeration.

2,350,116
LEG EXTENSION APPLIANCE FOR LADDERS
Richard T. Kimes, South Charleston, W. Va.
Application July 8, 1943, Serial No. 493,913
1 Claim. (Cl. 228—63)



A leg extension for a wooden ladder, comprising a channel-shaped member adapted to slidably

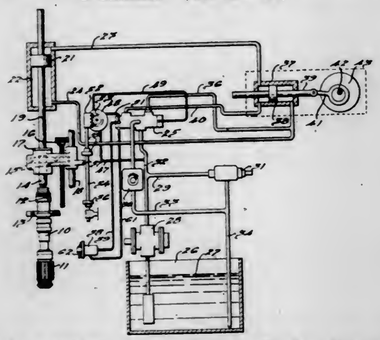
fit on the lower end of a runner of the ladder and having an outer wall provided with a slot, an elongated claw hinged at its lower end to said outer wall on the outside of said member and having an upwardly and inwardly projecting upper end arranged to project inwardly through said slot and formed with teeth adapted to bite into the runner when the claw is forced to swing inwardly toward said member, a bolt fixed at one end to said outer wall and slidably projecting through said claw, a nut threaded on the projecting end of said bolt and operable to force the claw to swing inwardly, and a spring encircling the bolt between the outer wall and said claw to swing the claw outwardly.

2,350,117

PULSATING DEVICE AND METHOD OF HONING

John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan

Application August 29, 1941, Serial No. 408,711
3 Claims. (Cl. 51—34)



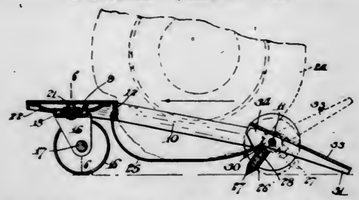
1. In a system for honing a cylinder, the combination including a honing tool, a piston and cylinder which produces the reciprocation of the honing tool within a working stroke, a system for delivering fluid to opposite sides of the cylinder, means for reversing said flow of fluid to said cylinder, and means for pulsating the flow of the fluid.

2,350,118

WHEEL TRUCK

David R. Knapp, Philadelphia, Pa., assignor, by mesne assignments, to Rol-A-Way Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application June 3, 1941, Serial No. 396,395
8 Claims. (Cl. 280—61)



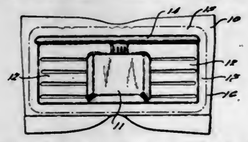
1. An emergency truck for vehicles, comprising a vehicle wheel supporting frame, front and rear wheels for supporting the respective ends of said frame, and rear wheel control members pivotally suspended from said frame on the ground in front of said rear wheels for normally elevating said rear wheels, whereby forward movement of said frame causes said control members to release said rear wheels for engagement with the ground.

2,350,119

METHOD OF FORMING SINKS

Edwin H. Kotcher, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application December 13, 1940, Serial No. 369,936
5 Claims. (Cl. 113—120)



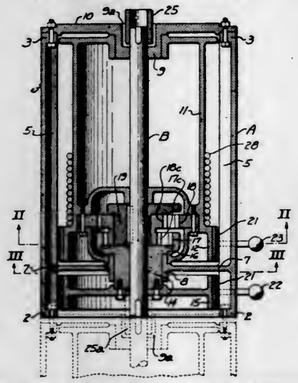
1. The method of forming a sink which comprises the embossing of metal between the splashboard and drainboard portion between the upwardly offset side rim portions, and of ironing the metal of the embossed portion during the bending upwardly of the splashboard portion to form a smooth surface normal to the offset rim portions.

2,350,120

HOIST

Frank P. Lawler, Chicago, Ill., assignor of one-third to Charles H. Grant, San Francisco, Calif., one-third to Frank P. Lawler, Chicago, Ill., and one-third to Paul J. Tyler, Oroville, Calif., jointly

Application May 27, 1942, Serial No. 444,653
4 Claims. (Cl. 254—184)



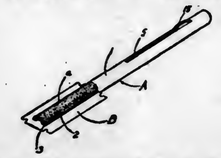
4. In a hoist of the character described an elongated frame having an annular flange at one end, a bearing supported in the frame adjacent one end thereof, a head member secured to the annular flange at the opposite end of the frame, a bearing on said head, a cable drum journalled within the frame on the respective bearings, a drive shaft extending through said drum and journalled in the respective bearings, a reduction gear drive interposed between the drive shaft and the cable drum to drive the drum, an annular flange on the frame at the end opposite the first named annular flange, said second named flange forming a coupling to receive and secure the head member and frame of a second drum, a drive shaft in the second drum, and means for coupling said shaft to the first named drive shaft at a point between the head of the second frame and the frame bearing in the first named frame.

2,350,121

BLADE HOLDER

Perry A. McCaskey, Minerva, Ohio

Application May 1, 1942, Serial No. 441,312
8 Claims. (Cl. 30—339)



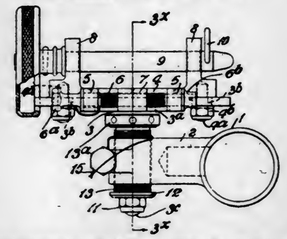
1. A blade holder comprising a cylindrical tubular barrel having substantially diametrically opposed slits opening through one of its ends, a cylindrical plunger of a length at least not substantially less than that of the barrel slidable in the barrel and provided with blade attaching means accessible for the application of a blade thereto when the portion of the plunger incorporating said means is projected beyond the slitted end of the barrel, the remaining portion of the plunger maintaining connection with the barrel, the blade being adapted to be moved into the slits by the retraction of the plunger, and means constantly restraining the plunger from dislodgment from the barrel.

2,350,122

GUN MOUNTING FOR AIRPLANES

James Martin, Higher Denham, near Uxbridge, England

Application March 9, 1942, Serial No. 434,012
In Great Britain March 15, 1941
3 Claims. (Cl. 89—37.5)



1. A gun mounting for a machine gun or small cannon for use in an airplane comprising a T-shaped bracket, a screw threaded sleeve rotatable on the vertical limb of said bracket to adjust the bracket vertically and adapted to be fitted in a part of the gun supporting structure of the aircraft, a gun receiving bracket in the form of a horizontal plate slidable upon the horizontal limb of the T-shaped bracket, a pair of upstanding lugs on said plate adapted to receive between them the appropriate part of the gun and means to connect the gun thereto, a lug on the gun receiving bracket, and a horizontal traversing screw threaded through said lug and supported for rotation by the upper limb of the said T-shaped bracket.

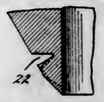
2,350,123

METALLIC GLAND

Jean Mercier, New York, N. Y.

Application December 17, 1941, Serial No. 423,391
4 Claims. (Cl. 309—33)

1. A scraping metal packing ring comprising a rigid annular base member having a close sliding fit with an adjacent cylindrical surface, and an annular lip portion carried thereby and adapted to engage said cylindrical surface, said lip member being relatively short in the axial direction, having a scraping edge at its free end, and being joined to said base portion in a manner providing at least one annular groove therebetween, said lip being bent along the line of said groove to direct said scraping edge toward



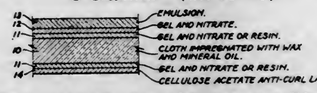
said surface to such an extent that upon application of the scraping edge to the said surface said lip will be flexed to an extent not exceeding the elastic limit of said lip.

2,350,124

PHOTOGRAPHIC TRACING CLOTH

Gale F. Nadeau and Clemens B. Starck, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 30, 1942, Serial No. 452,878
5 Claims. (Cl. 95—8)



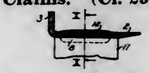
1. The method of making a sensitive tracing cloth of improved transmission and flexibility characteristics which comprises treating a sized cloth with a solution containing approximately 5% of a mixture of a wax and oil transparentizing agent, coating the treated cloth with a solution of gelatin and cellulose ester and thereby depositing a waterproofing layer containing at least 75% cellulose ester, and applying to one side of said waterproofed cloth, a subbing layer and a gelatino-silver halide emulsion layer.

2,350,125

BLADE AND SHROUD STRUCTURE

Hans P. Dahlstrand, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original application May 14, 1941, Serial No. 393,317, now Patent No. 2,345,918, dated April 4, 1944. Divided and this application February 14, 1942, Serial No. 430,855
5 Claims. (Cl. 253—77)



1. A blade structure for turbines and the like comprising a blade having a single surfaced end, a shroud member having its inner fluid confining surface disposed in abutting relation against said end of the blade and including therein an elongated opening conforming with and exposing an intermediate and major portion of said blade, said opening having its opposite side edges depressed a distance approximately equal to the thickness of said shroud member, and weld metal substantially filling the recess formed by said depressed side edges and said exposed major portion of the blade end.

2,350,126

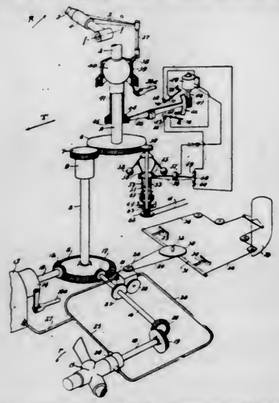
HELICOPTER

Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application December 4, 1941, Serial No. 421,529
15 Claims. (Cl. 244—17)

1. In an aircraft, a variable pitch bladed sustaining rotor adapted to be driven through its

hub, a variable pitch airscrew with its axis offset from the rotor axis and arranged to counteract the rotor driving torque, independent R. P. M.-



responsive pitch-control governors associated respectively with the rotor and airscrew, and pilot operated control means for adjusting the equilibrium setting of at least one of said governors.

2,350,127

METHOD OF FORMING SULPHONIC ACID CHLORIDES OF COUPLERS

Henry Dudley Porter and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 26, 1940, Serial No. 358,494. In Great Britain January 3, 1940

6 Claims. (Cl. 260—346)

1. The method of producing a sulphonic acid chloride of an aromatic compound containing a group selected from the class consisting of —CO—CH_2—CO— and CO—CH_2—CN, which comprises adding said aromatic compound slowly and in small portions to an excess of chlorosulphonic acid at a temperature not substantially above 10° C. and limiting the period of reaction to a time of a few days, to introduce a sulphonyl chloride group into only the aromatic ring portion of said compound.

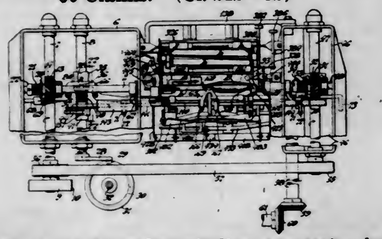
2,350,128

BOBBIN-WINDING MACHINE

Charles D. Reynolds, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts

Application June 17, 1942, Serial No. 447,378

60 Claims. (Cl. 242—32)



21. In a machine for winding successive bobbins on yarn-carriers in which the rotating yarn-carrier and traversing means are displaced relatively longitudinally of the carrier during the winding to wind a bobbin, means for doffing a wound bobbin, means for donning an empty yarn-carrier, and means for starting the winding on each empty yarn-carrier adjacent the end where the winding on the previously-wound bobbin is completed and continuing the winding toward the opposite end of said carrier.

2,350,129

LADDER

Hugh W. Richards, Carrollton, Ga.

Application July 20, 1943, Serial No. 495,484

5 Claims. (Cl. 228—25)



1. A ladder comprising separate sections having side bars and connecting rungs, said sections arranged to be connected end-to-end to form an extension ladder, the adjacent sections of the ladder being of different widths so that the end portions of the wide section overlap the end portions of the narrow section when the extension ladder is assembled, and the overlapped portions of the side bars of each section having bayonet slots adapted to receive and be moved into locking engagement with a rung of the adjacent section to rigidly and securely connect the sections of the ladder together.

2,350,130

FOOTPLATE FOR SKIS, SNOWSHOES, AND THE LIKE

John H. Rinkinen, Atlantic Mine, Mich.

Application March 4, 1943, Serial No. 477,987

5 Claims. (Cl. 280—11.13)



1. A foot plate of the class described comprising a plurality of sheets of rubber, a rigid sheet of material beneath said rubber sheets, attaching means at the edge portions of said sheets to secure the same in superposed relation and an inflatable tube interposed between said sheets of rubber.

2,350,131

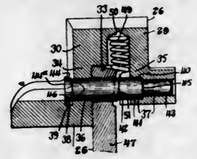
PIVOT MEANS FOR FIREARM ELEMENTS

Thomas R. Robinson, Jr., New Haven, Conn., assignor to The High Standard Manufacturing Company, Hamden, Conn., a corporation of Connecticut

Application August 27, 1943, Serial No. 500,192

3 Claims. (Cl. 287—1)

1. Pivot-means for firearm elements, including in combination: a first firearm-member having two complemental laterally-spaced-apart wall-portions having a gap therebetween for the reception of a second firearm-member, each of the said wall-portions having a pin-receiving passage extending substantially coaxially with respect to the similar passage in the other wall-portion, each of the said pin-receiving passages intersecting at its inner end the gap between the said wall-portions, each of the said wall-portions having one of two stop-abutments adjacent an outward portion of its pin-receiving passage and facing inwardly toward the gap between the said wall-portions and in opposition to the stop-abutment in the complemental wall-portions; a



second firearm-member having a portion extending into the gap between the two complemental wall-portions of the said first firearm-member and having an aperture therethrough registering with the respective passages in the said complemental wall-portions; and a pivot-pin extending in the two said pin-receiving passages and through the said aperture, the said pivot-pin having two integral complemental stop-abutments facing outwardly away from each other and respectively positioned to engage with the respective inwardly-facing stop-abutments respectively formed in the two said complemental wall-portions of the said first firearm-member.

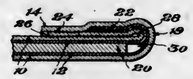
2,350,132

BAG AND METHOD OF MAKING THE SAME

Howard Rohdin, Glen Ridge, N. J.

Application November 18, 1941, Serial No. 419,628

8 Claims. (Cl. 93—35)



1. The method of making bags which comprises freely superimposing on a rectangular sheet a similarly shaped sheet of lesser dimensions so as to leave exposed margins of said first-named sheet; folding both sheets about a common line to bring into face to face contact approximately equal portions of the free surface of said second-named sheet, and the exposed margins of said first-named sheet; then folding, upon the body of the bag, and along parallel lines spaced inwardly from the margins of said second-named sheet, the portions of the folded sheets lying outside said lines; then subjecting, in the area of said folded portions, the entire structure to heat and/or pressure while preventing the interior of that portion of the bag lying between said parallel fold lines from being sealed under the effect thereof, whereby to form sealed seams between the mutually contacting portions of the respective sheets in said area.

3. A bag formed of a sheet of impervious, flexible material heat sealable on both surfaces, said sheet being folded about a line intermediate the length thereof to bring the coextensive portions of a single surface thereof on each side of said line into face to face contact, the margins of said surfaces being heat-sealed in the area of such contact and said heat-sealed margins being folding against the outside of said sheet and heat-sealed thereto, the inner surfaces of the bag walls underlying said folded margins being free of each other and the lines on which said heat-sealed margins are folded including unsecured portions of the contacting inner surfaces of the bag walls adjacent an edge of said heat-sealed margins.

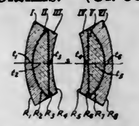
2,350,133

WIDE ANGLE LENS

Willy Schade, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 7, 1942, Serial No. 450,007

11 Claims. (Cl. 88—57)



1. A photographic objective of the type consisting of two positive components meniscus in outward form and concave toward a diaphragm enclosed therebetween and each consisting of three elements cemented together with the more highly curved of the two cemented surfaces concave toward the diaphragm, two of said elements being of like sign and enclosing the third which is of the opposite sign, of which elements the one nearest the diaphragm has the lowest refractive index while the one farthest from the diaphragm has the highest index, characterized by the weaker cemented surface in each component having a radius of curvature whose absolute value is greater than one-half the focal length of the objective and by the element farthest from the diaphragm being made of a glass of which the refractive index is greater than 1.68 while the dispersive index is greater than 35.

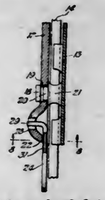
2,350,134

EXTENSIBLE WIPER ARM

Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana

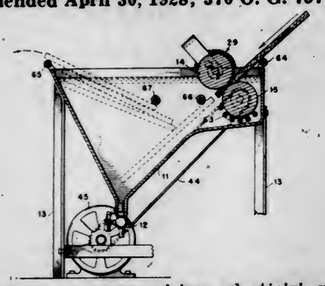
Application June 29, 1942, Serial No. 448,894

14 Claims. (Cl. 287—58)



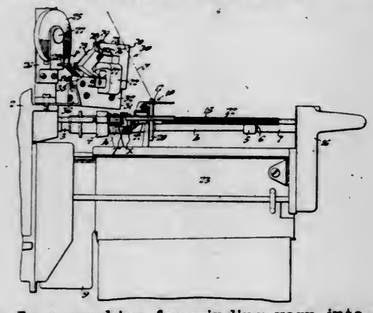
1. In an extensible windshield wiper arm having two sections arranged to be longitudinally movable relative to each other, means for frictionally fastening said sections in any adjusted position including an operating lever therefor positioned on the underside of said arm, said operating lever having two positions each indicative of the condition of said fastening means, said operating lever when in a position in alignment with the longitudinal axis of said arm indicating that said arm sections are secured in position and when in a position transverse of said arm and extending therebeyond to indicate that said arm sections are not secured in position by said fastening means, and spring means for urging said lever to one of said positions.

2,350,135
WOOD IMPREGNATION
Alfred J. Stamm, Madison, Wis., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
Application November 16, 1942, Serial No. 465,732
5 Claims. (Cl. 117—116)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The process comprising plasticizing with heat a water-soaked wood veneer, expressing and removing free water from the coarse capillary structure of the veneer to establish a void volume, thence simultaneously submerging the plasticized, dewatered veneer in an aqueous solution and passing it between compression rollers, thence holding the veneer in the solution to permit it to take up the solution as it recovers from the compression.

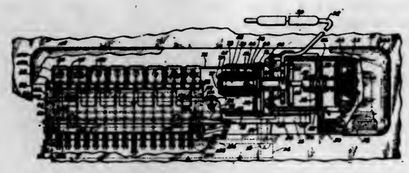
2,350,136
BOBBIN-IDENTIFYING DEVICE FOR WINDING MACHINES
Winthrop Sanford Warren, Newtonville, Mass., and Walter Victor Jacobson, Apponaug, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application September 11, 1941, Serial No. 410,452
20 Claims. (Cl. 242—1)



1. In a machine for winding yarn into packages, in combination with the winding means, means for serving identifying tickets to the packages, and means for operating said serving means automatically at an intermediate stage of the winding.

2,350,137
ADJUSTING MEANS FOR OVEN HEAT CONTROL
Victor Weber, Greensburg, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application December 4, 1941, Serial No. 421,631
17 Claims. (Cl. 236—99)

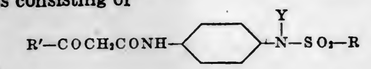
1. An automatic adjusting means for control devices having an element reciprocable toward and away from its seat, comprising adjustable means mounted in the path of said element for limiting movement of said element relative to its seat, means for adjusting said movement limiting means to different operative positions so that said element can move to positions corresponding to different control settings, a plurality of operating members each representing a different



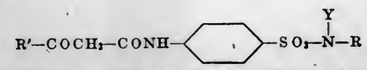
control setting and operable in common on said adjusting means for selecting said operative positions, and means effective upon operation of any one of said operating members for maintaining said movement limiting means in selected operative position coincident with return of said adjusting means and operating member toward initial position.

2,350,138
NONDIFFUSING ACYLACETYL SULPHONAMIDE COUPLER
Arnold Weissberger, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Original application August 22, 1940, Serial No. 353,669. Divided and this application August 6, 1942, Serial No. 453,854. In Great Britain April 24, 1940
10 Claims. (Cl. 95—6)

1. A photographic emulsion for forming colored images comprising a colloidal carrier containing a sensitive silver halide and a coupler compound having a formula selected from the class consisting of



and

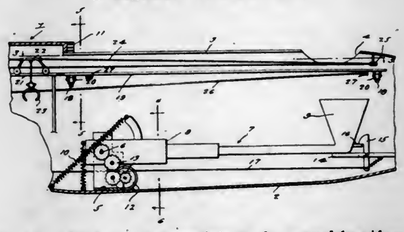


where R is an aryl radical, R′ is selected from the class consisting of alkyl and aryl radicals and Y is selected from the class consisting of alkyl and aryl radicals.

2,350,139
TREATMENT OF TEXTILE MATERIALS
Gustav Widmer, Basel, and Willi Fisch, Binningen, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del.
No Drawing. Original application June 9, 1937, Serial No. 147,384. Divided and this application November 20, 1939, Serial No. 305,396. In Switzerland June 27, 1936
2 Claims. (Cl. 260—72)

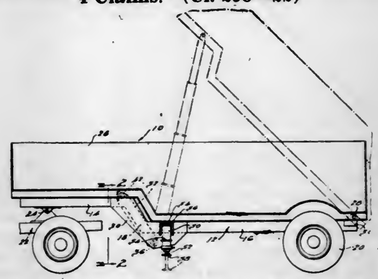
1. A process for treating textile material, which comprises impregnating the textile material simultaneously with a softening agent consisting of trimethylammonium sulphate of monostearyl-para-phenylene-diamine and with a crease-proofing agent selected from the group consisting of (1) a hardenable condensation product of formaldehyde and melamine as essential reactants and (2) formaldehyde and melamine in uncondensed form, and then subjecting the impregnated textile material to a temperature between room temperature and about 100° C. until the said crease-proofing agent is converted into the form of an insolubilized formaldehyde-melamine condensation product, whereby anticrease finish which is fast to washing is imparted to the textile material.

2,350,140
AIRPLANE
John Wilton, Mound Bayou, Miss.
Application April 28, 1943, Serial No. 484,887
2 Claims. (Cl. 89—1.5)



1. An airplane comprising, in combination, a fuselage having a longitudinally elongated opening in its top, a bomb catapult including an arm pivotally mounted for swinging movement in a vertical plane in the fuselage and operable in the opening, means for actuating the catapult, a laterally shiftable track mounted longitudinally in the upper portion of the fuselage, means operable on the track for conveying a bomb to the catapult, and means for shifting said track laterally in the fuselage.

2,350,141
DUMP VEHICLE AND STABILIZER CONSTRUCTION
Louis S. Wood, Grosse Pointe Farms, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application June 10, 1942, Serial No. 446,487
4 Claims. (Cl. 298—22)



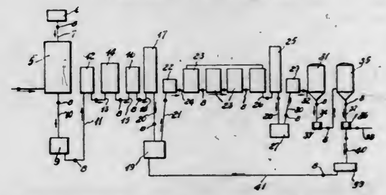
1. In a vehicle dump body construction, a chassis, a dump body, pivot means pivotally mounting said body to said chassis for tilting movement with respect thereto about the rear end thereof, hydraulically actuated tilting means connected to said body and to said chassis forwardly of said pivot means for tilting said body, an hydraulically actuated movable means mounted on said chassis forwardly of said pivot means in the region of connection of said last-named means with the chassis and movable into engagement with the vehicle supporting surface to thereby reinforce the chassis during the tilting of the body, and means providing an hydraulic circuit for supplying fluid under pressure to said hydraulically actuated means.

2,350,142
SECTIONAL ROOF COVERING
Abraham M. Zimmers, Baltimore, Md.
Application October 6, 1941, Serial No. 413,859
2 Claims. (Cl. 108—21)



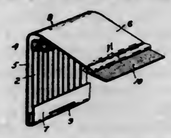
1. In combination with a conventional metal roofing in sections having upstanding seamed joints formed for joining the sections of the same together, of a repairing unit comprising in combination, a set of cap members of material bent in inverted V-form arranged to cover over joints of said roofing and fit closely thereto, said runners having holes adjacent their apexed portion, a flexible roofing portion placed between said joints on either side of a section of the roofing having upstanding flanges arranged alongside of said joint and clamped in place thereon by the members placed thereon over the joints, and clips fastened to the joints and passing through the holes in the members for fastening the runners in place as aforesaid, with the said roofing portion in between.

2,350,143
SUGAR REFINING PROCESS
Charles D. Barber and Paul R. Barber, Green Bay, Wis.
Application January 11, 1941, Serial No. 374,028
1 Claim. (Cl. 127—50)



The process of producing sugar of low ash content which consists in liming and subjecting the raw juice to a first carbonation treatment and a sulphitation treatment, then adding calcium chloride to the juice, then filtering, evaporating and subjecting the juice to another sulphitation treatment to remove the sulphur, again adding calcium chloride, concentrating the juice to produce a sugar of low ash content and a brown sugar syrup, and then re-entering the brown sugar syrup into the process at the point where the calcium chloride is first added.

2,350,144
MATCH BOOK
Leonor de Souza Barros, Sao Paulo, Brazil
Substituted for abandoned application Serial No. 410,635, September 12, 1941. This application December 31, 1943, Serial No. 516,433
5 Claims. (Cl. 206—29)



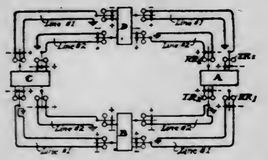
1. A match book comprising a match stack and a cover for the stack including a retaining

tongue and a cover leaf having a free end portion adapted in the closed position of the leaf to be extended beneath and held by the tongue, said free end portion of the cover leaf being provided with a match striking surface arranged in the closed position of the leaf to be covered by the tongue and said free portion of the cover leaf being provided adjacent to the match striking surface with moisture deflecting means lying on the outer side thereof and projecting outwardly beyond the plane of said match striking surface and forming a keeper to receive and interlock with the free edge of the tongue and also forming a hood so disposed in the closed position of said leaf as to overlie the joint between the leaf and free edge of the tongue.

2,350,145
MOTOR FUEL COMPOSITION
William J. Backoff and Norman D. Williams, Chicago, John F. O'Loughlin, Winnetka, Harry L. Moir, Niles Center, and John S. Yule, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application October 10, 1940, Serial No. 360,550
19 Claims. (Cl. 44—58)

19. A composition useful as a gum solvent for deposits in internal combustion engines comprising a substantial portion of vehicle selected from the group consisting of mineral oil and pine oil, boiling within the range of 350° F. to 850° F. and having good wetting and penetrating characteristics with respect to gum of the type deposited from motor fuels, at least 5% by volume of aliphatic alcohol boiling above 350° F. having gum solvent properties at elevated temperatures, and at least 5% by volume of material boiling below 350° F. having gum solvent properties at normal temperatures and selected from the group consisting of esters of aliphatic acids, aliphatic ketones and aliphatic alcohols.

2,350,146
TELEGRAPHIC AUCTION SYSTEM
Carl Anders Borgeson, Red Bank, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application June 10, 1942, Serial No. 446,465
14 Claims. (Cl. 177—353)

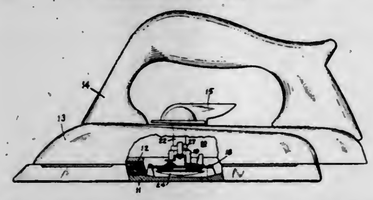


8. In an auction communication system, a plurality of stations each having a normally disabled transmitter and a receiving printer, a communication circuit in the form of a ring interconnecting said stations so that signals sent from a transmitter at any station may be transmitted through all of the other stations to operate the receiving printers thereat, and thence back to the receiving printer of the station at which they originated, means controlled from one of the stations to successively condition for operation during equal limited periods the transmitters at each of the other stations so that during its limited period each transmitter may be set into operation or not at the will of the local station attendant, means to enable each transmitter when so set into operation to continue conditioned to exclusively transmit over the ring circuit so long as its message continues, whereby each station in succession will have an opportunity to obtain exclusive right of the circuit for transmitting, a timing arrangement at each circuit to determine the length of time it will have an opportunity to obtain exclusive use of the circuit for transmitting bids, a "bid" lamp at each station, means operating only during the period the transmitter at this station is conditioned to transmit to cause said lamp to glow, a "round" lamp at each station, and means associated with the receiving printer at each station and responsive to a special code to cause said "round" lamp to glow during the entire time that all of the stations successively have exclusive control of the circuit for bidding purposes, thereby indicating to all of the stations that a round of bidding is taking place.

2,350,147
TERPENE ETHER
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 29, 1942, Serial No. 452,798
19 Claims. (Cl. 260—611)

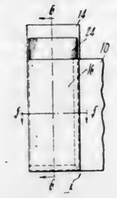
1. The method of producing an additive terpene ether which comprises reacting an alcohol with an unsaturated terpene compound in the presence of sulfamic acid as catalyst.

2,350,148
THERMOSTAT STRUCTURE
Henry C. Bostwick, Cranford, N. J., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 22, 1942, Serial No. 469,821
4 Claims. (Cl. 200—122)



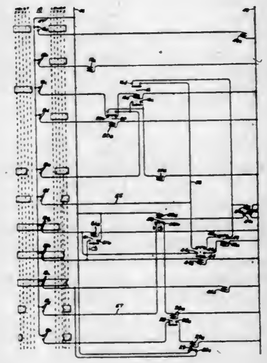
1. In a thermostat structure for controlling the temperature of a body having electrically energized means for heating the body, the combination of a switch for controlling energization of the electrically energized means, a heat-responsive element disposed in heat transfer relation with the body for actuating the switch, said element being moved to its switch closed and switch open positions in response to respective low and high temperatures thereof, manually operated means for adjusting the heat-responsive means whereby the temperatures to which it responds to operate the switch are varied, an electric heater controlled by said switch and arranged in heat transfer relation with the heat-responsive element, said heater being energized and deenergized with said electrically energized means, and a second switch operated by the adjusting means for rendering said heater inactive when the adjusting means is moved to the position in which the heat-responsive element responds to maximum temperatures to operate the first-mentioned switch.

2,350,149
MAILING CARD AND ENVELOPE
John H. Coakley, Jr., Medford, Mass.
Application August 3, 1942, Serial No. 453,339
7 Claims. (Cl. 229—92.8)



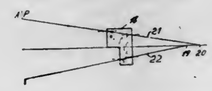
1. A combined card and envelope mailer comprising a card of tag stock or the like having an end portion folded over against the adjacent portion of the body of the card, said end portion having integral flange elements along two of its edges folded in between it and the body of the card and cemented to said body to form a pocket, and a liner piece fitted into said pocket, one face of said liner piece being cemented to said flanges, said card and liner piece having portions forming closure flaps foldable over the mouth of said pocket against the outer face of said folded end portion of the card.

2,350,150
CONTROL SYSTEM
James W. Cooke, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 6, 1942, Serial No. 464,737
4 Claims. (Cl. 172—179)



4. In a control system for hoists and the like having a series wound driving motor, a master switch for selectively controlling the connection of the motor to a source for rotation in either direction, a brake for said motor having an operating coil connected in series with said motor, a circuit including a resistor for shunting the armature and field winding of said motor to provide a stable slow operating speed of said motor, a first dynamic braking circuit having connections across the armature and series field winding of said motor, a second dynamic braking circuit including a resistor having connections to the armature terminals of said motor, limit switch mechanism having normally closed contacts in said shunting circuit and in the connections from said motor to said source and normally open contacts in each of said dynamic braking circuits, said limit switch mechanism being operable at a predetermined limit of operation in one direction of rotation of said motor to open said normally closed contacts to interrupt the connections from said motor to the source and to interrupt the circuit of said brake operating coil and to close said normally open contacts to complete said dynamic braking circuits, reversing switching means responsive to operation of said master switch for connecting said motor to said source for rotation in the reverse direction, and said limit switch responding at said limit in the reverse direction of rotation of said motor to open said normally open contacts to interrupt said dynamic braking circuits and to close said normally closed contacts to complete said shunting circuit and to connect said series field winding to the source in parallel with the armature of said motor.

2,350,151
OPTICAL FOCUSING SYSTEM
Joseph Dahl, Schwerin, Germany; vested in the Alien Property Custodian
Application June 27, 1940, Serial No. 342,801
In Germany March 14, 1939
1 Claim. (Cl. 88—1)

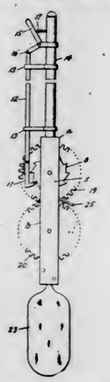


In an optical instrument having an objective for forming an image of an object and optical means whereby said image may be observed, said optical means being movable along the optical axis of said objective, the combination of means for dividing light transmitted from said object through said objective into two parts whereby to form two images of the object observable through said optical means, said dividing means comprising a transparent plate member having a thick portion and a thin portion provided with substantially plane parallel front and back faces and a plane face which is substantially normal to said front and back faces joining said thick and thin portions of said plate member, said plate member being positioned across the optical axis of the objective between the objective and the focal plane thereof with the front and back faces of the plate member substantially normal to the optical axis of the objective and the face joining the thick and thin portions of the plate member lying substantially on the optical axis whereby light emerging from the objective is caused to form two images which may be employed to determine when the objective is in focus with said object by moving said optical means until the optical means is located in a position wherein the two images of the object appear of similar sharpness.

2,350,152
WAX APPLICATOR
Edward J. Dahlstrom, San Francisco, Calif.
Application May 26, 1943, Serial No. 488,620
6 Claims. (Cl. 91—39)

1. A wax applicator comprising a frame, a handle for the frame, a flexible wax pervious bag for

containing wax, a shaft on which the open end of the bag can be wound, compressing means



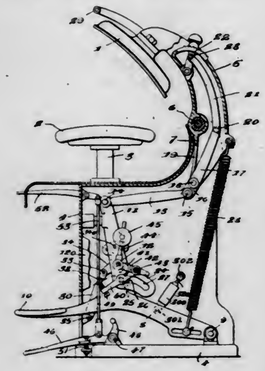
through which the bag passes, and means on the frame for rotating the shaft and thereby drawing the bag through the compressing means.

2,350,153

PRESSING MACHINE MECHANISM AND LOCKING MEANS

Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Application May 3, 1941, Serial No. 391,776
6 Claims. (Cl. 38—36)



1. In a machine having an opening and closing movement, and means operable to close the machine including operator controlled actuating mechanism and motion transmitting mechanism operable thereby, said mechanisms including elements connected directly together, the combination of means for locking the machine closed including a lock member movable with and relatively to the motion transmitting element, an inert member coacting with the lock member to set it in motion upon movement of the motion transmitting element by the actuating element, and a part actuated by the lock member, said part coacting with the element of the actuating mechanism to hold the actuating and the motion transmitting mechanisms in operated position, whereby the locking mechanism is free of transmitting motion and the transmission of motion is confined to the motion transmitting mechanism.

2,350,154

NONAQUEOUS DRILLING FLUID

Reginald D. Dawson, Berkeley, and Charles F. Blankenhorn, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 5, 1943, Serial No. 485,948
11 Claims. (Cl. 252—8.5)

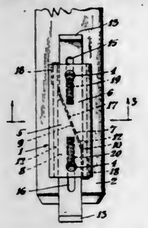
1. A non-aqueous drilling fluid comprising mineral oil, tall oil, and a base admixed thereto, and a finely divided solid material adapted to increase the specific gravity of the fluid suspended therein.

2,350,155

MECHANICAL ADJUSTER

Erastus C. Deal, Wilkes-Barre, Pa., assignor to Deal Slide-Lock Devices, Inc., Bronx, N. Y., a corporation of New York

Application March 18, 1942, Serial No. 435,247
7 Claims. (Cl. 45—139)



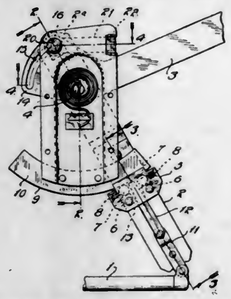
3. In a mechanical adjuster and the like, the combination of a casing, cooperating wedge members mounted in the casing having opposed wedge surfaces, each of said wedge members having a recess therein, a flexible member extending between said wedge surfaces and secured in position at points spaced from the wedge surfaces to permit longitudinal movement of the wedge members, and resilient compression means mounted in said recesses effective upon said casing and upon an end of each recess to urge said wedge members against said flexible member passing between the wedge surfaces.

2,350,156

EMERGENCY RELEASE FOR WINDOW REGULATORS

Roy H. Dean and Floyd A. Cooley, Detroit, and Harold L. Kegler, Monroe, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application January 21, 1941, Serial No. 375,218
3 Claims. (Cl. 268—125)



1. In a window regulator and particularly a power operated regulator, the combination of a window regulator mechanism, including the parts at the load end of the mechanism and the parts at the power end of the mechanism, a clutch operating to release in connection with the operation of the power parts of the regulator mechanism and locking against movement when the effort originates in the window and a releasable connection for tying the power parts to the load parts to permit movement of the window in an emergency although the clutch is locked, the said releasable connection comprising a slot with an enlarged opening at one end and a two diameter pin which normally keys the two sets of members together by engaging in the enlarged end of the slot and means by which the two diameter pin may be pressed to release the large diameter from the enlarged slot to permit relative movement between the two sets of parts.

2,350,157

SCRAPER

Josef A. Disse, Detroit, Mich.

Application September 13, 1943, Serial No. 502,231
11 Claims. (Cl. 30—315)



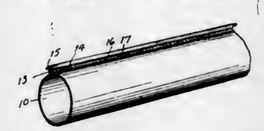
1. A scraper comprising a handle provided with a forwardly extending shank and a tool detachably engaging said shank, said tool being formed with a blade portion and an offset securing portion, the blade portion abutting against said shank to transmit working stresses thereinto, and the offset portion being clamped to said shank.

2,350,158

SEAM STRUCTURE FOR FLEXIBLE VENTILATING TUBING

William Hooper Evans, St. Louis, Mo.

Application January 10, 1941, Serial No. 373,906
1 Claim. (Cl. 138—49)



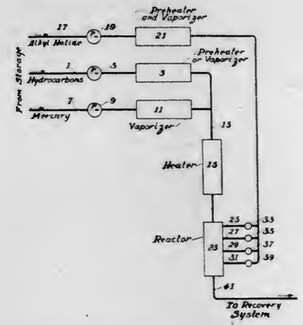
In a flexible air-conducting ventilating tubing wherein the tube is formed from a strip of relatively thick substantially non-resilient woven fabric material incapable of substantial contraction to self-seal needle holes made therethrough having its longitudinal marginal edge portions brought together along a seam, a seam structure comprising an inner longitudinal two-layer fin formed from said marginal edge portions of said tube, an inverted U-shaped sealing strip engaged about said fin formed from pliable resilient material capable of contraction to self-seal needle holes made therethrough, an inverted U-shaped covering strip engaged over said sealing strip and also formed from a strip of thick substantially non-resilient woven fabric material incapable of substantial contraction to self-seal needle holes made therethrough, and needle-applied thread stitching extending through and securing the layers of said seam, the thread-applying needle being of greater thickness than the thickness of the thread, the needle-produced holes through said covering strip and fin being larger than the thread thickness through the incapacity of the material of the covering strip and fin to contract, and the needle-produced holes through said sealing strip being tightly engaged by said thread through the capacity of the material of the sealing strip to contract, and the relatively larger needle-produced holes in said covering strip and fin having their ends contiguous to said sealing strip plugged by the sealing strip material surrounding the relatively smaller needle-produced holes in said sealing strip.

2,350,159

PROCESS FOR HYDROCARBON CONVERSION

Hillis O. Folkins, Skokie, and Carlisle M. Thacker, Highland Park, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application October 19, 1942, Serial No. 462,500
7 Claims. (Cl. 196—52)



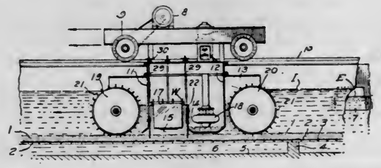
6. The method of cracking hydrocarbons which comprises subjecting said hydrocarbons to cracking in the presence of mercury and an aliphatic halide under conditions of temperature and pressure at which mercury and the aliphatic halide are in the vaporized state.

2,350,160

FILTERING APPARATUS AND METHOD

Charles E. Fraser, Kew Gardens, N. Y.

Application June 7, 1940, Serial No. 339,238
9 Claims. (Cl. 210—128)

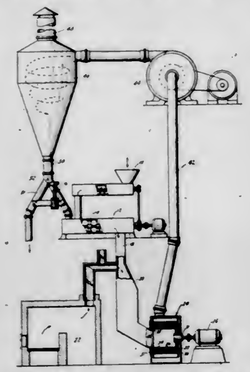


9. A method of cleaning a downflow filter bed which includes segregating an area of the bed, compacting the solids caught by the upper portion of the bed, as the filtrant flows downwardly through it, in the segregated area substantially completely across the bed while at the same time compacting the bed itself, so that the solids are pressed into the bed and compacted onto the bed in a dense film, thereafter raking the upper compacted layer only of the bed to break the compacted solids into flocs and subsequently creating a zone of agitation, extending completely to the bottom of the bed, in the flocced segregated area of the bed which has been raked and washing out and removing the solids therefrom.

2,350,161
SOLUTION OF WATER-SOLUBLE CELLULOSE ETHER
Walter E. Gloor, New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 30, 1942, Serial No. 449,159
9 Claims. (Cl. 106—81)

1. An aqueous coating composition comprising a water solution of a water-soluble cellulose ether in a quantity between about 0.3% and about 20% by weight of the composition and in a proportion sufficient to render the composition capable of drying to form a self-supporting film, and an alkali metal silicate in an amount between about 2 and about 30 parts by weight for each 10 parts of the cellulose ether.

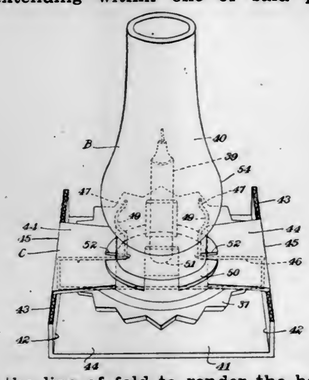
2,350,162
MATERIAL DRYING METHOD
Charles W. Gordon, Glen Ellyn, Ill., assignor to Combustion Engineering Company, Inc., New York, N. Y.
Application April 24, 1941, Serial No. 390,063
3 Claims. (Cl. 34—10)



1. In the art of drying moisture laden sewage sludge materials in a drying system wherein the material to be dried is carried in a stream of hot gas through a rotary drier of the beater type from which the material and gas pass to a separator, the improved method which comprises; mixing previously dried sludge with the fresh sludge in proportions for maintaining the moisture content of the material to be dried at between 35% to 50%, mixing hot gases with the sludge before admitting the mixture to the dryer, operating the drier at a peripheral speed of between 2000 to 4000 feet per minute for the tips of the drier beaters, and maintaining a temperature of between 200 deg. F. to 350 deg. F. in the separator.

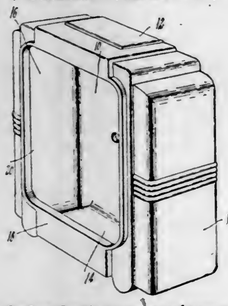
2,350,163
MERCHANDISE CONTAINER
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application June 18, 1941, Serial No. 398,619
6 Claims. (Cl. 206—44)

1. A merchandise packing support comprising a base, and a retaining flap means foldably secured thereto along a fold line and designed to engage an article of merchandise upon said base, said base and flap means being formed of a sheet of corrugated paper board comprising a pair of spaced parallel covering sheets and a connecting corrugated web forming passages through the board, and a ductile stiffening element extending within one of said passages



beyond the line of fold to render the board resistant to bending at the fold line, said ductile element projecting from the flap means to engage the article of merchandise to hold the article in fixed relation to said base.

2,350,164
CLOCKCASE
Roy D. Heymann, Watertown, Mass., assignor to The William L. Gilbert Clock Corporation, Winsted, Conn., a corporation of Connecticut
Application November 10, 1941, Serial No. 418,508
7 Claims. (Cl. 58—55)

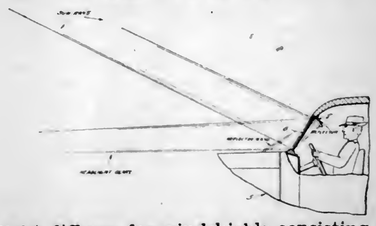


1. A sound-deadening one-piece molded clock case of water-laid paper pulp fibers impregnated with a plastic compound, said case having a rear wall, top, bottom, side walls, and a front wall with a large aperture for the clock face.

2,350,165
CADMIUM PLATING
John A. Henricks, Jr., Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application July 21, 1939, Serial No. 285,748
4 Claims. (Cl. 204—50)

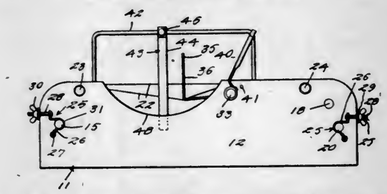
3. A method for the electrodeposition of bright cadmium comprising electrodepositing cadmium from a cadmium cyanide plating solution containing a brown resin which is the thermal decomposition product of the condensation product of sulphamic acid and an aldehyde from the group consisting of croton aldehyde, aldol, paraldol and furfural and where the thermal decomposition is arrested before black appears in said thermal decomposition product.

2,350,166
WINDSHIELD GLARE DIFFUSER
Harold H. Himes, Widnoon, Pa.
Application August 16, 1941, Serial No. 407,202
1 Claim. (Cl. 296—97)



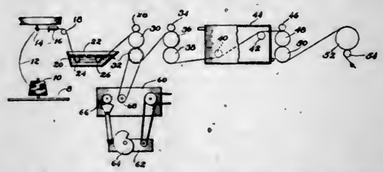
A light diffuser for windshields consisting of a flat mirror and a light passing pane of colored material disposed in front of said mirror flat against the same, and means to mount said diffuser on a windshield in a position to reflect the light rays from oncoming headlights downwardly and forwardly of said windshield obliquely across said rays and including an opaque back wall.

2,350,167
HAND LOOM
Rhoda C. Jones and William B. Craft, Manchester, Ky.
Application March 12, 1942, Serial No. 434,420
4 Claims. (Cl. 139—29)



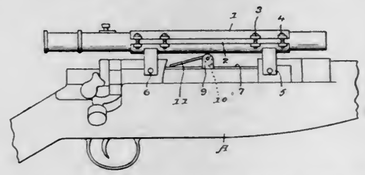
4. In a loom, a heddle comprising an oscillating shaft, a comb member connected to said shaft longitudinally thereof, said member comprising tines each having portions which are at an angle to each other and one of which portions projects radially from the shaft, the radially projecting portion having eyes for the warp threads of the loom, said member having slots between the tines, and said slots being adapted to receive the other warp threads, oscillation of said shaft functioning for raising and lowering the first-mentioned threads relatively to the last-mentioned threads to form the shed.

2,350,168
PROCESSING YARN
George M. Karns, Williamsville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 4, 1941, Serial No. 373,103
2 Claims. (Cl. 8—151)



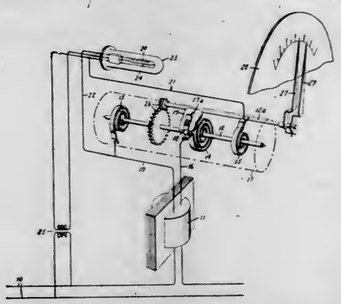
2. The process of decreasing the elongation differential between the various portions of yarn in a package of gel regenerated cellulose yarn having different elongation characteristics along the length thereof which comprises unwinding the yarn from said package, wetting said yarn, and stretching the successive portions of yarn an amount approximately equal to the difference between the actual elongation of the yarn and a predetermined given elongation thereof to produce a yarn having said predetermined given elongation throughout the length thereof, and then drying said yarn while maintaining substantially constant the successive equal lengths of yarn.

2,350,169
TELESCOPIC SIGHT MOUNT FOR FIREARMS
Clarence Kesselring, Anaconda, Mont.
Application October 6, 1942, Serial No. 461,002
4 Claims. (Cl. 33—50)



1. A telescopic sight mount for a rifle or the like, comprising means for receiving and clamping a sight therein, spaced yoke like supporting means for the clamping means and secured thereto for disposal in straddling relation to the rifle, means for attaching one of the ends of the supporting means to the rifle, means secured to and bridging the opposite ends of the supporting means, a catch mounted on the bridging means, said rifle being provided with keeper means for receiving the catch therein, and pivoted cam means carried by the catch for disposal in bearing engagement with the bridging means for drawing the supporting means against the rifle and for securing the catch in its receiving means.

2,350,170
VOLT-AMPERE METER
Isaac F. Kinnard, Boston, Mass., assignor to General Electric Company, a corporation of New York
Application October 15, 1941, Serial No. 415,059
8 Claims. (Cl. 171—95)



1. Apparatus for measuring the product of the volt and ampere quantities of an electric power line comprising a differential electrical measuring instrument having a pair of energizing cir-

cuits and responsive to the difference of the flow of current in said energizing circuits, means for energizing said circuits in parallel by in-phase alternating currents, the total of which is proportional to one of said quantities, and a regulator responsive to the other of said quantities for varying the relative flow of such currents in the parallel energizing circuits independently of variations in the phase relation between the volt and ampere quantities such that the response of the differential instrument is substantially proportional to the volt amperes of the line to be metered.

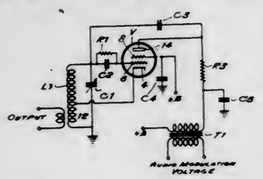
2,350,171

REACTANCE CONTROLLED GENERATOR

Howard C. Lawrence, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 19, 1942, Serial No. 447,696

8 Claims. (Cl. 179—171.5)



1. In means for supplying a controllable reactive effect across a resonant circuit in which alternating current flows, an electron discharge device having electrodes including a control electrode coupled with said resonant circuit and an additional electron receiving electrode coupled to the aforesaid electrodes by the electron stream of the device, a phase shifting reactance coupling said electron receiving electrode to said control electrode for feeding thereto alternating voltage a component of which is displaced in phase substantially 90° with respect to the alternating voltage appearing on said control electrode due to its connection to said resonant circuit, whereby a reactive effect is added to said resonant circuit, and connections for adjusting the potential on said additional electrode to vary the voltage fed to the control electrode and thereby vary said reactive effect.

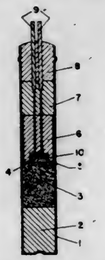
2,350,172

ELECTRIC BLASTING CAP

Robert W. Lawrence, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application May 17, 1940, Serial No. 335,706

4 Claims. (Cl. 102—28)



1. An electric firing device resistant to detonation upon application of strong external heating having in combination a closed-end metallic shell; a base charge disposed in the closed end of said shell; a priming charge disposed above the base charge and comprising an intimate admixture of lead azide and a secondary explosive selected from the group consisting of solid explosive nitrated polyhydric alcohols, solid explosive nitrated sugars, solid explosive nitrated aromatics, and hexogen, the said secondary explosive being present in amount from about 30 to about 60% by weight of the said priming charge and adapted to desensitize the priming charge at a temperature below the ignition temperature of the lead azide; and an ignition charge disposed in a cavity type plug and above the priming charge forming an ignition assembly adapted to lower the rate of heat transfer external to said device to said ignition charge; said device adapted to retard ignition of said ignition charge until said priming charge is desensitized, and to render said firing device resistant to detonation, upon application of strong external heating.

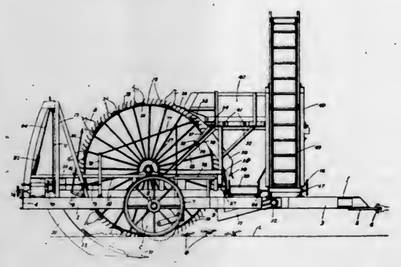
2,350,173

BEET LIFTING AND TOPPING IMPLEMENT

Claude A. Loucks, Walnut Grove, and Lloyd K. Schmidt, Rio Vista, Calif., assignors of twenty-one and one-fourth per cent to said Loucks, thirty-six and one-fourth per cent to said Schmidt, twenty-one and one-fourth per cent to Albert M. Jongeneel, Walnut Grove, and twenty-one and one-fourth per cent to George P. du Bose, Stockton, Calif.

Application April 16, 1943, Serial No. 483,256

15 Claims. (Cl. 55—108)



1. A beet lifting implement including a trailing frame vertically swingable, when in operative position, about an axis adjacent its forward end and adapted for movement along the ground, a spiked ground engaging wheel journaled in a fixed position on said frame, means cooperating with said spiked wheel to remove beets from the spikes above the ground and to discharge said beets from the implement, and a sub-soil plow mounted in rigid connection with said frame, the plow and wheel remaining in the same relative positions upon swinging of the frame and the plow being positioned below the spiked wheel at a predetermined point vertically below and slightly rearwardly of the ground engaging portion of said wheel so that, with advance of the implement, the plow firstly creates sufficient suction to cause the spiked wheel to closely follow ground contour and impale the beets in the row, and thereafter the plow loosens the ground about the impaled beets to facilitate lifting thereof by the spiked wheel with continued forward movement of the latter.

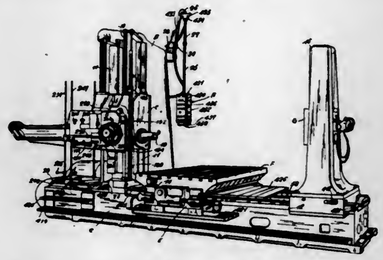
2,350,174

BORING MACHINE

Henry M. Lucas and Hallis N. Stephan, Cleveland Heights, Ohio, assignors, by mesne assignments, to The Lucas Machine Tool Company, Bratenahl, Ohio, a corporation of Ohio

Application December 2, 1938, Serial No. 243,616

42 Claims. (Cl. 29—26)



2. In a machine tool of the character referred to, the combination of a frame, a member movably supported by said frame for linear movement, means for reciprocating said member, a pendant control station having a face or panel lying in a plane parallel with the path of movement of said member, means for supporting said pendant control station for universal movement, means for restricting the free movement of said pendant control station in a vertical plane, means for maintaining the face or panel of said control station in a plane parallel to the path of movement of said member irrespective of the position to which the pendant control station is moved, and manually operable electric switches on said control station for controlling the first-named means.

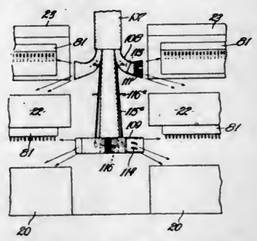
2,350,175

VULCANIZING APPARATUS

Eugene Augustus Luxenberger, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Application August 3, 1940, Serial No. 350,738

1 Claim. (Cl. 18—17)



In equipment of the class described, the combination of a mold, a vulcanizer having separable parts which close together to substantially seal the mold in the vulcanizer, said mold comprising separable parts which close together to form a covered mold cavity and which separate at substantially the place of separation of the vulcanizer parts, and means operable to supply a blast of cooled air between the separated separable parts of the vulcanizer against the separated parts of the mold therein, said last mentioned means including means for directing the air upward against one part of the mold and downward against the other part thereof.

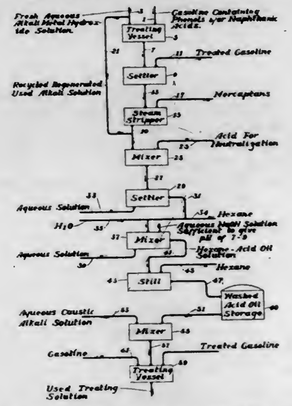
2,350,176

METHOD FOR TREATING HYDROCARBON OIL

Timothy L. McNamara, Arlington Heights, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application December 30, 1940, Serial No. 372,355

4 Claims. (Cl. 196—30)



1. The method of removing weakly acidic substances from hydrocarbon liquids which comprises contacting said liquids with aqueous alkali metal hydroxide solution to which has been added sufficient material selected from the group consisting of acid oil and the reaction product of alkali metal hydroxide and acid oil, from which acid oil has been removed those constituents soluble in aqueous alkali solution having a pH greater than 7 but not substantially greater than 9, to enhance the ability of said alkali metal hydroxide solution to extract acidic substances from said liquids.

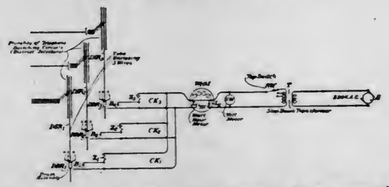
2,350,177

TELEPHONE MEASURING SYSTEM

Harold Irving MacKen, New York, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York

Application August 18, 1942, Serial No. 455,183

5 Claims. (Cl. 179—175.2)

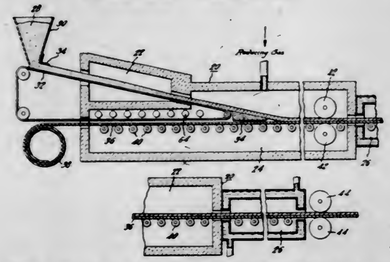


3. In apparatus for measuring the operating time of each of a plurality of circuits carrying variable currents, the combination of a plurality of selectors each controlled by one of said circuits, each selector having an off-normal contact, a plurality of power consuming circuits which receive equal amounts of current, means responsive to the closure of said off-normal contacts to energize the associated power consuming circuits, said power consuming circuits being interconnected in parallel relationship with each other, and means for determining the amount of current consumed by all of said power consuming circuits.

2,350,178
HAIR WAVING
Harry Martin, New York, N. Y., assignor to Martin Laboratories, Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 13, 1941, Serial No. 383,204
1 Claim. (Cl. 167—87.1)

The process of curling hair which consists in treating the rolled-up hair with a solution containing hydroxylamine sulfate, and an alkaline substance.

2,350,179
METHOD AND APPARATUS FOR MAKING COMPOSITE METAL PARTS
John T. Marvin, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 16, 1941, Serial No. 374,733
14 Claims. (Cl. 29—33)

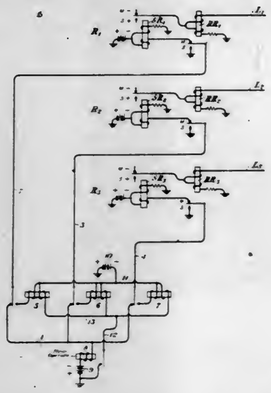


1. The steps in the method of making a composite element including a porous metal portion comprising, briquetting powdered metal into a self-sustaining element in a substantially flat condition, heating a non-porous substantially flat metallic element of higher melting point under reducing conditions for cleaning the surface thereof of any oxides present, and then while continuing heating the non-porous element superimposing the briquetted powdered metal upon the surface of said non-porous element for sintering together the powdered metal into a porous metal portion and simultaneously causing the porous metal layer to bond in situ to the non-porous metal support.

14. An apparatus for forming a composite material comprising a porous metal layer made from sintered metal powder bonded to the surface of a steel support, comprising in combination, a sintering furnace, means for supplying a metal powder layer to said furnace and for sintering and conveying said layer within said furnace, means for supplying a steel support to said furnace and for heating and conveying said support through said furnace, separating means for maintaining the metal powder layer and the steel support out of contact with one another during the first portion only of their movement through said furnace whereby said metal powder layer after passing said separating means is superimposed upon said steel support, and pressure means disposed within the furnace for compressing the metal powder layer on said steel support.

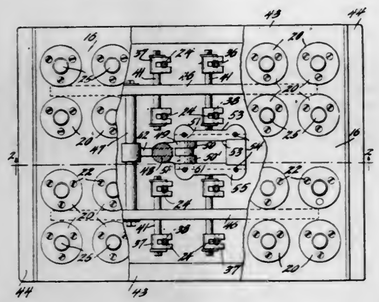
2,350,180
TELEGRAPH SYSTEM
Arthur Gordon Miller, Staunton, Va., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 17, 1942, Serial No. 462,338
3 Claims. (Cl. 178—69)

1. A telegraph system comprising a plurality of lines terminating at repeaters, a hub circuit for interconnecting said lines, a slow operate relay operated if one of said lines is disabled for an appreciable length of time, means controlled by the operation of said relay for automatically



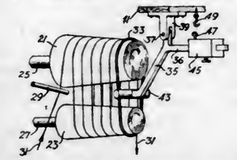
disconnecting said disabled line from said hub circuit and allowing transmission between the remaining lines to take place over said hub circuit.

2,350,181
LOADING APPARATUS
Harry Wadsworth Morgan, Wilmington, Del., assignor to Triumph Explosives, Inc., Elkton, Md., a corporation of Maryland
Application March 30, 1942, Serial No. 436,867
3 Claims. (Cl. 86—31)



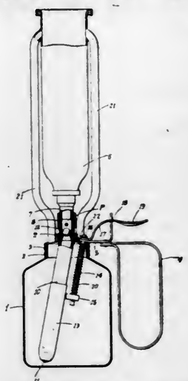
1. Shell loading apparatus comprising, in combination, a hollow base including a flat top plate having a plurality of holes arranged in parallel rows, a plug and mould for the fuse opening of a hollow projectile while filling the same with a molten explosive being provided for each hole; said plugs and moulds each including a hollow stud adapted to freely enter said opening, a mounting flange on said stud secured to the plate, covering one of the holes and positioned to limit the stud entrance into the shell opening, a stem slidable through said stud and having a head extending beyond the outer end of the stud, a resilient washer on said stem between the head and stud, means to tension the stem to compress the washer longitudinally and expand the same laterally to engage the walls of the opening; an operating lever pivotally mounted on said plate, and linkage associating each of said means with said lever for simultaneous expansion of said washers.

2,350,182
YARN PRODUCTION
William E. Neff, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 20, 1941, Serial No. 423,749
2 Claims. (Cl. 28—71.5)



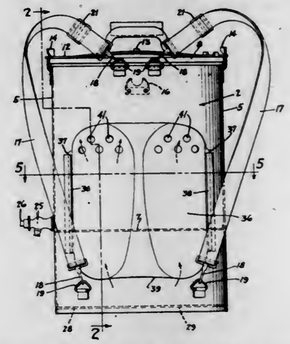
1. The method of positioning a yarn in a series of helical courses about a plurality of spaced, cantilever yarn-advancing rollers which comprises positioning a belt about the outwardly projecting ends of said rollers to rotate therewith, passing a yarn, and maintaining the passage of said yarn, on to the opposite end of one of said rollers, drawing a portion of said yarn into contact with said belt to rotate therewith whereby upon continued rotation of said rollers the yarn will arrange itself in helical form about said rollers, severing the yarn adjacent the projecting ends of said rollers, guiding the same to a collecting means, and removing the belt together with accumulated yarn windings from said rollers.

2,350,183
COW TEAT MEDICATOR
Marvin H. Newell, Lodi, Calif.
Application May 3, 1943, Serial No. 485,473
9 Claims. (Cl. 128—248)



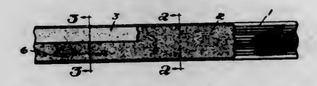
7. A portable medicator for cow teats, comprising, in unitary relation, a tank adapted to receive a fluid, said tank including an upwardly opening neck having a screw cap threaded thereon, an upwardly opening vertically elongated teat cup mounted in rigid connection with and upstanding from said cap, there being a passage communicating between the lower end of said cup and said neck, and a pump mounted in the tank operative to pump fluid from said tank upwardly through said passage into the cup, said pump including a check valve opening toward the cup whereby to prevent back flow of fluid from the cup to the tank; there being a handle secured in connection with said cap and disposed alongside the tank, and said pump including an actuating element adapted for finger engagement and overhanging the upper end of said handle.

2,350,184
DRINKING FOUNTAIN
John E. Oys, Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota
Application December 11, 1941, Serial No. 422,549
3 Claims. (Cl. 225—21)



2. A portable drinking fountain comprising a tank having a dispensing faucet adjacent to its bottom wall and provided with a suitable cover, shoulder straps secured to the tank whereby the fountain may be conveniently carried upon a person's back, spaced parallel guides on the back wall of the tank, and a plate removably received in said guides and spaced outwardly from the adjacent wall of the tank to provide an air circulating passage between said wall and the carrier's back, and whereby the back wall of the tank cannot directly contact the carrier's back.

2,350,185
BINDER FOR SHOE UPPERS
John M. Pero, Randolph, and Nathan Daniels, Malden, Mass.
Application August 28, 1942, Serial No. 456,460
1 Claim. (Cl. 36—57)

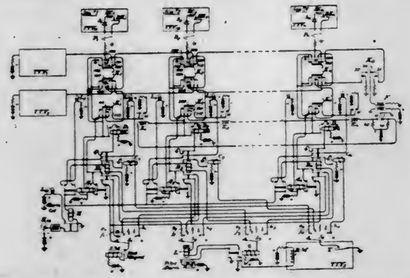


As a new article of manufacture, an elastic binding tape adapted to have one edge portion stitched to a shoe upper, with a portion thereof folded widthwise over the edge of the upper, and secured by adhesive along the opposite edge without stitching, consisting in a relatively thin base coating of adhesive extending lengthwise and widthwise of the entire strip, and a second coating of adhesive superimposed on one marginal portion only of the base coating, said base coating having a melting point of approximately 100° F. higher than that of the thicker coating, whereby a predetermined heat will cause the second coating to become tacky and adhesive without causing the base coating to become similarly adhesive.

2,350,186
TELETYPEWRITER SYSTEM
Donald Burke Perry, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application June 27, 1941, Serial No. 399,981
3 Claims. (Cl. 178—2)

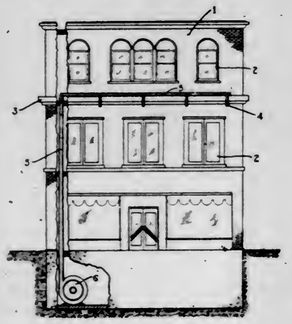
1. In a teletypewriter system, the combination of a central station which may be unattended,

an unattended teletypewriter set at the central station, a plurality of outlying stations at each of which there is a teletypewriter set, a step-by-step selector at the central station, means responsive to a break signal received from any one of the teletypewriters at the various outlying stations to operate the selector to connect the central station teletypewriter set only to the teletypewriter set at the outlying station from which the break signal is received. means responsive to a predetermined signal from the set at the outlying station designating the termination of the message from the set at the outlying station to



further operate the selector to immediately return the selector to its unoperated position and at the same time disconnect the set at the outlying station from the set at the central station, means including apparatus at the central station responsive to a break signal received from a second teletypewriter set at a different outlying station to prepare the circuit to connect the latter teletypewriter set to the central station teletypewriter set, and means responsive to the disconnection of the first-mentioned outlying teletypewriter set from the central station teletypewriter set to connect the second teletypewriter set to the central station teletypewriter set.

2,350,187
STARLING SCARING DEVICE
Joseph C. Pfeiffer, Louisville, Ky.
Application April 12, 1940, Serial No. 329,311
2 Claims. (Cl. 20—1)

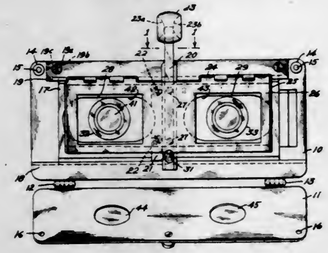


1. A mechanism for scaring starlings and the like from the facade surfaces of building structures and the like comprising: a flexible hose having an air inlet adjacent one end and an air outlet adjacent its opposite end and providing an air passage therebetween; means securing the air inlet end portion of the hose to hold it at a point adjacent the surface to be protected, the air outlet end portion being free to thrash over the surface to be protected; and means for creating a flow of air through the hose with sufficient force to cause the hose to thrash about and emit a staccato noise.

2,350,188
TEXTILE TREATMENT
Paul S. Pinkney, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 19, 1941, Serial No. 411,549
1 Claim. (Cl. 8—55)

The process which comprises dyeing, with an acid dye, a "Fiber D" regenerated cellulose textile material which has been reacted with phenyl isocyanate, said isocyanate imparting to said cellulose material an affinity for said acid dye.

2,350,189
VIEWING APPARATUS
Verneur E. Pratt, Norwalk, Conn., assignor to Microstat Corporation, a corporation of Delaware
Application May 19, 1942, Serial No. 443,566
8 Claims. (Cl. 88—31)

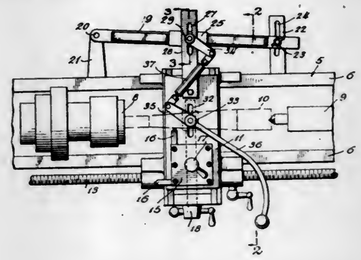


1. In a device of the character described, in combination, a support, film holding means movably attached to said support and adapted to hold two film frames in a single plane at substantially inter-pupillary spacing, a pair of lenses attached to said support with their optical axes perpendicular to said plane and substantially at inter-pupillary spacing, said lenses being of high magnification whereby their fields of vision may respectively embrace only substantially identical fractional portions of said two film frames, and means to move said holding means on said support to shift said frames in parallel relation in said plane in two directions angular with respect to each other, whereby said fields of vision may be caused to traverse any desired portions of said frames.

2,350,190
LATHE
Frederick A. Quick, Bellerose, N. Y., assignor to All Purpose Gold Corporation, Brooklyn, N. Y., a corporation of New York
Application June 5, 1942, Serial No. 445,865
1 Claim. (Cl. 82—17)

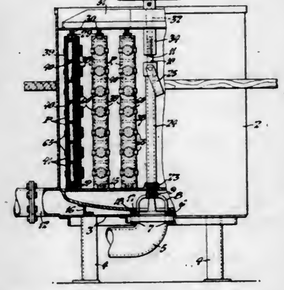
In a lathe, work holding means, a tool-supporting compound slide including two cooperating slide members having unitary longitudinal movement relative to said work when forming a cylindrical cut therein and having movements relative to each other when forming a tapering cut, a taper guide, means including a clamping nut for coupling said slide members together during

their unitary movement and for disconnecting the same for relative movements when forming a tapering cut, means including a second clamping nut for coupling said taper guide to one of said slide members during the formation of a tapering cut and for uncoupling said guide and



slide member during a cylindrical cutting operation, a turnbuckle connection between said clamping nuts, and an operating lever extending from one of said nuts for turning the same in either direction and for actuating said connection to turn the other nut in a reverse direction from the first nut.

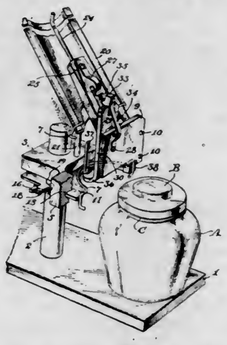
2,350,191
DYEING APPARATUS
Horace H. Raymond, Berlin, Conn., assignor to Atlantic Rayon Corporation, Providence, R. I., a corporation of Rhode Island
Application January 14, 1941, Serial No. 374,377
17 Claims. (Cl. 68—189)



1. An apparatus of the type indicated comprising a compartment for enclosing a textile package, means for supplying a treating fluid under pressure to the compartment to cause it to flow through the package, and means responsive to the pressure of the fluid in the compartment for maintaining a constant rate of flow of the fluid from the compartment irrespective of the permeability of the package.

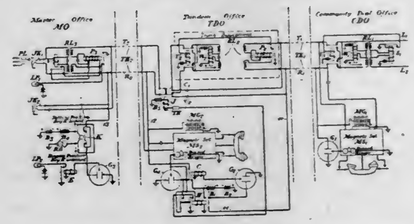
2,350,192
CLAMP-APPLYING APPARATUS
Frank Redman, Washington, Pa., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application January 14, 1942, Serial No. 426,772
9 Claims. (Cl. 226—80)

1. A clamp-applying mechanism for jars, including a magazine for a supply of clamps, means for immovably supporting a clamp in position to be placed upon a jar, and means



operated by movement of a jar against the immovable clamp for successively feeding clamps to said position.

2,350,193
AUXILIARY TELEPHONE APPARATUS
Charles Stanley Rhoads, Albany, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application August 21, 1943, Serial No. 499,494
14 Claims. (Cl. 179—43)



1. The combination of a ringing generator, two three-element gas tubes, each having two cathodes and an anode, the generator being connected to the cathodes of one of said tubes, the anode and one of the cathodes of which are connected to the cathodes of the other of said tubes, an indicating device, and a relay connected to the anode and one of the cathodes of said other tube, said indicating device being controlled by said relay.

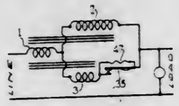
2,350,194
FABRIC FASTENER ELEMENT
Leo Roseman, Newark, N. J.
Application January 14, 1943, Serial No. 472,393
6 Claims. (Cl. 24—203)



5. In combination with a hook, a fastener part including a base and a fastener element which comprises a strip of material secured at spaced points in its length to said base so that an edge portion of said strip is free from said base to permit engagement of said hook with said strip, said strip including a piece of flexible material having two main superposed plies connected by

an integral portion at a main fold that extends longitudinally of said piece and forms said edge portion of said strip, and a plurality of superposed layers of material disposed between said main plies close to said integral portion at said main fold in spaced relation to the other edge of said strip and extending longitudinally of said main fold so that said edge portion at said main fold is thicker than the remainder of said strip to ensure secure frictional contact of said hook with said strip.

2,350,195
CURRENT-LIMITING AND PROTECTIVE ARRANGEMENT
Albert B. Rypinski, Laurelton, Long Island, N. Y., assignor to Della C. Rypinski, Laurelton, Long Island, N. Y.
Application December 3, 1941, Serial No. 421,460
15 Claims. (Cl. 171—242)



1. A control arrangement of the kind described comprising in combination inductively coupled windings arranged such that substantially all flux threading one winding threads all windings and electrically interconnected to effectuate a minimum impedance under normal conditions and including two windings connected in series, and means for varying the electrical relation of the windings upon the flow of current in excess of a predetermined value.

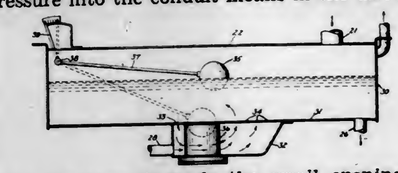
2,350,196
ARTIFICIAL TEETH
Jacob A. Saffir, Chicago, Ill., assignor to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York
Application October 27, 1942, Serial No. 463,475
1 Claim. (Cl. 32—5)



A number of artificial teeth, suitable for incorporation into a denture, attached to each other by elastic means at approximately the normal contact point of each tooth, said means holding them normally in the proper order of alignment for use in an average denture, and permitting a limited distortion of said alignment while the teeth remain attached to each other.

2,350,197
ELASTIC FLUID POWER PLANT
Fred B. Schneider, Wesleyville, Pa., assignor to General Electric Company, a corporation of New York
Application February 28, 1941, Serial No. 381,053
3 Claims. (Cl. 261—122)

3. Elastic fluid condensing arrangement including a hotwell having a casing with a bottom portion with a large opening and a plurality of small openings spaced from the large opening, conduit means connected to the bottom portion to effect communication between the large opening and the small openings outside the casing, and means connected to the conduit means near the large opening for injecting elastic fluid under pressure into the conduit means in the direction



from the large towards the small openings to create circulation of liquid from the casing through the large opening into the conduit means and from the conduit means through the small openings into the casing to heat the condensate in the hotwell.

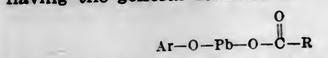
2,350,198
PROCESS OF MANUFACTURING SHOES
Benjamin J. Slavin, University City, Mo.
Application December 20, 1943, Serial No. 514,939
4 Claims. (Cl. 12—142)



1. The process of manufacturing shoes which consists in securing the lasting margin of a shoe upper and one margin of a midsole edge cover strip to the margin of an insole, providing a midsole with a continuous cut through the entire thickness thereof so as to form a detachable plug therein, securing said midsole with the plug therein to the outer face of said insole, pulling said cover strip over the edge of said midsole and securing the other margin of said edge cover strip to the outer face of said midsole, removing said plug from said midsole, mounting a cushioning insert in the opening vacated by said plug, and then securing an outer sole to the outer face of said midsole over the insert therein and the marginal portion of the edge cover strip secured thereto.

2,350,199
VINYL RESIN
Ronald W. Staley, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Original application March 21, 1942, Serial No. 435,636. Divided and this application October 1, 1943, Serial No. 504,605
3 Claims. (Cl. 260—23)

1. A composition comprising (1) the product of conjoint polymerization of a mixture comprising vinyl chloride and an acrylic ester, and (2) a heat and light stabilizer comprising a compound having the general formula:

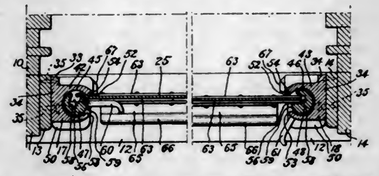


wherein Ar is an aryl radical and R is an aliphatic radical having at least 9 carbon atoms.

2,350,200
SCREEN HOLDER
Winfield J. Starr, Philadelphia, Pa.
Application June 11, 1943, Serial No. 490,435
11 Claims. (Cl. 160—23)

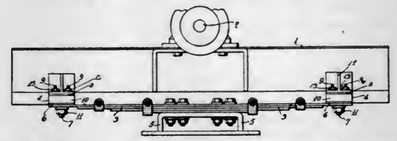
1. A holder for roller screens having in combination, a locking bar having a longitudinal

channel forming a runway for an edge portion of the screen, means mounting the locking bar for rotation, a longitudinal wall secured in a fixed position adjacent to and parallel with said bar over which wall the screen is adapted to



slide to the rolled and unrolled positions, and means for rotating said bar for deflecting an edge portion of the screen over said wall at an angle relatively to the body of the screen for retaining said edge portion of the screen between said wall and said bar.

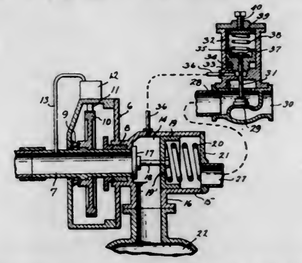
2,350,201
RESILIENT SUSPENSION FOR VIBRATING SCREENS AND THE LIKE
Harry L. Strube, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application January 7, 1942, Serial No. 425,928
6 Claims. (Cl. 209—326)



4. In a vibrating screen comprising a screen frame and means associated with the frame for imposing thereon gyratory vibrations in predetermined planes, a resilient support for the frame consisting of metal leaf springs supporting the frame and arranged for resilient displacement in directions substantially paralleling the said planes of vibration, and elements of resilient rubber interposed between the springs and the frame and being free for resilient displacement in shear in planes substantially at right angles to the said planes of vibration and in a direction substantially parallel to said planes and at right angles to the said direction of spring displacement, the said spring and rubber displacements thereby providing respectively for the two major components of said gyratory movement.

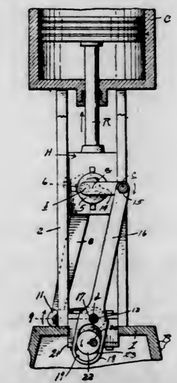
2,350,202
SOOT BLOWER CONTROL
Willis P. Thomas, Highland Park, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application December 2, 1941, Serial No. 421,363
3 Claims. (Cl. 122—392)

1. A steam puff system for scavenging soot deposit from the interior of a boiler comprising a blower tube head having a valve guarded blower tube projecting outwardly therefrom, said head forming a valve chamber for said valve, a reservoir open to said chamber and having a feed line of small diameter continuously opening thereinto from the boiler, said head having a spring pressed piston slidable therein and connected across said valve chamber to said valve, said piston having an opening of small diameter leading into a vent line, a control valve in said vent line, a valve cage housing the stem of said control valve, said stem having a pressure responsive valve spring pressed toward its seat and in a direction to close said control valve, a pressure line of materially smaller diameter than that of said feed line leading from said reservoir to the space beneath said pressure responsive valve, said pressure responsive valve being adapted to be elevated from its seat when the pressure therebeneath exceeds the



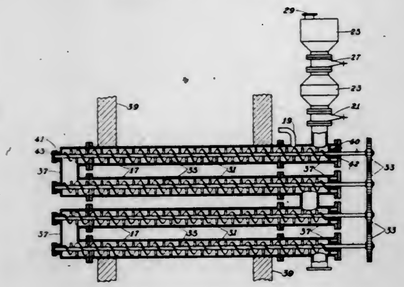
counterpressure exerted by the spring thereabove and to remain open as long as the fluid pressure on said reservoir is sufficient to overcome said counterpressure, said pressure responsive valve upon lifting from its seat elevating said control valve to relieve the pressure behind said piston whereby said piston moves against its spring to open the first named valve leading to said blower tube.

2,350,203
MECHANISM TO INCREASE THE EFFICIENCY OF ENGINES
John Henry Trahin, Beaumont, Tex.
Application July 22, 1942, Serial No. 451,907
10 Claims. (Cl. 74—36)



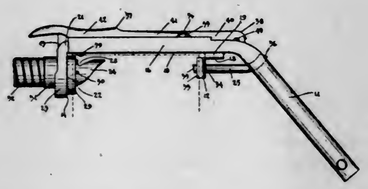
1. In an engine including a crank and a reciprocating crosshead, the crank having a throw greater than one-half the stroke of the crosshead; a member rotatably carried by the crosshead, a pitman, means for operatively connecting the pitman to the crank, means for operatively connecting the pitman to the rotary member of the crosshead at a point eccentric to the axial center of said rotating member, the extent of offset of the connection of the pitman with the rotary member with respect to the axial center of the rotary member being the same as the increased length of the throw of the crank, and means for effecting a complete rotation of the rotary member during each stroke of the crosshead.

2,350,204
CATALYTIC CONVERSION OF HYDROCARBONS
Cary R. Wagner, Chicago, and Charles M. Ridgway, Highland Park, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application March 18, 1939, Serial No. 262,598
1 Claim. (Cl. 196—52)



A method for converting hydrocarbon oil to gasoline boiling hydrocarbons comprising rapidly heating oil vapors in a restricted stream in the absence of a catalyst by means of high temperature gases to approximately the desired cracking temperature, passing the heated vapors to a catalytic cracking zone substantially completely filled with solid, comminuted catalyst, passing the vapors in a restricted stream through said catalytic cracking zone at a lower velocity than the velocity in the heating zone, mechanically moving the catalyst through said catalytic cracking zone from inlet to outlet in a horizontal direction, and continuously agitating the catalyst therein, maintaining the catalytic cracking zone at cracking temperature by means of combustion gases having a lower temperature than the gases used to heat the vapor stream in the absence of catalyst but above the temperature in the catalyst zone, and regulating the speed of movement of the catalyst through said catalytic cracking zone, so that its time of residence therein does not substantially exceed its efficient life.

2,350,205
MEANS FOR DISPENSING LIQUIDS FROM CANS
Claude E. Warfield, Minneapolis, Minn., assignor to H. L. Millis, Northfield, Minn.
Application October 31, 1940, Serial No. 363,644
7 Claims. (Cl. 222—83)



1. In an article for dispensing liquids from closed cans containing the same, a clamp applicable to a can and including a guide adapted to overlie the top thereof, said guide having a handle for manipulating said clamp together with the can grasped thereby, said handle being adapted to occupy a position adjacent to one side of the can, a jaw on said guide for engagement with said can at said side thereof, a slide mounted on the guide and having a jaw for engagement with said can at the opposite side thereof, means for relatively adjusting said guide and slide to clamp said jaws against their respective sides of the can, a tapping member projecting from the face of the second jaw for piercing the corresponding side of the can in the process of engagement of said second jaw therewith, a dispensing spout leading from said tapping member, an air inlet tube arranged with its outer end portion extending through said handle and with its inner end portion extending through said first jaw and having a terminal portion projecting from the face of said first jaw, said outer end portion of said tube having an air ingress opening disposed at a locality conveniently permitting the valving thereof by a finger of the user's hand holding said handle, said terminal portion of said tube being pointed to pierce the corresponding side of the can in the process of the engagement therewith of said first jaw, said tube being adapted to admit air to the interior of said can under the valving action of the user's finger.

2,350,206
ANODE POWER SUPPLY
Donald E. Watts, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 14, 1942, Serial No. 461,945
4 Claims. (Cl. 250—17)

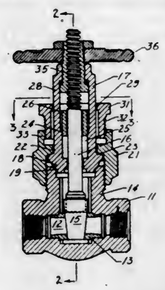
1. In a unidirectional potential source for a plurality of stages of electron discharge devices operating at different variable potentials and adversely affected by fluctuations in operating potential, the combination of a dynamo electric machine having output terminals supplying said potentials to said stages, a series field winding and a shunt field winding, first and second adjustable resistances connected respectively across said series field winding and in series with said shunt field winding, means for adjusting said resistances simultaneously in opposite sense, said adjustment of said first resistance being effective to provide a stable operating characteristic for said machine as the potential of said machine is varied over a wide range by said adjustment of said second resistance, and means for adjusting said potential to a desired value to facilitate tuning said stages, said last means comprising means for short-circuiting said series field and inserting a second adjustable resistor in series with said shunt field.

2,350,207
DEVICE FOR HANDLING INCENDIARY BOMBS
Floyd J. Wyscaver, Washington, D. C., assignor of one-half to Henry C. Parker, Washington, D. C.
Application March 18, 1942, Serial No. 435,228
3 Claims. (Cl. 294—104)



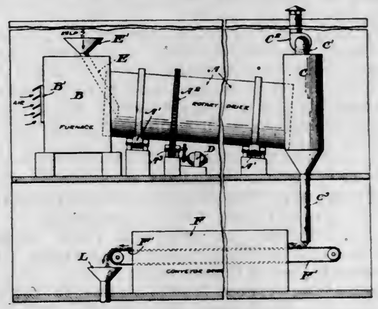
1. A device for handling incendiary bombs which comprises a handle adapted to be grasped by an operator like the handle of a hoe, an elongated jaw member of heat-resistant material and of arcuate cross section mounted in fixed position at the end of said handle, in substantially the position of the usual hoe on a handle, a moveable cooperating jaw member of similar shape pivotally mounted in such manner that the two jaw members form a grapple having a substantially cylindrical chamber, said jaw members being adapted to pick up and hold an incendiary bomb, operating means connected to said moveable jaw member for opening and closing said members and a protecting shield mounted on said handle between said jaw members and said operating means, said shield being at least partly transparent to enable the operator to see the bomb.

2,350,208
VALVE
Joseph A. Zwishenberger, Louisville, Ky., assignor to Henry Vogt Machine Company, Louisville, Ky., a corporation of Kentucky
Application March 31, 1942, Serial No. 437,069
7 Claims. (Cl. 251—50)



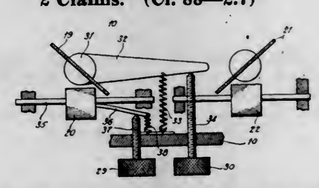
1. In a valve of the bonnet type: a housing; a valve stem extending outwardly from said housing; said stem having an outer threaded portion and a packing portion between its threaded portion and its inner end; a bonnet arranged to support the extending portion of said valve stem, said bonnet having an inner end adjacent the inner end of the packing portion and an outer end adjacent the threaded portion; a bonnet nut secured to said housing and arranged to secure the inner end of said bonnet thereto; a packing gland about the packing portion of said valve stem; and means threaded to said bonnet nut and arranged to engage and maintain said packing gland in packing position.

2,350,209
METHOD FOR DRYING KELP
Donald E. Clark, Leland D. Pratt and Spencer A. Coleman, San Diego, and Harland C. Green, El Cajon, Calif., assignors to Kelco Company, Los Angeles, Calif., a corporation of Delaware
Application September 12, 1940, Serial No. 356,550
5 Claims. (Cl. 34—17)



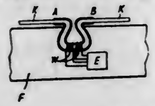
1. A method for drying kelp, comprising the steps of passing heated air having an initial temperature of 1200°–1800° F. in contact with a continuous stream of wet chopped kelp to raise the temperature of the kelp to at least 120° F. and not over 160° F. and reduce the moisture content thereof to 60–35%; forming the partly dried kelp into a continuous foraminated layer; and then circulating heated air at a temperature of 200°–260° F. through said layer while maintaining the kelp at a temperature range of 120°–210° F. until the moisture content thereof is reduced to 15–5%.

2,350,210
ARRANGEMENT IN DISTANCE METERS ACCORDING TO THE STEREO-PRINCIPLE
Evert Aulin, Lidingo, Sweden, assignor to Aga-Baltic Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application March 14, 1942, Serial No. 434,715
In Sweden March 19, 1941
2 Claims. (Cl. 88—2.7)



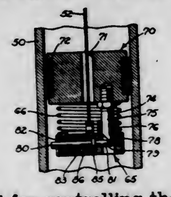
1. In a stereoscopic range finder, an objective lens, an ocular lens, a pair of members having reflecting surfaces disposed in the path of light rays between said lenses, said surfaces being inclined with respect to each other, means for adjusting the inclination of one surface with respect to the other about a single axis only, and means for adjusting the inclination of the other surface with respect to said one surface about a single axis only, said axes being disposed at an angle to each other.

2,350,211
LOOP ANTENNA WITH IRON CORE
Fritz Bergtold, Kiel, Germany; vested in the Alien Property Custodian
Application March 8, 1940, Serial No. 322,891
In Germany March 4, 1939
3 Claims. (Cl. 250—33)



2. In a radio frequency signalling apparatus, a receiver including a loop antenna, said antenna being adapted to intercept radio frequency energy, a ferro-magnetic core for said antenna comprising a length of cable made up of a plurality of iron wires, said cable being looped along a portion of its length, a shield wrapped around said looped portion, said loop antenna being wound around the outer surface of said shield, and means for transferring the radio frequency energy intercepted by said loop antenna to the receiver.

2,350,212
METHOD AND APPARATUS FOR RELATIVELY MOVING TWO ELEMENTS
Albert G. Bodine, Jr., Burbank, Calif., assignor to The Calpat Corporation, Los Angeles, Calif., a corporation of California
Application October 7, 1942, Serial No. 461,222
30 Claims. (Cl. 74—1)



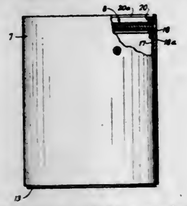
1. A method for controlling the relative motion of two elements movable relative to each other, which method includes the steps of: continuously transmitting a train of sound waves of given pattern to one of said elements in a manner tending to move same; and continuously transmitting to the other of said elements a train of sound waves of the same pattern but out of synchronism with the sound waves transmitted to said one of said elements, thus tending to move said other of said elements with respect to said one of said elements.

2,350,213
CAR ROOF
Charles David Bonsall, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application May 9, 1942, Serial No. 442,349
4 Claims. (Cl. 108—5.4)



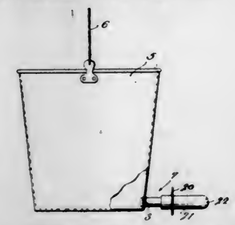
1. A car roof comprising galvanized metal roof sheets extending from side to side of the car and having upstanding flanges along their adjacent edges and a two-ply seam cap extending from side to side of the car and covering and rigidly secured to said flanges, whereby said flanges and their associated cap together function as an outside carline, said seam cap having base flanges seating on said roof sheets on opposite sides of said upstanding flanges, the outside ply of said seam cap being made of galvanized sheet metal thin enough to permit said ply to be pressed into shape without causing the galvanizing to flake, and the inside ply of said seam cap being made of ungalvanized metal, the base flange portions of said galvanized outside ply extending outwardly beyond the base flange portions of the ungalvanized inside ply and thence downwardly into contact with said roof sheets, the outwardly extended portion of the base flange portions of said galvanized outside ply cooperating with said roof sheets to form longitudinal passageways between said extended base flange portions and said roof sheets.

2,350,214
CONTAINER
Henry E. Braloff, Rockville Centre, N. Y.
Application December 29, 1942, Serial No. 470,519
7 Claims. (Cl. 229—14)



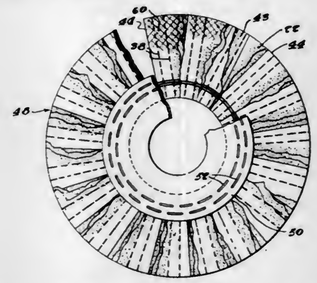
1. A container comprising a rigid outer casing, including a tubular shell, a base-forming member frictionally entered in one end thereof, an inner liner of corrugated material in frictional conforming engagement with the inner wall of said shell having its ends disposed in inwardly spaced relation to the adjacent ends of said shell, an annular ledge abutting upon the end of said liner remote from said base-forming member in frictional engagement therewith, means coacting with portions of said liner and said ledge to reinforce the frictional jointure of said liner and said ledge and hermetically seal such jointure, a closure insertable within said shell in frictional engagement therewith and abutting upon said ledge, and a head-forming member disposable upon said closure in frictional engagement with said shell, said head-forming member functioning to maintain said closure in positive engagement with said ledge and cooperating therewith in forming an hermetically sealed head for said container.

2,350,215
CALF FEEDER
Jens P. Christensen, Darrington, Wash.
Application September 30, 1942, Serial No. 460,246
3 Claims. (Cl. 119—71)



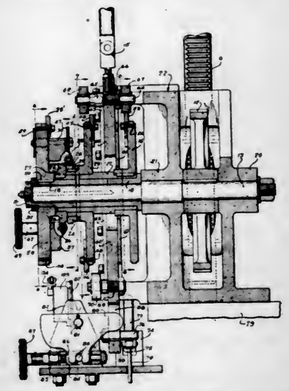
1. A feeding device of the character described, comprising a tubular member adapted to be attached to a receptacle for the passage of liquid therethrough, a pair of tubes held in spaced relation within said member, a nipple secured to the free end of said member, a check valve slidably held within said member between the ends of said tubes, and means carried by one of said tubes adapted to be engaged by said check valve for controlling the flow of liquid through said member.

2,350,216
BUFFING WHEEL
George R. Churchill, Hingham, Mass.
Application January 6, 1943, Serial No. 471,413
3 Claims. (Cl. 51—193)



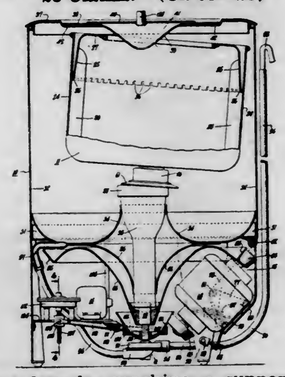
1. As a new article of manufacture, a buffing wheel comprising a closed ring of connected and radially extended fingers, each of said fingers comprising a plurality of layers of relatively narrow strips of cloth, each of said fingers having at least one radial edge impregnated with a buffing compound for substantially the length thereof and having the medial lengthwise portion of each finger unimpregnated throughout its length, whereby to facilitate absorption of fresh buffing compound in preparing said buffing wheel for use.

2,350,217
HYDRAULIC PRESS CONTROL
Paul C. Collins, Norwood, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application June 17, 1940, Serial No. 341,046
8 Claims. (Cl. 74—568)



7. A control mechanism for a hydraulic press comprising, in combination, a press control member having a reciprocable crosshead, an oscillating shaft traversing the plane of reciprocation of said crosshead, a cam disc disposed coaxially of said shaft and driven thereby to move said crosshead in one direction, and means for controlling the extent of movement of said crosshead in a part of its movement including a pivoted arm engageable with said crosshead and a screw and nut operatively connected to said arm to adjust the same.

2,350,218
WASHING MACHINE
Jay Grant De Remer, Darien, Conn., assignor to J. G. De Remer Research Corporation, Union City, N. J., a corporation of New Jersey
Application March 18, 1939, Serial No. 262,652
23 Claims. (Cl. 68—23)



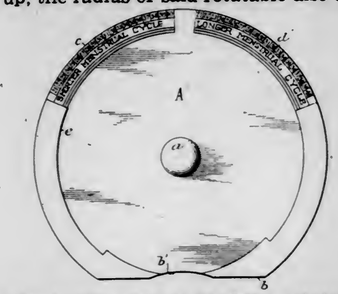
9. In a laundry machine, a supporting structure including a tank, operating drive shafts passing through the bottom of said tank and including an inner shaft and an outer shaft, a larger bevel gear on one of said shafts, a smaller bevel gear on said other shaft, a motor assembly comprising an electric motor having its main drive shaft arranged at an angle between horizontal and vertical, said motor drive shaft having bevel gears on opposite ends engaging said operating drive shaft bevel gears, a support pivotally mounted on said supporting structure, means pivotally mounting said motor on said support, and spring means operating between said motor assembly and supporting structure to yieldably hold said motor gears in engagement with said operating shaft gears.

19. In a centrifugal machine, an open top basket, means for supporting said basket for rotation about a vertical axis and to permit precession about a point under the center of mass of the basket, a plurality of driving devices applied to the underside of said basket, one of said driving devices spinning said basket substantially about its own axis, the other of said driving devices imparting a circular movement to said basket axis about a true vertical line whenever the basket axis departs from true vertical.

2,350,219
MANUAL AUTOMATIC DEVICE FOR INDICATING THE FAVORABLE PERIODS FOR CONCEPTION IN WOMEN
Manoel Dias dos Santos Brandão, Cambuquira, Brazil
Application July 15, 1941, Serial No. 402,534
In Brazil December 26, 1940
4 Claims. (Cl. 40—115)

3. A device of the character described comprising a fixed base disc element having a cut-away portion and a central projection, a rotat-

able sector element having subdivisions mounted on said base element through said projection, a second rotatable sector element having subdivisions mounted over said first sector element through said projection, a rotatable disc element over said sector elements, a section of said fixed base disc element being provided with a built up strip corresponding in height to the height of the central projection, a fixed cover disc element having a cutaway portion secured to said central projection and to said built up strip whereby said rotatable elements may be rotated between that portion of the base disc element which is not built up, the radius of said rotatable disc element



being shorter than the radii of the rotatable sectors, whereby only the subdivisions of said rotatable sectors are uncovered, said rotatable elements being of such size that the indicia along their perimeters will be exposed through the cutaway portion in the cover disc element, said rotatable disc element having its entire circumference subdivided into 120 subdivisions comprising four series of consecutive numbers, numbered 1 to 28, 1 to 31, 1 to 30 and 1 to 31, said subdivisions being so arranged that they fall in line under the subdivisions of the rotatable sectors, said cutaway portions in the base and cover disc elements exposing the rotatable elements to facilitate their rotation.

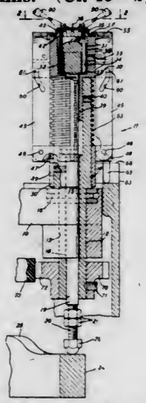
2,350,220

CHUCK UNIT PARTICULARLY ADAPTED FOR STEM MAKING MACHINES

John Ehret, Jr., Trenton, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 29, 1941, Serial No. 385,813

6 Claims. (Cl. 49—2)



1. A chuck unit for a stem making machine comprising a body having a central opening, an annular element secured to the body within the opening for supporting a plurality of wires, means for removably holding a glass member so that the wires extend through apertures therein, a reciprocable plunger poistioned within the annular element, and means for reciprocating the plunger to cause it to engage the under surface of the glass member at predetermined times.

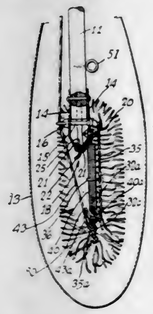
2,350,221

DUST MOP WITH ATTACHABLE DUST BAG

Frederick Eisenhut, Irvington, N. J.; Wilhelmina Eisenhut executrix of said Frederick Eisenhut, deceased

Application May 20, 1941, Serial No. 394,347

8 Claims. (Cl. 15—229)



1. In combination, a mop handle, a clamp fixed to the lower end thereof, a tubular member on said clamp, a mop head comprising twisted wire carrying mopping elements, said mop head having a portion rotatably mounted within said tubular member, looped portions extending from the first portion, a coil spring interconnecting the clamp with a portion of the mop head spaced from said clamp, a string connected to the mop head substantially at the point where the coil spring is attached to the mop head, and means to attach the string to the handle, one of said loop portions having a free end projecting into one end of said coil spring.

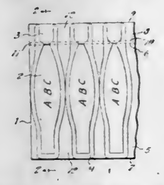
2,350,222

CIGAR BAND

Abraham Fichman, Neponsit, N. Y.

Application June 13, 1942, Serial No. 446,979

3 Claims. (Cl. 40—2)



1. A cigar band comprising a sheet of paper of predetermined size and shape, printed matter on the face thereof, a layer of organic solvent soluble varnish of predetermined thickness on the face thereof, a substantial area at one of the lateral edges of said face being free from varnish, a layer of water soluble gum of approximately the same thickness on said unvarnished area and substantially contiguous with the varnished area, the ends of said band being adapted to be united without the application of heat.

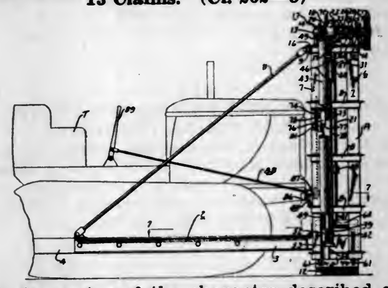
2,350,223

MATERIAL BREAKING APPARATUS

Frederick C. Gedge, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California

Application October 25, 1941, Serial No. 416,439

13 Claims. (Cl. 262—8)



1. Apparatus of the character described comprising a frame; a weight member mounted for up and down movement in said frame; power means for lifting said member upwardly including a cable connected to said member, a spool for winding and unwinding of said cable, and drive interrupting and establishing mechanism connectable to said spool; means for automatically disconnecting said drive interrupting and establishing mechanism from said spool upon lifting of said member to a predetermined height to allow said member to fall by gravity; and means associated with said spool to arrest movement thereof when falling of said member is arrested to preclude fouling of said cable.

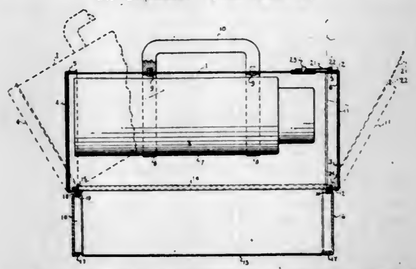
2,350,224

EXTENSIBLE LUNCH BOX

Frank Giberson, South Lyons, Mich.

Application April 16, 1943, Serial No. 483,323

12 Claims. (Cl. 206—4)



1. A lunch box comprising a hollow, open-bottomed upper section having a removable closure at an end thereof, a lower section having the form of an open-topped container proportioned to be nested within the upper section, and means including said closure for retaining the lower section within the upper one and for alternatively supporting the lower section in a downwardly projecting relation to the upper one.

2,350,225

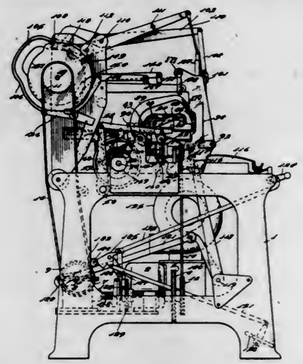
METHOD OF AND APPARATUS FOR MAKING BUNCHES

Joseph W. Giles and William J. Giles, Belleville, N. J., assignors to Jersey Cigar Machines, Inc., Belleville, N. J.

Application December 28, 1940, Serial No. 372,058

19 Claims. (Cl. 131—21)

1. The method of making a cigar bunch, which consists in feeding long filler tobacco in stream form, with the depth of the stream less than that of a bunch charge to be formed, removing tobacco from the stream in small quantities less than a bunch charge, cutting each small quantity to a desired length transversely of the line of feed to form quantities of substantially uniform lengths,



assembling such small cut quantities one above the other until a complete bunch charge has been built up, stopping the feed as soon as a single, complete bunch charge has been built up, pressing each of said small quantities downwardly as the bunch charge is being built up, and applying a binder to the bunch charge.

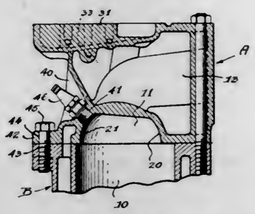
2,350,226

CYLINDER HEAD CONSTRUCTION

Earl Ginn, North Muskegon, Harold Leslie Casselman, Muskegon, and Dana A. Campbell, Spring Lake, Mich., assignors to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia

Original application April 9, 1942, Serial No. 438,244. Divided and this application February 11, 1943, Serial No. 475,518

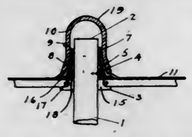
5 Claims. (Cl. 123—173)



5. A cylinder head structure for an internal combustion engine comprising a structure having an engine combustion chamber and a laterally recessed portion adjacent said combustion chamber and overlying a portion thereof, a spark plug opening extending through the wall directly separating the recessed portion from said combustion chamber, and a ledge lying directly below said spark plug opening and overlying the cylinder block, and cylinder head bolts securing said ledge to the cylinder structure, said cylinder head having a rocker arm chamber, said recessed portion extending inwardly underneath said rocker arm chamber, said ledge being of greater thickness adjacent the combustion chamber, the ledge portion aforesaid having a cooling jacket portion and means connecting said jacket portion with the cylinder jacket, said means located

substantially immediately below the spark plug, said means and jacket portion underlying the spark plug and serving to uniformly cool the cylinder head portion in the vicinity of said plug, said jacket portion constructed in open communication with the remainder of said cylinder head coolant jacket.

2,350,227
FERRULE CONSTRUCTION FOR UMBRELLA COVERS
Simon I. Goldstein, Baltimore, Md.
Application May 7, 1943, Serial No. 486,002
3 Claims. (Cl. 135—34)



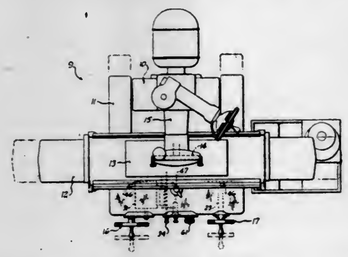
1. In combination with an umbrella stick, of a covering fastener comprising a ring flange rigidly secured to the stick at a predetermined location thereon, a rib-hinge-ring slidably mounted on the stick and adapted to hold umbrella ribs hinged thereto, the ribs being restricted in their opening movement by said flange when adjacent thereto, an inner ferrule mounted on the stick and resting flatly against the said flange and an outer ferrule mountable over the inner ferrule adapted to bind the umbrella covering therebetween and against the flange so as to secure same in place mechanically without sewing.

2,350,228
DRAWER SUSPENSION
Harvey Hanes, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Application March 8, 1941, Serial No. 382,436
9 Claims. (Cl. 45—77)



5. In a drawer suspension supporting a drawer for movement into and out of a compartment in a casing, wherein a track is mounted on each side wall of the casing in said compartment extending from front to rear thereof, a track is provided on each side of the drawer, an intermediate track is provided at each side of said drawer supported by said casing tracks to form a support for said drawer tracks, bearing rollers at the front ends on said casing tracks support said intermediate tracks, bearing rollers at the front ends of said intermediate tracks support said drawer tracks, said bearing rollers transmitting the weight of said drawer from said drawer tracks to said intermediate tracks and to said casing tracks, said drawer and intermediate tracks having a construction that provides for limited sidewise movement of each track relative to the other and said casing track until the sides of said tracks engage one another, and stop means limits the relative movement of said drawer tracks and intermediate tracks to each other and said casing tracks, the combination therewith of a spacer member mounted on the front end of each casing track in transversely extending relation adjacent the support of said tracks by said bearing rollers with one end extending inwardly beyond the inner sides of the casing tracks to engage the sides of the intermediate tracks at the front end of said casing and retain the sides thereof in spaced relation.

2,350,229
SURFACE GRINDER AND AUTOMATIC CONTROL MEANS THEREFOR
John A. Harrington, Minneapolis, Minn., assignor to Continental Machines, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application November 27, 1942, Serial No. 467,077
10 Claims. (Cl. 51—233)



1. In a metal working machine of the type having a base, a saddle mounted for reciprocatory movement on the base, and a work supporting table mounted for reciprocatory movement on the saddle but in a direction crosswise to the direction of saddle motion, means for automatically advancing the saddle with an intermittent indexing motion in timed relation to reciprocatory movement of the work table to thereby enable the surface of a piece of work on the table to be acted upon progressively by a tool operating in a relatively fixed working zone, comprising: power means for advancing the saddle including an electric motor; a normally open switch for connecting the motor with a source of E. M. F.; switch actuating means movable when subjected to fluid pressure to momentarily close said switch for a period of time depending upon the speed of fluid pressure induced motion of the switch actuating means; means by which the pressure to which said switch actuating means and consequently its speed of pressure induced motion may be varied to cause advance of the saddle different distances; and means actuated by a part on the work table substantially at the times said work table reaches its extremes of reciprocatory movement for connecting said switch actuating means with a source of fluid under pressure.

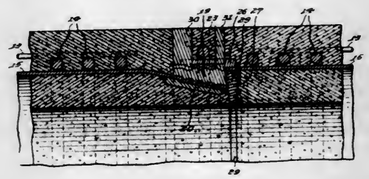
2,350,230
METHOD OF REACTING PINENE AND FORMALDEHYDE AND THE PRODUCT OBTAINED
Mortimer T. Harvey, South Orange, N. J., assignor to Harvel Research Corporation, a corporation of New Jersey
No Drawing. Application December 26, 1942, Serial No. 470,225
2 Claims. (Cl. 260—631.5)

1. The method for producing a liquid organic condensation product having a fraction thereof whose boiling point is above 175° C. comprising

heating a mixture comprising pinene, an aqueous solution of formaldehyde and an acid catalyst, the mole ratio of said pinene to said formaldehyde in said mixture being between about 1 to 1 and 1 to 7, the mole ratio of said pinene to said acid catalyst in said mixture being between about 1 to .1 and 1 to .01.

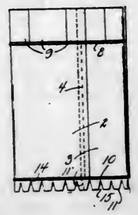
2. A liquid organic condensation reaction product having a fraction whose boiling point is above 175° C. and obtained by heating a mixture comprising pinene, an aqueous solution of formaldehyde and an acid catalyst, the mole ratio of said pinene to said formaldehyde in said mixture being between about 1 to 1 and 1 to 7, the mole ratio of said pinene to said acid catalyst in said mixture being between about 1 to .1 and 1 to .01.

2,350,231
JOINT FOR CONCRETE PIPE
Edward Hering, Beverly, N. J., assignor to United States Pipe and Foundry Company, a corporation of New Jersey
Application August 4, 1941, Serial No. 405,322
2 Claims. (Cl. 285—112)



1. In a bell and spigot joint for sections of concrete pipe in which the spigot end is formed by a reduced extension and the bell end is formed by a peripheral extension of greater length than said reduced extension and having throughout its length an inside diameter greater than the outside diameter of said reduced extension to provide a packing space between said extensions and between the end of said reduced extension and the bottom wall of said bell, the improvement which comprises a resilient sealing gasket covering the bottom wall of said bell and compressed between said wall and the end of said reduced extension, and a poured, fusible packing material filling the space between the overlapping portions of said extensions.

2,350,232
CARTON
Harry E. Hines, Monroe, Mich., assignor to Consolidated Paper Company, Monroe, Mich., a corporation of Michigan
Application February 14, 1942, Serial No. 430,935
8 Claims. (Cl. 229—5.5)



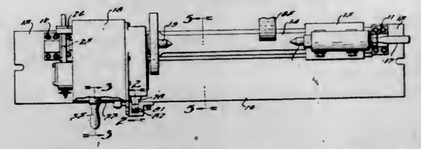
1. For a carton, side wall structure of a strip having termini overlapping and anchored together adapted to be collapsed and having from one end an endless series of flaps, said structure being provided with scoring on the inner side spaced inward from the flaps, the flaps being symmetrical throughout from the outer terminus to the passing of the inner terminus thereunder, from which outer terminus the inner terminus has a fractional flap portion at the inner side of the overlapping and there anchored to the full flap of the outer terminus of the side wall structure in thereby completing an endless sealing seat in the scoring, and a partition in said seat and against the outer side of which the flaps are anchored.

2,350,233
APPARATUS FOR THE PRODUCTION OF METAL
Robert K. Hopkins, New York, N. Y., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application February 25, 1943, Serial No. 477,019
12 Claims. (Cl. 219—8)



1. In apparatus for producing metal, in combination, means for feeding a hollow electrode to a gap whereat the electrode is fused by the discharge of electric current, supply means for granular material to be subjected to the electric current discharge at said gap, means including a conduit for conducting the granular material from said supply means into the electrode, said conduit extending into said electrode a substantial distance beyond the point at which said electrode last contacts said feeding means, and means carried by said conduit restricting the space between the hollow electrode and said conduit effective to prevent pressure surges within the hollow electrode from moving substantial quantities of the granular material to said feeding means.

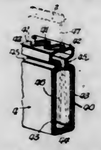
2,350,234
GRINDING MACHINE
Frank J. Horton, Hamtramck, Mich., assignor to Super Tool Company, Detroit, Mich., a corporation of Michigan
Application November 9, 1940, Serial No. 364,947
1 Claim. (Cl. 51—234)



In a grinding device, a housing mounted for pivotal movement, a work supporting shaft in said housing, a second shaft in said housing geared to said work supporting shaft, a third shaft in said housing, a plurality of gears associated with said second and third shafts for se-

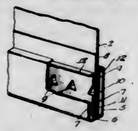
lectively changing the speed therebetween, a plate on said third shaft having a slot, a cam part having a projection disposed in said slot and containing an elongated aperture, an eccentric on said third shaft disposed in said aperture for adjusting the eccentricity of the cam part, and a link encompassing said cam part for causing said housing to oscillate when one of said shafts is driven.

2,350,235
WINDOW SHADE ATTACHMENT
William Johnson, Chicago, Ill., assignor to Harold Warp, Chicago, Ill.
Application July 1, 1940, Serial No. 343,360
13 Claims. (Cl. 160—386)



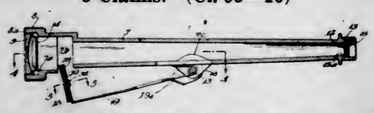
1. A window shade comprising a length of shade material, a fold in the lower end of said material, and means for gripping the folded end of said shade material independently of the use of slats or the like comprising a hollow expansible member having a slot for receiving the folded end of the shade material, and a bottom bar member received over the hollow member and providing for squeezing the hollow member to hold the shade material to the hollow member.

2,350,236
WINDOW SHADE ATTACHMENT
William Johnson, Chicago, Ill., assignor to Harold Warp, Chicago, Ill.
Original application July 1, 1940, Serial No. 343,360. Divided and this application November 3, 1943, Serial No. 508,816
5 Claims. (Cl. 160—398)



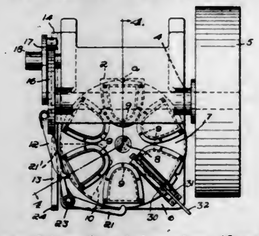
2. A bottom bar for window shades comprising an elongated substantially U-shaped member having spaced legs, the upper longitudinal edges of the spaced legs being bent to provide flanges, an end of the material of the window shade being receivable between the spaced legs, and a plurality of teeth on the member adapted to be embedded in the said shade material.

2,350,237
PHOTOGRAPHIC APPARATUS
George Kende, Dobbs Ferry, and Sten Johanson, New York, N. Y., assignors to Universal Camera Corporation, New York, N. Y., a corporation of New York
Application December 18, 1941, Serial No. 423,436
5 Claims. (Cl. 95—10)



4. A combined view finder and exposure meter for photographic cameras, including an elongated housing having an object lens mounted in one end thereof, said housing tapering toward the opposite end and terminating in an eye-piece provided with an observation lens, said housing defining a light passage for the projection of an image, upon which said object lens is focused, to said observation lens, a slot in said housing adjacent said object lens, an elongated member hinged at one end thereof to said housing and extending externally of this latter toward the object lens, a support carried by said member at an angle thereto, a light-measuring unit mounted on said support, said unit comprising a plurality of translucent elements fixedly assembled in superimposed relation to each other and embodying a series of sections of graduated light permeability and symbols readable against said sections, means for manually actuating said elongated member to move said support through said slot to locate said light-measuring unit in the light passage, and means between said housing and said member automatically operative to normally maintain said support and said light-measuring unit in a position externally of said light passage.

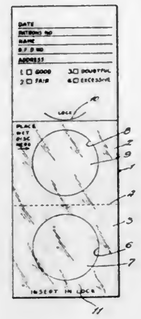
2,350,238
MACHINE FOR TRIMMING THE FLASH FROM RUBBER HEELS AND THE LIKE
Chesterton S. Knight, Brockton, Mass., assignor to Geo. Knight & Co., Brockton, Mass., a copartnership
Application July 25, 1942, Serial No. 452,314
16 Claims. (Cl. 164—20)



1. In a machine for trimming the flash from molded rubber heels, the combination with a rotary feed plate having a series of cavities therein each shaped to receive a heel loosely, each of said cavities being closely surrounded by a cutting edge over which the flash on the heel in the cavity projects, a base plate on which said feed plate is mounted for rotation, a platen movable toward and from said base plate, means for reciprocating said platen, and mechanism for rotating said feed plate to carry the heels positioned in said cavities successively through the path of movement of said platen, whereby the platen will compress and laterally expand the heels successively in said cavities and will simultaneously trim off the flash against said cutting edges, said feed plate being movable over an area in which the base plate does not form a bottom for said cavities, whereby the heels will drop out of the cavities as they are brought successively over said area after the flash trimming operation has been performed on them.

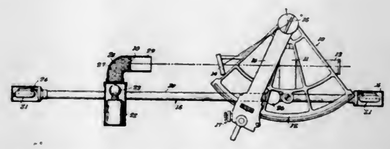
2,350,239
SEDIMENT TEST RECORD CARD
Milton Kohn, Chicago, Ill.
Application September 4, 1942, Serial No. 457,285
5 Claims. (Cl. 40—158)

1. A sediment testing device comprising a card having a rear leaf and a front leaf having a hinge connection with the rear leaf to enable it to be folded down on the rear leaf, said front leaf having a sight opening therein, said rear leaf having a sight opening therein having its boundary substantially coincident with respect to the boundary of said front opening when the leaves are folded together, transparent sheet means secured to said leaves, respectively, foldable with said leaves and extending across the openings thereof, and a filter disc secured between the



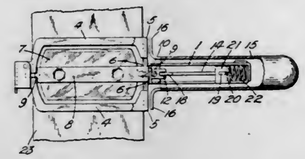
front and rear sheet means by adhesion of the filtered material to one of said transparent sheet means whereby the sediment side of the filter disc is visible through either one or the other of said sight openings, the boundaries of said sight openings being substantially co-incident with the boundary of said filter disc whereby the filtered out material will be completely visible through one of said sight openings no matter in which one of four possible positions the filter disc is placed.

2,350,240
SEXTANT
Fayette Leister, Detroit, Mich., aud Herbert A. Leister, Philadelphia, Pa.
Application July 9, 1941, Serial No. 401,618
7 Claims. (Cl. 88—2.2)



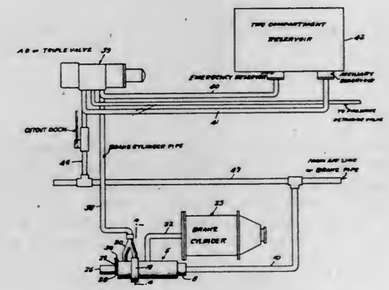
1. A sextant or like instrument comprising the combination with a frame, an eye-piece and a horizon glass mounted on said frame and providing a line of sight, and a pivotally mounted index glass, of a light signal in said line of sight and mounted on said frame and means for rendering said light signal effective when said instrument is leveled along the line of sight and transversely thereof and ineffective when not leveled, said means including an electric lamp, a lamp circuit, one or more leveling switch devices in said circuit arranged for leveling longitudinally of the line of sight and one or more leveling switch devices in said circuit arranged for leveling transversely of the line of sight, said devices being arranged in series in said lamp circuit.

2,350,241
STROPPING DEVICE FOR SAFETY RAZOR BLADES
Charles William Godson Little, deceased, late of Enfield, England, by Barclays Bank Limited, executor, London, England, assignor to Francis Stanley Lowe, Shiplake, Henley-on-Thames, England
Application October 20, 1942, Serial No. 462,761
In Great Britain October 30, 1941
2 Claims. (Cl. 51—153)



1. Device for stropping safety razor blades, comprising a body, a blade holder pivotally mounted upon said body in such manner as to be capable of rocking about its longitudinal axis, a rocking device connected to said blade holder, a finger-held operating part of spring blade form having one end in operative relation with said rocking device, means for mounting said part by its other end in said body in such manner that said one end is capable of resiliently yielding in a direction at right-angles to the plane of said part and said part is capable of moving in said plane to engage with said rocking device on one or the opposite side of the pivotal axis of said rocking device, and a spring mounted to be operative between said body and said part on said moving of said part in said plane so that such moving takes place against resistance of said spring.

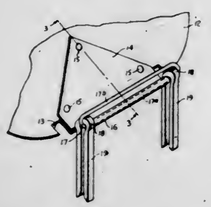
2,350,242
AIR BRAKE CYLINDER RELEASE VALVE
Lawrence W. McAlpine, Savannah, Ga., assignor of twenty per cent to Lawrence W. McAlpine, Jr., Savannah, Ga., and twenty per cent to William E. Corr, Norfolk, Va.
Application September 24, 1941, Serial No. 412,174
6 Claims. (Cl. 303—68)



1. In an air brake system comprising a reservoir, an automatic valve, a main air line connected to said automatic valve, and a brake cylinder, a release valve arranged between said brake cylinder and said automatic valve, said release valve being operable to close communication between said automatic valve and said brake cylinder and bleed said brake cylinder to the atmosphere, said release valve comprising a main cyl-

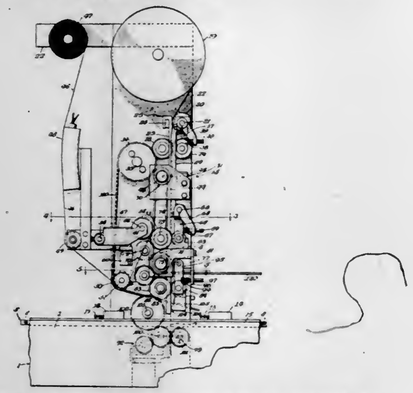
inder having a reduced external cylinder at one end in communication with said main cylinder and an internal cylinder opening into said main cylinder at the opposite end of said main cylinder, said reduced external cylinder being connected to said main air line, a bleed port in the wall of said main cylinder opening to the atmosphere adjacent said reduced external cylinder, a brake cylinder port located longitudinally inwardly from said bleed port, first and second automatic valve ports longitudinally spaced adjacent the opposite end of the cylinder, a compound piston comprising a piston rod reciprocable in said main cylinder, said piston rod having a reduced piston to work in said reduced external cylinder, a pair of main pistons spaced along said piston rod and working in said main cylinder, and a solid piston working through said internal cylinder, said piston rod and said main pistons being arranged to normally occupy positions in which communication between said first and second ports is cut-off within said main cylinder and wherein communication between said brake cylinder port and said bleed port is cut-off within said main cylinder and said brake cylinder is in effective condition, latch means on said main cylinder arranged to engage said solid piston to retain said normal positions of the main pistons, said latch means being releasable from said solid piston to permit the air pressure from one of said automatic valve ports to work against one of said main pistons to move said piston rod and pistons to positions in which said bleed port and said brake cylinder port are in communication to bleed the brake cylinder.

2,350,243
UTENSIL COVER
Lauchlin John MacKay, Chapman Camp, British Columbia, Canada
Application November 2, 1942, Serial No. 464,238
In Canada October 3, 1942
1 Claim. (Cl. 220—31)



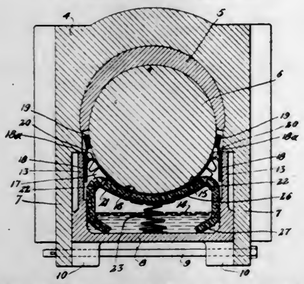
The combination with a cooking utensil, of a cover plate, a hinge plate bent to overlap the top and bottom faces of the cover plate at its marginal edge and secured thereto, said hinge plate having a sleeve formed at its edge beyond the edge of the cover plate, an elongated closed wire loop having one side journaled in the sleeve of said hinge plate with the opposite side disposed above the sleeve to form a back stop for said cover plate when the cover plate is in fully opened position, the ends of the loop extending beyond the ends of the sleeve, and resilient substantially parallel U-shaped clamps straddling the said one side of the loop at each end of the sleeve and crimped in fixed engagement with said one side, the legs of said clamps being spaced apart to resiliently grip the wall of the utensil to detachably secure the cover plate to the utensil.

2,350,244
FEEDING MECHANISM FOR WRAPPING MACHINES
Clarence J. Malhiot, Oak Park, Ill., assignor to F. B. Redington Co., Chicago, Ill., a corporation of Illinois
Application November 29, 1940, Serial No. 367,813
21 Claims. (Cl. 93—1)



1. A wrapping machine comprising means to feed a web of wrapping material continuously to a predetermined position, means for cutting the web of material into sheets, means to apply a continuous strip of tape to a plurality of said cut sheets, and means to cut the tape along a marginal line of each sheet.

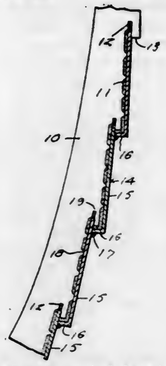
2,350,245
JOURNAL LUBRICATOR
Frederick W. Martin, Greenwich, Conn.
Application December 18, 1941, Serial No. 423,456
5 Claims. (Cl. 308—88)



1. Lubricating means for the journal of a railway vehicle axle, said means including an oil reservoir under the journal, a plate having a relatively extended portion thereof curved to fit and contact with the journal, perforations in said curved portion, an absorbent wick-like pad member below said plate, a follower plate below said pad member curved to correspond generally to the curvature of the journal contacting plate but on a greater radius, said plates normally being arranged to provide a gradually increasing distance therebetween from the low point beneath the journal outwardly and upwardly toward each side of the journal, marginal portions on said pad member arranged to hang downwardly from the follower plate and to project into the oil in the reservoir and means for urging the follower plate toward the journal plate to support said pad member in contact with the perforated plate,

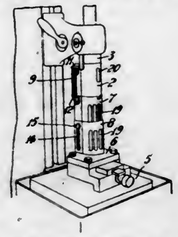
all of said parts being constructed and arranged to permit the side portions of said pad member to "fluff" up slightly under normal service conditions.

2,350,246
WELDED BOAT CONSTRUCTION
John F. Mercer, Washington, D. C.
Application September 9, 1943, Serial No. 501,702
7 Claims. (Cl. 114—79)



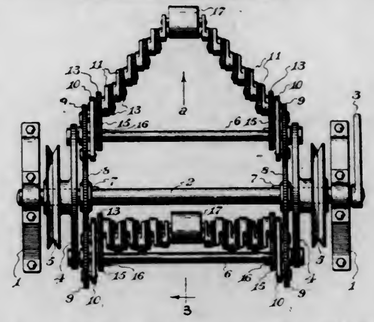
1. A welded sheet metal boat comprising ribs formed with stepped outer edge portions and an upwardly projecting notch between certain of said stepped portions, plating members engaging on said stepped portions, the upper edge of each plating members engaging in said notch, said members including a relatively flat body and an inwardly projecting lower flange, the lower flange of a succeeding plating member overlapping the upper portion of a preceding plating member, and welding securing the flange of a succeeding member to the upper portion of a preceding member and also securing said members to said ribs.

2,350,247
MACHINERY GUARD
Harold Vincent Newell, Coventry, England, assignor of one-fourth to Arthur Morris, one-fourth to George Enoch Smith, and one-fourth to Frank Allen Logan, all of Coventry, England
Application July 12, 1943, Serial No. 494,397
In Great Britain November 13, 1942
1 Claim. (Cl. 74—612)



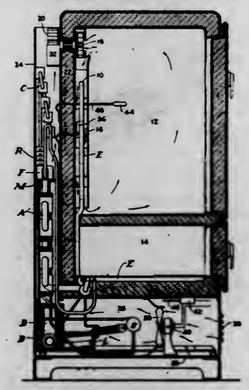
A guard for machines having a reciprocating tool and a stationary work-piece, comprising a longitudinally adjustable channel-section member adapted to enclose the work-piece and having inspection slots, a second channel-section member adapted to enclose the tool and having a clip for attachment to a head carrying said tool, said second channel-section member having a telescopic engagement with said first member, and springs arranged between said members and adapted to hold the first member stationary during movement of the second member.

2,350,248
DEVICE FOR OBTAINING DIRECTIONAL FORCE FROM ROTARY MOTION
Aubrey C. Nowlin, Tulsa, Okla.
Application November 30, 1942, Serial No. 467,356
6 Claims. (Cl. 74—61)



1. A machine for obtaining directional movement from rotary, said machine comprising a stationary shaft, discs rotatably mounted on said shaft, auxiliary shafts spaced outwardly from the stationary shaft, extensible foldable inertia arms carried by the auxiliary shafts and adapted to be extended at predetermined points as the discs are rotated, and to be gradually folded toward the axis of the stationary shaft after passing the directional point, said extensible members being formed from a plurality of cranks pivotally connected, gear connections between said cranks, gears rotatably mounted on the auxiliary shafts, gears fixed against rotation on the stationary shaft and meshing with the gears on the auxiliary shafts, members carried by the rotatable gears on the auxiliary shafts and to which cranks of the arms are pivoted, the inner cranks of the arms having their gears in mesh with stationary gears on the auxiliary shafts, all of said gearing having a planetary movement whereby the arms are folded and then extended to full length during a complete revolution of the discs.

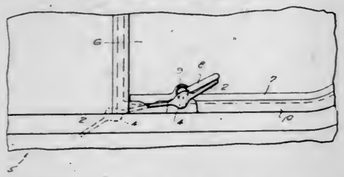
2,350,249
REFRIGERATION
Ralph C. Osborn, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application September 4, 1941, Serial No. 409,448
17 Claims. (Cl. 62—5)



6. A domestic refrigerator comprising, a cabinet having an insulated food storage compart-

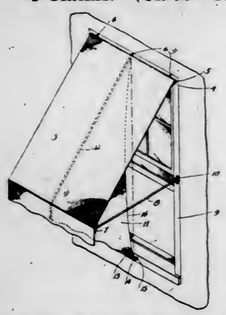
ment and a separate air passage for circulating air over the heat rejecting parts of the apparatus, a turbine in said air passage constructed to be driven by air flowing therethrough, and a fan positioned in said food storage compartment and connected to said turbine to be driven thereby.

2,350,250
VEHICLE OPENER
Attil Pietrobon, Allentown, Pa., assignor of one-half to John F. Stine, Jr., Allentown, Pa.
Application March 10, 1943, Serial No. 478,732
2 Claims. (Cl. 81—3)



1. An opener for vehicle ventilators of the type including a locking lever and a retaining latch therefor, comprising a rod insertible in the vehicle adjacent the ventilator, an arm extending laterally from one end of the rod, the arm having a wide intermediate member engageable with the latch for actuating same to inoperative position when the rod is pulled outwardly of the vehicle, an inwardly projecting element on the free end of the arm engageable with the locking lever for actuating same to inoperative position upon rotating the rod while holding the latch released by the intermediate member of the arm, and a handle member on the other end of the rod for pulling and rotating it.

2,350,251
AWNING
Thomas C. Powers, Upper Darby, Pa.
Application September 25, 1941, Serial No. 412,233
5 Claims. (Cl. 98—44)

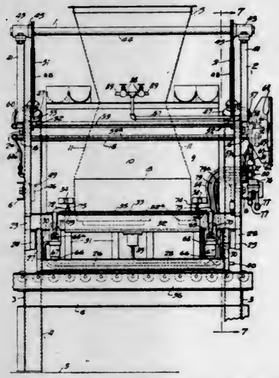


1. A combined window awning and ventilating device comprising a substantially rectangular top shading member with means at the upper edge thereof whereby it may be secured to a building and means to hold the lower end out from the window the said shading member sloping outwardly and downwardly from the building, a triangular jib member attached along one edge to the central part of the lower surface of the top member, and means at the lower corner of the jib whereby it may be secured to a building, the said jib when secured extending at an angle to the top member and being adapted to deflect wind into the open window.

2,350,252
SHOE FILLER COMPOSITION AND METHOD OF MAKING
Ernest D. Sackett, Winchester, Mass., assignor of one-half to North American Holding Corporation, Syracuse, N. Y., a corporation of New York, and one-half to Parshad Holding Corporation, Syracuse, N. Y., a corporation of New York
No Drawing. Application July 11, 1941, Serial No. 401,975
21 Claims. (Cl. 106—38)

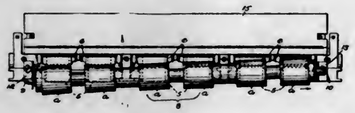
1. Method of making shoe filler compositions, comprising as steps reducing an unrun fossil gum of the group consisting of Congo gum and Zanzibar gum to finely divided condition, dispersing the same, swelling the dispersed particles in an organic liquid swelling agent to form elastic flocs, and mixing with a granular resilient body material.

2,350,253
COREMAKING MACHINE
Charles H. Shaffer, Lancaster, N. Y.
Application July 21, 1941, Serial No. 403,418
9 Claims. (Cl. 22—10)



1. In a core making machine, a frame, transversely spaced vertically extending guide means adjustably secured to said frame, sliding means associated with said guide means, a cradle pivotally connected to said sliding means, fluid actuated means associated with said frame and adjustably connected to each of said sliding means for moving the latter vertically, a core box including a cover plate secured to said cradle, and fluid actuated clamping means attached to said cradle and adapted to engage said cover plate.

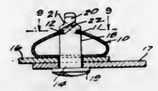
2,350,254
TEXTILE DRAFTING MECHANISM
Benjamin C. Shaw, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application February 26, 1942, Serial No. 432,417
12 Claims. (Cl. 19—140)



1. In a drawing mechanism of the character described, the combination with a series of

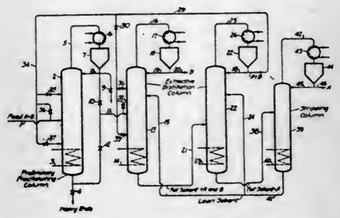
drafting roll sections arranged in axial alignment, of a clearer roll of generally cylindrical form but having circumferential cleaning surfaces tapering from opposite end portions of the roll toward an intermediate portion of smaller diameter than said end portions, and means supporting said clearer roll in contact with said drafting roll sections and in a generally parallel relationship thereto but with the plane of its axis intersecting the plane of the axis of said drafting roll sections at an acute angle of such magnitude as to produce both tangential and endwise rubbing actions on said drafting roll sections.

2,350,255
FASTENING DEVICE
Winsor Shippee and Carl C. Shippee, Red Bank, N. J.
Application December 6, 1941, Serial No. 421,904
3 Claims. (Cl. 85—36)



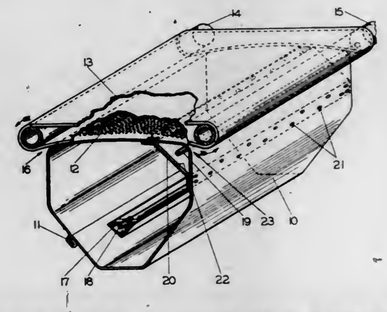
1. A fastening device comprising, in combination, a spring plate member in the form of a relatively long strip, the side edges of said strip being bent over upon the body of the strip and lying in spaced relation to each other and to the body of said strip, said member having a plurality of spaced openings substantially along the center line thereof; and a plurality of studs each provided with helical grooves adapted to engage the edges of said strip and to have interlocking relation therewith, the inner ends of said grooves being deepened to permit said side edges to spring towards each other when said stud is turned sufficiently so that said edges are at the inner ends of said grooves.

2,350,256
EXTRACTIVE DISTILLATION PROCESS
Russell N. Shiras, Oakland, and Mott Souders, Jr., Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 8, 1942, Serial No. 446,312
3 Claims. (Cl. 202—67)



1. A process for separating a relatively narrow boiling range mixture comprising components A and B, component A having a relatively lower vapor pressure in the presence of a relatively high boiling selective solvent than component B, comprising the steps of distilling said mixture in a first distillation zone in the presence of said solvent under conditions to produce a first overhead vapor rich in B and leave a first bottom product comprising said solvent containing dissolved A and a minor portion of B, further distilling said first bottom product in a second distillation zone in the presence of a further added quantity of said solvent under conditions to produce a second overhead product comprising vapors of A and B and to leave a second bottom product comprising solvent rich in dissolved A, distilling said second bottom product in a third distillation zone to separate A from said solvent, returning at least a part of said recovered solvent to said first and second distillation zones, returning at least a part of said second overhead product to said first distillation zone, and introducing it at a level thereof where the composition of material in said zone is substantially the same as the composition of the returned material.

2,350,257
GASEOUS DEVELOPING APPARATUS
Herbert H. Steglich, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application November 13, 1940, Serial No. 365,559
1 Claim. (Cl. 95—94)

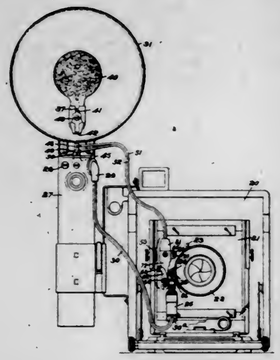


Apparatus for developing exposed, light sensitive materials which includes in combination, a chamber having as one side thereof a convex wall, an endless gas-tight band in pressure contact with the wall and by and between which and the wall exposed material is moved, means for introducing developer within the chamber and for vaporizing it, perforations in that part of the wall over which the material is first moved by the band and a smooth unperforated surface extending from the perforated part of the wall to the edge thereof at which the pressure between the band and wall surface is released, a partition within said chamber so disposed as to insulate a part thereof extending from the perforated section of the wall to a point which includes the terminal point of pressure between the band and wall, and heating means within the insulated section, whereby exposed material will, as it is moved over the chamber wall, first be exposed to the developing vapor and then be calendered as it is passed under pressure between the band and smooth, heated surface of the wall.

2,350,258
PHOTOFLASH SYNCHRONIZER UNIT AND EQUIPMENT
Oscar Steiner, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application August 4, 1942, Serial No. 453,504
8 Claims. (Cl. 67—29)

7. In combination, a photoflash, basic, synchronizer equipment for cameras, and a cooperating unit readily inserted as an entirety in the said equipment for the purpose of employing in said

basic synchronizer equipment a bulb of very short ignition-delay without making timing adjustment of said equipment, said basic synchronizer equipment having among other parts means upon which can be inserted a flash bulb of longer ignition delay than that of said inserted unit, and an electromagnetic operator in an electric circuit of the equipment and connected to a shutter of the camera, the said inserted unit including the following parts, namely: a socket for a photoflash bulb of very short ignition-delay; a reflector particularly adapted to such very short ignition-delay bulb and connected to the socket thereof; means for detachably attaching said connected reflector and socket to the basic synchronizer equipment without change in timing adjustment; circuiting means including two conductor wirings



51, 52 insulated from each other by insulation 49 and including a conducting part 50 to which said conductor wiring 52 is connected and which conducting part is directly receivable on the said central contact member 45 of the basic synchronizer equipment and including a metal rod 46 engaging the contact of said very short ignition-delay bulb and to which the conductor wiring 51 is electrically connected, said insulation 49 being between said rod 46 and said conductor wiring 51; and an auxiliary switch constituting delay means and electrically connected to said conductor wirings 51, 52 and having a movable part for operatively connecting it to the operated part of the electromagnetic operator of the basic synchronizer equipment and having means for attachment to the camera in close proximity to the said electromagnetic operator and to the shutter.

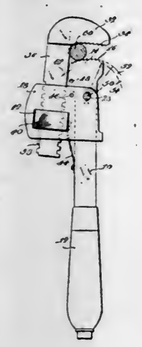
2,350,259

PIPE WRENCH

Charles D. Stiteler, Gothenburg, Nebr.

Application September 8, 1941, Serial No. 410,066
1 Claim. (Cl. 81—105)

A pipe wrench comprising a handle having a first jaw at one end thereof, a second jaw having a threaded shank, a swivel casting having a pivotal connection with said handle, said pivotal connection including aligned openings in said swivel casting and the handle and a pin passing through said aligned openings, said swivel casting and said handle being provided with second co-operable openings for the reception of said pin to provide a shifted pivotal connection between the swivel casting and said handle, and means coacting with said swivel casting and said threaded shank for adjusting the second jaw relatively to the first jaw, said first jaw having a curvature concentric about an axis located to one side of the axis of said pivotal connection



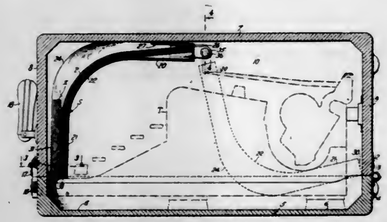
and in a plane passing through the axis of the pivotal connection substantially at right angles to the longitudinal axis of the handle.

2,350,260

CARRYING CASE FOR TYPEWRITERS

Jan Streng, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application August 5, 1941, Serial No. 405,508
2 Claims. (Cl. 45—68.2)



1. In a carrying case for a portable typewriter, a base section for supporting the typewriter, a cover section detachably connected to said base section to enclose the typewriter, a stationery supporting member having a curved central portion with one end portion disposed substantially parallel with the front side of said cover section and the other end portion disposed substantially parallel with the top side of said cover section, a pocket at each of said end portions of the stationery supporting member, and means pivotally mounting said stationery supporting member at the upper central portion of said cover section to permit movement of the stationery supporting member downwardly against the lower front edge of the cover section when raised from the base section.

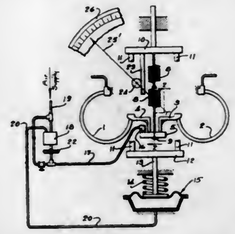
2,350,261

MEASURING AND INDICATING SYSTEM

Malcolm C. Tate, Stamford, Conn., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania

Application March 18, 1940, Serial No. 324,606
2 Claims. (Cl. 265—1)

1. In combination, a plurality of movable force responsive elements, means for balancing the total force of said responsive elements including a servo-motor and extensible means connected to said motor and commonly operatively connected to all of said responsive elements, means responsive to variations of the totalized force of said responsive elements for controlling said servo-motor so as to maintain said responsive elements in a substantially constant position throughout operation, said extensible means allowing said servo-motor to have a relatively



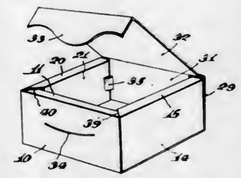
large extent of movement for each increment of combined movement of the responsive elements, and mechanism operated by said servo-motor and having the relatively large movement thereof, the operative connections between said force responsive elements and said extensible means including a flexure plate adapted to have relatively free movement in the direction of force of the responsive elements and having one portion fixed so as to be relatively rigid in a direction laterally of said force.

2,350,262

CARTON

Robert Van Rosen, New York, N. Y., assignor to J. Makowsky Corporation, a corporation of New York

Application October 8, 1943, Serial No. 505,511
8 Claims. (Cl. 229—16)



1. In a carton formed from a single sheet of material, a front wall having a slot therein, side walls articulated at each end of the front wall, side top walls articulated at the tops of the side walls and extending inwardly and having their front ends inclined inwardly, inner side walls articulated at the inner sides of the top side walls and extending downwardly, side wall brace members articulated at the lower edges of the inner side walls and extending outwardly to the side walls, a front top wall articulated at the top of the front wall and extending inwardly and underlying the inclined ends of the top side walls, an inner front wall articulated at the inner edge of the front top wall and extending downwardly at the front ends of the inner side walls, a front wall brace member articulated at the bottom of the inner front wall and extending outwardly to the front wall, inner bottom members articulated at the bottom edges of the side members and extending inwardly in contact with the side wall and front wall brace members, connecting members articulated to the rear ends of the side walls and extending inwardly and interlocking with each other, a bottom member articulated at the bottom edge of the front wall and extending rearwardly to the rear ends of the side walls, a rear wall articulated at the rear edge of the bottom member and extending upwardly substantially in contact with the rear side of the connecting members, a first reinforcing member articulated at the top edge of the rear wall and extending downwardly substantially in contact with the inner side of the connecting members, a second reinforcing member articulated at the bottom edge of the first reinforcing member and extending upwardly substantially in contact therewith, both reinforcing members lying between the inner side walls, inwardly extending members near the rear ends of the inner side walls engaging and retaining the reinforcing members, a cover member articulated at the top edge of the second reinforcing member and extending forwardly, and a locking flap articulated to the front edge of the cover member and extending downwardly and engaging the slot in the front member.

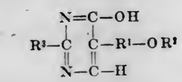
2,350,263

PYRIMIDINE COMPOUNDS

Robert R. Williams, Summit, N. J., and Joseph K. Cline, Birmingham, Ala., assignors to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 24, 1937, Serial No. 181,710, which is a division of application Serial No. 134,334, April 1, 1937. Divided and this application July 23, 1943, Serial No. 495,894. In Germany May 29, 1937
10 Claims. (Cl. 260—251)

6. Pyrimidine compounds having the formula:



wherein R^1 is an alkylene group and R^2 and R^3 are members of the class consisting of alkyl and aralkyl groups.

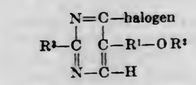
2,350,264

PYRIMIDINE COMPOUNDS

Robert R. Williams, Summit, N. J., and Joseph K. Cline, Birmingham, Ala., assignors to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 24, 1937, Serial No. 181,710, which is a division of application Serial No. 134,334, April 1, 1937. Divided and this application July 23, 1943, Serial No. 495,895. In Great Britain June 2. 1937
20 Claims. (Cl. 260—251)

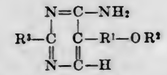
9. Pyrimidine derivatives having the formula:



in which R^1 is an alkylene group and R^2 and R^3 are members of the class consisting of alkyl and aralkyl groups.

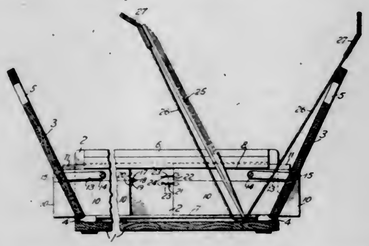
2,350,265
PYRIMIDINE COMPOUNDS
Robert R. Williams, Summit, N. J., and Joseph K. Cline, Birmingham, Ala., assignors to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application December 24, 1937, Serial No. 181,710, which is a division of application Serial No. 134,334, April 1, 1937. Divided and this application July 23, 1943, Serial No. 495,896. In Germany May 29, 1937
20 Claims. (Cl. 260—251)

16. Pyrimidine compounds having the formula:



in which R^2 and R^3 are members of the class consisting of alkyl and aralkyl groups and R^1 is an alkylene group.

2,350,266
FILE TRAY
Carl F. Wolters, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application August 21, 1943, Serial No. 499,491
4 Claims. (Cl. 129—16)

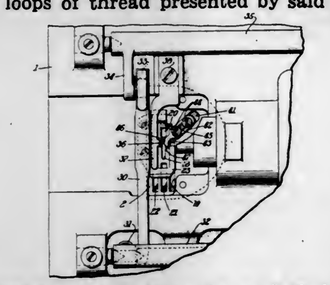


2. A file tray comprising bottom and sides, said sides having longitudinally extending guideways formed along the inner faces thereof and opening at the ends, end walls hingedly mounted on opposite ends for movement between upright and inclined positions, a pair of slide members slidably mounted in each guideway, one at each end of said tray and arranged to have the outer ends of said slide members at each end of said tray slidably move to project beyond the ends of the side walls for cooperation with portions of said end walls to support said end walls in inclined position, and means connecting the slide members at each end of said tray with the adjacent end wall for sliding movement with the swinging movement of the end walls between upright and inclined position

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2,350,267
SEWING MACHINE FOR CORNER STITCHING
Sydney Zonis, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 13, 1942, Serial No. 465,415
17 Claims. (Cl. 112—197)

2. In a sewing machine adapted for producing angular stitched seams, in combination, a work-support provided with a needle-slot elongated in the line of seam formation, work-feeding means for advancing work rearwardly of said needle-slot, an endwise reciprocatory needle operating through the forward end portion of said needle-slot, said needle having a thread-receiving eye extending crosswise of said needle-slot, a rotary looper disposed below said work-support and having a loop-seizing beak and a loop-detaining wing constructed and arranged to enchain loops of thread presented by said needle,



and means for restraining the work-limb of the needle-thread loop from wrapping rearwardly about the needle between the needle-eye and the work in any work-penetrant positions of the needle beyond the needle-eye and responsively to turning of the work about the needle, said means comprising a thread-positioning member complemental to said needle in blocking rearward movement of said work-limb.

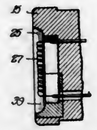
2,350,268
ARTIFICIAL FLOWER HOLDER
Samuel Zuckerman, New York, N. Y.
Application March 13, 1942, Serial No. 434,461
2 Claims. (Cl. 47—55)



1. In a flower holder, a pair of metal wires, a plastic coating formed about said wires and holding said wires assembled whereby to form a single strand which resembles the stem of a flower, the ends of the wires of said strand being adapted for separation and entry in spaced relation into the calyx of a flower, and said wires being of sufficient stiffness to enter the calyx by the piercing thereof and to hold the shapes into which they are bent.

2,350,269
X-RAY TUBE
Zed J. Atlee, Elmhurst, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application June 15, 1942, Serial No. 447,030
12 Claims. (Cl. 250—145)

1. In a device of the class described, an anode and a cooperating cathode comprising a head and an electron emitting source carried on said head in position to emit electrons for impingement upon said anode at a target zone therein, said cathode head having inserted portions comprising material characterized by a high melting temperature and resistance to disintegration under electronic bombardment when heated to high temperature, said portions being disposed in position to receive impingement of electrons emitted by said anode.



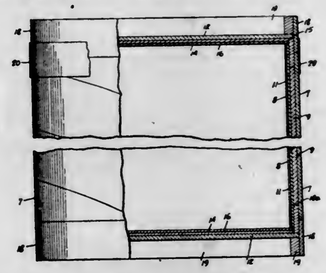
2,350,270
CATHODE ASSEMBLY STRUCTURE
Zed J. Atlee, Elmhurst, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application October 2, 1943, Serial No. 504,740
10 Claims. (Cl. 250—27.5)



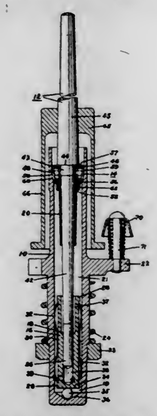
4. A cathode assembly structure comprising a plurality of fixed electrical conductors, a filament assembly structure, and means for tensioning said filament assembly structure, said filament assembly structure comprising a molybdenum supporting hat, a plurality of generally arcuate, opposed molybdenum supporting members arranged in spaced relation with said hat, and a plurality of spaced filamentary tungsten wires having opposite ends connected by means of a tantalum weld with said hat and one of said supporting members, respectively, and said supporting members being respectively mounted upon said conductors.

2,350,271
CONTAINER
Henry E. Braloff, Rockville Centre, N. Y.
Application May 22, 1942, Serial No. 444,084
6 Claims. (Cl. 229—4.5)

1. A container comprising a fiber body formed of inner and outer tubular sections, associated in circumferentially spaced relationship, the ends of said outer section being spaced inwardly of the contiguous ends of the inner section, annular means intermediate said inner and outer sections in engagement with the opposed surfaces thereof, for maintaining said sections in circumferentially spaced relationship, the terminal surfaces of said spacing means being located inwardly of the respective ends of said outer sections, whereby the spaced surfaces of said inner and outer sections beyond said spacing means cooperate to define the side walls of an annular groove at each end of the container body, the base of the groove being formed by the adjacent terminal surface of said spacing means, and an end-forming member for said container, including a closure comprising concentric discs of different diameters united to form a unit having a stepped peripheral edge, an annular ring engaged at one end with the vertical surface of the smaller disc and the marginal surface of the larger disc, a collar embracing a portion of said ring and extending thereabove in engagement with the vertical peripheral surface of the larger disc of said closure and a retaining ring entered in frictional engagement with said collar above said closure and bearing upon the outer surface of said larger disc, said ring being adapted to be entered in said groove, in frictional engagement with the defining surfaces thereof to locate said collar in end abutting engagement with said outer body section, to form a continuation thereof.



2,350,272
SPINDLE
Leland D. Cobb, Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Refiled for abandoned application Serial No. 283,851, July 11, 1939. This application June 22, 1940, Serial No. 341,956
16 Claims. (Cl. 308—152)

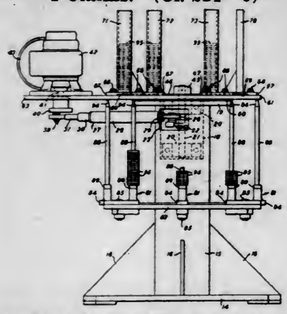


1. In a device of the character indicated, a casing, a spindle blade extending into the casing, a

parti-spherical seat in the casing, an antifriction bearing supporting the weight of the blade and rotatably guiding the blade, said bearing being socketed for a universally tiltable movement in said seat, and another bearing yieldably mounted in said casing and non-supportably receiving said spindle blade.

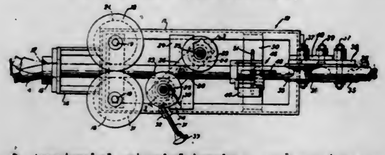
12. In a device of the character indicated, a casing, a bearing within the casing, and a spirally wound flat spring having an outer convolution resiliently mounted within the casing and having an inner convolution secured to the bearing, whereby the bearing is yieldably positioned within the casing.

2,350,273
ARTICLE HANDLING MACHINE
John A. Decker, Bayonne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 4, 1942, Serial No. 445,759
4 Claims. (Cl. 214—6)



I. A machine for handling articles comprising a table having an aperture therein for the passing of articles therethrough, an element disposed beneath the table in alignment with the aperture therein, magazines, for supplies of articles, disposed equal distances at opposite sides of the aperture in the table, a transfer member, having an aperture therein for each magazine, mounted for oscillatory movement on the table, and means to cause repeated oscillating cycles of the transfer member to cause the apertures therein to be alternately moved into registration with their magazines and the aperture in the table to alternately transfer articles from their magazines to the element through the table aperture.

2,350,274
MATERIAL STRAIGHTENING APPARATUS
Aeneas J. N. Duclos, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1942, Serial No. 441,039
6 Claims. (Cl. 153—54)



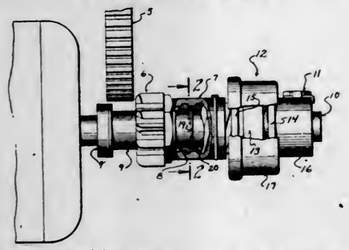
1. A material straightening apparatus comprising supporting elements formed to receive pivots for their support, separate pivots received by the elements to support their elements in different planes angularly disposed relative to each other, pairs of rolls for the elements, and separate means carried by the elements to rotatably support the rolls of each pair equal distances from their pivots to cause their rolls to engage different sides of material advancing longitudinally between the pairs of rolls.

2,350,275
MEANS FOR MOUNTING BUTTONS AND SIMILAR ARTICLES
Samuel Eppy, Jamaica, N. Y.
Application August 24, 1942, Serial No. 456,102
3 Claims. (Cl. 206—80)



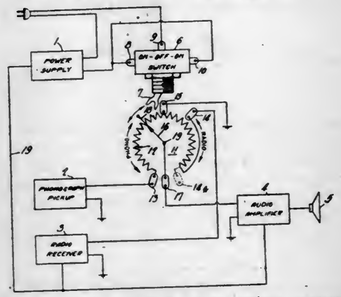
1. A button card assembly comprising, in combination, a shanked button, a card ruptured along associated lines defining a tongue partially separable from the body of the card to provide a slot having a contour circumscribable to the cross-section of the head of the button substantially on a plane passing through the axis of the shank, to cooperate with the face of the card to hold the button entered in the slot in a position in which the button shank is in longitudinal engagement with said face of the card, and means for swivelly connecting said shank to the card, for the optional displacement of the button head from said slot to a position in parallel spaced relation to the face of the card.

2,350,276
ENGINE STARTER
John W. Fitz Gerald, deceased, late of Milwaukee, Wis., by Mary C. Fitz Gerald, executrix, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application June 19, 1943, Serial No. 491,505
8 Claims. (Cl. 74—7)



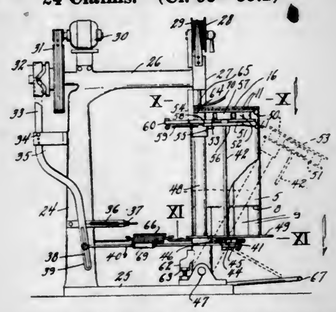
1. In an engine starter of the type wherein a pinion is automatically actuated to move into and out of mesh with an engine gear: a rotatably mounted pinion actuating member; a positively driven driving member; a resilient driving connection between said members, said connection comprising cooperating frictionally engaged parts; and spring means establishing a frictional driving connection between said members in addition to said resilient connection for supplying an initial drive to the pinion actuating member in the event of inadequate initial friction between the cooperating parts of the resilient driving connection.

2,350,277
VOLUME CONTROL FOR RADIO-PHONOGRAPHS
David Grimes, Meadowbrook, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 26, 1940, Serial No. 371,748
15 Claims. (Cl. 179—100.11)



1. A radio-phonograph apparatus, comprising a radio receiver, a phonograph pickup, an audio amplifier for use with either said radio receiver or said pickup, a power supply circuit for said apparatus, a switch for controlling said power supply circuit, volume control means including a resistance element and a movable contact element engaging said resistance element, a terminal at one extremity of said resistance element connected to said pickup, a terminal at the other extremity of said resistance element connected to said receiver, a connection between said amplifier and said movable contact element, means connecting said receiver, said pickup and said amplifier to an intermediate point on said resistor element, whereby said receiver and said pickup may be selectively connected to said amplifier by moving said contact element to one or the other side of said intermediate point, and the volume may be controlled in either case by the extent of movement of said element, and means operable by the movement of said contact element to either side of said intermediate point for closing said switch, and for opening the switch whenever said contact element is returned to said intermediate point.

2,350,278
APPARATUS FOR FORMING CARTONS
Harry E. Hines, Monroe, Mich., assignor to Consolidated Paper Company, Monroe, Mich., a corporation of Michigan
Application January 29, 1940, Serial No. 316,192
24 Claims. (Cl. 93—55.1)



1. A machine frame, an overhanging arm therefrom, a stitcher terminally of the arm, a work holder table carried by and movable relatively to the frame and including an anvil to oppose the stitcher, a drive on the frame for the stitcher, a transmission connection from the drive synchronized to advance the work on the table at release positions of the stitcher as to work on the table.

5. A stapling mechanism for tubular containers having flat closure elements adapted to be secured to a tubular body blank provided with tab parts extending from the body blank and arranged, when folded down, to overlap the flat closure element, said stapling mechanism comprising a staple driving mechanism, a staple clinching anvil, a table adapted to support a tubular container for rotation with respect to the stapling mechanism, means for positioning the container on the table, whereby, upon rotation of the container, successive edge portions of the container and closure element will be presented to the stapling mechanism and means operative upon movement of the container to move the tabs on the tubular body from aligned position with the tubular body wall into flatwise engagement with the closure element to present successive portions thereof to the stapling mechanism.

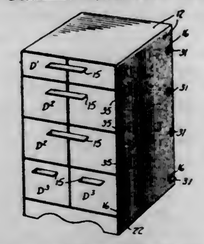
2,350,279
COATING COMPOSITION
Johan Marius Hoeffelman, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 1, 1940, Serial No. 363,911. In France June 29, 1939
11 Claims. (Cl. 106—285)

9. A ground-surface-covering comprising mineral aggregates which have been coated with a substantially asphalt-free mineral lubricating oil which has been reacted with between about 0.2% and 5% by weight of a sulfo compound having the formula



in which R is a primary alkyl group having up to 8 carbon atoms and X is an organic radical of the class consisting of hydroxyl, primary alkoxy and aryl radicals, at a temperature between about 50° C. and 200° C., and for a time between about one hour and one minute, the time of contact being inversely proportional to the temperature of the treatment.

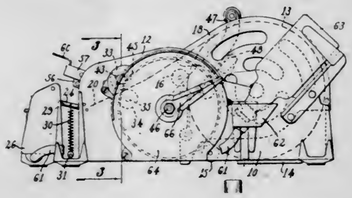
2,350,280
CABINET
Wolfe Holtzman, Brooklyn, N. Y.
Application June 25, 1942, Serial No. 448,365
8 Claims. (Cl. 229—19)



1. A shook adapted to be packaged and shipped in knock down form and assembled without the

use of tools to form a storage cabinet of rectangular configuration comprising a cardboard bottom forming member having a rectangular central part and four downwardly bendable margins and adapted to be formed into an inverted box with top, and front, rear and side walls, a rectangular cardboard back forming member having a rectangular central part of a width equal to the length of the rear wall of the box, and laterally disposed bendable margins, a cardboard side and top forming member of a width at least equal to the length of the side walls of the box and one of the bendable margins of the back wall forming member, and of a length equal to twice the length of the back forming member plus twice the depth of a box wall, plus the length of the front wall of the box, certain of said cardboard members having bendable apertured tabs therein adapted to be brought opposite openings in other of said cardboard members and passed therethrough to form a storage cabinet open at the front, and pins adapted to be passed through the apertures in the projecting tabs to prevent separation of the parts.

2,350,281
TAPE-SERVING MECHANISM
Alfred P. Krueger, Stratford, and Michael J. West, Shelton, Conn., assignors, by mesne assignments, to Better Packages, Inc., Shelton, Conn., a corporation of New York
Application December 11, 1940, Serial No. 369,612
12 Claims. (Cl. 271—2.4)

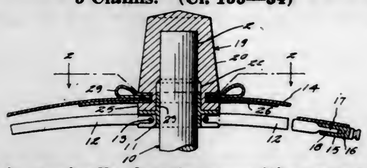


1. In a tape-serving device, means for supporting a roll of tape, feeding means to feed a length of tape from said roll, said feeding means comprising a pair of cooperating feed rolls between which the tape passes, means for rotating one of said rolls, means effective upon the application of the rotating torque to said roll to urge it into frictional contact with the tape when rotated in a forward direction, and means urging said roll away from tape-contacting position except during the forward rotation thereof.

2,350,282
METHOD OF MAKING CATALYSTS
William A. La Lande, Jr., Upper Darby, Pa., assignor to Attapulgus Clay Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application March 14, 1942, Serial No. 434,727
7 Claims. (Cl. 252—254)

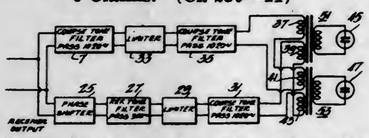
1. The method of producing a catalyst composition which comprises reacting, in aqueous solution, an alkali metal silicate with an excess of a water-soluble salt of magnesium to form a water-insoluble magnesium silicate having present therein insufficient fixed alkali to deleteriously affect the catalytic activity of the same, and treating said magnesium silicate with an aqueous solution of an alkaline earth metal salt

2,350,283
UMBRELLA FERRULE
Joseph Levin, Lancaster, Pa., assignor to Polan, Katz & Company, Baltimore, Md.
Application April 30, 1943, Serial No. 485,218
5 Claims. (Cl. 135—34)



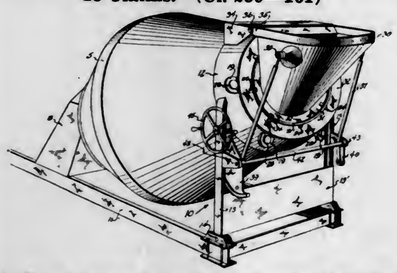
3. An umbrella ferrule comprising a member formed with a stick receiving socket and having an annular channel on its outer side adjacent its inner end, said channel having an inner wall and a pair of side walls for snugly receiving the edges of the central opening of an umbrella cover with said edges in abutting relation to said inner wall.

2,350,284
RADIO RANGE
David G. C. Luck, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1942, Serial No. 436,933
6 Claims. (Cl. 250—11)



1. A visual course and quadrant identification device for a four course simultaneous radio range including in combination a radio receiver, filters for separating two harmonically related modulation components in the output of said receiver, harmonic generating means for deriving from the lower frequency one of said components a harmonic having a frequency equal to that of the higher frequency one of said components, means for combining said harmonic with said higher frequency additively in one circuit and subtractively in another circuit, and two visual indicators connected to said first and second circuits respectively to respond to said resultant voltages.

2,350,285
CONCRETE MIXER
Glenway Maxon, Jr., Milwaukee, Wis., assignor to The T. L. Smith Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 17, 1942, Serial No. 455,094
18 Claims. (Cl. 259—161)



1. In a concrete mixer: a rotatable mixing drum having an outer open end and an inner

closed end; an annular shoulder on the drum facing inwardly toward the closed end; a yoke bearing axially against the shoulder and held thereby against outward axial movement with respect to the drum; a movable closure for the open end of the drum movably carried by the yoke; and means carried by the yoke for actuating the closure to and from open position and for pressing the closure against the open end of the drum.

2,350,286
ROLLING DOOR CONSTRUCTION
Nathan Michelman, Brooklyn, N. Y.
Application March 25, 1943, Serial No. 480,555
11 Claims. (Cl. 160—313)



1. Counterbalancing means for a rolling door, including a shaft for receiving the door in wound condition, a coil spring non-rotatably supported longitudinally of said shaft, means for anchoring one end of said spring in juxtaposition to one end of said shaft and means entered in the other end of said shaft and rotatable therewith connected to the other end of said spring for expanding and contracting said spring in response to reverse directional rotation of said shaft.

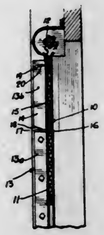
2,350,287
SLAT CONSTRUCTION FOR ROLLING DOORS
Nathan Michelman, Brooklyn, N. Y.
Application August 13, 1943, Serial No. 498,543
7 Claims. (Cl. 160—133)



1. In a rolling door, a plurality of slats, oppositely coiled portions formed at the sides of each of said slats, studs fastened to one of the coiled portions of each slat at the opposite ends thereof and having portions in abutment with the end edges of said coiled portion, the coiled portion of one slat being concentric with and juxtaposed to the oppositely coiled portion of the adjacent slat and this latter coiled portion being provided with cut-outs at the opposite ends thereof to facilitate its pivotal movement relative to the stud-carrying coiled portion, the abutting portions of the studs preventing relative longitudinal movement of the coiled portions.

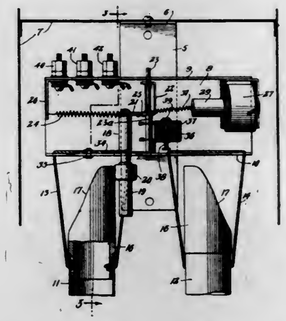
2,350,288
GUIDE RAIL FOR ROLLING DOORS
Nathan Michelman, Brooklyn, N. Y.
Application September 4, 1943, Serial No. 501,332
8 Claims. (Cl. 160—133)

1. In a rolling door construction, in combination, a drum, a pair of tracks, a plurality of slats hingedly interconnected to form a flexible door extending from said drum through said tracks in a vertical plane, and adapted to be wound about said drum to cause the door to move in an upward direction, the winding of said slats about the drum concurrently determining a gradual increase in the diameter of the drum whereby the unwound portion of the door, during its upward movement, is gradually moved away from the surface of the drum to follow a path at an angle



with said vertical plane, said tracks being movable to a position substantially along the path which the door is urged to follow.

2,350,289
SIGNAL DEVICE
Robert M. Miller, Philadelphia, Pa., assignor to Fox Products Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 13, 1940, Serial No. 369,968
8 Claims. (Cl. 177—7)

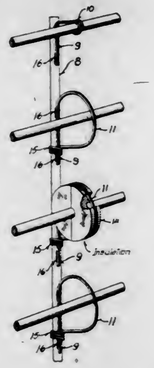


6. In combination with a chime, a striker mechanism including a striker pivotally mounted for swinging movement into and out of contact with the chime, spring means adapted to set up a position of equilibrium for the striker on its pivot but with the striker out of contact with the chime, an actuating solenoid, a movable armature associated with the solenoid, and means connecting the armature and the spring means whereby movement of the armature will change the equilibrium to increase the component of the force of the spring means tending to move the striker in the direction of the chime, the striker being adapted to move by inertia on its pivot to a point beyond equilibrium in order to strike the chime.

2,350,290
SPANNER FOR ELECTRIFIED FENCING
Sidney A. Moore, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 3, 1942, Serial No. 453,380
8 Claims. (Cl. 256—10)

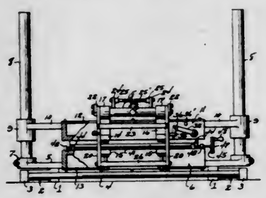
1. In an electrified fence having a plurality of spaced wires mounted on spaced supports: a spanner for electrically connecting at least two wires of the fence in the event of abnormal flexure of any wire between its supports comprising, a conductor spanning all of the wires of the

fence; a permanent electrical connection between the conductor and one of the fence wires; insulated mechanical connections between the conductor and other fence wires whereby the spanner is held against displacement with respect to said first designated wire and said other wires and flexure of any one of said wires moves



the spanner with relation to the remaining wires; and contact members carried by the conductor and embracing but spaced from said remaining wires of the fence so that abnormal flexure of any wire of the fence effects electrical connection between the wire with which the conductor is permanently electrically connected and one of said remaining wires of the fence.

2,350,291
MOLDING APPARATUS
Salvador Rincón, Mexico City, Mexico
Application May 19, 1943, Serial No. 487,653
In Mexico May 13, 1940
5 Claims. (Cl. 18—34)

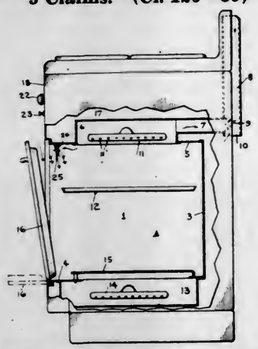


1. In a molding apparatus, a press including upper and lower thermal units for receiving a mold between the same, said upper unit being movably mounted relative to the lower unit and cooperating therewith to set up pressure against the mold, means for locking the upper unit in pressing position, and said means including a pair of shafts mounted for rotation and carried by the upper unit, arms eccentrically connected to the ends of the shafts and depending therefrom for swinging movement toward and away from the lower unit, means secured to and bridging the lower ends of the arms, adjustable means carried by the bridging means for disposal into and out of bearing relation with the lower unit, means connecting the arms together for movement thereof in unison, and means including a handle secured to one of said shafts for operating the arms.

2,350,292
COATED SHEET AND METHOD OF PRODUCING THE SAME
John P. Sermattei, Minneapolis, and Cecil M. Rhodes, St. Paul, Minn., assignors to Rapinwax Paper Company, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application February 20, 1941, Serial No. 379,843
17 Claims. (Cl. 117—66)

2. A method of preparing transparent moistureproof materials which comprises impregnating a base sheet with a composition comprising from 20% to 40% of a cellulose ether, resin, and at least substantially 20% of spermaceti dissolved in a suitable mixture of organic solvents and applied to the sheet, evaporating the solvents at an elevated temperature, chilling the impregnated sheet, and humidifying the sheet.

2,350,293
DEFLECTOR AND SHIELD FOR OVENS
Charles Stanchfield, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 10, 1941, Serial No. 401,714
5 Claims. (Cl. 126—39)



1. The combination with an oven, a front outer wall extending above it, top and bottom heating units in said oven, a front door opening extending substantially from top to bottom thereof, a door for such opening and handles projecting from said wall above said opening, of a deflector for heated, gaseous combustion products and other elements in suspension therein located and vertically supported at the top of and within the oven and in proximity to the upper edge of said opening and extending below the combustion zone of the top heating unit and the upper edge of the said opening, said deflector comprising a rigid strip of relatively small width extending across and depending from the oven top and adapted by the construction and arrangement as stated to intercept combustion products moving laterally in the upper part of the oven and direct them downwardly and inwardly and away from said upper edge and handles.

2,350,294
METHOD OF PRESERVING LATEX AND PRODUCT THEREOF
William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 21, 1940, Serial No. 371,203
11 Claims. (Cl. 260—820)

1. The method of preserving freshly-collected latex which comprises treating the latex with sufficient ammonia to raise the pH of the latex to not less than 9.8 nor more than 10.0 and adding a small proportion of a nitro derivative of an aromatic compound selected from the class consisting of p-nitrophenol, p-nitro-acetanilide, m-nitro-aniline, nitro-benzoic acid, and alpha-nitro-naphthalene.

2,350,295
ACTIVE GLUCOSIDES OF SENNA AND A PROCESS FOR THEIR PREPARATION
Arthur Stoll, Walter Kussmaul, and Balthasar Becker, Basel, Switzerland, assignors to Sandoz Ltd., Fribourg, Switzerland, a corporation of Switzerland
No Drawing. Application July 17, 1941, Serial No. 402,870. In Switzerland May 13, 1941
6 Claims. (Cl. 260—210)

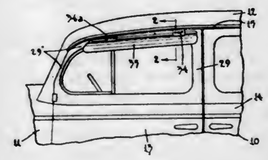
1. A process for the manufacture of new active, crystallized glucosides of senna, comprising the steps of treating an extract of senna-leaves and -pods dissolved in methanol, with a methanol-soluble alkaline earth-metal salt and with a base selected from the group consisting of ammonia and amines, and separating the precipitated alkaline earth salts of the glucosides.

2,350,296
WINDOW RAIN SHIELD
Alvin Emil Julius Tietze, Houston, Tex.
Application July 27, 1942, Serial No. 452,491
1 Claim. (Cl. 98—99.2)



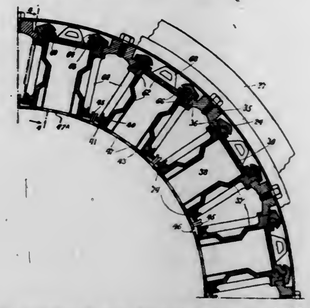
In a window including a window sash slidable in grooves in a frame, a rain shield of sheet metal comprising a flat elongated rectangular deflecting wall, a relatively narrow strip formed integral with the bottom edge of said wall and extending therefrom at an obtuse angle, and an end wall formed integral with each end of the deflecting wall and the strip, each end wall extending at a right angle to the deflecting wall and strip and across the sash groove at each side of the window frame and having a rectangular cutout in its top edge and spaced inwardly of the outer end thereof for snug engagement about the lower rail of the sash.

2,350,297
SUNSHADE
Lewis A. Vesta, Boyd, Minn.
Application November 6, 1941, Serial No. 417,999
1 Claim. (Cl. 296—44)



A sunshade comprising a case having a front wall, a rear wall, a bottom, and end walls connected thereto, a shaft extending through the end walls of the case and rotatably mounted therein, said shaft being located in the corner between said front wall and bottom, a shield attached to said shaft, friction means within the case comprising a band encircling the shaft and having upwardly extending arms, said arms being disposed intermediate the end walls of the case, a screw extending through the front wall of the case and engaging one of said arms for drawing the arms together to produce friction between said band and shaft, a clamping member having ears extending into the case and disposed on opposite sides of said arms, screws extending through the front walls of the case and engaging said ears, said screws straddling said first named screw, all of said screws being disposed above said shaft, a jaw on said clamping member cooperating with the rear wall of the case to clamp an object therebetween, and means extending through the case and connecting said jaw to said ears.

2,350,298
MACHINE FOR MOLDING BRICKS
Charles William Watson, Wallington, England
Application January 5, 1943, Serial No. 471,323
In Great Britain June 24, 1941
11 Claims. (Cl. 25—41)

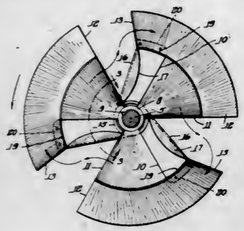


1. An assembly for molding by centrifugal force comprising an outer cylinder, a coaxial inner cylinder enclosing a feed space, an annular series of rails spaced around the inner side of said outer cylinder and extending axially, a plurality of molds with mouths directed radially inwards, each of said molds being slidably engaged at its outer end between a pair of adjacent rails belonging to said series and said rails and molds being configured in cross-section where they interengage so that the rails form a complete support and slideway for the molds, said cylinders, molds and associated parts being rotatable as a unit about the axis of said cylinders and said inner cylinder being formed with passages for plastic material pressed under centrifugal force from said feed space into said molds, and centrifugally flexible members interposed between adjacent molds to give shock-absorbing support to the molds and also to shield said rails from said plastic material by excluding said material from inter-mold spaces.

2,350,299
DOUBLE ACTING KNEADER
Eric A. F. Presser, East Chicago, Ind.
Application June 28, 1943, Serial No. 492,517
4 Claims. (Cl. 259—97)

1. A unitary kneading member for simultaneously moving material in opposite directions in a

container in which the member is enclosed, said member including a central hub, a plurality of segments extending radially from said hub and inclined upwardly in respect to the direction of rotation of the hub, each segment having a concentric marginal wall along its outer extremity, and each wall section having a radially disposed

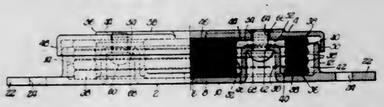


extension inclined downwardly in respect to the direction of motion of the hub in order that the material in the container is drawn downward toward the bottom of the container by the segments adjacent the hub and is moved upward along the side walls of the container by the segments projecting outwardly from the integrally concentric dividing wall.

2,350,300
CELLULOSE TRIACETATE COMPOSITION
Charles Bogin, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application April 24, 1943, Serial No. 484,495
7 Claims. (Cl. 106—189)

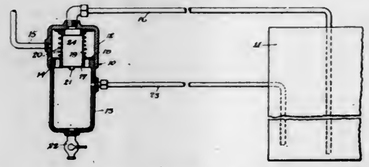
1. A composition of matter, comprising cellulose triacetate, having an acetic acid content ranging from about 58 to 62 per cent and a solvent mixture comprising a lower monochloromononitroalkane and a lower aliphatic monohydric alcohol, the components of said solvent mixture being in such proportions as to render the mixture easily capable of maintaining the cellulose triacetate in a dissolved state throughout the drying process when said composition is applied to a smooth surface.

2,350,301
SIDE BEARING
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 14, 1941, Serial No. 398,007
8 Claims. (Cl. 308—138)



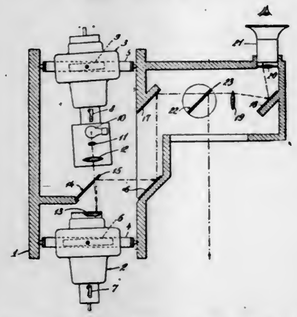
1. In a side bearing, a bottom casing comprising a base web with an upstanding flange, a plurality of hollow studs upstanding from said web, a block of resilient material seated on said web and confined by said flange, said block having openings therethrough for the reception of said studs, a top casing seated on said block and having a depending flange in telescopic relationship with said first-mentioned flange, bearing pads on said top casing received within respective of said openings, each of said pads serving to position said block and being engageable with the associated stud on the closure stroke of the bearing to limit said stroke, and means fixed to said top casing centrally of each pad and projecting into an opening in the associated stud in slidable interlocking engagement therewith to limit the expansion stroke of the bearing.

2,350,302
SAFETY FUEL LINE
Max Dach, Flushing, N. Y.
Application May 7, 1941, Serial No. 392,314
7 Claims. (Cl. 210—165)



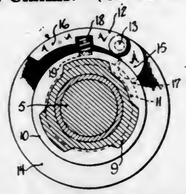
1. In a fuel system having a supply tank and a pump, a separator, conduit means connecting the tank and the separator and connecting the separator and the pump and providing fluid flow communication between the tank, the separator and the pump, a strainer within said separator and disposed between the tank and pump conduit connections therewith, a chamber below said strainer to collect water and foreign matter, and return conduit means connecting said chamber and said tank, the connection between said return conduit and said chamber being on a level with, or above the bottom of said tank.

2,350,303
GYROSCOPE SYSTEM
Arnold M. Fedde, Brooklyn, N. Y.
Original application November 17, 1943, Serial No. 510,612. Divided and this application July 5, 1941, Serial No. 401,235
5 Claims. (Cl. 74—5)



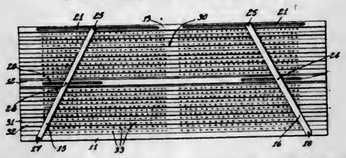
1. A gyroscope system comprising two gyroscopes, means for causing each of said gyroscopes to seek the direction of the resultant of acceleration forces acting on the system, means for rendering one of said gyroscopes more sensitive than the other gyroscope whereby any change in the forces acting on the system causes an indicatable relative angular displacement of the gyroscopes each of said gyroscopes being free to respond to any change in the forces acting on the system, and means for supporting said gyroscopes so that the relative displacement of the gyroscopes is commensurate with the displacement of one of said gyroscopes.

2,350,304
ENGINE STARTER
John W. Fitz Gerald, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application August 1, 1941, Serial No. 405,016
2 Claims. (Cl. 74—7)



1. In an engine starter having a power driven member and a pinion adapted to be moved axially of said power driven member from and to a retracted position upon relative rotation between said parts: a screw threaded connection between the pinion and the power driven member for producing axial movement of the pinion from and to its retracted position upon relative rotation between said parts; and braking means revoluble with the pinion and having a portion acting on the power driven member to exert braking pressure thereon within the length of its threaded connection with the pinion to prevent creeping of the pinion out of its retracted position, said braking means having a centrifugally responsive part integral with said portion operable to increase the braking action of said portion upon the power driven member by an amount proportionate to the speed of rotation of the pinion.

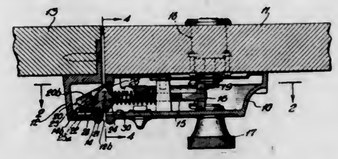
2,350,305
WINDOW SCREEN
John M. Lapina, Brooklyn, N. Y.
Application July 27, 1943, Serial No. 496,289
6 Claims. (Cl. 160—84)



1. A collapsible and removable window screen comprising a plurality of support bars, a plurality of links pivotally connected to one of said support bars and having a sliding connection with the remainder of said support bars, and a horizontally pleated collapsible paper screen attached to said support bars, in the collapsed position of the screen said support bars engaging each other and in the extended position of said screen said support bars being disposed and held by said links in horizontally spaced relation.

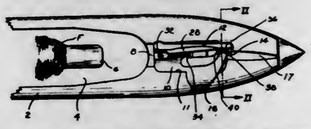
2,350,306
LOCK
Roy C. Spain, Michigan City, Ind., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application September 26, 1941, Serial No. 412,407
7 Claims. (Cl. 70—418)

1. In a lock of the class described, a latch bolt, a strike into which said latch bolt enters, a unitary dog pivoted on said latch bolt for integral sliding movement therewith while adapted for limited pivotal movement relatively to said latch bolt, and a detent surface formed as a part of said unitary dog adapted to interlock with said



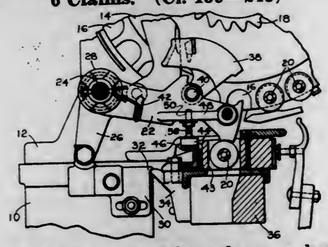
strike when movement relatively to said latch bolt is imparted to said dog as by a jimmying tool.

2,350,307
AUTOMATIC LOOM SHUTTLE
James Gardiner Allen, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application September 26, 1942, Serial No. 459,795
4 Claims. (Cl. 139—223)



1. An automatically threading loom shuttle comprising a shuttle body having a cavity therein for receiving a filling carrier, a threading block fixed in a recess formed outwardly of the cavity in said shuttle body, said threading block having a longitudinal thread passage communicating with said cavity, said shuttle body having a longitudinal thread groove extending outwardly and forwardly from said recess, said threading block having a horn which projects outwardly from the threading block and has a rearwardly inclined surface, the lower rearward end portion of which surface terminates close to and behind the outer end wall of the block receiving recess, and a rear member having a surface parallel to and cooperating with said inclined surface on the horn to form a thread receiving slot, the lower rearward end portion of said slot lying behind the outer end wall of the block receiving recess to form a thread trap to prevent unthreading of the shuttle.

2,350,308
FILLING CARRIER TRANSFERRING MECHANISM
Horace H. Burdett, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application April 9, 1943, Serial No. 482,420
6 Claims. (Cl. 139—243)



1. In a filling replenishing loom, a holder for a series of filling carriers, a transferrer movable in one direction to transfer successive filling carriers from the holder, a spring for moving the

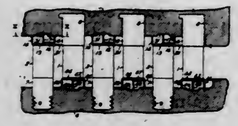
transferrer in the other direction, a stop, and resilient means carried by the transferrer and arranged to engage the stop as the transferrer approaches the limit of its transferring movement.

2,350,309
BLADE SHROUDING
Hans P. Dahlstrand, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application September 12, 1940, Serial No. 356,411
5 Claims. (Cl. 29—156.8)



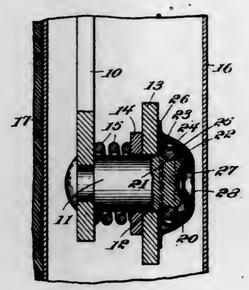
1. A method of forming a combined shroud and seal structure on the end of a blade which comprises providing a blade having on said end and adjacent one edge thereof a first upstanding portion and having in said end adjacent its other edge a second upstanding portion of materially greater length than said first portion, placing on said end of the blade a first element of said structure apertured to receive said upstanding portions and having a thickness approximately equal to the length of said first portion, superimposing on said first element, a second element of said structure including a base apertured to receive said second portion and having a thickness approximately equal to the exposed length of said second portion and a width sufficiently less than the width of said first element to leave exposed a part of said end of said first portion, and securing said first element and the base of said second element to the exposed parts of said first and second portions, respectively.

2,350,310
BLADE SHROUDING
Hans P. Dahlstrand, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Original application September 12, 1940, Serial No. 356,411. Divided and this application November 16, 1942, Serial No. 465,672
5 Claims. (Cl. 253—77)



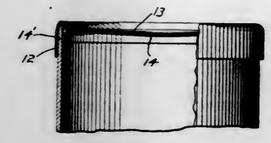
1. A blade structure embodying shroud and seal members comprising a blade having on one end thereof juxtapositioned short and long tenon portions, a first element disposed on said blade end and being apertured to receive and accessibly expose the end parts of said short and long tenon portions, a second element having a base portion superimposed on said first element, said base portion being apertured to receive and accessibly expose the end part of said long tenon portion and having a width sufficiently less than the width of said first element to leave exposed and accessible a part of the end of said short tenon portion, and means securing said first element and the base portion of said second element to the exposed and accessible end parts of said short and long tenon portions, respectively.

2,350,311
RETAINING DEVICE
Charles L. Hall, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 14, 1941, Serial No. 398,083
3 Claims. (Cl. 85—5)



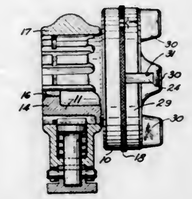
3. An assembled retaining cap and washer for pin operating installations of the type described, comprising a flanged retaining cap adapted to fit over the end of said pin, a cup-shaped washer of larger diameter and greater depth than said cap surrounding and housing said cap, a hollow rivet integral with said washer and extending through and clinched over said cap, and cooperating locking ring and groove elements on said cap and pin whereby said cap and washer may be secured to said pin as a unit by a simple snap fastener action.

2,350,312
CAN CLOSURE AND METHOD OF MAKING THE SAME
Alexander G. Hatch, Rutland, Vt., assignor to Fibre Can Machinery Corporation, Rutland, Vt., a corporation
Application February 10, 1943, Serial No. 475,351
1 Claim. (Cl. 229—5.5)



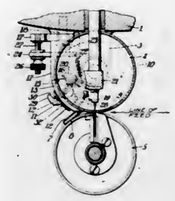
A closure for closing fibrous container bodies for the packaging of oil or the like, said closure comprising a body member having a disc for covering the top of the container and a peripheral flange adapted to engage the exterior of a container body, said disc being depressed inwardly to provide a central portion and a circumferential channel between the flange and central portion, a coating of normally non-viscous thermoplastic adhesive material on the inner face of the flange and the disc, said coating in the channel being of increased thickness to substantially fill the channel, said material being of the type which becomes viscous and tacky upon application of heat to provide a resilient sealing bead in the corner between the inner surface of a container body and the inner face of the disc of the closure when the closure is heat sealed to a container body.

2,350,313
BOLT THREADER
Carl H. Ingwer and Oscar E. Swanson, Elyria, Ohio, assignors to The Ridge Tool Company, North Ridgeville, Ohio, a corporation of Ohio
Application August 29, 1942, Serial No. 456,642
4 Claims. (Cl. 10—122)



1. A threading die comprising a body having a bore therethrough, a disk on said body having an opening therein of a diameter greater than the diameter of the bore, the portion of said disk defining the opening therein being configured to form a camming surface, a plurality of diametrically disposed thread cutting chasers supported on said disk, a face plate having grooves therein engageable with said chasers, said chasers having overhanging lips thereon engageable with the camming surface for adjusting the chasers radially of said body, said disk having circumferentially spaced apertures therein and locking means on said face plate extending through the apertures in said disk and engageable with said body to secure said chasers in a predetermined position.

2,350,314
FEEDING MECHANISM FOR SEWING MACHINES
Walter Kneissler, Roselle, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 29, 1941, Serial No. 390,866
26 Claims. (Cl. 112—18)



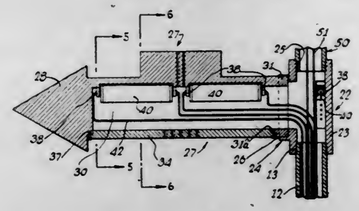
1. In a sewing machine having circularly moving feed-cups provided with cooperating work-engaging faces for supporting and feeding material through the machine, and mechanism for separating said feed-cups to facilitate the introduction and removal of the material therebetween; the improvement which consists in the provision of means for assisting the feed-cups in advancing the material through the machine, said means including a member adapted to cooperate with the peripheral face of one of said feed-cups, means supporting said member for turning movement about a substantially vertical axis, and means limiting the turning movement of said member about its axis so that the same will be maintained spaced from the peripheral face of its cooperating feed-cup when said feed-cups are separated for the introduction or removal of material therebetween.

2,350,315
FASTENER
Joseph Kral, Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 27, 1941, Serial No. 424,605
6 Claims. (Cl. 85—36)



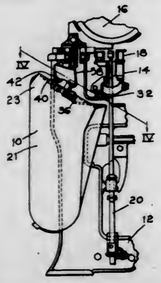
2. A fastener for clamping together an apertured member and a second member having a stud passed through the aperture of the first named member, said fastener being formed of spring material and having inner and outer arms normally disposed in divergent untensioned relation, each of said arms being formed with a stud receiving opening which are normally in non-registering alignment, a plurality of stud gripping tongues on said outer arm surrounding said opening thereof, said fastener being compressible by movement of the arms thereof toward a substantially parallel relation with the stud receiving openings in registering alignment whereby both arms of said fastneer may be passed over the stud to enable said tongues to grip said stud when the fastener is released.

2,350,316
RITE-LITE WAY
Herbert Meyer and Edna M. Spiegel, New York, N. Y., assignors to Nicholas Meyer, New York, N. Y.
Application January 26, 1943, Serial No. 473,600
1 Claim. (Cl. 40—145)



A street sign comprising a post, a hollow member secured to the upper end of the post having a pair of hollow wings, each wing having a vertical slot of dove-tail cross-section, a directional sign of transparent plastic material mounted on each wing, each directional sign comprising a top wall, and parallel side walls having display matter on the external surfaces thereof and being open at the bottom, and forming a chamber extending to the inner end thereof, a flanged cover closing the bottom of said chamber, and said directional sign having at its inner end a portion of dove-tail cross-section received in said slot, said side walls being formed with pairs of window openings, terminals within said chamber at the ends of said window openings, fluorescent bulbs in said chamber engaging said terminals and wiring for said terminals passing through said chamber, wings and tubular post.

2,350,317
BOBBIN RECEPTACLE AND SUPPORT THEREFOR
Edward C. Nichols, Upton, and Willard C. French, Milton, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application April 15, 1943, Serial No. 483,094
9 Claims. (Cl. 139—255)

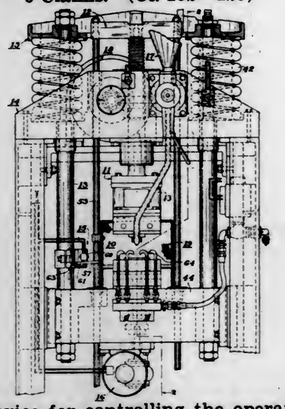


1. A loom having in combination, a loom frame, a shuttle box, filling carrier transfer mechanism cooperating with said shuttle box, a swingably mounted receptacle for receiving ejected filling carriers, and means arranged to support said receptacle on opposite sides thereof in position below said shuttle box to receive ejected filling carriers, said supporting means being constructed and arranged to permit said receptacle to return automatically to said filling carrier receiving position after having been displaced therefrom.

2,350,318
AMINOALKANES
Horace A. Shonle and Ewald Rohrmann, Indianapolis, Ind., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application April 9, 1942, Serial No. 438,304
6 Claims. (Cl. 167—65)

1. A composition selected from the class which consists of 2-amino-4-methylhexane and acid addition salts of 2-amino-4-methylhexane.

2,350,319
OPERATION CHECK FOR MOLDING MACHINES
William Strauss, Philadelphia, Pa., assignor to F. J. Stokes Machine Company, a corporation of Pennsylvania
Original application December 22, 1938, Serial No. 247,215. Divided and this application June 24, 1941, Serial No. 399,523
6 Claims. (Cl. 192—125)

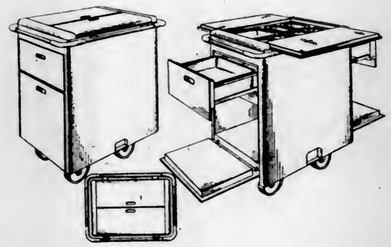


1. A device for controlling the operation of a molding press wherein a molded article is discharged from the press at the end of each molding cycle, said device comprising a chute for receiving said discharged article, a tiltable barrier normally biased to a position across the path of travel of said article in said chute and being tiltable by said article in its passage through said chute, control means operated by the tilting of said barrier for controlling the operation of said press, means for biasing said barrier in its tilted position independently of the discharged article, and means operated in timed relation with the operation of said press for returning said barrier to its normal position across the said chute.

DESIGNS

MAY 30, 1944

137,977
DESIGN FOR A FOOD CONVEYER
Roy J. Baunach, Toledo, Ohio, assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application March 13, 1944, Serial No. 112,879
Term of patent 14 years
(Cl. D33—19)



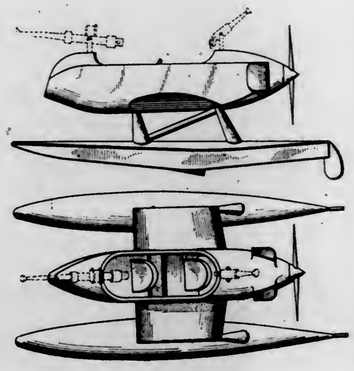
The ornamental design for a food conveyer, substantially as shown and described.

137,978
DESIGN FOR A KEY PENDANT
Clarence M. Bradbury, Brooklyn, N. Y.
Application March 17, 1944, Serial No. 112,939
Term of patent 7 years
(Cl. D45—17)



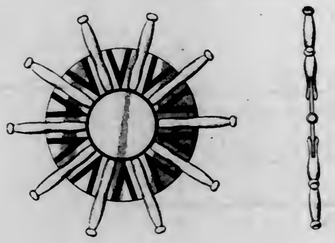
The ornamental design for a key pendant, as shown.

137,979
DESIGN FOR A HYDROPLANE
Antoine Gazda, Providence, R. I.
Application April 17, 1943, Serial No. 109,987
Term of patent 14 years
(Cl. D71—1)



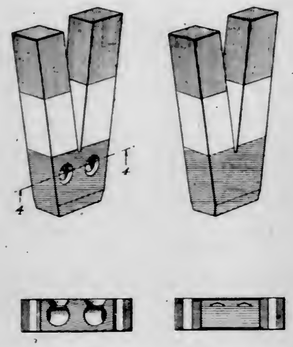
The ornamental design for a hydroplane, as shown.

137,980
DESIGN FOR A CLOTHESPIN DISK TOY
Frank E. Hoffman, New York, N. Y.
Application March 10, 1944, Serial No. 112,842
Term of patent 7 years
(Cl. D34—15)



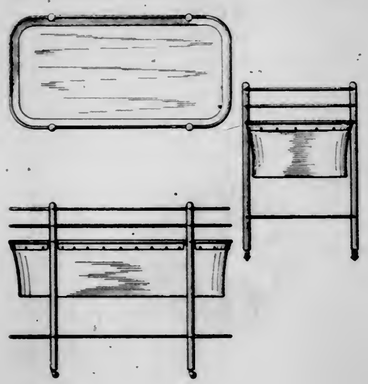
The ornamental design for a clothespin disk toy, as shown.

137,981
DESIGN FOR A TOY WHISTLE
Evan Hughes, Colfax, Iowa
Application December 6, 1943, Serial No. 111,922
Term of patent 3½ years
(Cl. D34—15)



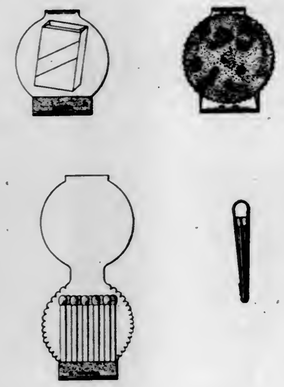
The ornamental design for a toy whistle, substantially as shown.

137,982
DESIGN FOR A COMBINED BABY CRIB AND BASSINET
Donald C. Lanese, Cleveland, Ohio, assignor to Designers for Industry, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 16, 1944, Serial No. 112,927
Term of patent 14 years
(Cl. D5—5)



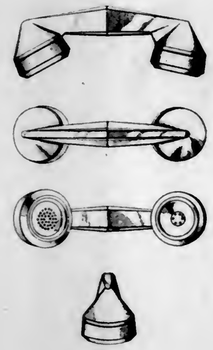
The ornamental design for a combined baby crib and bassinet, substantially as shown.

137,983
DESIGN FOR A MATCH BOOK
George C. Macdonald, Boston, Mass.
Application March 17, 1944, Serial No. 112,943
Term of patent 14 years
(Cl. D48—29)



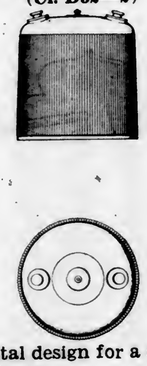
The ornamental design for a match book, substantially as shown.

137,984
DESIGN FOR A TELEPHONE HANDSET
Ernest S. McLarn, Manhasset, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 11, 1944, Serial No. 113,226
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a telephone handset, as shown.

137,985
DESIGN FOR A CONTAINER FOR SOAP DISPENSERS
Howard G. Mullett, Whitefish Bay, Wis., assignor to Bradley Washfountain Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 15, 1943, Serial No. 112,009
Term of patent 7 years
(Cl. D52—2)



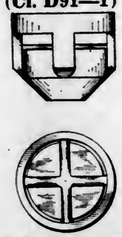
The ornamental design for a container for soap dispensers, as shown.

137,986
DESIGN FOR AN ELECTRIC SOLDERING IRON
Kelso Norman, San Francisco, Calif.
Application March 17, 1944, Serial No. 112,938
Term of patent 14 years
(Cl. D26—1)



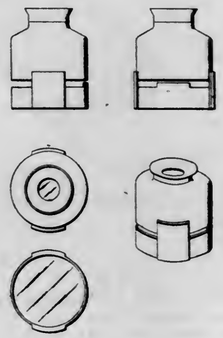
The ornamental design for an electric soldering iron, substantially as shown.

137,987
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application October 18, 1943, Serial No. 111,418
Term of patent 7 years
(Cl. D91—1)



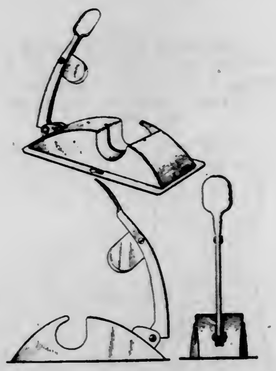
The ornamental design for a valve check, as shown.

137,988
DESIGN FOR A FILM VIEWER
William Oscar Schwartz and Grace Bertha Schwartz, Los Angeles, Calif.
Application March 25, 1944, Serial No. 113,043
Term of patent 14 years
(Cl. D61—1)



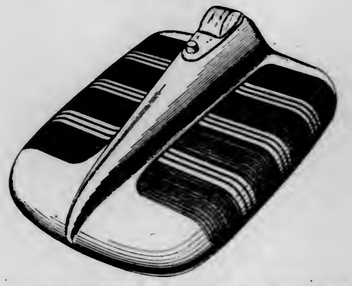
The ornamental design for a film viewer, substantially as shown.

137,989
DESIGN FOR A FOWL KILLING DEVICE
Alfred Silfen, Berkeley, Ill.
Application March 11, 1944, Serial No. 112,875
Term of patent 14 years
(Cl. D11—1)



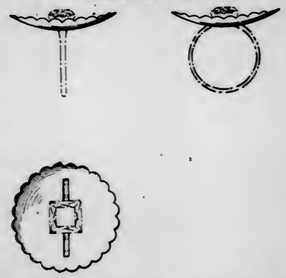
The ornamental design for a fowl killing device, substantially as shown.

137,990
DESIGN FOR A BATHROOM SCALE
Carl W. Sundberg, Detroit, Mich.
Application March 24, 1944, Serial No. 113,035
Term of patent 14 years
(Cl. D52—10)



The ornamental design for a bathroom scale, substantially as shown.

137,991
DESIGN FOR A FINGER RING
Joset Walker, New York, N. Y.
Application March 20, 1944, Serial No. 112,964
Term of patent 7 years
(Cl. D45—10)



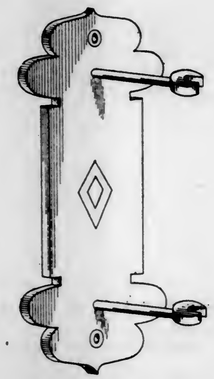
The ornamental design for a finger ring, as shown and described.

137,992
DESIGN FOR A COAT
Paul Adler, New York, N. Y.
Application April 24, 1944, Serial No. 113,343
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

137,993
DESIGN FOR AN ADVERTISING RACK
Nicolas Bencomo, Tampa, Fla.
Application December 1, 1943, Serial No. 111,860
Term of patent 14 years
(Cl. D1—2)



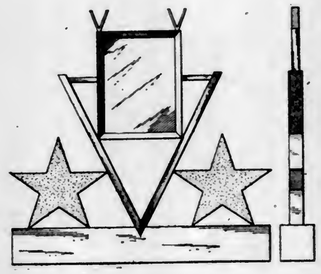
The ornamental design for an advertising rack as shown.

137,994
DESIGN FOR A WHISKEY GLASS, OR SIMILAR ARTICLE
Albert F. Mason, Morgantown, W. Va.
Application January 11, 1944, Serial No. 112,210
Term of patent 7 years
(Cl. D36—8)



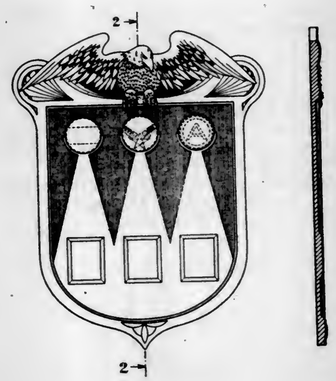
The ornamental design for a whiskey glass or similar article, as shown.

137,995
DESIGN FOR A PICTURE FRAME
Dewey L. Hicks, Vancouver, Wash.
Application April 11, 1944, Serial No. 113,221
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame, as shown.

137,996
DESIGN FOR A PHOTOGRAPHIC MOUNT OR ARTICLE OF SIMILAR NATURE
George W. Higgins, Columbus, Ohio
Application April 14, 1944, Serial No. 113,247
Term of patent 3½ years
(Cl. D29—20)



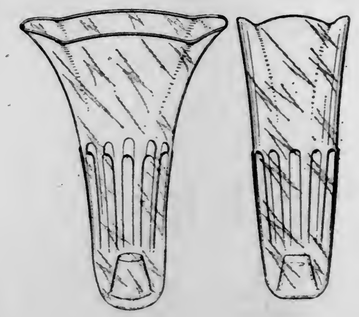
The ornamental design for a photographic mount or article of similar nature, substantially as shown.

137,997
DESIGN FOR A LAPEL ORNAMENT OR SIMILAR ARTICLE
Harry Morris, Chicago, Ill.
Application March 30, 1944, Serial No. 113,071
Term of patent 7 years
(Cl. D45—19)



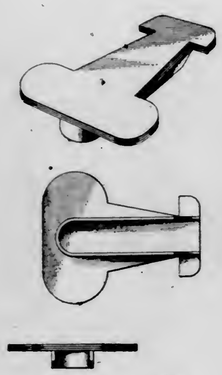
The ornamental design for a lapel ornament or similar article, substantially as shown.

137,998
DESIGN FOR A VASE
Glenn M. Shaw, Lakewood, Ohio, assignor to Eli I. Goulder, Cleveland Heights, Ohio
Application October 23, 1943, Serial No. 111,486
Term of patent 3½ years
(Cl. D29—28)



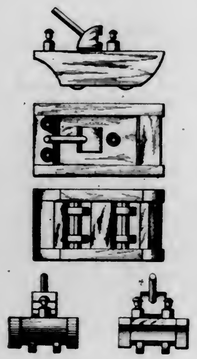
The ornamental design for a vase, substantially as shown.

137,999
DESIGN FOR A SKATE SEAT
Richard J. Daly, New York, N. Y.
Application October 15, 1943, Serial No. 111,366
Term of patent 7 years
(Cl. D34—14)



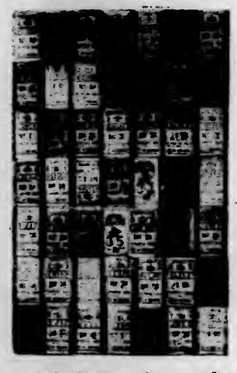
The ornamental design for a skate seat, as shown.

138,000
DESIGN FOR A TOY LANDING BARGE
James E. Gibson, Jr., High Point, N. C.
Application March 15, 1944, Serial No. 112,904
Term of patent 3½ years
(Cl. D34—15)



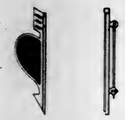
The ornamental design for a toy landing barge, as shown.

138,001
DESIGN FOR A SHEET OF WALLPAPER OR THE LIKE
Thomas M. O'Donnell, New York, N. Y.
Application April 1, 1944, Serial No. 113,112
Term of patent 14 years
(Cl. D59—10)



The ornamental design for a sheet of wallpaper or the like substantially as shown.

138,002
DESIGN FOR A PIN OR SIMILAR ARTICLE OF MANUFACTURE
Charles E. O'Malley and John W. Runyon, Los Angeles, Calif.
Application March 22, 1944, Serial No. 113,000
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article of manufacture, as shown.

138,003
DESIGN FOR A CLOSURE
John E. Sharp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 15, 1943, Serial No. 111,374
Term of patent 14 years
(Cl. D58—26)





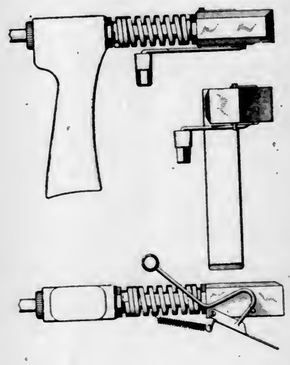
The ornamental design for a closure, as shown.

138,004
DESIGN FOR A CLOSURE
John E. Sharp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 15, 1943, Serial No. 111,375
Term of patent 14 years
(Cl. D58—26)



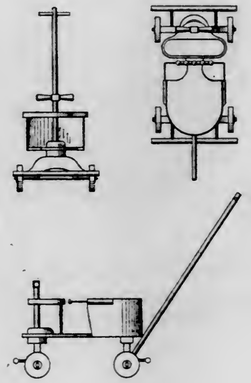
The ornamental design for a closure, as shown.

138,005
DESIGN FOR A PINCH TYPE HEAT SEALER
Carl Usinger, Wauwatosa, Wis.
Application November 26, 1943, Serial No. 111,796
Term of patent 14 years
(Cl. D26—1)



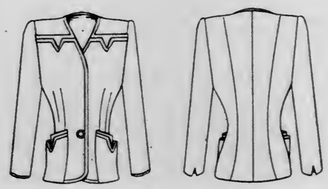
The ornamental design for a pinch type heat sealer, as shown.

138,006
DESIGN FOR A TOY WALKER FOR DOLLS
Erwin F. Wittenberg, Milwaukee, Wis.
Application February 5, 1944, Serial No. 112,467
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a toy walker for dolls, as shown.

138,007
DESIGN FOR A JACKET
Nathan Finkelstein, New York, N. Y.
Application May 4, 1944, Serial No. 113,454
Term of patent 3½ years
(Cl. D3—4)



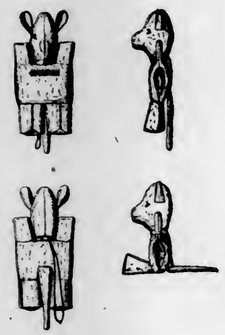
The ornamental design for a jacket, substantially as shown.

138,008
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Margaret Newport, Long Beach, Calif., assignor to Bullock's, Inc., Los Angeles, Calif., a corporation of Delaware
Application December 3, 1943, Serial No. 111,894
Term of patent 14 years
(Cl. D92—26)



The ornamental design for a tablecloth or similar article, substantially as shown.

138,009
DESIGN FOR A MUFF
Gladys B. Stackhouse, Huntington, N. Y.
Application April 11, 1944, Serial No. 113,216
Term of patent 14 years
(Cl. D3—2)



The ornamental design for a muff, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Maize-Products Company, New York, N. Y. Preparation derived from starch conversion products. Serial No. 468,101; May 30. Class 6.
America's Own Match Company, New York, N. Y. Matches. Serial Nos. 465,407–8; May 30. Class 9.
Beiro, John, New York, N. Y. Cigars. Serial No. 468,370; May 30. Class 17.
Berger, Herman, doing business as Standard Pharmaceutical Co., New York, N. Y. Laxatives. Serial No. 463,923; May 30. Class 6.
Blaustein, Wally, doing business as Les Parfums Corot, New York, N. Y. Perfume, toilet water, eau de cologne. Serial No. 467,227; May 30. Class 6.
Borea. (See Curran, Edward T.)
Boyd Manufacturing Company, Inc., The, Birmingham, Ala. Face creams, talcum powders, face powders, etc. Serial No. 463,718; May 30. Class 6.
Boyd Manufacturing Company, Inc., Birmingham, Ala. Hairdressing preparation. Serial No. 463,720; May 30. Class 6.
Brico Corporation, New York, N. Y. Chemical paste. Serial No. 466,524; May 30. Class 4.
Broemmel's Pharmaceuticals, San Francisco, Calif. Nasal drops, nasal spray, and throat spray. Serial No. 467,957; May 30. Class 6.
Cedarberg Manufacturing Company, Minneapolis, Minn. Mechanics self-chalking line reels. Serial No. 467,686; May 30. Class 23.
Christian Science Publishing Society, The, Boston, Mass. Newspaper column. Serial No. 469,222; May 30. Class 38.
Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Electric-circuit controlling devices and parts thereof and accessories therefor. Serial No. 467,310; May 30. Class 21.
Coro, Inc., New York, N. Y. Pearl necklaces, pearls and jewelry. Serial No. 463,166; May 30. Class 28.
Curran, Edward T., doing business as Borea, Brooklyn, N. Y. Skin emollient. Serial No. 467,446; May 30. Class 6.
Dawnwood Farm. (See Long, Dorothy A.)
Doall Company (A Division of Wilkie Enterprises, a copartnership) The, Des Plaines, Ill. Band saws. Serial No. 466,149; May 30. Class 23.
Du Pont, E. I., De Nemours and Company, Wilmington, Del. Agricultural fungicide. Serial No. 467,781; May 30. Class 6.
Durham, Alfred Duke, doing business as Keayp Foods, Pittsburgh, Pa. Food. Serial No. 464,845; May 30. Class 46.
Edwards, Wm., Company, The, Cleveland, Ohio. Coffee. Serial No. 468,783; May 30. Class 46.
Elco Food Products, Company. (See Lasry, Elias.)
Engineering Laboratories, Inc., Tulsa, Okla. Subsurface pressure measuring and recording equipment and apparatus, laboratory testing equipment, etc. Serial No. 464,852; May 30. Class 26.
Essway Manufacturing and Trading Co. (See Wetterhahn, Siegbert.)
F-R Publishing Corporation, The, New York, N. Y. Magazine column. Serial No. 468,510; May 30. Class 38.
Fairchild Bros. and Foster, New York, N. Y. Lathering, emollient and detergent preparation. Serial No. 468,956; May 30. Class 4.
Falk Products Co., Inc. Cadillac, Mich. Scientific blend of gelatinized wheat flour, salt and vegetable lecthins. Serial No. 465,797; May 30. Class 46.
Falk Products Co., Inc., Cadilla, Mich. Scientific blend of gelatinized wheat flour, salt and vegetable lecthins. Serial No. 465,801; May 30. Class 46.
Firestone Tire & Rubber Company, The, Akron, Ohio. Chemical composition. Serial No. 468,378; May 30. Class 6.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 467,969; May 30. Class 42.
General Die Stamping Tool Company, New York, N. Y. Electric revolving table. Serial No. 459,993; May 30. Class 21.
Grayleigh Sportswear Co., Chicago, Ill. Coats, jackets and raincoats. Serial No. 468,606; May 30. Class 39.
Greene, G. G., Manufacturing Corporation, Warren, Pa. Metal stampings and hardware. Serial No. 443,503; May 30. Class 13.
Griffith Laboratories, Inc., The, Chicago, Ill. Imitation cardamon. Serial No. 468,792; May 30. Class 46.
Griffith Laboratories, Inc., The, Chicago, Ill. Imitation nutmeg. Serial No. 468,794; May 30. Class 46.
Industrial Raw Materials Corporation, New York, N. Y. Wax. Serial No. 468,290; May 30. Class 16.
Industrial Raw Materials Corporation, New York, N. Y. Petroleum wax and mineral wax. Serial No. 468,294; May 30. Class 15.
Industrial Raw Materials Corporation, New York, N. Y. Wax. Serial No. 468,295; May 30. Class 16.
International Products Corporation, Baltimore, Md. Composite electrical insulating material. Serial No. 464,751; May 30. Class 21.
International Society of Christian Endeavor, Boston, Mass. Articles made of precious or semi-precious metals. Serial No. 466,304; May 30. Class 28.
J N T Mfg. Company Inc., New York, N. Y. Cleaner for Venetian blinds, woodwork, etc. Serial No. 466,160; May 30. Class 4.
J N T Mfg. Company Inc., New York, N. Y. Fabric spot remover and cleaner; moth resistant cleaner. Serial No. 466,165; May 30. Class 4.
J N T Mfg. Company Inc., New York, N. Y. Preparation for removing stains, and heat rings from varnish, lacquer, etc. Serial No. 466,166; May 30. Class 4.
Kaplan Rice Mill, Inc., Kaplan, La. Milled rice. Serial No. 468,888; May 30. Class 46.
Keayp Foods. (See Durham, A. D.)
Kempton, Edward S., doing business as Kempton Parts and Spring Company, Gastonia, N. C. Bolsters. Serial No. 468,261; May 30. Class 23.
Kempton Parts and Spring Company. (See Kempton, Edward S.)
Lasry, Elias, doing business as Elco Food Products Company, New York, N. Y. Canned tuna fish. Serial No. 468,891; May 30. Class 46.
Laucks, I. F., Inc., Seattle, Wash. Glue. Serial No. 463,353; May 30. Class 5.
Les Parfums Corot. (See Blaustein, Wally.)
Levy, Nat, New York, N. Y. Costume jewelry, not including watches. Serial No. 464,345; May 30. Class 28.
Liondale Shirt Company, New York, N. Y. Men's and boys' dress, sport and negligee shirts. Serial No. 468,676; May 30. Class 39.
Lister-Blackstone, Inc., West Allis, Wis. Portable electric floodlight and searchlight units. Serial No. 461,519; May 30. Class 21.
Long, Dorothy A., doing business as Dawnwood Farm, Amenia, N. Y. Salve. Serial No. 468,300; May 30. Class 6.
Maas, Stanley, Whitestone, Long Island, N. Y. Transparent blank forms. Serial No. 463,424; May 30. Class 37.
MacDermid Incorporated, Waterbury, Conn. Dry alkaline cleansing preparations. Serial No. 467,160; May 30. Class 6.
Marvel Tool and Machine Company, River Rouge, Mich. Live center tool. Serial No. 468,345; May 30. Class 23.
Medicated Products Company, Chicago, Ill. Prophylactic rubber articles. Serial Nos. 467,850–1; May 30. Class 44.
Meyer-Heltman, Norwood, Ohio. Card for use in games involving number sequences. Serial No. 463,700; May 30. Class 22.
Miller, Polk, Products Corp., Richmond, Va. Disinfectant. Serial No. 468,391; May 30. Class 6.
Mir-A-Lite Co. (See Saleh, William B.)
North American Pulp & Paper Corp., New York, N. Y. Paper stock. Serial No. 460,655; May 30. Class 37.
Omega Machine Company, Kansas City, Mo. Apparatus for visually observing the flow of a gas from a feeding device or the effect thereof. Serial No. 463,027; May 30. Class 26.
Packer Machine Company, The, Meriden, Conn. Polishing and buffing machines. Serial No. 468,305; May 30. Class 23.
Pantasote Leather Company, The, Passaic, N. J. Coated textile fabrics. Serial No. 468,899; May 30. Class 50.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Industrial chemicals. Serial No. 464,548; May 30. Class 6.
Poland, Foster H., High Point, N. C. Skin cream. Serial No. 461,932; May 30. Class 6.
Polar Fur Dyeing Co. Inc., New York, N. Y. Wallaby fur skins. Serial No. 466,847; May 30. Class 1.
R and R Plastics Inc., West Springfield, Mass. Hammers. Serial No. 468,307; May 30. Class 23.
Redwood Fibre Products Company, Inc., Santa Cruz, Calif. Comminuted redwood bark. Serial No. 459,014; May 30. Class 1.
Rosal Laboratories, Limited, Miami, Fla., and Philadelphia, Pa. Perfumes, toilet water, cold cream, etc. Serial No. 463,326; May 30. Class 6.
Saleh, William B., doing business as The Mir-A-Lite Co., Chicago, Ill. Polish and cleaner. Serial No. 466,848; May 30. Class 16.
Schultz, Lightfoot, Co., New York, N. Y., and Hoboken, N. J. Hand lotions, hand creams and astringents. Serial No. 468,488; May 30. Class 6.
Siegel Bros. Garment Corp., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 468,542; May 30. Class 39.

Siegel Bros. Garment Corp., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 468,981; May 30. Class 39.
Siegel Bros. Garment Corp., New York, N. Y. Woolen and worsted fabrics in the piece. Serial No. 468,982; May 30. Class 42.
Simplex Paper Corporation, Adrian, Mich. Liners formed and shaped for containers. Serial No. 464,071; May 30. Class 2.
Skol Company, Inc., New York, N. Y. Insect repellent lotion. Serial No. 467,796; May 30. Class 6.
Smith, Lois I., Klamath Falls, Oreg. Polish. Serial No. 444,204; May 30. Class 4.
Solomon Brothers Co., New York, N. Y. Outer shirts, jackets, trousers, sweaters. Serial No. 464,034; May 30. Class 39.
Standard Pharmaceutical Co. (See Berger, Herman.)
Sullivan Company, The, Memphis, Tenn. Specially prepared bituminous compound. Serial No. 465,995; May 30. Class 12.
Thall, David, doing business as Thall's Home Remedies, Manchester, N. H. Cough syrup, a nervine, a nutritive tonic, etc. Serial No. 468,048; May 30. Class 6.
Thall's Home Remedies. (See Thall, David.)
Traver Corporation, Chicago, Ill. Merchandise envelopes. Serial No. 465,014; May 30. Class 2.
U. S. Industrial Chemicals, Inc., New York, N. Y. Anticorrosion compound. Serial No. 468,358; May 30. Class 6.
Varnitor Company, The, Los Angeles, Calif. Chemical catalyst for combination with chemicals in academic demonstrations. Serial No. 467,417; May 30. Class 6.
Virginia Chemical Corporation, Piney River, Va. Defluorinated phosphate. Serial No. 468,213; May 30. Class 6.
Walter, Theodore, doing business as Theodore Walter Co., New York, N. Y. Genuine pearls, cultured pearls, and simulated pearls. Serial No. 468,313; May 30. Class 28.
Walter, Theodore, Co. (See Walter, Theodore.)
Wawak Company Inc., Chicago, Ill. Piece goods. Serial No. 469,611; May 30. Class 42.
Weber Bros. Metal Works, Chicago, Ill. Laboratory pulverizing mills, laboratory mashing apparatus. Serial No. 464,836; May 30. Class 26.
Wella Corporation, The, New York, N. Y. Permanent wave solution. Serial No. 468,404; May 30. Class 6.
West Kentucky Coal Company, Rockleigh, N. J., Earlington, Memphis, and Nashville, Tenn., Louisville, Sturgis, and Paducah, Ky., Chicago, Ill., St. Louis, Mo., and Evansville, Ind. Coal. Serial No. 468,214; May 30. Class 1.
Wetterhahn, Siegbert, doing business as Essway Manufacturing and Trading Co., New York, N. Y. Compacts and vanity cases, billfolds, wallets, etc. Serial No. 468,185; May 30. Class 3.
Whitehall, Incorporated, New Haven, Conn. Writing paper and envelopes. Serial No. 468,057; May 30. Class 37.
White Rock Mineral Springs Company, New York, N. Y. Mineral water, ginger ale, sarsaparilla, etc. Serial No. 468,550; May 30. Class 45.
Willette, Elizabeth A. (See Willette, Joe J., and E. A.)
Willette, Joe J., and Elizabeth A. Willette, North Ellsworth, Maine. Liniment. Serial No. 467,141; May 30. Class 6.
Williams, Furman, Canadian, Tex. Cosmetic ash. Serial No. 465,330; May 30. Class 6.
Zendman, I., Inc., New York, N. Y. Lace and netted fabric. Serial No. 468,861; May 30. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbett & Macke, Covington, Ky. New and reconditioned surgical blades. 407,349; May 30; Serial No. 466,520; published Mar. 21, 1944. Class 44.
Al's Potato Company. (See McConn, Alfred W.)
Amberg & Company, Incorporated. (See Lambert, Henry M., assignor.)
American Platinum Works, The, Newark, N. J. Silver brazing alloys and semifabricated articles of precious metals and their alloys. 407,331; May 30; Serial No. 465,970; published Mar. 21, 1944. Class 14.
American Platinum Works, The, Newark, N. J. Dental golds and alloys and hypodermic needles. 407,332; May 30; Serial No. 465,972; published Mar. 21, 1944. Class 44.
Anacin Company, The. (See Heidbrink Company, The, assignor.)
Arabol Mf'g Co., The, New York, N. Y. Oils, greases, and gums. 189,358; renewed Sept. 16, 1944.
Atlas Tack Corporation. (See Berbecker & Rowland Mfg. Co., assignor.)
B-T Company, Milwaukee, Wis. Wheeled wooden animals, etc. 407,322; May 30; Serial No. 465,308; published Mar. 21, 1944. Class 22.
Ballard & Ballard Co., Louisville, Ky. Wheat flour and particularly self-rising flour. 189,890; renewed Sept. 30, 1944.
Baltimore Water Paint Company. (See Swartz, Milton D.)
Barnard, Geo. D., Stationery Company, St. Louis, Mo. Combination letterheads and envelopes. 407,305; May 30; Serial No. 463,089; published Mar. 21, 1944. Class 37.
Bassetti, A., doing business as Prun-O-Date Distributing Co., Mountain View, Calif. Candy bar. 407,378; May 30. Class 46.
Bates, C. J., & Son, Chester, Conn. Needles. 407,385; May 30. Class 40.
Bay West Paper Company, Green Bay, Wis. Paper towels. 407,326; May 30; Serial No. 465,792; published Mar. 21, 1944. Class 37.
Berbecker & Rowland Mfg. Co., Waterville, Conn., assignor, by mesne assignments, to Atlas Tack Corporation, Fairhaven, Mass. Furniture nails. 186,117; renewed July 1, 1944.
Berger, Harry, doing business as Harry Berger Shirt Company, assignor to Kaylon Incorporated, New York, N. Y. Men's and boys' collars, pyjamas, night robes, etc. 189,300; renewed Sept. 16, 1944.
Berger, Harry, Shirt Company. (See Berger, Harry.)
Bradford Dyers' Association, Limited, The, Bradford, England. Cotton piece goods, woolen piece goods, etc. 188,069; renewed Aug. 19, 1944.
Bradford Dyers' Association, Limited, The, Bradford, England. Linings of alpaca and mohair, being piece goods. 188,189; renewed Aug. 19, 1944.
Bradford Dyers' Association, Limited, The, Bradford, England. Cotton piece goods. 188,190; renewed Aug. 19, 1944.
Bragdon, Lord & Nagle Co., The, assignor to McGraw-Hill Publishing Company, Inc., New York, N. Y. Weekly publication. 177,372; renewed Dec. 18, 1943.
Bush, Bernard, doing business as White Products Co., New York, N. Y. Infants' waterproof diapers. 407,383; May 30. Class 39.
California Turkey Industries. (See Foster, Harold E.)
Canova Foods, Incorporated. (See Maury-Cole Company, assignor.)
Carew Manufacturing Company. (See Hampshire Paper Company, assignor.)
Central Grocers Cooperative Inc. (See Central Wholesale Grocers, Inc.)
Central Wholesale Grocers, Inc., Chicago, Ill., by change of name to Central Grocers Cooperative Inc. Canned vegetables and canned fish. 182,345; renewed Apr. 8, 1944.
Coca-Cola Company, The, Atlanta, Ga., assignor, by mesne assignments, to The Coca-Cola Company, Wilmington, Del. Monthly publications. 189,966; renewed Sept. 30, 1944.
Cohn-Hall-Marx Co., New York, N. Y. Piece or bolt fabrics. 188,176; renewed Aug. 19, 1944.
Cohn-Hall-Marx Co., New York, N. Y. Cotton fabrics. 188,360; renewed Aug. 26, 1944.
C-O-Two Fire Equipment Company, Newark, N. J. Portable hand fire extinguisher. 407,382; May 30. Class 23.
Crowe Name Plate & Manufacturing Co., Chicago, Ill. Decorated base metal radio cabinets. 407,333; May 30; Serial No. 465,980; published Mar. 2, 1944. Class 32.
Davis, H. B., Company, The, assignor to The H. B. Davis Company, Baltimore, Md. Ready-mixed paint. 184,618–19; renewed May 27, 1944.
Dayton Scales Company, Dayton, assignor, by mesne assignments, to The Hobart Manufacturing Company, Troy, Ohio. Weighing scales. 188,989; renewed Sept. 9, 1944.
Debevoise Company, The, Brooklyn, N. Y. Paste paints, ready-mixed paints and enamels. 183,446; renewed Apr. 29, 1944.
Delegation of Meat Packers of Poland, Inc., New York, N. Y. Canned cooked ham. 407,370–1; May 30. Class 46.
Dennison Manufacturing Company, Framingham, Mass. Crêpe paper. 189,178; renewed Sept. 16, 1944.
Doyle, Thomas, Co., The, Hackensack, N. J., assignor to William R. Warner & Co., Inc., assignor, by mesne assignments, to William R. Warner & Co. Inc., New York, N. Y. Laxative. 189,091; renewed Sept. 9, 1944.
Duncan, John L., doing business as Duncan's, Manchester, England. Tobacco pouches. 183,659; renewed May 6, 1944.
Duncan's. (See Duncan, John L.)
Excello Accessories Manufacturers, Inc., Hempstead, N. Y. Fuses for use in electrical circuits in automobiles and airplanes. 407,329; May 30; Serial No. 465,842; published Mar. 21, 1944. Class 21.
Fabric Chemicals Co., Jersey City, N. J. Cleaning and detergent compound. 407,334; May 30; Serial No. 466,038; published Mar. 21, 1944. Class 4.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Hair tints. 188,756; renewed Sept. 2, 1944.
Farboil Paint Company, Inc., The. (See Baltimore Water Paint Company.)

Federal Waterproofing Company, Inc., Indianapolis, Ind. Membrane forming, concrete curing liquid. 407,319; May 30; Serial No. 465,021; published Mar. 21, 1944. Class 12.
Firestone Tire & Rubber Company, The, Akron, Ohio. Thermal insulation material. 407,337; May 30; Serial No. 466,215; published Mar. 21, 1944. Class 12.
Flako Products Corporation, Milltown, N. J. Prepared mix for making popovers. 407,357; May 30; Serial No. 466,644; published Mar. 21, 1944. Class 46.
Flossmoor Butter Company. (See Thibodeau, A. F., Company, Inc., assignor.)
Forest Products Engineering Company, Chicago, Ill. Printed forms. 187,129; renewed July 29, 1944.
Foster, Harold E., doing business as California Turkey Industries, Artesia, Calif. Eggs for use by hatcheries. 407,304; May 30; Serial No. 462,009; published Mar. 21, 1944. Class 46.
Fritzsche Brothers, Inc., New York, N. Y. Flavoring compounds. 188,327; renewed Aug. 26, 1944.
Fritzsche Brothers, Inc., New York, N. Y. Maltless flavoring compounds. 188,342; renewed Aug. 26, 1944.
Fritzsche Brothers, Inc., New York, N. Y. Essential oils and aromatic chemical preparations. 188,456; renewed Aug. 26, 1944.
Fritzsche Brothers, Inc., New York, N. Y. Flavoring extracts for foods. 189,984; renewed Sept. 30, 1944.
Garcia & Maggini Co., San Francisco, Calif., assignor, by mesne assignments, to San Juan Islands Cannery, Mount Vernon, Wash. Fresh deciduous fruits and fresh vegetables. 189,854; renewed Sept. 30, 1944.
Garedlla, George A. (See Thibodeau, A. F., Company, Inc.)
Gates Rubber Company, The, Denver, Colo. Power transmission belts. 407,321; May 30; Serial No. 465,201; published Mar. 21, 1944. Class 35.
General Motors Corporation, Detroit, Mich. Automobiles, motor vehicles, and parts thereof. 190,028; renewed Sept. 30, 1944.
General Pencil Company, Jersey City, N. J. Lead pencils, pencil boxes, erasers, etc. 189,506; renewed Sept. 23, 1944.
Gertz Distributing Company. (See Gertz, Samuel M.)
Gertz, Samuel M., doing business as Gertz Distributing Company, Chicago, Ill. Candy. 407,365; May 30; Serial No. 467,032; published Mar. 21, 1944. Class 46.
Golden West Products Company, Los Angeles, Calif. Marmalade. 407,358; May 30; Serial No. 466,648; published Mar. 21, 1944. Class 46.
Goldmark Hosiery Co. (See Newmark, Samuel F.)
Good Luck Glove Company. (See Missouri Glove Mfg. Co., assignor.)
Granat Bros., Inc., San Francisco, Calif. Engagement, wedding and other rings. 407,299; May 30; Serial No. 457,295; published Mar. 21, 1944. Class 28.
Great Atlantic & Pacific Tea Company, The, Jersey City, N. J., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Wheat flour. 182,131; renewed Apr. 1, 1944.
Great Atlantic & Pacific Tea Co., The, Jersey City, N. J., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Bacon. 185,150; renewed June 10, 1944.
Green, Albert T., doing business as Green & Green, New York, N. Y. Soap chips, soap flakes, soap powder, etc. 407,323; May 30; Serial No. 465,457; published Mar. 21, 1944. Class 4.
Green & Green. (See Green, Albert T.)
Griffin Manufacturing Co. Inc., New York, to Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Cleaning fluid, shoes polishes, shoe blackings, etc. 190,017; renewed Sept. 30, 1944.
Gundlach, George P., Cincinnati, Ohio. Processed product made from wheat flour. 407,317; May 30; Serial No. 464,967; published Mar. 21, 1944. Class 46.
Hampshire Paper Company, assignor to Carew Manufacturing Company, South Hadley Falls, Mass. Announcements, business stationery and mailing envelopes, etc. 189,410; renewed Sept. 16, 1944.
Harmonic Reed Corporation, Philadelphia, Pa. Harmonicas. 407,355; May 30; Serial No. 466,613; published Mar. 21, 1944. Class 36.
Haythornthwaite & Sons Limited, Burnley, England. Piece goods wholly or mainly of cotton. 407,308; May 30; Serial No. 463,672; published Mar. 21, 1944. Class 42.
Heidbrink Company, The, Minneapolis, Minn., assignor, by mesne assignments, to Anacin Company, Jersey City, N. J. Medicinal preparation. 187,621; renewed Aug. 5, 1944.
Hobart Manufacturing Company, The. (See Dayton Scale Company, assignor.)
Hollywood Brands, Inc. (See Martoccio, F. A., Macaroni Co., assignor.)
Hoyt, F. M., & Co., Inc. (See Hoyt, Frank M., assignor.)
Hoyt, Frank M., doing business as F. M. Hoyt & Co., assignor to F. M. Hoyt & Co. Inc., Amesbury, Mass. Candy. 186,139; renewed July 1, 1944.
Indian Arts and Crafts Board, Washington, D. C. Horse bridles. 407,343; May 30; Serial No. 466,388; published Mar. 21, 1944. Class 3.
Indian Arts and Crafts Board, Washington, D. C. Bells, boxes, bracelets, etc. 407,344; May 30; Serial No. 466,391; published Mar. 21, 1944. Class 28.
Indian Arts and Crafts Board, Washington, D. C. Handspun yarn. 407,345; May 30; Serial No. 466,395; published Mar. 7, 1944. Class 43.
Indian Arts and Crafts Board, Washington, D. C. Bags, baskets, wooden bowls, etc. 407,347; May 30; Serial No. 466,492; published Mar. 21, 1944. Class 2.
Indian Arts and Crafts Board, Washington, D. C. Dolls and children's toy canoes. 407,348; May 30; Serial No. 466,494; published Mar. 21, 1944. Class 22.
International Harvester Company, Chicago, Ill. Milk coolers, condensing units, water coolers, etc. 407,352–4; May 30; Serial Nos. 466,577–9; published Mar. 21, 1944. Class 31.
Irving Iron Works Company, to Irving Subway Grating Co. Inc., Long Island City, N. Y., successor. Metal gratings. 188,712; renewed Sept. 2, 1944.
Irving Subway Grating Co. Inc. (See Irving Iron Works Company.)
Jackson Industries. (See Krechman, David.)
Johns-Manville Corporation, New York, N. Y. Asphalt shingles. 407,301; May 30; Serial No. 459,909; published Jan. 11, 1943. Class 12.
Journal Company, The, Milwaukee, Wis. Morning edition of a newspaper. 190,012; renewed Sept. 30, 1944.
Kahn's, E., Sons, Company, The, Cincinnati, Ohio. Fresh pickled, smoked and cured meats. 189,912; renewed Sept. 30, 1944.
Kalep, Elvy, New York, N. Y. Toy consisting of a miniature paratrooper with a parachute attached. 407,339; May 30; Serial No. 466,329; published Mar. 21, 1944. Class 22.
Katz & Ogush, Inc., New York, N. Y., by change of name to William B. Ogush, Inc. Platinum, gold, and silver and combinations of these metals, etc. 188,335; renewed Aug. 26, 1944.
Kaylon Incorporated. (See Berger, Harry, assignor.)
KelRay Knitting Mills. (See Krumholz & Lichtblau.)
Kidd & Company, Chicago, Ill. Whipping cream powder. 407,374; May 30. Class 46.
Kind, Rudolf K., doing business as Thorens Company, New Hyde Park, N. Y. Pyrophoric cigar lighters and parts thereof. 407,379; May 30. Class 34.
Klein, Louis J., New York, N. Y. Combination floor brush and mop. 407,373; May 30. Class 29.
Knox Stove Works, Knoxville, Tenn. Coal and wood burning heating stoves. 407,336; May 30; Serial No. 466,200; published Mar. 21, 1944. Class 34.
Kops Bros. Inc., New York, N. Y. Corsets, brassières, bust supporters, etc. 182,013; renewed Apr. 1, 1944.
Krechman, David, doing business as Jackson Industries, Chicago, Ill. Toy pistols. 407,359; May 30; Serial No. 466,652; published Mar. 21, 1944. Class 22.
Krechman, David, doing business as Jackson Industries, Chicago, Ill. Toy pistols. 407,360; May 30; Serial No. 466,674; published Mar. 21, 1944. Class 22.
Krumholz & Lichtblau, doing business as KelRay Knitting Mills, New York, N. Y. Knitted and woven ladies', misses' and children's panties, step-ins, etc. 407,302; May 30; Serial No. 459,936; published Mar. 21, 1944. Class 39.
Krumholz & Lichtblau, doing business as KelRay Knitting Mills, New York, N. Y. Ladies', misses' and children's panties, step-ins, bloomers, etc. 407,303; May 30; Serial No. 460,739; published Mar. 21, 1944. Class 39.
Laco Products, Inc. (See Pompeian Mfg. Company, assignor.)
Lambert, Henry M., New York, assignor to Amberg & Company, Incorporated, Niagara Falls, N. Y. Overcoats, suits, raincoats. 184,977; renewed June 3, 1944.
Lamont, Corliss & Company, New York, N. Y. Chocolate coating. 182,984; renewed Apr. 22, 1944.
Lamont, Corliss & Company, New York, N. Y. Milk chocolate. 185,601; renewed June 24, 1944.
Lamont, Corliss & Company, New York, N. Y. Milk chocolate and nut milk chocolate. 185,602; renewed June 24, 1944.
Larson, M., Company, Chicago, Ill. Dental inlays, dental jacket crowns, dental bridgework, etc. 407,298; May 30; Serial No. 452,506; published Mar. 21, 1944. Class 44.
Linen Thread Co., The, assignor, by mesne assignments, to The Linen Thread Co., Inc., New York, N. Y. Thread and yarn. 186,044; renewed July 1, 1944.
Manhattan Shirt Company, The, New York, N. Y. Outer shirts, dress shirts, collars, etc. 189,514; renewed Sept. 23, 1944.
Manhattan Shirt Company, The, New York, N. Y. Bathing trunks and bathing suits. 407,361; May 30; Serial No. 466,704; published Mar. 21, 1944. Class 39.
Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. 407,362; May 30; Serial No. 466,762; published Mar. 21, 1944. Class 39.
Martoccio, F. A., Macaroni Co., Minneapolis, Minn., assignor to Hollywood Brands, Inc., Centralia, Ill. Candy bars. 189,886; renewed Sept. 30, 1944.

Mason, Sally, New York, N. Y. Toddlers', girls', teen age and misses' playsuits, pinafores, and blouses. 407,391; May 30. Class 39.
Matthews, W. N., Corporation, St. Louis, Mo. Electrical line construction supplies. 407,390; May 30. Class 21.
Maury-Cole Company, assignor, by mesne assignments, to Canova Foods, Incorporated, Memphis, Tenn. Talcum powder. 189,243; renewed Sept. 16, 1944.
McConn, Alfred W., doing business as Al's Potato Company, Moorhead, Minn. Potatoes in their natural state. 407,342; May 30; Serial No. 466,381; published Mar. 21, 1944. Class 46.
McDonald, Victoria, Cleveland, Ohio. Cleansing cream and wrinkle remover and face powder. 181,324; renewed Mar. 18, 1944.
McGraw-Hill Publishing Company, Inc. (See Bragdon, Lord & Nagle Co., The, assignor.)
McLaughlin, F. P., Yuba City, Calif. Fresh deciduous fruits. 407,363; May 30; Serial No. 466,764; published Mar. 21, 1944. Class 46.
Meals-on-Wheels, Inc., New York, N. Y. Sandwiches, cakes, and pies. 407,376; May 30. Class 46.
Metz, H. A., Laboratories, Inc., assignor to Winthrop Chemical Company, Inc., New York, N. Y. Sweet dietetic preparation. 188,731; renewed Sept. 2, 1944.
Michael, David, & Co., Philadelphia, Pa. Food flavoring extracts. 407,356; May 30; Serial No. 466,618; published Mar. 21, 1944. Class 46.
Missouri Glove Mfg. Co., University City, Mo., assignor to Good Luck Glove Company, Carbondale, Ill. Gloves and gauntlets. 189,204; renewed Sept. 16, 1944.
Mittelstaedt, Inc., New York, N. Y. Padding for hair dressing. 181,119; renewed Mar. 11, 1944.
Model Brassiere Co. Inc., New York, assignor to Model Brassiere Corp., Brooklyn, N. Y. Undergarment for women. 189,995; renewed Sept. 30, 1944.
Model Brassiere Corp. (See Model Brassiere Co. Inc., assignor.)
Moore & Co. Inc., Worcester, Mass., assignor to Plough Chemical Company, assignor to Plough, Inc., Memphis, Tenn. Hand soap. 186,614; renewed July 22, 1944.
Morris & Jones, Limited, Liverpool, England. Fresh, canned, preserved, bottled, and dried fruits. 187,974–5; renewed Aug. 12, 1944.
Mutual Pharmacal Company, Hammond, Ind. Mineral oil. 407,386; May 30. Class 6.
National Gypsum Company, Buffalo, N. Y. Rock wool. 407,372; May 30. Class 12.
National Oil Products Company, Harrison, N. J. Cutting oil. 407,312–15; May 30; Serial Nos. 464,670–3; published Mar. 21, 1944. Class 15.
Nazareth Waist Co., Nazareth, Pa. Infants' and children's waist suits, shirts, panties, etc. 407,340; May 30; Serial No. 466,360; published Mar. 21, 1944. Class 39.
Newmark, Samuel F., doing business as Goldmark Hosiery Co., New York, N. Y. Hosiery. 407,300; May 30; Serial No. 459,792; published Mar. 21, 1944. Class 39.
Ogush, William B., Inc. (See Katz & Ogush, Inc.)
Old Dutch Industrial Products Co., Inc., Kearny, N. J. Shoe dressings. 407,388; May 30. Class 4.
O'Neil, James R., doing business as J. R. O'Neil, San Francisco, Calif. Numbered disk tossing game. 407,325; May 30; Serial No. 465,764; published Mar. 21, 1944. Class 22.
Orangethorpe Citrus Association, Fullerton, Calif. Fresh citrous fruits, fresh deciduous fruits, dried fruits, etc. 189,220; renewed Sept. 16, 1944.
Orangethorpe Citrus Association, Fullerton, Calif. Fresh citrous fruits, fresh deciduous fruits, nuts, etc. 189,846; renewed Sept. 30, 1944.
Orangethorpe Citrus Association, Fullerton, Calif. Fresh citrous fruits, fresh deciduous fruits, nuts, etc. 189,847–8; renewed Sept. 30, 1944.
Orel Products Company, Bronx, N. Y. Face masks. 407,377; May 30. Class 44.
Patrick-Duluth Company. (See Patrick, F. A., & Co.)
Patrick, F. A., & Co., to Patrick-Duluth Company, Duluth, Minn., successor. Handkerchiefs and woolen blankets and steamer rugs. 185,616; renewed June 24, 1944.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Men's straw hats. 186,420; renewed July 8, 1944.
Placentia Mutual Orange Association, Placentia, Calif. Fresh citrous fruits. 189,867; renewed Sept. 30, 1944.
Placentia Mutual Orange Association, Placentia, Calif. Fresh citrous fruits. 189,882–3; renewed Sept. 30. 1944.
Plough Chemical Company. (See Moore & Co. Inc., assignor.)
Plough, Inc. (See Moore & Co. Inc., assignor.)
Pollak Behrens & Company, assignor, by mesne assignments, to Royal Robes, Inc., New York, N. Y. Men's robes. 189,829; renewed Sept. 30, 1944.
Pompeian Mfg. Company, The, Cleveland, Ohio, assignor, by mesne assignments, to Laco Products, Inc., Baltimore, Md. Rouges and face powder. 188,629; renewed Sept. 2, 1944.
Practical Supply Co., Inc., Chicago, Ill. Game consisting of a cardboard or paper base having printed matter thereon, etc. 407,318; May 30; Serial No. 465,008; published Mar. 21, 1944. Class 22.
Prun-O-Date Distributing Co. (See Bassetti, A.)
Reichhold Chemicals, Inc., Detroit, Mich. Resins. 407,306; May 30; Serial No. 463,103; published Mar. 21, 1944. Class 1.
Richmond Rubber Co. Inc., Richmond, Va. Tires of rubber, fabric, synthetic rubber, etc. 407,330; May 30; Serial No. 465,957; published Mar. 21, 1944. Class 35.
Roberts, David, Waukesha, Wis. Goat's milk. 407,297; May 30; Serial No. 449,921; published Mar. 21, 1944. Class 46.
Robertson, Theo. B., Products Co., Chicago, Ill. Soap. 184,795; renewed June 3, 1944.
Robinson, Hanson, Haverford, Pa. Card game. 407,310; May 30; Serial No. 464,618; published Mar. 21, 1944. Class 22.
Rohm & Haas Company, Philadelphia, Pa. Electrical insulating materials in the form of films, etc. 407,350; May 30; Serial No. 466,551; published Mar. 21, 1944. Class 21.
Royal Curtain Manufacturing Co., Hyde Park, Mass. Curtains made of cotton. 407,307; May 30; Serial No. 463,358; published Mar. 21, 1944. Class 42.
Royal Robes, Inc. (See Pollak Behrens & Company, assignor.)
Rubel, John, doing business as John Rubel Co., New York, N. Y. Brooches, bracelets, necklaces, etc. 407,311; May 30; Serial No. 464,623; published Mar. 21, 1944. Class 28.
Ruiz Bros., Guadalupe, Calif. Fresh vegetables. 407,364; May 30; Serial No. 466,770; published Mar. 21, 1944. Class 46.
San Juan Islands Cannery. (See Garcia & Maggini Co., assignor.)
Schwab, Louis, doing business as Stevens & Co., New York, N. Y., assignor to Stevens Walden Inc., Worcester, Mass. Mechanics' tools. 183,852; renewed May 6, 1944.
Servel, Inc., Evansville, Ind., and New York, N. Y. Lubricating oil. 407,346; May 30; Serial No. 466,490; published Mar. 21, 1944. Class 15.
Shapleigh Hardware Company, St. Louis, Mo. Golf clubs, golf balls, and golf bags. 185,264; renewed June 10, 1944.
Shapleigh Hardware Company. (See Simmons Hardware Company, assignor.)
Simmons Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Lubricating oils. 189,032; renewed Sept. 9, 1944.
Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 407,384; May 30. Class 2.
Southern Spring Bed Company, Atlanta, Ga. Beds, bed springs, mattresses, etc. 407,368; May 30; Serial No. 467,139; published Mar. 21, 1944. Class 32.
Spinnerin Yarn Co., Inc., New York, N. Y. Yarn. 407,338; May 30; Serial No. 466,267; published Mar. 7, 1944. Class 43.
Squires, Harry. (See Squirsky, Harry.)
Squirsky, Harry, doing business as Superior Mineral Water Company, by change of name to Harry Squires, Thompsonville, Conn. Beverage. 187,761; renewed Aug. 12, 1944.
Staley, A. E., Manufacturing Company, Decatur, Ill. Starch for food purposes, salad and cooking oil, etc. 407,381; May 30. Class 46.
Standard Brands Incorporated, New York, N. Y. Chili sauce, tomato catsup, tomato soup, etc. 407,389; May 30. Class 46.
Steinway & Sons, New York, N. Y. Resin bonded wood furniture. 407,327; May 30; Serial No. 465,833; published Mar. 21, 1944. Class 32.
Sterling Engine Company, Buffalo, N. Y. Internal-combustion engines. 184,866; renewed June 3, 1944.
Sterling Engine Company, Buffalo, N. Y. Internal-combustion engines. 185,956–8; renewed July 1, 1944.
Sterling Engine Company, Buffalo, N. Y. Internal-combustion engines. 185,977; renewed July 1, 1944.
Steuben Society of America, New York, N. Y. Bulletin and pamphlets. 183,651; renewed May 6, 1944.
Stevens & Co., Inc. (See Schwab, Louis.)
Stevens Walden Inc. (See Schwab, Louis, assignor.)
Strohmeyer & Arpe Company, New York, N. Y. Tomato products. 189,304; renewed Sept. 16, 1944.
Stroock, S., & Co., Inc., New York, N. Y. Fabric in the piece. 189,917–18; renewed Sept. 30, 1944.
Superba Packing Company, Ltd. (See Superba Packing Co.)
Superba Packing Co., to Superba Packing Company, Ltd., San Francisco, Calif., successor. Canned ravioli, canned spaghetti, and canned mushroom gravy. 184,321; renewed May 20, 1944.
Superior Mineral Water Company. (See Squirsky, Harry.)
Superior Olive Products Co., Visalia, Calif. Olive products. 407,341; May 30; Serial No. 466,369; published Mar. 21, 1944. Class 46.
Swartz, Milton D., doing business as Baltimore Water Paint Company, to The Farboil Paint Company, Inc., Baltimore, Md., successor. Paints. 183,456; renewed Apr. 29, 1944.
Tardiff, George E., Woodridge, N. J. Row boats, sail boats, and outboard motor boats. 407,320; May 30; Serial No. 465,157; published Mar. 21, 1944. Class 19.

Texas Pharmacal Company, San Antonio, Tex. Cosmetic preparations. 407,387; May 30. Class 6.
Thibodeau, A. F., Company, Inc. assignor to George A. Gardella, doing business as Flossmoor Butter Company, Detroit, Mich. Butter. 189,902; renewed Sept. 30, 1944.
Thorens Company. (See Kind, Rudolf K.)
Tidy Products Corporation, New York, N. Y., assignor to Tidy Products Company. Infant's or child's sleeping garment. 407,369; May 30. Class 39.
Tremco Manufacturing Company, The, Cleveland, Ohio. Caulking and pointing compounds, etc. 407,335; May 30; Serial No. 466,180; published Mar. 21, 1944. Class 12.
Union Bag & Paper Corporation, New York, N. Y. Wrapping paper. 189,413–14; renewed Sept. 16, 1944.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 407,316; May 30; Serial No. 464,863; published Mar. 21, 1944. Class 2.
Universal Milk Company, The, Dover, Del. Evaporated skimmed milk. 189,978; renewed Sept. 30, 1944.
Vanadium-Alloys Steel Company, Latrobe, Pa. Punch and chisel steel. 407,351; May 30; Serial No. 466,560; published Mar. 21, 1944. Class 14.
Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Food flavoring extract. 407,324; May 30; Serial No. 465,620; published Mar. 21, 1944. Class 46.
Vitrolite Construction Company, The, Detroit, Mich. Surface plates. 407,380; May 30. Class 26.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Suits, dresses, cloaks, etc. 189,842; renewed Sept. 30, 1944.
Warner, William R., & Co., Inc. (See Doyle, Thomas, Co., The, assignor.)
Weinreich Brothers Co. (See Weinreich, Sol E.)
Weinreich, Sol E., doing business as Weinreich Brothers Co., New York, N. Y. Pearl necklaces, pearls, and jewelry. 407,328; May 30; Serial No. 465,837; published Mar. 21, 1944. Class 28.
Wertheimer McGuin Seed Co., Ligonier, Ind. Field seeds, clover seeds, timothy seeds, etc. 407,309; May 30; Serial No. 464,561; published Mar. 21, 1944. Class 1.
White Products Co. (See Bush, Bernard.)
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. 407,375; May 30. Class 15.
Winthrop Chemical Company, Inc. (See Farbenfabriken vorm. Friedr. Bayer & Co., assignor.)
Winthrop Chemical Company, Inc. (See Metz, H. A., Laboratories, Inc.)
Winthrop Chemical Company Inc., by merger to Winthrop Chemical Company, Inc., New York, N. Y. Diuretic and antisyphilitic medicines. 188,420; renewed Aug. 26, 1944.
Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. 407,366; May 30; Serial No. 467,058; published Mar. 21, 1944. Class 44.
Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. 407,367; May 30; Serial No. 467,060; published Mar. 21, 1944. Class 44.
Zerega's, A., Sons to A. Zerega's, Inc., Brooklyn, N. Y., successor. Alimentary paste food products. 183,754–5; renewed May 6, 1944.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Resins. Reichhold Chemicals, Inc. 407,306; May 30; Serial No. 463,103; published Mar. 21, 1944.
Seeds, clover seeds, timothy seeds, etc., Field. Weitheimer McGuin Seed Co. 407,309; May 30; Serial No. 464,561; published Mar. 21, 1944.

CLASS 2

Bags, baskets, wooden bowls, etc. Indian Arts and Crafts Board. 407,347; May 30; Serial No. 466,492; published Mar. 21, 1944.
Bags, Paper. Southern Advance Bag & Paper Co. Inc. 407,384; May 30.
Bags, Paper. Union Bag & Paper Corporation. 407,316; May 30; Serial No. 464,863; published Mar. 21, 1944.

CLASS 3

Bridles, Horse. Indian Arts and Crafts Board. 407,343; May 30; Serial No. 466,388; published Mar. 21, 1944.

CLASS 4

Cleaning and detergent compound. Fabric Chemicals Co. 407,334; May 30; Serial No. 466,038; published Mar. 21, 1944.
Cleaning fluid, shoe polishes, shoe blackings, etc. Griffin Manufacturing Co. Inc. 190,017; renewed Sept. 30, 1944.
Shoe dressings. Old Dutch Industrial Products Co. 407,388; May 30.
Soap. Theo. B. Robertson Products Co. 184,795; renewed June 3, 1944.
Soap chips, soap flakes, soap powder, etc. A. T. Green. 407,323; May 30; Serial No. 465,457; published Mar. 21, 1944.
Soap, Hand. Moore & Co. Inc. 186,614; renewed July 22, 1944.

CLASS 6

Cosmetic preparations. Texas Pharmacal Company. 407,387; May 30.
Cream and wrinkle remover and face powder, Cleansing. V. McDonald. 181,324; renewed Mar. 18, 1944.
Dietetic preparation, Sweet. H. A. Metz Laboratories, Inc. 188,731; renewed Sept. 2, 1944.
Hair tints. Farbenfabriken vorm. Friedr. Bayer & Co. 188,756; renewed Sept. 2, 1944.
Laxative. Thomas Doyle & Co. 189,091; renewed Sept. 9, 1944.
Medicinal preparation. Heidbrink Company. 187,621; renewed Aug. 5, 1944.
Medicines, Diuretic and antisyphilitic. Winthrop Chemical Company Inc. 188,420; renewed Aug. 26, 1944.
Oil, Mineral. Mutual Pharmacal Company. 407,386; May 30.
Oils and aromatic chemical preparations, Essential. Fritzsche Brothers, Inc. 188,456; renewed Aug. 26, 1944.
Oils, greases, and gums. Arabol Mf'g Co. 189,358; renewed Sept. 16, 1944.
Powder, Talcum. Maury-Cole Company. 189,243; renewed Sept. 16, 1944.
Rouges and face powder. Pompeian Mfg. Company. 188,629; renewed Sept. 2, 1944.

CLASS 8

Pouches, Tobacco. J. L. Duncan. 183,659; renewed May 6, 1944.

CLASS 12

Caulking and pointing compounds, etc. Tremco Manufacturing Company. 407,335; May 30; Serial No. 466,180; published Mar. 21, 1944.
Insulation material, Thermal. Firestone Tire & Rubber Company. 407,337; May 30; Serial No. 466,215; published Mar. 21, 1944.
Membrane forming, concrete curing liquid. Federal Waterproofing Company. 407,319; May 30; Serial No. 465,021; published Mar. 21, 1944.
Metal gratings. Irving Iron Works Company. 188,712; renewed Sept. 2, 1944.
Rock wool. National Gypsum Company. 407,372; May 30.
Shingles, Asphalt. Johns-Manville Corporation. 407,301; May 30; Serial No. 459,909; published Jan. 11, 1943.

CLASS 13

Nails, Furniture. Berbecker & Rowland Mfg. Co. 186,117; renewed July 1, 1944.

CLASS 14

Alloys and semifabricated articles of precious metals and their alloys, Silver brazing. American Platinum Works. 407,331; May 30; Serial No. 465,970; published Mar. 21, 1944.
Platinum, gold, and silver, and combinations of these metals, etc. Katz & Ogush, Inc. 188,335; renewed Aug. 26, 1944.
Steel, Punch and chisel. Vanadium-alloys Steel Company. 407,351; May 30; Serial No. 466,560; published Mar. 21, 1944.

CLASS 15

Candles. Will & Baumer Candle Co. 407,375; May 30.
Oil, Cutting. National Oil Products Company. 407,312–15; May 30; Serial Nos. 464,670–3; published Mar. 21, 1944.
Oil, Lubricating. Servel, Inc. 407,346; May 30; Serial No. 466,490; published Mar. 21, 1944.
Oils, Lubricating. Simmons Hardware Company. 189,032; renewed Sept. 9, 1944.

CLASS 16

Paint, Ready-mixed. H. B. Davis Company. 184,618–19; renewed May 27, 1944.
Paints. M. D. Swartz. 183,456; renewed Apr. 29, 1944.
Paints, ready-mixed paints, and enamels, Paste. Debevoise Company. 183,446; renewed Apr. 29, 1944.

CLASS 19

Automobiles, motor vehicles, and parts thereof. General Motors Corporation. 190,028; renewed Sept. 30, 1944.
Boats, sail boats, and outboard motor boats, Row. G. E. Tardiff. 407,320; May 30; Serial No. 465,157; published Mar. 21, 1944.

CLASS 21

Electrical insulating materials in the form of films, etc. Röhm & Haas Company. 407,350; May 30; Serial No. 466,551; published Mar. 21, 1944.
Electrical line construction supplies. W. N. Matthews Corporation. 407,390; May 30.
Fuses for use in electrical circuits in automobiles and airplanes. Excello Accessories Manufacturers, Inc. 407,329; May 30; Serial No. 465,842; published Mar. 21, 1944.

CLASS 22

Clubs, golf balls, and golf bags, Golf. Shapleigh Hardware Company. 185,264; renewed June 10, 1944.
Dolls and children's toy canoes. Indian Arts and Crafts Board. 407,348; May 30; Serial No. 466,494; published Mar. 21, 1944.
Game, Card. Hanson Robinson. 407,310; May 30; Serial No. 464,618; published Mar. 21, 1944.
Game consisting of a cardboard or paper base having printed matter thereon, etc. Practical Supply Co. 407,318; May 30; Serial No. 465,008; published Mar. 21, 1944.
Game, Numbered disk tossing. J. R. O'Neil. 407,325; May 30; Serial No. 465,764; published Mar. 21, 1944.
Toy consisting of a miniature paratrooper with a parachute attached. E. Kalep. 407,339; May 30; Serial No. 466,329; published Mar. 21, 1944.
Toy pistols. D. Krechman. 407,359; May 30; Serial No. 466,652; published Mar. 21, 1944.
Toy pistols. D. Krechman. 407,360; May 30; Serial No. 466,674; published Mar. 21, 1944.
Wheeled wooden animals, etc. B-T Company. 407,322; May 30; Serial No. 465,308; published Mar. 21, 1944.

CLASS 23

Engines, Internal-combustion. Sterling Engine Company. 184,866; renewed June 3, 1944.
Engines, Internal-combustion. Sterling Engine Company. 185,956–8; renewed July 2, 1944.
Engines, Internal-combustion. Sterling Engine Company. 185,977; renewed July 1, 1944.
Hand fire extinguisher, Portable. C-O-Two Fire Equipment Company. 407,382; May 30.
Tools, Mechanics'. L. Schwab. 183,852; renewed May 6, 1944.

CLASS 26

Scales, Weighing. Dayton Scale Company. 188,989; renewed Sept. 9, 1944.
Surface plates. Vitrolite Construction Company. 407,380; May 30.

CLASS 28

Bells, boxes, bracelets, etc. Indian Arts and Crafts Board. 407,344; May 30; Serial No. 466,391; published Mar. 21, 1944.
Brooches, bracelets, necklaces, etc. J. Rubel. 407,311; May 30; Serial No. 464,623; published Mar. 21, 1944.
Necklaces, pearls, and jewelry, Pearl. S. E. Weinreich. 407,328; May 30; Serial No. 465,837; published Mar. 21, 1944.
Rings, Engagement, wedding and other. Granat Bros., Inc. 407,299; May 30; Serial No. 457,295; published Mar. 21, 1944.

CLASS 29

Brush and mop, Combination floor. L. J. Klein. 407,373; May 30.

CLASS 31

Coolers, condensing units, water coolers, etc., Milk. International Harvester Company. 407,352–4; May 30; Serial Nos. 466,577–9; published Mar. 21, 1944.

CLASS 32

Beds, bed springs, mattresses, etc. Southern Spring Bed Company. 407,368; May 30; Serial No. 467,139; published Mar. 21, 1944.
Cabinets, Decorated base metal radio. Crowe Name Plate & Manufacturing Co. 407,333; May 30; Serial No. 465,980; published Mar. 2, 1944.
Furniture, Resin bonded wood. Steinway & Sons. 407,327; May 30; Serial No. 465,833; published Mar. 21, 1944.

CLASS 34

Cigar lighters and parts thereof, Pyrophoric. R. K. Kind. 407,379; May 30.
Stoves, Coal and wood burning heating. Knox Stove Works. 407,336; May 30; Serial No. 466,200; published Mar. 21, 1944.

CLASS 35

Belts, Power transmission. Gates Rubber Company. 407,321; May 30; Serial No. 465,201; published Mar. 21, 1944.
Tires of rubber, fabric, synthetic rubber, etc. Richmond Rubber Co. Inc. 407,330; May 30; Serial No. 465,957; published Mar. 21, 1944.

CLASS 36

Harmonicas. Harmonic Reed Corporation. 407,355; May 30; Serial No. 466,613; published Mar. 21, 1944.

CLASS 37

Announcements, business stationery, mailing envelopes, etc. Hampshire Paper Company. 189,410; renewed Sept. 16, 1944.
Letterheads and envelopes, Combination. Geo. D. Barnard Stationery Company. 407,305; May 30; Serial No. 463,089; published Mar. 21, 1944.
Paper, Crêpe. Dennison Manufacturing Company. 189,178; renewed Sept. 16, 1944.
Paper, Wrapping. Union Bag & Paper Corporation. 189,413–14; renewed Sept. 16, 1944.
Pencils, pencil boxes, erasers, etc., Lead. General Pencil Company. 189,506; renewed Sept. 23, 1944.
Printed forms. Forest Products Engineering Company. 187,129; renewed July 29, 1944.
Towels, Paper. Bay West Paper Company. 407,326; May 30; Serial No. 465,792; published Mar. 21, 1944.

CLASS 38

Bulletin and pamphlets. Steuben Society of America. 183,651; renewed May 6, 1944.
Newspaper, Morning edition of a. Journal Company. 190,012; renewed Sept. 30, 1944.
Publication, Weekly. Bragdon, Lord & Nagle Co. 177,372; renewed Dec. 18, 1943.
Publications, Monthly. Coca-Cola Company. 189,966; renewed Sept. 30, 1944.

CLASS 39

Bathing trunks and bathing suits. Manhattan Shirt Company. 407,361; May 30; Serial No. 466,704; published Mar. 21, 1944.
Collars, pyjamas, night robes, etc., Men's and boys'. H. Berger. 189,300; renewed Sept. 16, 1944.
Corsets, brassières, bust supporters, etc. Kops Bros. Inc. 182,013; renewed Apr. 1, 1944.
Diapers, Infants' waterproof. B. Bush. 407,383; May 30.
Gloves and gauntlets. Missouri Glove Mfg. Co. 189,204; renewed Sept. 16, 1944.
Handkerchiefs and woolen blankets and steamer rugs. F. A. Patrick & Co. 185,616; renewed June 24, 1944.
Hats, Men's straw. J. C. Penny Company. 186,420; renewed July 8, 1944.
Hosiery. S. F. Newmark. 407,300; May 30; Serial No. 459,792; published Mar. 21, 1944.
Infant's or child's sleeping garment. Tidy Products Corporation. 407,369; May 30.
Overcoats, suits, raincoats. M. H. Lambert. 184,977; renewed June 3, 1944.
Panties, step-ins, etc., Knitted and woven ladies', misses' and children's. Krumholz & Lichtblau. 407,302; May 30; Serial No. 459,936; published Mar. 21, 1944.
Panties, step-ins, bloomers, etc., Ladies', misses', and children's. Krumholz & Lichtblau. 407,303; May 30; Serial No. 460,739; published Mar. 21, 1944.
Playsuits, pinafores, and blouses, Toddlers', girls', teen age, and misses'. S. Mason. 407,391; May 30.
Robes, Men's. Pollak Behrens & Company. 189,829; renewed Sept. 30, 1944.
Shirts, dress shirts, collars, etc., Outer. Manhattan Shirt Company. 189,514; renewed Sept. 23, 1944.
Shirts, Men's outer. Manhattan Shirt Company. 407,362; May 30; Serial No. 466,762; published Mar. 21, 1944.
Shirts, panties, etc., Infants' and children's waist suits. Nazareth Waist Co. 407,340; May 30; Serial No. 466,360; published Mar. 21, 1944.
Suits, dresses, cloaks, etc. John Wanamaker Philadelphia. 189,842; renewed Sept. 30, 1944.
Undergarment for women. Model Brassiere Co. 189,995; renewed Sept. 30, 1944.

CLASS 40

Needles. C. J. Bates & Son. 407,385; May 30.
Padding for hair dressing. E. Bittelstaedt, Inc. 181,119; renewed Mar. 11, 1944.

CLASS 42

Cotton fabrics. Cohn-Hall-Marx Co. 188,360; renewed Aug. 26, 1944.
Curtains made of cotton. Royal Curtain Manufacturing Co. 407,307; May 30; Serial No. 463,358; published Mar. 21, 1944.
Fabric in the piece. S. Stroock & Co. 189,917–18; renewed Sept. 30, 1944.
Fabrics, Piece or bolt. Cohn-Hall-Marx Co. 188,176; renewed Aug. 19, 1944.
Handkerchiefs and woolen blankets and steamer rugs. F. A. Patrick & Co. 185,616; renewed June 24, 1944.
Linings of alpaca and mohair, being piece goods. Bradford Dyers' Association, Limited. 188,189; renewed Aug. 19, 1944.
Piece goods, Cotton. Bradford Dyers' Association, Limited. 188,190; renewed Aug. 19, 1944.
Piece goods wholly or mainly of cotton. Haythornthwaite & Sons Limited. 407,308; May 30; Serial No. 463,672; published Mar. 21, 1944.
Piece goods, woolen piece goods, etc., Cotton. Bradford Dyers' Association, Limited. 188,069; renewed Aug. 19, 1944.

CLASS 43

Thread and yarn. Linen Thread Co. 186,044; renewed July 1, 1944.
Yarn. Spinnerin Yarn Co. 407,338; May 30; Serial No. 466,267; published Mar. 7, 1944.
Yarn, Hand-spun. Indian Arts and Crafts Board. 407,345; May 30; Serial No. 466,395; published Mar. 7, 1944.

CLASS 44

Dental golds and alloys and hypodermic needles. American Platinum Works. 407,332; May 30; Serial No. 465,972; published Mar. 21, 1944.
Dental inlays, dental jacket crowns, dental bridgework, etc. M. Larson Company. 407,298; May 30; Serial No. 452,506; published Mar. 21, 1944.
Electrical hearing aids and parts thereof. Zenith Radio Corporation. 407,366; May 30; Serial No. 467,058; published Mar. 21, 1944.
Electrical hearing aids and parts thereof. Zenith Radio Corporation. 407,367; May 30; Serial No. 467,060; published Mar. 21, 1944.
Face masks. Orel Products Company. 407,377; May 30.
Surgical blades, New and reconditioned. Abbett & Macke. 407,349; May 30; Serial No. 466,520; published Mar. 21, 1944.

CLASS 45

Beverage. H. Squirsky. 187,761; renewed Aug. 12, 1944.
Flavoring compounds, Maltless. Fritzsche Brothers, Inc. 188,342; renewed Aug. 26, 1944.

CLASS 46

Bacon. Great Atlantic & Pacific Tea Co. 185,150; renewed June 10, 1944.
Butter. A. F. Thibodeau Company. 189,902; renewed Sept. 30, 1944.
Candy. S. M. Gertz. 407,365; May 30; Serial No. 467,032; published Mar. 21, 1944.
Candy. F. M. Hoyt & Co. 186,139; renewed July 1, 1944.
Candy bar. A. Bassetti. 407,378; May 30.
Candy bars. F. A. Martoccio Macaroni Co. 189,886; renewed Sept. 30, 1944.
Canned cooked ham. Delegation of Meat Packers of Poland, Inc. 407,370–1; May 30.
Canned raviolis, canned spaghetti, and canned mushroom gravy. Superba Packing Co. 184,321; renewed May 20, 1944.
Canned vegetables and canned fish. Central Wholesale Grocers, Inc. 182,345; renewed Apr. 8, 1944.
Chili sauce, tomato catsup, tomato soup, etc. Standard Brands Incorporated. 407,389; May 30.
Chocolate and nut milk chocolate, Milk. Lamont, Corliss & Company. 185,602; renewed June 24, 1944.
Chocolate coating. Lamont, Corliss & Company. 182,984; renewed Apr. 22, 1944.
Chocolate, Milk. Lamont, Corliss & Company. 185,601; renewed June 24, 1944.
Eggs for use by hatcheries. H. E. Foster. 407,304; May 30; Serial No. 462,009; published Mar. 21, 1944.
Extract, Food flavoring. Virginia Dare Extract Company. 407,324; May 30; Serial No. 465,620; published Mar. 21, 1944.
Extracts, Food flavoring. David Michael & Co. 407,356; May 30; Serial No. 466,618; published Mar. 21, 1944.
Extracts for foods, Flavoring. Fritzsche Brothers, Inc. 189,984; renewed Sept. 30, 1944.
Flavoring compounds. Fritzsche Brothers, Inc. 188,327; renewed Aug. 26, 1944.
Flour and particularly self-rising flour, Wheat. Ballard & Ballard Co. 189,890; renewed Sept. 30, 1944.
Flour, Wheat. Great Atlantic & Pacific Tea Company. 182,131; renewed Apr. 1, 1944.
Food products, Alimentary paste. A. Zerega's Sons. 183,754–5; renewed May 6, 1944.
Fruits and fresh vegetables, Fresh deciduous. Garcia & Maggini Co. 189,854; renewed Sept. 30, 1944.
Fruits, Fresh, canned, preserved, bottled, and dried. Morris & Jones, Limited. 187,974–5; renewed Aug. 12, 1944.
Fruits, Fresh citrous. Placentia Mutual Orange Association. 189,882–3; renewed Sept. 30, 1944.
Fruits, Fresh citrous. Placentia Mutual Orange Association. 189,867; renewed Sept. 30, 1944.
Fruits, Fresh deciduous. F. P. McLaughlin. 407,363; May 30; Serial No. 466,764; published Mar. 21, 1944.
Fruits, fresh deciduous fruits, dried fruits, etc., Fresh citrous. Orangethorpe Citrus Association. 189,220; renewed Sept. 16, 1944.
Fruits, fresh deciduous fruits, nuts, etc., Fresh. Orangethorpe Citrus Association. 189,846; renewed Sept. 30, 1944.
Fruits, fresh deciduous fruits, nuts, etc., Fresh citrous. Orangethorpe Citrus Association. 189,847–8; renewed Sept. 30, 1944.
Marmalade. Golden West Products Company. 407,358; May 30; Serial No. 466,648; published Mar. 21, 1944.
Meats, Fresh pickled, smoked and cured. E. Kahn's Sons Company. 189,912; renewed Sept. 30, 1944.
Milk, Evaporated skimmed. Universal Milk Company. 189,978; renewed Sept. 30, 1944.
Milk, Goat's. D. Roberts. 407,297; May 30; Serial No. 449,921; published Mar. 21, 1944.
Olive products. Superior Olive Products Co. 407,341; May 30; Serial No. 466,369; published Mar. 21, 1944.
Potatoes in their natural state. A. W. McConn. 407,342; May 30; Serial No. 466,381; published Mar. 21, 1944.
Prepared mix for making popovers. Flako Products Corporation. 407,357; May 30; Serial No. 466,644; published Mar. 21, 1944.
Product made from wheat flour, Processed. G. P. Gundlach. 407,317; May 30; Serial No. 464,967; published Mar. 21, 1944.
Sandwiches, cakes, and pies. Meals-on-Wheels, Inc. 407,376; May 30.
Starch for food purposes, salad and cooking oil, etc. A. E. Staley Manufacturing Company. 407,381; May 30.
Tomato products. Strohmeyer & Arpe Company. 189,304; renewed Sept. 16, 1944.
Vegetables, Fresh. Ruiz Bros. 407,364; May 30; Serial No. 466,770; published Mar. 21, 1944.
Whipping cream powder. Kidd & Company. 407,374; May 30.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Alien Property Custodian. (See Rambold, Adolf.)

Carter, William W., deceased, Needham, by B. Morton, trustee, Westport, Mass., assignee. Molded article and making it. Re. 22,487; May 30.

Diamond Chain and Manufacturing Company. (See Focke, Arthur E., assignor.)

Focke, Arthur E., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind. Chain. Re. 22,488; May 30.

Gray, Kenneth R. (See Schlosser, P. H., Gray, and Hallonquist.)

Hallonquist, Earl G. (See Schlosser, P. H., Gray, and Hallonquist.)

Morton, Brayton, trustee. (See Carter, William W., assignor.)

Rambold, Adolf, Dresden, Germany; vested in the Alien Property Custodian. Bag. Re. 22,490; May 30.

Rayonier Incorporated. (See Schlosser, P. H., Gray, and Hallonquist, assignors.)

Schlosser, Paul H., K. R. Gray, and E. G. Hallonquist, Shelton, Wash., assignors to Rayonier Incorporated, San Francisco, Calif. Improving the processing of refined chemical pulps into viscose by adding anion active agents. Re. 22,489; May 30.

LIST OF DESIGN PATENTEES

Adler, Paul, New York, N. Y. Coat. 137,992; May 30.

Aluminum Company of America. (See Sharp, John E., assignor.)

Baunach, Roy J., assignor to The Swartzbough Manufacturing Company, Toledo, Ohio. Food conveyer. 137,977; May 30.

Bencomo, Nicolas, Tampa, Fla. Advertising rack. 137,993; May 30.

Bradbury, Clarence M., Brooklyn, N. Y. Key pendant. 137,978; May 30.

Bradley Washfountain Co. (See Mullett, Howard G., assignor.)

Bullock's, Inc. (See Newport, Margaret, assignor.)

Daly, Richard J., New York, N. Y. Skate seat. 137,999; May 30.

Designers for Industry, Inc. (See Lanese, Donald C., assignor.)

Finkelstein, Nathan, New York, N. Y. Jacket. 138,007; May 30.

Gazda, Antoine, Providence, R. I. Hydroplane. 137,979; May 30.

Gibson, James E., Jr., High Point, N. C. Toy landing barge. 138,000; May 30.

Goulder, Eli I. (See Shaw, Glenn M., assignor.)

Hicks, Dewey L., Vancouver, Wash. Picture frame. 137,995; May 30.

Higgins, George W., Columbus, Ohio. Photographic mount or article of similar nature. 137,996; May 30.

Hoffman, Frank E., New York, N. Y. Clothespin disk toy. 137,980; May 30.

Hughes, Evan, Colfax, Iowa. Toy whistle. 137,981; May 30.

International Standard Electric Corporation. (See McLarn, Ernest S., assignor.)

Lanese, Donald C., assignor to Designers for Industry, Inc., Cleveland, Ohio. Combined baby crib and bassinet. 137,982; May 30.

Macdonald, George C., Boston, Mass. Match book. 137,983; May 30.

Mason, Albert F., Morgantown, W. Va. Whiskey glass or similar article. 137,994; May 30.

McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Telephone handset. 137,984; May 30.

Morris, Harry, Chicago, Ill. Lapel ornament or similar article. 137,997; May 30.

Mullett, Howard G., Whitefish Bay, assignor to Bradley Washfountain Co., Milwaukee, Wis. Container for soap dispensers. 137,985; May 30.

Newport, Margaret, Long Beach, assignor to Bullock's, Inc., Los Angeles, Calif. Tablecloth or similar article. 138,008; May 30.

Norman, Kelso, San Francisco, Calif. Electric soldering iron. 137,986; May 30.

O'Donnell, Thomas M., New York, N. Y. Sheet of wallpaper or the like. 138,001; May 30.

O'Malley, Charles E., and J. W. Runyon, Los Angeles, Calif. Pin or similar article of manufacture. 138,002; May 30.

Pool, Clarence, Rivera, Calif. Valve check. 137,987; May 30.

Runyon, John W. (See O'Malley, C. E., and Runyon.)

Schwartz, Grace B. (See Schwartz, William O. and G. B.)

Schwartz, William O. and G. B., Los Angeles, Calif. Film viewer. 137,988; May 30.

Sharp, John E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Closure. 138,003; May 30.

Sharp, John E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Closure. 138,004; May 30.

Shaw, Glenn M., Lakewood, assignor to E. I. Goulder, Cleveland Heights, Ohio. Vase. 137,998; May 30.

Silfen, Alfred, Berkeley, Ill. Fowl killing device. 137,989; May 30.

Stackhouse, Gladys B., Huntington, N. Y. Muff. 138,009; May 30.

Sundberg, Carl W., Detroit, Mich. Bathroom scale. 137,990; May 30.

Swartzbough Manufacturing Company, The. (See Baunach, Roy J., assignor.)

Usinger, Carl, Wauwatosa, Wis. Pinch type heat sealer. 138,005; May 30.

Walker, Joset, New York, N. Y. Finger ring. 137,991; May 30.

Wittenberg, Erwin F., Milwaukee, Wis. Toy walker for dolls. 138,006; May 30.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acco, Incorporated. (See Hood, John W., assignor.)
Addressograph-Multigraph Corporation. (See Curtis, Franklin E., assignor.)
Aga-Baltic Aktiebolag. (See Alexandersson, H. V., and Granqvist, assignors.)
Aga-Baltic Aktiebolag. (See Aulin, Evert, assignor.)
Agriculture of the United States of America, Claude R. Wickard, and his successors in office, Secretary of. (See Stamm, Alfred J., assignor.)
Agriculture of the United States of America, Claude R. Wickard, and his successors in office, Secretary of. (See Stuart, Leander S., assignor.)
Air Reduction Company. (See Tyrner, Joseph M., assignor.)
Alberty, Fred J. (See Drake, E. P., Alberty, and Kagley.)
Alco-Gravure Division of Publication Corporation. (See Behringer, Alfred, assignor.)
Alexandersson, Harald V., Lidingo, and C.-E. Granqvist, assignors to Aga-Baltic Aktiebolag, Stockholm, Sweden. Micrometer. 2,349,838; May 30.
Alien Property Custodian. (See Andreau, Jean E.)
Alien Property Custodian. (See Arimori, T., Konishi, Ishibashi, and Yoshimura.)
Alien Property Custodian. (See Bergtold, Fritz.)
Alien Property Custodian. (See Bornemann, Otto.)
Alien Property Custodian. (See Buchhart, Josef.)
Alien Property Custodian. (See Cramwinckel, A., and van Weenen.)
Alien Property Custodian. (See Dahl, Joseph.)
Alien Property Custodian. (See Dillenbach, Walter.)
Alien Property Custodian. (See Dürr, Friedrich.)
Alien Property Custodian. (See Formhals, Anton.)
Alien Property Custodian. (See Fürst, Stefan.)
Alien Property Custodian. (See Grobe, Hubert.)
Alien Property Custodian. (See Irslinger, Otto.)
Alien Property Custodian. (See Javal, Henri L.)
Alien Property Custodian. (See Kremers, Karl.)
Alien Property Custodian. (See Lambeek, Adriaan J. J.)
Alien Property Custodian. (See Matsudaira, Hatsutaro.)
Alien Property Custodian. (See Mazzoni, Lucien.)
Alien Property Custodian. (See Moldenhauer, O., and Bock.)
Alien Property Custodian. (See Musall, Alexander.)
Alien Property Custodian. (See Mulder, Cornelis A. H.)
Alien Property Custodian. (See Rossberg, Ehrhard.)
Alien Property Custodian. (See Schrader, Walter.)
Alien Property Custodian. (See Schwimmer, K. H., and Quittner.)
Alien Property Custodian. (See Trinius, Werner.)
Alien Property Custodian. (See Vallernaud, Jean P. A.)
Alien Property Custodian. (See Wolfner, Alfred S.)
Alien Property Custodian. (See Zerbe, Carl.)
Allen, James G., assignor to Draper Corporation, Hopedale, Mass. Automatic loom shuttle. 2,350,307; May 30.
Allen Wales Adding Machine Corportion. (See Lambert, Harry L., assignor.)
Allis-Chalmers Manufacturing Company. (See Dahlstrand, Hans P., assignor.)
All Purpose Gold Corporation. (See Quick, Frederick A., assignor.)
Altman, Peter. (See Kos, A. S., Gerlach, and Altman.)
American Brake Shoe Company. (See Morgan, Porter S., assignor.)
American Coach & Body Company, The. (See Kelleher, Daniel, assignor.)
American Optical Company, et al. (See Kelleher, Joseph T., assignor.)
American Smelting and Refining Company. (See Lister, Thomas R., assignor.)
American Steel and Wire Company of New Jersey, The. (See Beckwith, Glenwood J., assignor.)
American Steel and Wire Company of New Jersey, The. (See Lisy, John, assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Telephone and Telegraph Company. (See Borgeson, Carl A., assignor.)
American Telephone and Telegraph Company. (See MacKen, Harold I., assignor.)
American Telephone and Telegraph Company. (See Miller, Arthur G., assignor.)
American Telephone and Telegraph Company. (See Perry, Donald B., assignor.)
American Telephone and Telegraph Company. (See Rhoads, Charles S., assignor.)
Amphibian Car Corporation. (See Hofheins, R. W., Harrington, Thomas, and Dubosclard, assignors.)
Anderson, Ernst G. K., Chicago, Ill. Electrical fixture. 2,349,924; May 30.

Anderson, Ralph L., C. R. Arnold, and L. A. Paradise, assignors to Deere & Company, Moline, Ill. Implement draft device. 2,349,923; May 30.
Andreau, Jean E., Daurat, near Leognan, France; vested in the Alien Property Custodian. One-way clutch mechanism. 2,349,925; May 30.
Apicella, Salvatore F., New York, N. Y. Wood spring. 2,349,839; May 30.
Appel, Robert, New York, N. Y. Lady's handbag. 2,349,926; May 30.
Archer, Charles E., Birmingham, assignor to Ex-Cell-O Corporation, Detroit, Mich. Abrading tool. 2,349,995; May 30.
Arimori, Tsuyoshi, Y. Konishi, J. Ishibashi and R. Yoshimura, Dairen, Manchukuo; vested in the Alien Property Custodian. Manufacturing metallic magnesium. 2,349,927; May 30.
Arnold, Chester R. (See Anderson, R. L., Arnold, and Paradise.)
Artzt, Maurice, Haddonfield, N. J., assignor to Radio Corporation of America. Facsimile apparatus. 2,350,008; May 30.
Ash, Charles S., Milford, Mich. Wheel and brake assembly. 2,349,928; May 30.
Atkins, George E., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,349,929; May 30
Atkinson, William H., San Francisco, Calif. Aircraft carrier. 2,349,930; May 30.
Atlantic Rayon Corporation. (See Raymond, Horace H., assignor.)
Atlee, Zed J., Elmhurst, assignor to General Electric X-Ray Corporation, Chicago, Ill. X-ray tube. 2,350,269; May 30.
Atlee, Zed J., Elmhurst, assignor to General Electric X-Ray Corporation, Chicago, Ill. Cathode assembly structure. 2,350,270; May 30.
Attapulgus Clay Company. (See La Lande, William A., Jr., assignor.)
Aulin, Evert, Lidingo, assignor to Aga-Baltic Aktiebolag, Stockholm, Sweden. Arrangement in distance meters according to the stereo-principle. 2,350,210; May 30.
Autogiro Corporation of America. (See Pitcairn, Harold F., assignor.)
"Automatic" Sprinkler Company of America. (See Rider, Harry N., assignor.)
Babbitt, John F., assignor to J. V. Pilcher Mfg. Co., Louisville, Ky. Making cartridge cases. 2,349,840; May 30.
Babcock, David L., and F. J. Frisby, assignors to Eastman Kodak Company, Rochester, N. Y. Depth of field indicator for cameras. 2,350,009; May 30.
Back, Franz G., assignor of one-half to R. D. Eshbaugh, and one-half to Gastro-Photor Laboratories, New York, N. Y. Panoramic camera. 2,349,931; May 30.
Back, Franz G., assignor to Gastro-Photor Laboratories, New York, N. Y. Apparatus for taking photographs of cavities of the body. 2,349,932; May 30.
Backoff, William J., and N. D. Williams, Chicago, J. F. O'Loughlin, Winnetka, H. L. Moir, Niles Center, and J. S. Yule, assignors to The Pure Oil Company, Chicago, Ill. Motor fuel composition. 2,350,145; May 30.
Bacon, Hollis P., assignor to Northern Blower Company, Cleveland, Ohio. Apparatus for cooling gas. 2,349,841; May 30.
Badger Cut Outs, Inc. (See Ostrander, Robert K., assignor.)
Bakelite Corporation. (See Meharg, Virgil E., assignor.)
Baldwin Locomotive Works, The. (See Collins, Paul C., assignor.)
Baldwin Locomotive Works, The. (See Sorensen, Kresten T., assignor.)
Baldwin Locomotive Works, The. (See Tapper, Thomas P., assignor.)
Baldwin Locomotive Works, The. (See Tate, Malcolm C., assignor.)
Ball, Thomas J. (See Smith, C. I., and Ball.)
Balle, Gerhard. (See Orthner, L., Balle, and Schild.)
Bank of America National Trust and Savings Association, et al., executors. (See Replogle, Danial B.)
Barber, Charles D. and P. R., Green Bay, Wis. Sugar refining process. 2,350,143; May 30.
Barber, Paul R. (See Barger, Charles D. and P. R.)
Barclays Bank Limited, executor. (See Little, Charles W. G.)
Barreto, Ramón González, Habana, Cuba. Clip to form the necktie knots. 2,349,842; May 30.
Barros, Leonor de Souza, Sao Paulo, Brazil. Match book. 2,350,144; May 30.

Barry, Cornelius J., assignor to Superior Plating Works, Chicago, Ill. Coupling structure. 2,349,993; May 30.
Bean, Morris, Yellow Springs, Ohio. Molding pattern. 2,349,806; May 30.
Beaudine, Moses I., Abercrombie, N. Dak. Grain car door. 2,349,934; May 30.
Bechman, William O., Chicago, Ill., assignor to International Harvester Company. Lubricating means. 2,349,898; May 30.
Becker, Balthasar. (See Stoll, A., Kussmaul, and Becker.)
Beckwith, Glenwood J., Brecksville, Ohio, assignor to The American Steel and Wire Company of New Jersey. Electrolytic treatment of chromium alloys. 2,349,843; May 30.
Bee-Line Company. (See Smith, Roy D., assignor.)
Beekley, Francis C., West Hartford, assignor to The Glastonbury Bank & Trust Company, Glastonbury, Conn. Microphone. 2,350,010; May 30.
Behringer, Alfred, Wanaque, N. J., assignor to Alco-Gravure Division of Publication Corporation, New York, N. Y. Bearing shield. 2,350,089; May 30.
Bellenson Bernard, Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic layers containing dyestuffs. 2,350,090; May 30.
Bell Telephone Laboratories, Incorporated. (See Atkins, George E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Finch, O. J., and White, assignors.)
Bell Telephone Laboratories, Incorporated. (See Fuller, Calvin S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Fuller, C. S., and Kemp, assignors.)
Bell Telephone Laboratories, Incorporated. (See West, John W., assignor.)
Benedict, Donald B., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Recovery of vinyl acetate from solvent mixtures. 2,349,807; May 30.
Benedict, Donald B., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Recovery of vinyl acetate from solvent mixtures. 2,350,087; May 30.
Benger, William F. A., Montreal, Quebec, Canada. Water column. 2,349,808; May 30.
Bergman, Raymond W., Lockport, assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Sanitizing device. 2,350,091; May 30.
Bergtold, Fritz, Kiel, Germany; vested in the Alien Property Custodian. Loop antenna with iron core. 2,350,211; May 30.
Berry, Henry, & Company Limited. (See Corin, Philip G., assignor.)
Bertsch, Johann A., deceased, by Manufacturers Bank & Trust Company of St. Louis, executor, St. Louis, Mo. Catalyst carrier. 2,349,844; May 30.
Bethlehem Steel Company. (See Wilson, Tom, assignor.)
Better Packages, Inc. (See Krueger, A. P., and West, assignors.)
Bilofsky, Maxwell. (See Glass, John P. Jr., assignor.)
Black and Decker Manufacturing Company. The. (See Decker, Alonzo G., assignor.)
Black, Charles F., assignor, by mesne assignments, to Central Equipment Co., Chicago, Ill. Clamp. 2,349,809; May 30.
Black, Henry R., Toledo, Ohio, assignor to Owens-Corning Fiberglas Corporation. Filtering and filtering apparatus. 2,350,011; May 30.
Blankenhorn, Charles F. (See Dawson, R. D., and Blankenhorn.)
Bock, Charles S., assignor to Andrew Hoffman, Chicago, Ill. Door lock. 2,350,092; May 30.
Bock, Helmuth. (See Moldenhauer, O., and Bock.)
Bock, Louis H., Huntingdon Valley, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. Alkali-soluble carboxyethyl cellulose ether. 2,349,797; May 30.
Bodine, Albert G., Jr., Burbank, assignor to The Calpat Corporation, Los Angeles, Calif. Method and apparatus for relatively moving two elements. 2,350,212; May 30.
Bogin, Charles, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Cellulose triacetate composition. 2,350,300; May 30.
Bonsall, Charles D., Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company. Car roof. 2,350,213; May 30.
Borgeson, Carl A., Red Bank, N. J., assignor to American Telephone and Telegraph Company. Telegraphic auction system. 2,350,146; May 30.
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene ether. 2,350,147; May 30.
Bornemann, Otto, Berlin, Germany; vested in the Alien Property Custodian. Floating swivel ring for nonskid chains. 2,349,935; May 30.
Bostwick, Henry C., Cranford, N. J., assignor to Westinghouse Electric & Manufacturing Company. Thermostat structure. 2,350,148; May 30.
Bourges, Albert R., New York, N. Y. Making color reproductions. 2,349,900; May 30.
Bonsquet, L'Roche G., Wilmington, Del., D. W. Young, Roselle, N. J., and A. W. Low, Woodside, assignors to General Chemical Company, New York, N. Y. Manufacture of titanium sulphate solutions. 2,349,936; May 30.
Brady, William H., Roselle, assignor to The Singer Manufacturing Company, Elizabeth, N. Y. Electrical rotor core. 2,350,012; May 30.
Braloff, Henry, Rockville Centre, N. Y. Wall structure. 2,350,093; May 30.
Braloff, Henry E., Rockville Centre, N. Y. Container. 2,350,214; May 30.
Braloff, Henry E., Rockville Centre, N. Y. Container. 2,350,271; May 30.
Brandão, Manoel Dias dos Santos, Cambuquira, Brazil. Manual automatic device for indicating the favorable periods for conception in women. 2,350,219; May 30.
Breckenridge, Frank, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Rotor construction. 2,349,901; May 30.
Breeze Corporations, Inc. (See Shellmer, H., and Rennie, assignors.)
Briggs & Stratton Corporation. (See Fitz Gerald, John W., assignor.)
Brooks, Frank M. (See Dean, W. F., and Brooks.)
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Buchhart, Josef, Stuttgart-Zuffenhausen, Germany; vested in the Alien Property Custodian. Automatic transmission. 2,349,937; May 30.
Bucknam, James H., Cranford, N. J., assignor to Union Carbide and Carbon Corporation. Deseaming and desurfacing apparatus. 2,349,902; May 30.
Budd Wheel Company. (See Strickland, Harold A., Jr., assignor.)
Bullock, Laurie H., et al., executors. (See Replogle, Daniel B.)
Burdett, Horace H., Milford, assignor to Draper Corporation, Hopedale, Mass. Filling carrier transferring mechanism. 2,350,308; May 30.
Burlin, Leslie H., Valparaiso, Ind. Folding chair. 2,350,013; May 30.
Burnette, Algernon R., New York, N. Y. Separating expansible fluids from nonexpansible fluids. 2,349,938; May 30.
Burns, Wilford E., Burlingame, assignor to M. J. B. Company, San Francisco, Calif. Can. 2,349,939; May 30.
Burt, Ray W., Lafayette, Colo. Safety device. 2,350,014; May 30.
Butts, Richard R., Miamisburg, Ohio, assignor of one-half to T. B. Zumstein, Fort Thomas, Ky., and one-half to G. F. Miller, Cincinnati, Ohio. Ventilating black-out window shade. 2,350,094; May 30.
Calpat Corporation, The. (See Bodine, Albert G., Jr., assignor.)
Campbell, Dana A. (See Ginn, E., Casselman, and Campbell.)
Carbide and Carbon Chemicals Corporation. (See Benedict, Donald B., assignor.)
Carey, Philip, Manufacturing Company, The. (See Greider, H. W., and Young, assignors.)
Carlson, Earl C., Pittsburgh, and D. F. Sharp, New Kensington, Pa. Waste pickle liquor disposal. 2,350,095; May 30.
Carnegie-Illinois Steel Corporation. (See Wilson, P. J., Jr., and Wells, assignors.)
Carr, William E. (See McAlpine, L. W., assignor.)
Carter, Edward J. (See McCormick, G., Griffith, Carter, Williams, and McCormick, S. and T. T.)
Casselman Harold L. (See Ginn, E., Casselman, and Campbell.)
Caterpillar Tractor Co. (See Gedge, Frederick C., assignor.)
Caterpillar Tractor Co. (See Starr, Oscar L., assignor.)
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Central Equipment Co. (See Black, Charles F., assignor.)
Chase Brass & Copper Co. Incorporated. (See Hallberg, August W., assignor.)
Chilton, Forrest S., Pompton Plains, N. J. Forage drying method. 2,350,096; May 30.
Christensen, Jens P., Darrington, Wash. Calf feeder. 2,350,215; May 30.
Churchill, George R., Hingham, Mass. Buffing wheel. 2,350,216; May 30.
Ciba Products Corporation. (See Widmer, G., and Fisch, assignors.)
Clark, Donald E., L. D. Pratt, and S. A. Coleman, San Diego, and H. C. Green, El Cajon, assignors to Kelco Company, Los Angeles, Calif. Method for drying kelp. 2,350,209; May 30.
Clayton, James O. (See Farrington, B. B., Clayton, and Etzler.)
Cleveland Pneumatic Tool Company, The. (See Greve, Louis W., assignor.)
Cleveland Pneumatic Tool Company, The. (See Lear, Earl B., assignor.)
Cleveland Pneumatic Tool Company, The. (See Van Sittert, P., and Speth, assignors.)
Cline, Joseph K. (See Williams, R. R., and Cline.)
Coakley, John H., Jr., Medford, Mass. Mailing card and envelope. 2,350,149; May 30.

Cobb, Leland D., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Spindle. 2,350,272; May 30.

Cody, Clifford S., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,349,845; May 30.

Coleman Lamp and Stove Company, The. (See Martin, Russell, assignor.)

Coleman, Spencer A. (See Clark, D. E., Pratt, Coleman, and Green.)

Collins, Paul C., Norwood, Pa., assignor to The Baldwin Locomotive Works. Hydraulic press control. 2,350,217; May 30.

Combustion Engineering Company. (See Gordon, Charles W., assignor.)

Commercial Solvents Corporation. (See Bogin, Charles, assignor.)

Conner, Quinten E., San Francisco, Calif. Universal tool. 2,350,097; May 30.

Consolidated Paper Company. (See Hines, Harry E., assignor.)

Consolidated Vultee Aircraft Corporation. (See Kos, A. S., Gerlach, and Altman, assignors.)

Continental Machines, Incorporated. (See Harrington, John A., assignor.)

Continental Motors Corporation. (See Ginn, E., Casselman, and Campbell, assignors.)

Cook, Ellsworth D., Scotia, N. Y., assignor to General Electric Company. Counter circuit. 2,349,810; May 30.

Cooke, James W., Schenectady, N. Y., assignor to General Electric Company. Control system. 2,350,150; May 30.

Cooley, Floyd A. (See Dean, R. H., Cooley, and Kegler.)

Corin, Philip G., Harrogate, assignor of one-half to Henry Berry & Company Limited, Leeds, Yorkshire, England. Hydraulically operated machine tool. 2,349,846; May 30.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Side bearing. 2,350,301; May 30.

Court, Frank T. (See Neighbour, L. B., Court, and Haverstick.)

Craft, William B. (See Jones, R. C., and Craft.)

Craig, Burnie J., Los Angeles County, Calif. Automotive vehicle construction. 2,349,940; May 30.

Cramwinckel, Arnaud, and F. L. van Weenen, Eindhoven, Netherlands; vested in the Alien Property Custodian. Film apparatus. 2,349,941; May 30.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Reactance tube modulation. 2,349,811; May 30.

Crowe, Francis T., Shasta Dam, Calif. Concrete bucket. 2,350,015; May 30.

Crumb, Charles F., Clarendon Hills, Ill., assignor to International Harvester Company. Baler. 2,349,847; May 30.

Curtis, Franklin E., Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,350,016; May 30.

Dach, Max, Flushing, N. Y. Safety fuel line. 2,350,302; May 30.

Dahl, Joseph, Schwerin, Germany; vested in the Alien Property Custodian. Optical focusing system. 2,350,151; May 30.

Dahlstrand, Hans P., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Blade and shroud structure. 2,350,125; May 30.

Dahlstrand, Hans P., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Blade shrouding. 2,350,309; May 30.

Dahlstrand, Hans P., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Blade shrouding. 2,350,310; May 30.

Dahlstrom, Edward J., San Francisco, Calif. Wax applicator. 2,350,152; May 30.

Dällenbach, Walter, Berlin, Germany; vested in the Alien Property Custodian. Hollow space radiator. 2,349,942; May 30.

Daniels, Nathan. (See Pero, J. M., and Daniels.)

Davids, Robert B., Baltimore, Md. Relative motion rotative mechanism. 2,349,848; May 30.

Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Pressing machine mechanism and locking means. 2,350,153; May 30.

Davis, Ernest W., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Tube coupling. 2,350,017; May 30.

Dawson, Reginald D., Berkeley, and C. F. Blankenhorn, Oakland, assignors to Shell Development Company, San Francisco, Calif. Nonaqueous drilling fluid. 2,350,154; May 30.

Day, Roland B., and E. R. Kanhofer, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic reforming. 2,349,812; May 30.

Deal, Erastus C., Wilkes-Barre, Pa., assignor to Deal Slide-Lock Devices, Inc., Bronx, N. Y. Mechanical adjuster. 2,350,155; May 30.

Deal, Harmon B., Glen Ridge, N. J., assignor to Radio Corporation of America. Gas tube relay circuits. 2,349,849; May 30.

Deal Slide-Lock Devices, Inc. (See Deal, Erastus C., assignor.)

Dean, Roy H., and F. A. Cooley, Detroit, and H. L. Kegler, Monroe, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Emergency release for window regulators. 2,350,156; May 30.

Dean, William F., and F. M. Brooks, Pasadena, Calif. Meter box. 2,350,018; May 30.

Decker, Alonzo G., Baltimore, Md., assignor to The Black and Decker Manufacturing Company. Oscillating sander. 2,350,098; May 30.

Decker, John A., Bayonne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Article handling machine. 2,350,273; May 30.

Deere & Company. (See Anderson, R. L., Arnold, and Paradise, assignors.)

Deere & Company. (See Neighbour, L. B., Court, and Haverstick, assignors.)

Deere & Company. (See Strandlund, Carl G., assignor.)

Denham, John J. (See Jurs, E. E., and Denham.)

Denison, George H., Jr., Berkeley, and A. C. Ettling, Richmond, assignors to Standard Oil Company of California, San Francisco, Calif. Metallo-organic compound and preparing same. 2,349,798; May 30.

Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for surface hardening shafts and the like. 2,349,813; May 30.

Dentists' Supply Company of New York, The. (See Saffir, Jacob A., assignor.)

Deonier, Christian C., and H. A. Jones, Orlando, Fla., dedicated to the free use of the people in the territory of the United States. Insecticide. 2,349,814; May 30.

De Remer, J. G., Research Corporation. (See De Remer, Jay G., assignor.)

De Remer, Jay G., Darien, Conn., assignor to J. G. De Remer Research Corporation, Union City, N. J. Washing machine. 2,350,218; May 30.

Dermond, Hartley P., Hickory Township, Mercer County, Pa. Plate holder. 2,350,099; May 30.

Deutschmeister, Abraham and H., New York, N. Y. Mailing device. 2,350,100; May 30.

Deutschmeister, Herman. (See Deutschmeister, Abraham and H.)

Dexter, Frederick A., assignor to The Leavitt Machine Company, Orange, Mass. Valve cutting tool. 2,350,019; May 30.

Diamond Power Specialty Corporation. (See Thomas, Willis P., assignor.)

Dillon Patents Limited. (See Wettlaufer, John L., assignor.)

Dinnling, Ernest L., Jr., Baltimore County, Md. Preparing low-loss insulating material. 2,350,088; May 30.

Disse, Josef A., Detroit, Mich. Scraper. 2,350,157; May 30.

Ditzel, Arthur C., Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purifying disodium phosphate. 2,349,943; May 30.

Dixon, Paul H., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Skiving machine. 2,349,850; May 30.

Dixon, Philip C., Houston, Tex., assignor to National Tank Company, Tulsa, Okla. Separating liquids and gases or gaseous fluids. 2,349,944; May 30.

Dodd, Louis C., Buffalo, N. Y., assignor to Magnus Metal Corporation, Chicago, Ill. Welding rod. 2,349,945; May 30.

Douglas, H. A., Mfg. Co. (See Kalvin, Edwin F., assignor.)

Dow Chemical Company, The. (See Maier Charles G., assignor.)

Drake, Edward P., and F. J. Alberty, Los Angeles, and W. H. Kagley, assignors to Lindsay Ripe Olive Company, Lindsay, Calif. Metering and conveying system. 2,350,020; May 30.

Draper Corporation. (See Allen, James G., assignor.)

Draper Corporation. (See Burdett, Horace H., assignor.)

Draper Corporation. (See Nichols, E. C., and French, assignors.)

Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Di(cyanamides) and their manufacture. 2,349,851; May 30.

Dubosclard, Paul P. M. (See Hofheins, R. W., Harrington, Thomas, and Dubosclard.)

Du Bose, George P., et al. (See Loucks, C. A., and Schmidt, assignors.)

Duclos, Aeneas J. N., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Material straightening apparatus. 2,350,274; May 30.

Dunn, George E., assignor to Paramount Textile Machinery Co., Kankakee, Ill. Treating textiles. 2,350,021; May 30.

Dunn, William C. (See Denneen, F. S., and Dunn.)

Du Pont, E. I., de Nemours & Company. (See Ditzel, Arthur C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Fox, Arthur L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Karns, George M., assignor.)

Du Pont, E. I., de Nemours & Company. (See Neff, William E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Nydegger, R. R., and Roberts, assignors.)

Du Pont, E. I., de Nemours & Company. (See Pinkney, Paul S., assignor.)

Dürr, Friedrich, Berlin-Friedenau, Germany; vested in the Alien Property Custodian. Electroplating reel. 2,349,946; May 30.

Dyrr, Jacob V., Bell, Calif., assignor to International Harvester Company. Harrow. 2,349,852; May 30.

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,349,815; May 30.

Eastman Kodak Company. (See Babcock, D. L., and Frisby, assignors.)

Eastman Kodak Company. (See Bellenson, Bernard, assignor.)

Eastman Kodak Company. (See Evans, R. M., and Luboshez, assignors.)

Eastman Kodak Company. (See Fuerst, Carl C., assignor.)

Eastman Kodak Company. (See Hanson, Wesley T., Jr., assignor.)

Eastman Kodak Company. (See Herzberger, Maximilian J., assignor.)

Eastman Kodak Company. (See Hood, Henry J., assignor.)

Eastman Kodak Company. (See Houghton, James L., assignor.)

Eastman Kodak Company. (See Nadeau, G. F., and Starck, assignors.)

Eastman Kodak Company. (See Porter, H. D., and Weissberger, assignors.)

Eastman Kodak Company. (See Schade, Willy, assignor.)

Eastman Kodak Company. (See Weissberger, Arnold, assignor.)

Eaton, Jesse R., Chandler, Ariz. Internal-combustion engine. 2,349,816; May 30.

Ebert, Milton R., Erie, Pa. Headlight attachment. 2,349,853; May 30.

Economy Oil Trucking Corporation. (See Fitz, William G., assignor.)

Ehret, John, Jr., Trenton, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Chuck unit particularly adapted for stem making machines. 2,350,220; May 30.

Einzig, Henry, assignor to Stemar Displays Company, Chicago, Ill. Binding device. 2,349,947; May 30.

Eisenhut, Frederick, Irvington, N. J., deceased; W. Eisenhut, executrix. Dust mop with attachable dust bag. 2,350,221; May 30.

Eisenhut, Wilhelmina. (See Eisenhut, Frederick.)

Elliott, Elmer W., and O. O. Rothe; said Rothe assignor to A. M. Rothe, Minneapolis, Minn. Refacing and reseating tool. 2,349,948; May 30.

Ensign Carburetor Co., Ltd. (See Westlund, Karl W., assignor.)

Eppy, Samuel, Jamaica, N. Y. Mounting buttons and similar articles. 2,350,275; May 30.

Erber, Bernhard, St. Johns Wood, London, England. Electrode assembly of electronic valves. 2,350,022; May 30.

Erskine, Herbert W., et al. (See Fanger, Herman J., assignor.)

Eshbaugh, Robert D., et al. (See Back, Franz G., assignor.)

Ettling, Arthur C. (See Denison, G. H., Jr., and Ettling.)

Etzler, Dorr H. (See Farrington, B. B., Clayton, and Etzler.)

Evans, Llewellyn W. (See Hawk, W. L., Paul, and Evans.)

Evans, Ralph M., and B. E. Luboshez, assignors to Eastman Kodak Company, Rochester, N. Y. Color photography. 2,350,101; May 30.

Evans, William H., St. Louis, Mo. Seam structure for flexible ventilating tubing. 2,350,158; May 30.

Ex-Cell-O Corporation. (See Archer, Charles E., assignor.)

Ex-Cell-O Corporation. (See Snader, Ira J., assignor.)

Fairbanks, Philip R., Ogden, Utah. Exhaust stack control. 2,350,102; May 30.

Fall, Albert P., Toledo, Ohio. Piston ring assembly. 2,349,903; May 30.

Fanger, Herman J., Piedmont, assignor of thirty per cent to M. C. Mogensen, Martinez, thirty per cent to H. W. Erskine, Piedmont, thirty per cent to C. F. Shaffer, San Francisco, and five per cent to H. Gruenhagen, Oakland, Calif. Firing angle indicator. 2,350,103; May 30.

Far-Lin Inc. (See Farrell, Francis J., assignor.)

Farrell, Francis J., assignor to Far-Lin Inc., Burlington, N. J. Apparatus for cutting channels in road surfaces. 2,349,949; May 30.

Farrington, Bruce B., J. O. Clayton, and D. H. Etzler, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Polycarboxylic acid salts in lube oil compounding. 2,349,817; May 30.

Fedde, Arnold M., Brooklyn, N. Y. Gyroscope system. 2,350,303; May 30.

Federico, Salvatore, West Haven, Conn. Broken wire detector. 2,349,855; May 30.

Feldman, Abrom L., Atlanta, Ga. Moisture-absorbing device. 2,349,856; May 30.

Ferrier, Otis G., Fort Wayne, Ind. Lapping machine for wire-drawing dies. 2,350,023; May 30.

Fetzer, Walter R., Clayton, Mo., assignor to Union Starch & Refining Company, Columbus, Ind. By-product feed. 2,349,818; May 30.

Fibre Can Machinery Corporation. (See Hatch, Alexander G., assignor.)

Fichman, Abraham, Neponsit, N. Y. Cigar band. 2,350,222; May 30.

Finch, Oscar J., New York, N. Y., and J. H. White, Cranford, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permanent magnet material. 2,349,857; May 30.

Fisch, Willi. (See Widmer, G., and Fisch.)

Fitz, William G., assignor to Economy Oil Trucking Corporation, New York, N. Y. Multicolor printing. 2,349,819; May 30.

Fitz Gerald, John W., deceased, by M. C. Fitz Gerald, executrix, assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,350,276; May 30.

Fitz Gerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,350,304; May 30.

Fitz Gerald, Mary C., executrix. (See Fitz Gerald, John W.)

Fiumedoro, Ali J., assignor of one-third to J. D. Ramsey, Boston, Mass. Necktie device. 2,350,104; May 30.

Folkins, Hillis O., Skokie, and C. M. Thacker, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Hydrocarbon conversion. 2,350,159; May 30.

Folmer Graflex Corporation, The. (See Steiner, Oscar, assignor.)

Formhals, Anton, Mainz, Germany; vested in the Alien Property Custodian. Method and apparatus for spinning. 2,349,950; May 30.

Forsythe, John W., Wilkinsburg, and A. T. Reichenbach, Pittsburgh, Pa. Charging peel or arm for furnace charging boxes. 2,349,854; May 30.

Fox, Arthur L., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solution of copper mercaptides from terpenes. 2,349,820; May 30.

Fox Products Company. (See Miller, Robert M., assignor.)

Fragen, Nathan, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Catalytic conversion process. 2,349,821; May 30.

Francis, Earl H., Kansas City, Mo. Automatic pilot for airplanes. 2,350,024; May 30.

Fraser, Charles E., Kew Gardens, N. Y. Filtering apparatus and method. 2,350,160; May 30.

French Oil Mill Machinery Company, The. (See Stacy, Thomas F., assignor.)

French, Willard C. (See Nichols, E. C., and French.)

Friedman, Samuel, Brooklyn, N. Y. Fur cleaning apparatus. 2,350,025; May 30.

Frisby, Floyd J. (See Babcock, D. L., and Frisby.)

Fuchs, Emanuel, Jersey City, N. J. Shock resistant fluorescent lamp holder. 2,350,105; May 30.

Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Focal plane shutter control. 2,350,026; May 30.

Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Shutter release mechanism. 2,350,106; May 30.

Fuller, Calvin S., Chatham, and A. R. Kemp, Westwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical conductor. 2,349,951; May 30.

Fuller, Calvin S., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical conductor. 2,349,952; May 30.

Fürst, Stefan, Gladbach-Rheydt, Germany; vested in the Alien Property Custodian. Device for tying thread ends in winding frames or other textile machines. 2,349,953; May 30.

Gandrud, Ebenhard S., Owatonna, Minn. Spreader for fertilizer, seeds, and the like. 2,350,107; May 30.

Gardner, Percy, Glen Ridge, N. J., assignor to Lever Bias Machine Corporation, New York, N. Y. Making bias fabric. 2,350,027; May 30.

Gardner, Roland M., Swampscott, Mass., assignor to Sylvania Electric Products Inc. Lamp sealing apparatus. 2,349,822; May 30.

Garfinkle, David, Alameda, Calif. Merchandise display and holding fixture. 2,350,028; May 30.

Gastro-Photor Laboratories, et al. (See Back, Franz G., assignor.)

Gates, Louis W. (See Klarmann, E., and Gates.)

Gedge, Frederick C., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Material breaking apparatus. 2,350,223; May 30.

Geibig, Frank C., Westfield, N. J., assignor to The Linde Air Products Company. Guiding unit for reproducing machines. 2,349,954; May 30.

Geldhof, Peter E., and L. Ringer, assignors to Nineteen Hundred Corporation, St. Joseph, Mich. Washing machine and drier. 2,350,108; May 30.

General Aniline & Film Corporation. (See v. Bock, Bernd, assignor.)

General Aniline & Film Corporation. (See Orthner, L., Balle, and Schild, assignors.)

General Aniline & Film Corporation. (See Steglich, Herbert H., assignor.)

General Chemical Company. (See Bousquet, L'R. G., Young, and Low, assignors.)
General Electric Co. (See Lubeck, Heinz, assignor.)
General Electric Company. (See Cook, Ellsworth D., assignor.)
General Electric Company. (See Cooke, James W., assignor.)
General Electric Company. (See Kinnard, Isaac F., assignor.)
General Electric Company. (See Schneider, Fred B., assignor.)
General Electric Company. (See Staley, Ronald W., assignor.)
General Electric Company. (See Watts, Donald E., assignor.)
General Electric X-Ray Corporation. (See Atlee, Zed J., assignor.)
General Motors Corporation. (See Cobb, Leland D., assignor.)
General Motors Corporation. (See Marvin, John T., assignor.)
General Motors Corporation. (See Smith, William, Jr., assignor.)
Gerlach, Glendon T. (See Kos, A. S., Gerlach, and Altman.)
Giberson, Frank, South Lyons, Mich. Extensible lunch box. 2,350,224; May 30.
Gilbert, William L., Clock Corporation, The. (See Heymann, Roy D., assignor.)
Giles, Joseph W. and W. J., assignors to Jersey Cigar Machines, Inc., Belleville, N. J. Method of and apparatus for making bunches. 2,350,225; May 30.
Giles, William J. (See Giles, Joseph W. and W. J.)
Gillmor, Richard H., Wilkinsburg, Pa. Adjustable airfoil. 2,349,858; May 30.
Ginn, Earl, North Muskegon, H. L. Casselman, Muskegon, and D. A. Campbell, Spring Lake, assignors to Continental Motors Corporation, Muskegon, Mich. Cylinder head construction. 2,350,226; May 30.
Glass, John P., Jr., North Bergen, assignor, by mesne assignments, to M. Bilofsky, Newark, N. J. Inductive core. 2,350,029; May 30.
Glastonbury Bank & Trust Company, The. (See Beekley, Francis C., assignor.)
Gliss, George E., and J. H. Schmidt, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling articles. 2,349,956; May 30.
Gloor, Walter E., New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del. Solution of water-soluble cellulose ether. 2,350,161; May 30.
Goldstein, Simon I., Baltimore, Md. Ferrule construction for umbrella covers. 2,350,227; May 30.
Goodrich, B. F., Company, The. (See Smith, K. D., and Mayne, assignors.)
Goodrich, B. F., Company, The. (See Stewart, William D., assignor.)
Gordon, Charles W., Glen Ellyn, Ill., assignor to Combustion Engineering Company, Inc., New York, N. Y. Material drying method. 2,350,162; May 30.
Granqvist, Carl-Erik. (See Alexandersson, H. V., and Granqvist.)
Grant, Charles H. (Lee Lawler, Frank P., assignor.)
Green, Harland C. (See Clark, D. E., Pratt, Coleman, and Green.)
Greider, Harold W., Wyoming, and W. T. Young, Springdale, Ohio, assignors to The Philip Carey Manufacturing Company. Coated cement product and manufacturing same. 2,350,030; May 30.
Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock absorbing strut. 2,349,957; May 30.
Griffith, Lauren N. (See McCormick, G., Griffith, Carter, Williams, and McCormick, S. and T. T.)
Grimes, David, Meadowbrook, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Volume control for radio-phonographs. 2,350,277; May 30.
Grobe, Hubert, Wuppertal-Barmen, Germany; vested in the Alien Property Custodian. Pneumatic tool assembly. 2,349,958; May 30.
Gruenhagen, Henry, et al. (See Fanger, Herman J., assignor.)
Guetzkow, Edward, assignor to Kearney & Trecker Corporation, West Allis, Wis. Cutting tool. 2,349,959; May 30.
Gulf Oil Corporation. (See Hale, Arlan B., assignor.)
Gurley, W. & L. E. (See May, Richard W., assignor.)
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Merchandise container. 2,350,163; May 30.
Hachmuth, Karl H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Preparing catalytic materials. 2,349,904; May 30.
Hagan, Charles L., Laverne, Okla. Game. 2,350,031; May 30.
Hager, Onslow B., Glenside, assignor to Röhm & Haas Company, Philadelphia, Pa. Delustering cellulose ester fabric. 2,350,032; May 30.
Hahn, George J., and O. Sann, Johnstown, Pa. Brake block assembly. 2,349,859; May 30.
Hainer, Glenn O., Pittsburg, Calif. Determining differences between dew point and dry bulb temperatures. 2,349,860; May 30.
Hale, Arlan B., Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Heavy lubricant for chemical industries and making the same. 2,349,861; May 30.
Hall, Charles L., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Retaining device. 2,350,311; May 30.
Hall, James A., Houston, Tex. Disintegrator rotor for use in conjunction with disintegrating equipment. 2,349,960; May 30.
Hallberg, August W., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Thread-rolling tool. 2,349,862; May 30.
Hallberg, August W., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Thread-rolling tool. 2,349,863; May 30.
Hanes, Harvey, Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. Drawer suspension. 2,350,228; May 30.
Hansen, Klaus L., Milwaukee, Wis. Commutating means. 2,349,864; May 30.
Hansen, Thorwald H., Avenel, N. J. Apparatus for casting concrete around piles. 2,349,961; May 30.
Hanson, Wesley T., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic developers containing acylamino groups. 2,350,109; May 30.
Harrington, Carlos E. (See Hofheins, R. W., Harrington, Thomas, and Duboscland.)
Harrington, John A., assignor to Continental Machines, Incorporated, Minneapolis, Minn. Surface grinder and automatic control means therefor. 2,350,229; May 30.
Harris, Walter S., Wilmslow, assignor of one-half to E. Griffiths Hughes Limited, Adelphi, Salford Lancashire, England. Container. 2,349,962; May 30.
Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,349,963; May 30.
Harvel Research Corporation. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., South Orange, N. J., assignor to Harvel Research Corporation. Reacting pinene and formaldehyde and the product obtained. 2,350,230; May 30.
Hatch, Alexander G., assignor to Fibre Can Machinery Corporation, Rutland, Vt. Can closure and making the same. 2,350,312; May 30.
Haverstick, Ben R. (See Neighbour, L. B., Court, and Haverstick.)
Hawk, Watson L., M. Paul, and L. W. Evans, Stockton, assignors to Rheem Manufacturing Company, Richmond, Calif. Container seaming machine. 2,349,865; May 30.
Hayes Industries, Inc. (See Hollerith, Charles, assignor.)
Hazel-Atlas Glass Company. (See Redman, Frank, assignor.)
Hebenstreit, Harry C., Alliance, Ohio. Stamp for decorating nonplanar surfaces. 2,350,033; May 30.
Heck, Valentine M., assignor to International Shoe Company, St. Louis, Mo. Shoe construction. 2,349,866; May 30.
Heintz, Ralph M., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Starter. 2,349,867; May 30.
Helbush, Herman H. (See Lipp, Elmer L., assignor.)
Henderson, Lawrence M. (See McNamara, T. L., and Henderson.)
Henricks, John A., Jr., assignor to The Udylite Corporation, Detroit, Mich. Cadmium plating. 2,350,165; May 30.
Hercik, Lad L., Lakewood, assignor to The Hill Acme Company, Cleveland, Ohio. Grinding and polishing machine. 2,349,964; May 30.
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Gloor, Walter E., assignor.)
Hercules Powder Company. (See Lawrence, Robert W., assignor.)
Hering, Edward, Beverly, N. J., assignor to United States Pipe and Foundry Company. Joint for concrete pipe. 2,350,231; May 30.
Herrington, James A., assignor to Knu-Vise, Incorporated, Detroit, Mich. Toggle clamp. 2,350,034; May 30.
Herzberger, Maximilian J., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic lens. 2,350,035; May 30.
Heymann, Roy D., Watertown, Mass., assignor to The William L. Gilbert Clock Corporation, Winsted, Conn. Clock case. 2,350,164; May 30.
Higgins, Edwin C. (See Olsen, M. R., Reid, and Higgins.)
High Standard Manufacturing Company, The. (See Robinson, Thomas R., Jr., assignor.)
Hill Acme Company, The. (See Hercik, Lad L., assignor.)
Himes, Harold H., Widnoon, Pa. Windshield glare diffuser. 2,350,166; May 30.
Hines, Harry E., assignor to Consolidated Paper Company, Monroe, Mich. Carton. 2,350,232; May 30.
Hines, Harry E., assignor to Consolidated Paper Company, Monroe, Mich. Apparatus for forming cartons. 2,350,278; May 30.
Hodaly, Emerick, Detroit, Mich. Sled pushing and pulling means. 2,350,036; May 30.

Hoeffelman, Johan M., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Coating composition. 2,350,279; May 30.
Hoffman, Andrew. (See Bock, Charles S., assignor.)
Hoffmann-La Roche Inc. (See Preiswerk, Ernst, assignor.)
Hofheins, Roger W., C. E. Harrington, C. D. Thomas, and P. P. M. Dubosclard, assignors to Amphibian Car Corporation, Buffalo, N. Y. Amphibian vehicle. 2,350,037; May 30.
Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Brake structure. 2,350,038; May 30.
Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Reinforcing for brake blocks. 2,350,039; May 30.
Holtzman, Wolfe, Brooklyn, N. Y. Cabinet. 2,350,280; May 30.
Hood, Henry J., assignor to Eastman Kodak Company, Rochester, N. Y. Lens hood. 2,350,110; May 30.
Hood, John W., Ridgewood, assignor to Acco, Incorporated, Bloomfield, N. J. Clarification of liquids. 2,350,111; May 30.
Hood, Richard W. (See Vaughn, John L., assignor.)
Hoover Company, The. (See Osborn, Ralph C., assignor.)
Hopkins, Robert K., assignor to The M. W. Kellogg Company, New York, N. Y. Apparatus for the production of metal. 2,350,233; May 30.
Horton, Erwin C., Hamburg, and A. Rappl, assignors to Trico Products Corporation, Buffalo, N. Y. Precision instrument. 2,350,040; May 30.
Horton, Frank J., Hamtramck, assignor to Super Tool Company, Detroit, Mich. Grinding machine. 2,350,234; May 30.
Houghton, James L., Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y. Lens system. 2,350,112; May 30.
Houk, Alva L. (See Bock, L. H., and Houk.)
Howard, Styles T., Jeffersonville, Ind. Blueprint washing machine. 2,349,823; May 30.
Hudson, H. D., Manufacturing Company. (See Oys, John E., assignor.)
Hughes, Arthur J., et al. (See Sproule, Donald O., assignor.)
Hughes, E. Griffiths. (See Harris, Walter S., assignor.)
Hughes, Henry, & Son Limited, et al. (See Sproule, Donald O., assignor.)
Hunt, Thomas N. (See Miller, Melvin G., assignor.)
Hurley, Earl H., Emporium, Pa. Portable support. 2,350,113; May 30.
Hurley, Max, assignor to Hurseal Patents Limited, London, England. Heating appliance. 2,349,965; May 30.
Hurseal Patents Limited. (See Hurley, Max, assignor.)
Hyde, Donald B., Newton, Mass. Bird feeder. 2,349,868; May 30.
Hyman, Benjamin M., Moline, Ill., assignor to International Harvester Company. Harvester construction. 2,349,905; May 30.
Hyman, Benjamin M., Moline, Ill., assignor to International Harvester Company. Tractor-attached implement. 2,349,906; May 30.
Ideal Novelty & Toy Co. (See Katz, Abraham M., assignor.)
Imperial Brass Manufacturing Company, The. (See Davis, Ernest W., assignor.)
Imperial Brass Manufacturing Company, The. (See McIntosh, Robert D., assignor.)
Ingwer, Carl H., and O. E. Swanson, Elyria, assignors to The Ridge Tool Company, North Ridgeville, Ohio. Bolt threader. 2,350,313; May 30.
Institute of Paper Chemistry, The. (See Van den Akker, Johannes A., assignor.)
International Harvester Company. (See Bechman, William O., assignor.)
International Harvester Company. (See Crumb, Charles F., assignor.)
International Harvester Company. (See Dyrr, Jacob V., assignor.)
International Harvester Company. (See Hyman, Benjamin M., assignor.)
International Harvester Company. (See Karlsson, Elof, assignor.)
International Harvester Company. (See La Motte, Ralph R., assignor.)
International Harvester Company. (See Orelind, John R., assignor.)
International Harvester Company. (See Rietz, Edward L., assignor.)
International Shoe Company. (See Heck, Valentine M., assignor.)
Ipatieff, Vladimir N. (See Schmerling, L., and Ipatieff.)
Irasek, Eugene H., Bethesda, Md. Roller bearing separator. 2,349,824; May 30.
Irslinger, Otto, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Reception of frequency modulated waves. 2,349,966; May 30.
Ishibashi, Junkichi. (See Arimori, T., Konishi, Ishibashi, and Yoshimura.)
Jack & Heintz, Inc. (See Heintz, Ralph M., assignor.)
Jacobson, Walter V. (See Warren, W. S., and Jacobson.)
Javal, Henri L., Vichy, France; vested in the Alien Property Custodian. Explosion and internal-combustion engine. 2,349,967; May 30.
Jersey Cigar Machines, Inc. (See Giles, Joseph W. and W. J., assignors.)
Johanson, Sten. (See Kende, G., and Johanson.)
Johnson, Fred B., Chicago, Ill., assignor to The Linde Air Products Company. Reproducing machine guiding unit. 2,349,955; May 30.
Johnson, William, assignor to H. Warp, Chicago, Ill. Window shade attachment. 2,350,235; May 30.
Johnson, William, assignor to H. Warp, Chicago, Ill. Window shade attachment. 2,350,236; May 30.
Jones, Howard A. (See Deonier, C. C., and Jones.)
Jones, Leo D., assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal separator. 2,350,041; May 30.
Jones, Rhoda C., and W. B. Craft, Manchester, Ky. Hand loom. 2,350,167; May 30.
Jongeneel, Albert M., et al. (See Loucks, C. A., and Schmidt, assignors.)
Jurs, Eugene E., Oakland, and J. J. Denham, Orinda, Calif., assignors to Shand and Jurs Company. Tank gauge. 2,350,042; May 30.
Kagley, William H. (See Drake, E. P., Alberty, and Kagley.)
Kalvin, Edwin F., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch. 2,350,043; May 30.
Kampfer, Charles W., St. Paul, Minn. Traffic control for power conveyers. 2,349,968; May 30.
Kanhofer, Elmer R. (See Day, R. B., and Kanhofer.)
Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Mixing tank for carbonated beverages. 2,350,044; May 30.
Kapella Limited. (See Reason, Richard E., assignor.)
Karlsson, Elof, Moline, Ill., assignor to International Harvester Company. Corn harvester. 2,349,869; May 30.
Karns, George M., Williamsville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Processing yarn. 2,350,168; May 30.
Kathe, Edmund A., assignor to The Rainflo Manufacturing Company, Springfield, Ohio. Water softener. 2,350,045; May 30.
Katz, Abraham M., Brooklyn, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Head construction for dolls. 2,350,114; May 30.
Katzow, Abram, Indianapolis, Ind. Refrigerating system. 2,350,115; May 30.
Kearney & Trecker Corporation. (See Guetzkow, Edward, assignor.)
Kegler, Harold L. (See Dean, R. H., Cooley, and Kegler.)
Kelco Company. (See Clark, D. E., Pratt, Coleman, and Green, assignors.)
Kelleher, Daniel, Strongsville, assignor to The American Coach & Body Company, Cleveland, Ohio. Method and apparatus for bending structural shapes. 2,350,046; May 30.
Kelleher, Joseph T., Malden, assignor of one-half to American Optical Company, Southbridge, and one-half to Neveroil Bearing Co., Wakefield, Mass. Metallic composition and abrading tool of said composition. 2,349,825; May 30.
Kellogg, M. W., Company, The. (See Hopkins, Robert K., assignor.)
Kellogg, M. W., Company, The. (See Layng, Edwin T., assignor.)
Kemp, Archie R. (See Fuller, C. S., and Kemp.)
Kende, George, Dobbs Ferry, and S. Johanson, assignors to Universal Camera Corporation, New York, N. Y. Photographic apparatus. 2,350,237; May 30.
Kesselring, Clarence, Anaconda, Mont. Telescopic sight mount for firearms. 2,350,169; May 30.
Kimes, Richard T., South Charleston, W. Va. Leg extension appliance for ladders. 2,350,116; May 30.
Kinnard, Isaac F., Boston, Mass., assignor to General Electric Company. Volt-ampere meter. 2,350,170; May 30.
Klarmann, Emil, and L. W. Gates, Bloomfield, N. J., assignor to Lehn & Fink Products Corporation. Antiperspirant and deodorant. 2,350,047; May 30.
Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Pulsating device and honing. 2,350,117; May 30.
Knapp, David R., assignor, by mesne assignments, to Rol-A-Way Company, Inc., Philadelphia, Pa. Wheel truck. 2,350,118; May 30.
Kneissler, Walter, Roselle, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,350,314; May 30.
Knight, Chesterton S., assignor to Geo. Knight & Co., Brockton, Mass. Machine for trimming the flash from rubber heels and the like. 2,350,238; May 30.
Knight, Geo., & Co. (See Knight, Chesterton S., assignor.)
Knu-Vise, Incorporated. (See Herrington, James A., assignor.)
Kobler, Victor and W., Zurich, Switzerland. Electric dry-shaving apparatus having a shearing head guard. 2,350,048; May 30.
Kobler, Werner. (See Kobler, Victor and W.)
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Frequency modulation system. 2,349,870; May 30.
Kohn, Milton, Chicago, Ill. Sediment test record card. 2,350,239; May 30.
Konishi, Yukio. (See Arimori, T., Konishi, Ishibashi, and Yoshimura.)

Kos, Alfred S., G. T. Gerlach, and P. Altman, Detroit, Mich., assignors, by mesne assignments, to Consolidated Vultee Aircraft Corporation. Metal door. 2,349,907; May 30.

Kotcher, Edwin H., assignor to The Murray Corporation of America, Detroit, Mich. Forming sinks. 2,350,119; May 30.

Kral, Joseph, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener. 2,350,315; May 30.

Kremers, Karl, Stuttgart, Germany; vested in the Alien Property Custodian. Separating albuminous products from milk good for beating and baking. 2,349,969; May 30.

Krueger, Alfred P., Stratford, and M. J. West, assignors, by mesne assignments, to Better Packages, Inc., Shelton, Conn. Tape-serving mechanism. 2,350,281; May 30.

Kussmaul, Walter. (See Stoll, A., Kussmaul, and Becker.)

La Lande, William A., Jr., Upper Darby, assignor to Attapulgus Clay Company, Philadelphia, Pa. Making catalysts. 2,350,282; May 30.

Lambeck, Adriaan J. J., Dordrecht, Netherlands; vested in the Alien Property Custodian. Cartridge case. 2,349,970; May 30.

Lambert, Harry L., Enfield, assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y. Switch and controlling circuits. 2,349,871; May 30.

La Motte, Ralph R., Richmond, Ind., assignor to International Harvester Company. Holder for deplating articles. 2,349,908; May 30.

Lapina, John M., Brooklyn, N. Y. Window screen. 2,350,305; May 30.

Lawler, Frank P., Chicago, Ill., assignor of one-third to C. H. Grant, San Francisco, Calif., one-third to F. P. Lawler, Chicago, Ill., and one-third to P. J. Tyler, Oroville, Calif. Hoist. 2,350,120; May 30.

Lawrence, Howard C., Haddon Heights, N. J., assignor to Radio Corporation of America. Reactance controlled generator. 2,350,171; May 30.

Lawrence, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Electric blasting cap. 2,350,172; May 30.

Lawrie, Thomas A., et al. (See Spillane, Paul X., assignor.)

Layng, Edwin T., Jersey City, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Aromatization of aliphatic hydrocarbons. 2,349,826; May 30.

Lear, Earl B., Garfield Heights, assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Rock drill rotation mechanism. 2,349,971; May 30.

Leavitt Machine Company, The. (See Dexter, Frederick A., assignor.)

Lee, George W., Willow Springs, N. C. Plow of the sweep type. 2,350,049; May 30.

Lee, James, Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 2,349,799; May 30.

Lee, James, Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 2,349,800; May 30.

Lehn & Fink Products Corporation. (See Klarmann, E., and Gates, assignors.)

Leister, Fayette, Detroit, Mich., and H. A. Leister, Philadelphia, Pa. Sextant. 2,350,240; May 30.

Leister, Herbert A. (See Leister, Fayette and H. A.)

Lever Bias Machine Corporation. (See Gardner, Percy, assignor.)

Levin, Joseph, Lancaster, Pa., assignor to Polan, Katz & Company, Baltimore, Md. Umbrella ferrule. 2,350,283; May 30.

Lilly, Eli, and Company. (See Shonle, H. A., and Rohrmann, assignors.)

Lim, Peter, Los Angeles, Calif. Vehicle. 2,350,050; May 30.

Linde Air Products Company, The. (See Geibig, Frank C., assignor.)

Linde Air Products Company, The. (See Johnson, Fred B., assignor.)

Lindemann, A. J., & Hoverson Company. (See Stanchfield, Charles, assignor.)

Lindsay Ripe Olive Company. (See Drake, E. P., Alberty, and Kagley.)

Link-Belt Company. (See Strube, Harry L., assignor.)

Lipe-Rollway Corporation. (See Spase, Charles B., assignor.)

Lipp, Elmer L., Glendale, assignor to H. H. Helbush, Los Angeles, Calif. Skin clamp. 2,349,872; May 30.

Liquid Carbonic Corporation, The. (See Kantor, James, assignor.)

Lister, Thomas R., Whiting, Ind., assignor to American Smelting and Refining Company, New York, N. Y. Apparatus for refining metals and alloys. 2,349,972; May 30.

Lisy, John, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Uncoiling device. 2,349,873; May 30.

Littell, F. J., Machine Company. (See Littell, Frederick M., assignor.)

Littell, Frederick M., Detroit, Mich., assignor to F. J. Littell Machine Company, Chicago, Ill. Scrap cutter. 2,349,874; May 30.

Little, Charles W. G., deceased, Enfield, by Barclays Bank Limited, London, executor, assignor to F. S. Lowe, Shiplake, Henley-on-Thames, England. Stropping device for safety razor blades. 2,350,241; May 30.

Logan, Frank A., et al. (See Newell, Harold V., assignor.)

Loucks, Claude A., Walnut Grove, and L. K. Schmidt, Rio Vista, assignors of twenty-one and one-fourth per cent to said Loucks, thirty-six and one-fourth per cent to said Schmidt, twenty-one and one-fourth per cent to A. M. Jongeneel, Walnut Grove, and twenty-one and one-fourth per cent to G. P. du Bose, Stockton, Calif. Beet lifting and topping implement. 2,350,173; May 30.

Low, Allan W. (See Bousquet, L'R. G., Young, and Low.)

Lowe, Francis S. (See Little, Charles W. G., assignor.)

Lübeck, Heinz, Berlin, Germany, assignor to General Electric Co. Electrical transmission of pictures and/or characters. 2,350,051; May 30.

Luboshez, Benjamin E. (See Evans, R. M., and Luboshez.)

Lucas, Henry M., and H. N. Stephan, Cleveland Heights, assignors, by mesne assignments, to The Lucas Machine Tool Company, Bratenahl, Ohio. Boring machine. 2,350,174; May 30.

Lucas Machine Tool Company. (See Lucas, H. M., and Stephan, assignors.)

Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio range. 2,350,284; May 30.

Luertzing, Paul R., assignor of one-half to W. O. Luertzing, Vineland, N. J. Making hollow glass articles. 2,350,052; May 30.

Luertzing, Walter O. (See Luertzing, Paul R., assignor.)

Lumbard, Henry G., Auburn, Maine. Bottom filler for shoes. 2,350,053; May 30.

Luxenberger, Eugene A., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Vulcanizing apparatus. 2,350,175; May 30.

M. J. B. Company. (See Burns, Wilford E., assignor.)

MacKay, Lauchlin J., Chapman Camp, British Columbia, Canada. Utensil cover. 2,350,243; May 30.

MacKen, Harold I., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone measuring system. 2,350,177; May 30.

Mackenzie, Franklin H., Lansdowne, Pa., assignor, by mesne assignments, to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Reinforcement and molded article containing the same. 2,349,975; May 30.

Makowsky, J., Corporation. (See Van Rosen, Robert, assignor.)

Magnus Metal Corporation. (See Dodd, Louis C., assignor.)

Maier, Charles G., Oakland, Calif., assignor to The Dow Chemical Company, Midland, Mich. Treatment of chromium ores. 2,349,801; May 30.

Malhiot, Clarence J., Oak Park, assignor to F. B. Redington Co., Chicago, Ill. Feeding mechanism for wrapping machines. 2,350,244; May 30.

Malhiot, Eugene L., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 2,349,878; May 30.

Mallory, Marion, Detroit, Mich. Internal-combustion engine. 2,350,056; May 30.

Mandlak, Louis, Fort Worth, Tex. Powder gun. 2,349,875; May 30.

Manufacturers Bank and Trust Company of St. Louis, executor. (See Bertsch, Johann A.)

Martin, Frederick W., Greenwich, Conn. Journal lubricator. 2,350,245; May 30.

Martin, Harry, assignor to Martin Laboratories, Inc., New York, N. Y. Hair waving. 2,350,178; May 30.

Martin, James, Higher Denham, near Uxbridge, England. Gun mounting for airplanes. 2,350,122; May 30.

Martin Laboratories, Inc. (See Martin, Harry, assignor.)

Martin, Otis C., Los Angeles, Calif. Forming tool. 2,350,057; May 30.

Martin, Russell, assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Air intake governor for heating devices. 2,349,876; May 30.

Marvin, John T., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for making composite metal parts. 2,350,179; May 30.

Matsudaira, Hatsutaro, Hsingking, Manchoukuo; vested in the Alien Property Custodian. System for directive radiation of electromagnetic waves. 2,349,976; May 30.

Mattox, William J., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic reforming. 2,349,827; May 30.

Maxon, Glenway, Jr., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete mixer. 2,350,285; May 30.

May, Richard W., Pittsfield, Mass., assignor to W. & L. E. Gurley, Troy, N. Y. Method and apparatus for testing the porosity of sheet metals. 2,350,058; May 30.

Mayne, Robert. (See Smith, K. D., and Mayne.)

Mazzoni, Lucien, Lyon, France; vested in the Alien Property Custodian. Comb mold. 2,349,977; May 30.

McAlpine, Lawrence W., Jr. (See McAlpine, Lawrence W., assignor.)

McAlpine, Lawrence W., assignor of twenty per cent to L. W. McAlpine, Jr., Savannah, Ga., and twenty per cent to W. E. Carr, Norfolk, Va. Air brake cylinder release valve. 2,350,242; May 30.

McCaskey, Perry A., Minerva, Ohio. Blade holder. 2,350,121; May 30.

McCormick, George, San Carlos, L. N. Griffith, Oakland, E. J. Carter, Berkeley, A. D. Williams, Sacramento, Calif., and S. and T. T. McCormick, Columbus, Tex.; said Griffith, Carter, Williams, and S. and T. T. McCormick assignors to said G. McCormick. Journal box lid. 2,349,973; May 30.

McCormick, Stephen. (See McCormick, G., Griffith, Carter, Williams, and McCormick, S. and T. T.)

McCormick, Thornton T. (See McCormick, G., Griffith, Carter, Williams, and McCormick, S. and T. T.)

McIntosh, Robert D., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Tube flaring tool. 2,350,054; May 30.

McKnight, Robert L., Watertown, assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 2,349,802; May 30.

McMasters, Thomas B., Chicago, Ill. Safety leg portion for trousers or similar garments. 2,349,974; May 30.

McNamara, Timothy L., Arlington Heights, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Method for treating hydrocarbon oil. 2,350,176; May 30.

McQuillan, John F., Sr., East Orange, N. J. Scratch bit. 2,350,055; May 30.

Meharg, Virgil E., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Making mineral wool batts. 2,349,909; May 30.

Mercer, John F., Washington, D. C. Welded boat construction. 2,350,246; May 30.

Mercier, Jean, New York, N. Y. Metallic gland. 2,350,123; May 30.

Messchaert, Frederick W., Oakland, Calif. Indicator for typewriters and the like. 2,350,059; May 30.

Methven, Clyde L., St. Paul, Minn. Joint construction. 2,349,910; May 30.

Meyer, Herbert, and E. M. Spiegel, assignor to N. Meyer, New York, N. Y. Rite-lite way. 2,350,316; May 30.

Meyer, Nicholas. (See Meyer, H., and Spiegel, assignors.)

Michelman, Nathan, Brooklyn, N. Y. Rolling door construction. 2,350,286; May 30.

Michelman, Nathan, Brooklyn, N. Y. Slat construction for rolling doors. 2,350,287; May 30.

Michelman, Nathan, Brooklyn, N. Y. Guide rail for rolling doors. 2,350,288; May 30.

Micromatic Hone Corporation. (See Kline, John E., assignor.)

Microstat Corporation. (See Pratt, Verneur E., assignor.)

Miller, Arthur G., Staunton, Va., assignor to American Telephone and Telegraph Company. Telegraph system. 2,350,180; May 30.

Miller, George F., et al. (See Butts, Richard R., assignor.)

Miller, Melvin G., Houston, Tex., assignor of one-fourth to T. W. Hunt. Split housing plug valve. 2,349,978; May 30.

Miller, Robert M., assignor to Fox Products Company, Philadelphia, Pa. Signal device. 2,350,289; May 30.

Millis, H. L. (See Warfield, Claude E., assignor.)

Mishawaka Rubber and Woolen Manufacturing Company. (See Luxenberger, Eugene A., assignor.)

Mogensen, Martin C., et al. (See Fanger, Herman J., assignor.)

Moir, Harry L. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)

Moldenhauer, Otto, and H. Bock, Hirschberg, Riesengebirge, Germany; vested in the Alien Property Custodian. Polymerization or polycondensation product and producing the same. 2,349,979; May 30.

Montgomery, Wiley P., Washington, D. C., assignor to United Aircraft Corporation. Compression testing device for thin materials. 2,350,060; May 30.

Moore, Lindley W., Baltimore, Md. Forest fire extinguisher. 2,349,980; May 30.

Moore, Sidney A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Spanner for electrified fencing. 2,350,290; May 30.

Moray, Virgil W., Bronx, N. Y. Method of and apparatus for bending and forming tubing, rods, wires, and the like. 2,349,828; May 30.

Morgan, Harry W., Wilmington, Del., assignor to Triumph Explosives, Inc., Elkton, Md. Loading apparatus. 2,350,181; May 30.

Morgan, Porter S., Westport, Conn., assignor to American Brake Shoe Company. Gas and liquid pumping and separating apparatus. 2,350,061; May 30.

Morris, Arthur, et al. (See Newell, Harold V., assignor.)

Morris, Thomas C., Medford, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Reinforcing shoe parts. 2,349,877; May 30.

Mosier, Peter, Grand Rapids, Mich. Cart. 2,350,062; May 30.

Mulder, Cornelis A. H., Utrecht, Netherlands; vested in the Alien Property Custodian. Epicyclic gear. 2,349,981; May 30.

Murray Corporation of America, The. (See Kotcher, Edwin H., assignor.)

Murray-Waller, Clive, Ashfield, near Sydney, New South Wales, Australia. Stall warming device for airplanes. 2,349,982; May 30.

Musall, Alexander, Berlin, Germany; vested in the Alien Property Custodian. Device for doweling transverse joints of concrete road pavements. 2,349,983; May 30.

Nadeau, Gale F., and C. B. Starck, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic tracing cloth. 2,350,124; May 30.

National Supply Company, The. (See Spalding, John D., assignor.)

National Tank Company. (See Dixon, Philip C., assignor.)

Neff, William E., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn production. 2,350,182; May 30.

Neighbour, Leonard B., and F. T. Court, Moline, and B. R. Haverstick, Rock Island, assignors to Deere & Company, Moline, Ill. Wagon dump. 2,349,911; May 30.

Neveroil Bearing Co., et al. (See Kelleher, Joseph T., assignor.)

Newell, Harold V., assignor of one-fourth to A. Morris, one-fourth to G. E. Smith, and one-fourth to F. A. Logan, Coventry, England. Machinery guard. 2,350,247; May 30.

Newell, Marvin H., Lodi, Calif. Cow teat medicator. 2,350,183; May 30.

Nichols, Edward C., Upton, and W. C. French, Milton, assignors to Draper Corporation, Hopedale, Mass. Bobbin receptacle and support therefor. 2,350,317; May 30.

Nineteen Hundred Corporation. (See Geldhof, P. E., and Ringer, assignors.)

North American Holding Corporation, et al. (See Sackett, Ernest D., assignor.)

Northern Blower Company. (See Bacon, Hollis P., assignor.)

Nowlin, Aubrey C., Tulsa, Okla. Device for obtaining directional force from rotary motion. 2,350,248; May 30.

Nydegger, Roland R., and J. B. Roberts, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus. 2,349,829; May 30.

Ogren, Arthur, New York, N. Y. Depth and taper gauge. 2,349,879; May 30.

Ohio Citizens Trust Company, The, trustee. (See Replogle, Daniel B., assignor.)

Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)

O'Loughlin, John F. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)

Olsen, Marvin R., Glen Ellyn, J. J. Reid, Elmhurst, and E. C. Higgins, assignors to Sears Roebuck and Co., Chicago, Ill. Water treating device. 2,349,830; May 30.

Orelind, John R., Wilmette, Ill., assignor to International Harvester Company. Power transmission means. 2,349,880; May 30.

Orthner, Ludwig, G. Balle, and H. Schild, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Halogen methyl compounds of sulphonamides and sulphonhydrazides and a process of preparing them. 2,349,912; May 30.

Osborn, Ralph C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,350,249; May 30.

Osgood, Arthur B., Minneapolis, Minn. Dust collector. 2,349,831; May 30.

Ostrander, Robert K., South Orange, N. J., assignor to Badger Cut Outs, Inc., Long Island, N. Y. Toy. 2,349,984; May 30.

Overby, Benjamin M., Brunswick, W. Swilley, Ray City, and S. M. Overby, Brunswick, Ga. Driveway switch. 2,350,063; May 30.

Overby, Sam M. (See Overby, B. M., Swilley, and S. M. Overby.)

Owens-Corning Fiberglas Corporation. (See Black, Henry R., assignor.)

Oys, John E., Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill. Drinking fountain. 2,350,184; May 30.

Page, John N., South St. Paul, Minn. Receptacle closure. 2,349,985; May 30.

Paradise, Louis A. (See Anderson, R. L., Arnold, and Paradise.)

Paramount Textile Machinery Co. (See Dunn, George E., assignor.)

Parker Appliance Company, The. (See Parker, Arthur L., assignor.)

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Metalworking machine. 2,350,065; May 30.

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Hydraulic motor. 2,350,066; May 30.

Parker, Henry C. (See Wyscaver, Floyd J., assignor.)

Parshad Holding Corporation, et al. (See Sackett, Ernest D., assignor.)

Paton, Roy W., assignor to The Perfect Circle Company, Hagerstown, Ind. Piston expander. 2,350,064; May 30.

Patterson, Robert D., Elizabeth, N. J., assignor to Rheem Manufacturing Company, Richmond, Calif. Container closure. 2,349,913; May 30.

Paul, Max. (See Hawk, W. L., Paul, and Evans.)
Peale, Rembrandt, Jr. (See Peale, Richard, and R.)
Peale, Richard, Clearfield, Pa., and R. Peale, Jr., Greenwich, Conn. Material loading and conveying. 2,349,914; May 30.
Perfect Circle Company, The. (See Paton, Roy W., assignor.)
Pero, John M., Randolph, and N. Daniels, Malden, Mass. Binder for shoe uppers. 2,350,185; May 30.
Perry, Donald B., Maplewood, N. J., assignor to American Telephone and Telegraph, Company. Teletypewriter system. 2,350,186; May 30.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver. 2,349,881; May 30.
Pfeiffer, Joseph C., Louisville, Ky. Starling scaring device. 2,350,187; May 30.
Philco Radio and Television Corporation. (See Grimes, David, assignor.)
Phillips Petroleum Company. (See Hachmuth, Karl H., assignor.)
Pietrobon, Attil, assignor of one-half to J. F. Stine, Jr., Allentown, Pa. Vehicle opener. 2,350,250; May 30.
Pilcher, J. Y., Mfg. Co. (See Babbitt, John F., assignor.)
Pinkney, Paul S., assignor to E. I du Pont de Nemours & Company, Wilmington, Del. Textile treatment. 2,350,188; May 30.
Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Helicopter. 2,350,126; May 30.
Place, Willard P., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal system using phase modulation. 2,349,987; May 30.
Polan, Katz & Company. (See Levin, Joseph, assignor.)
Porter, Henry D., and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Forming sulphonic acid chlorides of couplers. 2,350,127; May 30.
Powers, Thomas C., Upper Darby, Pa. Awning. 2,350,251; May 30.
Pratt, Leland D. (See Clark, D. E., Pratt, Coleman, and Green.)
Pratt, Verneur E., Norwalk, Conn., assignor to Microstat Corporation. Viewing apparatus. 2,350,189; May 30.
Preiswerk, Ernst, Munchenstein, near Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Aqueous solution of lactoflavin. 2,349,986; May 30.
Presser, Eric A. F., East Chicago, Ind. Double acting kneader. 2,350,299; May 30.
Prime Manufacturing Company, The. (See Moore, Sidney A., assignor.)
Productive Inventions, Inc. (See Smulski, Theodore J., assignor.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Pure Oil Company, The. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule, assignors.)
Pure Oil Company, The. (See Folkins, H. O., and Thacker, assignors.)
Pure Oil Company, The. (See McNamara, T. L., and Henderson, assignors.)
Pure Oil Company, The. (See Wagner, C. R., and Ridgway, assignors.)
Queen, Harold E., et al., executors. (See Replogle, Daniel B.)
Quick, Frederick A., Bellerose, assignor to All Purpose Gold Corporation, Brooklyn, N. Y. Lathe. 2,350,190; May 30.
Quick, Lyle B., New Britain, Conn. Device for installing and removing lamp tubes. 2,349,988; May 30.
Quittner, Ervin. (See Schwimmer, K. H., and Quittner.)
Radio Corporation of America. (See Artzt, Maurice, assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Deal, Harmon B., assignor.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Lawrence, Howard C., assignor.)
Radio Corporation of America. (See Luck, David G. C., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor).
Radio Corporation of America. (See Schrader, H. J., and Scheldorf, assignors.)
Radio Corporation of America. (See Sinnett, Chester M., assignor.)
Rainflo Manufacturing Company, The. (See Kathe, Edmund A., assignor.)
Ramsey, Joseph D. (See Fiumedoro, Ali J., assignor.)
Rapinwax Paper Company. (See Sermattei, J. P., and Rhodes, assignors.)
Rappl, Anton. (See Horton, E. C., and Rappl.)
Raymond, Horace H., Berlin, Conn., assignor to Atlantic Rayon Corporation, Providence, R. I. Dyeing apparatus. 2,350,191; May 30.
Reason, Richard E., assignor to Kapella Limited, Leicester, England. Optical testing or measuring apparatus. 2,349,989; May 30.
Redington, F. B., Co. (See Malholt, Clarence J., assignor.)
Redman, Frank, Washington, Pa., assignor to Hazel-Atlas Glass Company. Clamp-applying apparatus. 2,350,192; May 30.
Reeder, L. D., et al. (See Yashan, Leonard A., assignor.)
Reeder, L. D., Co., et al. (See Yashan, Leonard A., assignor.)
Reichelt, Lester O., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple unit apparatus. 2,349,882; May 30.
Reichenbach, Albert T. (See Forsythe, J. W., and Reichenbach.)
Reid, John J. (See Olsen, M. R., Reid, and Higgins.)
Remington Rand Inc. (See Hanes, Harvey, assignor.)
Remington Rand Inc. (See Streng, Jan, assignor.)
Remington Rand Inc. (See Wolters, Carl F., assignor.)
Rennie, Edward J. (See Shellmer, H., and Rennie.)
Replogle, Carl S., et al., executors. (See Replogle, Daniel B.)
Replogle, Daniel B., Berkeley, Calif., deceased, Bank of America National Trust and Savings Association, C. S. Replogle, H. E. Queen, and L. H. Bullock, executors, assignors to The Ohio Citizens Trust Company, Toledo, Ohio, trustee. Spectacular dust indicator for airway sanitary cleaning systems. 2,349,832; May 30.
Research Corporation. (See Williams, R. R., and Cline, assignors.)
Reynolds, Charles D., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Bobbin-winding machine. 2,350,128; May 30.
Rheem Manufacturing Company. (See Hawk, W. L., Paul, and Evans, assignors.)
Rheem Manufacturing Company. (See Patterson, Robert D., assignor.)
Rhoads, Charles S., Albany, N. Y., assignor to American Telephone and Telegraph Company. Auxiliary telephone apparatus. 2,350,193; May 30.
Rhodes, Cecil M. (See Sermattei, J. P., and Rhodes.)
Richards, Hugh W., Carrollton, Ga. Ladder. 2,350,129; May 30.
Rider, Harry N., assignor to "Automatic" Sprinkler Company of America, Youngstown, Ohio. Sprinkler valve actuating device. 2,349,883; May 30.
Ridge Tool Company, The. (See Ingwer, C. H., and Swanson, assignors.)
Ridgway, Charles M. (See Wagner, C. R., and Ridgway.)
Rietz, Edward L., Riverside, Ill., assignor to International Harvester Company. Draft device. 2,349,884; May 30.
Rincón, Salvador, Mexico, D. F., Mexico. Molding apparatus. 2,350,291; May 30.
Ring, Philip, et al. (See Spillane, Paul X., assignor.)
Ringer, Luther. (See Geldhof, P. E., and Ringer.)
Rinkinen, John H., Atlantic Mine, Mich. Footplate for skis, snowshoes, and the like. 2,350,130; May 30.
Roberts, John B. (See Nydegger, R. R., and Roberts.)
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Oscillation generator. 2,349,885; May 30.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Phase modulation recording and reproducing system. 2,349,886; May 30.
Roberts, William A., and W. Spiegel, Butte, Mont. Rotary oven. 2,350,067; May 30.
Robertshaw Thermostat Company. (See Weber, Victor, assignor.)
Robinson, James H., Dover, N. J. Parachute. 2,349,833; May 30.
Robinson, Thomas R., Jr., New Haven, assignor to The High Standard Manufacturing Company, Hamden, Conn. Pivot means for firearm elements. 2,350,131; May 30.
Rohdin, Howard, Glen Ridge, N. J. Bag and making the same. 2,350,132; May 30.
Röhm & Haas Company. (See Bock, L. H., and Houk, assignors.)
Röhm & Haas Company. (See Hager, Onslow B., assignor.)
Rohrmann, Ewald. (See Shonle, H. A., and Rohrmann.)
Rol-A-Way Company. (See Knapp, David R., assignor.)
Root, L. P., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 2,349,803; May 30.
Roseman, Leo, Newark, N. J. Fabric fastener element. 2,350,194; May 30.
Rossberg, Ehrhard, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian. Connection for teleprinters. 2,349,990; May 30.
Rothe, Anna M. (See Elliott, E. W., and (Rothe, assignor).)
Rothe, Ole O. (See Elliott, E. W., and Rothe.)
Rypinski, Albert B., assignor to Della C. Rypinski, Laurelton, Long Island, N. Y. Current-limiting and protective arrangement. 2,350,195; May 30.
Rypinski, Della C. (See Rypinski, Albert B., assignor.)
Sackett, Ernest D., Winchester, Mass., assignor of one-half to North American Holding Corporation, and one-half to Parshad Holding Corporation, Syracuse, N. Y. Shoe filler composition and making. 2,350,252; May 30.
Saco-Lowell Shops. (See Shaw, Benjamin C., assignor.)
Saffir, Jacob A., Chicago, Ill., assignor to The Dentists' Supply Company of New York, New York, N. Y. Artificial teeth. 2,350,196; May 30.

Sander, Frank S., New York, N. Y. Connecting clamp. 2,349,991; May 30.
Sandoz Ltd. (See Stoll, A., Kussmaul, and Becker.)
Sann, Otto. (See Hahn, G. J., and Sann.)
Schade, Willy, assignor to Eastman Kodak Company, Rochester, N. Y. Wide angle lens. 2,350,133; May 30.
Scheldorf, Ranald D. (See Schrader, H. J., and Scheldorf.)
Scheller, Henry, New York, N. Y. Focus drawing scale. 2,350,068; May 30.
Schild, Heinz. (See Orthner, L., Balle, and Schild.)
Schmerling, Louis, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,349,834; May 30.
Schmidt, John H. (See Gliss, G. E., and Schmidt.)
Schmidt, Lloyd K. (See Loucks, C. A., and Schmidt, assignors.)
Schneider, Fred B., Wesleyville, Pa., assignor to General Electric Company. Elastic fluid power plant. 2,350,197; May 30.
Scholl Mfg. Co., The. (See Bergman, Raymond W., assignor.)
Schrader, Harold J., Haddonfield, and R. D. Scheldorf, Haddon Heights, N. J., assignors to Radio Corporation of America. Oscillograph sweep circuit. 2,350,069; May 30.
Schrader, Walter, Doberitz, near Berlin, Germany; vested in the Alien Property Custodian. Device for indicating contaminations in oil circulation systems. 2,349,992; May 30.
Schwimmer, Károly H., and E. Quittner, Budapest, Hungary; vested in the Alien Property Custodian. Camouflage. 2,349,993; May 30.
Scovill Manufacturing Company. (See Lee, James, assignor.)
Scovill Manufacturing Company. (See McKnight, Robert L., assignor.)
Scovill Manufacturing Company. (See Root, Le Roy P., assignor.)
Sears, Roebuck and Co. (See Olsen, M. R., Reid, and Higgins, assignors.)
Selberg, Clarence M., Los Angeles, Calif. Hose clamp wrench. 2,349,887; May 30.
Sermattei, John P., Minneapolis, and C. M. Rhodes, St. Paul, assignors to Rapinwax Paper Company, Minnepolis, Minn. Coated sheet and producing the same. 2,350,292; May 30.
Shaffer, Charles H., Lancaster, N. Y. Coremaking machine. 2,350,253; May 30.
Shaffer, Cleve F., et al. (See Fanger, Herman J., assignor.)
Shand and Jurs Company. (See Jurs, E. E., and Denham, assignors.)
Sharp, Douglas F. (See Carlson, E. C., and Sharp.)
Sharples Corporation, The. (See Jones, Leo D., assignor.)
Shaw, Benjamin C., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Textile drafting mechanism. 2,350,254; May 30.
Shell Development Company. (See Dawson, R. D., and Blankenhorn, assignors.)
Shell Development Company. (See Hoeffelman, Johan M., assignor.)
Shell Development Company. (See Shiras, R. N., and Souders, assignors.)
Shellmer, Herman, Newark, and E. J. Rennie, Denville, assignors to Breeze Corporations, Inc., Newark, N. J. Machine for making flexible tubes. 2,350,070; May 30.
Shields, Wendell H., Grand Rapids, Mich. Cloth spreading device. 2,350,071; May 30.
Shippee, Carl C. (See Shippee, W. and C. C.)
Shippee, Winsor, and C. C. Shippee, Red Bank, N. J. Fastening device. 2,350,255; May 30.
Shiras, Russell N., Oakland, and M. Souders, Jr., Berkeley, assignors to Shell Development Company, San Francisco, Calif. Extractive distillation process. 2,350,256; May 30.
Shonle, Horace A., and E. Rohrmann, assignors to Eli Lilly and Company, Indianapolis, Ind. Aminoalkanes. 2,350,318; May 30.
Simmons, Edward E., Jr., Pasadena, Calif. Torque measuring apparatus. 2,350,072; May 30.
Simmons, Edward E., Jr., Pasadena, Calif. Strain gauge and making same. 2,350,073; May 30.
Singer Manufacturing Company, The. (See Brady, William H., assignor.)
Singer Manufacturing Company, The. (See Kneissler, Walter, assignor.)
Singer Manufacturing Company, The. (See Zonis, Sydney, assignor.)
Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Sound recording system. 2,349,888; May 30.
Slavin, Benjamin J., University City, Mo. Process of manufacturing shoes. 2,350,198; May 30.
Smallen, Louis J., Los Angeles, Calif. Cover for cooking ranges. 2,350,074; May 30.
Smith, Alexander, & Sons Carpet Company. (See Mackenzie, Franklin H., assignor.)
Smith, Charles I., Glendale, and T. J. Ball, Pasadena, Calif. Holding device for food containers in refrigerating dispensing cabinets. 2,350,075; May 30.
Smith, George E., et al. (See Newell, Harold V., assignor.)
Smith, Kimball D., and R. Mayne, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Track for vehicles. 2,350,076; May 30.
Smith, Roy D., Bettendorf, Iowa, assignor to Bee-Line Company, Scott County, Iowa. Balance testing mechanism. 2,350,077; May 30.
Smith, T. L., Company, The. (See Maxon, Glenway, Jr., assignor.)
Smith, William, Jr., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,350,078; May 30.
Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Extensible wiper arm. 2,350,134; May 30.
Snader, Ira J., assignor to Ex-Cell-O Corporation, Detroit, Mich. Abrading tool. 2,349,994; May 30.
Sorensen, Kresten T., Media, Pa., assignor to The Baldwin Locomotive Works. Servomotor. 2,349,804; May 30.
Souders, Mott, Jr. (See Shiras, R. N., and Souders.)
Spain, Roy C., Michigan City, Ind., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 2,350,306; May 30.
Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Roller bearing. 2,350,079; May 30.
Spase, Charles B., Nedrow, assignor to Lipe-Rollway Corporation, Syracuse, N. Y. Clutch. 2,349,996; May 30.
Speth, Lloyd G. (See Van Sittert, P., and Speth.)
Spiegel, Edna M. (See Meyer, H., and Spiegel.)
Spiegel, William. (See Roberts, W. A., and Spiegel.)
Spillane Paul X., Ashfield, near Sydney, assignor to K. Williams, Wahroonga near Sydney, P. Ring, Sydney, and T. A. Lawrie, Killara, near Sydney, New South Wales, Australia. Synthesis of hydrocarbons, alcohols, and formaldehyde. 2,349,915; May 30.
Sproule, Donald O., London, assignor of one-third to A. J. Hughes, Essex, England, and one-third to Henry Hughes & Son Limited, London, England. Compressional wave indicator. 2,350,080; May 30.
Stacy, Thomas F., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Power press. 2,349,916; May 30.
Staley, Ronald W., Pittsfield, Mass., assignor to General Electric Company. Vinyl resins. 2,350,199; May 30.
Stamm, Alfred J., Madison, Wis., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Wood impregnation. 2,350,135; May 30.
Stanchfield, Charles, assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Deflector and shield for ovens. 2,350,293; May 30.
Standard Oil Company. (See Fragen, Nathan, assignor.)
Standard Oil Company of California. (See Denison, G. H., Jr., and Ettling, assignors.)
Standard Oil Company of California. (See Farrington, B. B., Clayton, and Etzler, assignors.)
Standard Railway Equipment Manufacturing Company. (See Bonsall, Charles D., assignor.)
Starck, Clemens B. (See Nadeau, G. F., and Starck.)
Starr, Oscar L., Mission San Jose, assignor to Caterpillar Tractor Co., San Leandro, Calif. Piston. 2,349,917; May 30.
Starr, Oscar L., Mission San Jose, assignor to Caterpillar Tractor Co., San Leandro, Calif. Piston construction. 2,349,918; May 30.
Starr, Oscar L., Mission San Jose, assignor to Caterpillar Tractor Co., San Leandro, Calif. Fitting of members. 2,349,919; May 30.
Starr, Winfield J., Philadelphia, Pa. Screen holder. 2,350,200; May 30.
Steglich, Herbert H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Gaseous developing apparatus. 2,350,257; May 30.
Steiner, Oscar, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Photoflash synchronizer unit and equipment. 2,350,258; May 30.
Stemar Displays Company. (See Einzig, Henry, assignor.)
Stephan, Hallis N. (See Lucas, H. M., and Stephan.)
Steudel, George E., Chicago, Ill. Cutting mains under pressure. 2,349,889; May 30.
Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preserving latex and product thereof. 2,350,294; May 30.
Stine, John F., Jr. (See Pietrobon, Attil, assignor.)
Stiteler, Charles D., Gothenburg, Nebr. Pipe wrench. 2,350,259; May 30.
Stokes, F. J., Machine Company. (See Strauss, William, assignor.)
Stoll, Arthur, W. Kussmaul, and B. Becker, Basel, assignor to Sandoz Ltd., Fribourg, Switzerland. Active glucosides of senna and their preparation. 2,350,295; May 30.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Hitch device. 2,349,997; May 30.

Strauss, William, Philadelphia, Pa., assignor to F. J. Stokes Machine Company. Operation check for molding machines. 2,350,319; May 30.

Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Carrying case for typewriters. 2,350,260; May 30.

Strickland, Harold A., Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Welding tool. 2,349,835; May 30.

Strube, Harry L., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Resilient suspension for vibrating screens and the like. 2,350,201; May 30.

Stuart, Leander S., Bethesda, Md., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office. Curing and preservation of animal and fish products. 2,349,836; May 30.

Sunnen, Cornelia. (See Sunnen, Joseph, assignor.)

Sunnen, Joseph, assignor to Cornelia Sunnen, Clayton, Mo. Piston expander. 2,349,890; May 30.

Sunnen, Joseph, Clayton, M. Boring machine. 2,350,081; May 30.

Super Tool Company. (See Horton, Frank J., assignor.)

Superior Plating Works. (See Barry, Cornelius J., assignor.)

Swanson, Oscar E. (See Ingwer, C. H., and Swanson.)

Swilley, Wilson. (See Overby, B. M., Swilley, and S. M. Overby.)

Sylvania Electric Products Inc. (See Gardner, Roland M., assignor.)

Tapper, Thomas P., Prospect Park, Pa., assignor to The Baldwin Locomotive Works. Molding press. 2,349,805; May 30.

Tate, Malcolm C., Stamford, Conn., assignor to The Baldwin Locomotive Works. Measuring and indicating system. 2,350,261; May 30.

Taussky, Ilona, New York, N. Y. Composition of matter and preparation and process of producing the same. 2,350,082; May 30.

Taylor, Taylor & Hobson Limited. (See Warmisham, A., and Wynn, assignors.)

Ternstedt Manufacturing Company. (See Dean, R. H., Cooley, and Kegler, assignors.)

Thacker, Carlisle M. (See Folkins, H. O., and Thacker.)

Thomas, Charles D. (See Hofheins, R. W., Harrington, Thomas, and Dubosclard.)

Thomas, Willis P., Highland Park, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Soot blower control. 2,350,202; May 30.

Tietze, Alvin E. J., Houston, Tex. Window rain shield. 2,350,296; May 30.

Trahin, John H., Beaumont, Tex. Mechanism to increase the efficiency of engines. 2,350,203; May 30.

Trico Products Corporation. (See Horton, E. C., and Rappl, assignors.)

Trinius, Werner, Bruhl, near Cologne, Germany; vested in the Alien Property Custodian. Apparatus for obtaining persalts by electrolysis. 2,349,998; May 30.

Triumph Explosives, Inc. (See Morgan, Harry W., assignor.)

Tyler, Paul J. (See Lawler, Frank P., assignor.)

Tyrner, Joseph M., Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Heat control for arc welding. 2,349,891; May 30.

Udylite Corporation, The. (See Henricks, John A., Jr., assignor.)

Union Carbide and Carbon Corporation. (See Bucknam, James H., assignor.)

Union Starch & Refining Company. (See Fetzer, Walter R., assignor.)

Union Switch & Signal Company, The. (See Place, Willard P., assignor.)

United Aircraft Corporation. (See Montgomery, Wiley P., assignor.)

United-Carr Fastener Corporation. (See Hall, Charles L., assignor.)

United-Carr Fastener Corporation. (See Kral, Joseph, assignor.)

United Shoe Machinery Corporation. (See Dixon, Paul H., assignor.)

United Shoe Machinery Corporation. (See Eastman, Fred C., assignor.)

United Shoe Machinery Corporation. (See Morris, Thomas C., assignor.)

United States, Dedicated to the free use of the people in the territory of the. (See Deonier, C. C., and Jones.)

United States Pipe and Foundry Company. (See Hering, Edward, assignor.)

Universal Camera Corporation. (See Kende, G., and Johanson, assignors.)

Universal Oil Products Company. (See Day, R. B., and Kanhofer, assignors.)

Universal Oil Products Company. (See Mattox, William J., assignor.)

Universal Oil Products Company. (See Schmerling, L., and Ipatieff, assignors.)

Universal Winding Company. (See Reynolds, Charles D., assignor.)

Universal Winding Company. (See Warren, W. S., and Jacobson, assignors.)

Urbach, Franz, Rochester, N. Y. Combined printing and viewing arrangement. 2,349,999; May 30.

V. Bock, Bernd, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline & Film Corporation. Production of azo dyestuffs. 2,349,899; May 30.

Vallernaud, Jean P. A., Valence-sur-Rhone, France; vested in the Alien Property Custodian. Obtaining deterging, wetting, foaming, metallic salt dispersing and emulsifying agents. 2,350,000; May 30.

Van den Akker, Johannes, Appleton, Wis., assignor to The Institute of Paper Chemistry. Concentration recorder. 2,350,001; May 30.

Van Rosen, Robert, New York, N. Y., assignor to J. Makowsky Corporation. Carton. 2,350,262; May 30.

Van Sittert, Paul, Shaker Heights, and L. G. Speth, East Cleveland, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Riveting tool. 2,350,002; May 30.

Van Weenen, Franciscus L. (See Cramwinckel, A., and van Weenen.)

Vaughn, John L., assignor to R. W. Hood, Chicago, Ill. Pitcher manikin. 2,349,892; May 30.

Vesta, Lewis A., Boyd, Minn. Sunshade. 2,350,297; May 30.

Vogt, Henry, Machine Company. (See Zwishenberger, Joseph A., assignor.)

Wagner, Cary R., Chicago, and C. M. Ridgway, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Catalytic conversion of hydrocarbons. 2,350,204; May 30.

Wahroonga, William K., et al. (See Spilland, Paul X., assignor.)

Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)

Walker, Joseph B., Los Angeles, Calif. Magnetic recording. 2,350,083; May 30.

Warfield, Claude E., Minneapolis, assignor to H. L. Millis, Northfield, Minn. Dispensing liquids from cans. 2,350,205; May 30.

Warmisham, Arthur, and C. G. Wynne, assignors to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective. 2,349,893; May 30.

Warp, Harold. (See Johnson, William, assignor.)

Warren, Winthrop S., Newtonville, Mass., and W. V. Jacobson, Apponaug, R. I., assignors to Universal Winding Company, Boston, Mass. Bobbin-identifying device for winding machines. 2,350,136; May 30.

Watson, Charles W., Wallington, England. Machine for molding bricks. 2,350,298; May 30.

Watts, Donald E., Schenectady, N. Y., assignor to General Electric Company. Anode power supply. 2,350,206; May 30.

Weber, Victor, Greensburg, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Adjusting oven heat control. 2,350,137; May 30.

Weissberger, Arnold. (See Porter, H. D., and Weissberger.)

Weissberger, Arnold, assignor to Eastman Kodak Company, Rochester, N. Y. Nondiffusing acylacetyl sulphonamide coupler. 2,350,138; May 30.

Welcome, Carl J., Toledo, Ohio. Die. 2,349,920; May 30.

Wells, Joseph H. (See Wilson, P. J., Jr., and Wells.)

Wells, Walter A., Washington, D. C. Atomizer. 2,349,894; May 30.

Wemp, Ernest E., Detroit, Mich. Torque reaction device. 2,349,921; May 30.

West, John W., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,350,003; May 30.

West, Michael J. (See Krueger, A. P., and West.)

Western Electric Company. (See Decker, John A., assignor.)

Western Electric Company. (See Duclos, Aeneas J. N., assignor.)

Western Electric Company. (See Ehret, John, Jr., assignor.)

Western Electric Company. (See Gliss, G. E., and Schmidt, assignors.)

Western Electric Company. (See Malhiot, Eugene L., assignor.)

Western Electric Company. (See Reichelt, Lester O., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bostwick, Henry C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Breckenridge, Frank, assignor.)

Westinghouse Electric & Manufacturing Company. (See Cody, Clifford S., assignor.)

Westlund, Karl W., assignor to Ensign Carburetor Co., Ltd., Huntington Park, Calif. Pressure regulator. 2,349,922; May 30.

Wettlaufer, John L., assignor to Dillon Patents Limited, Toronto, Ontario, Canada. Therapeutic vibrator. 2,349,837; May 30.

Whistler, Lawrence V. and S. A., Kenmore, N. Y. Punch and die mechanism for forming knockouts. 2,350,004; May 30.

Whistler, Sanford A. (See Whistler, Lawrence V. and S. A.)

White, John H. (See Finch, O. J., and White.)

Whittaker, Henry C., Memphis, Tenn. Hair curling and wave device. 2,349,895; May 30.

Widmer, Gustav, Basel, and W. Fisch, Binningen, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del. Treatment of textile materials. 2,350,139; May 30.

Wilcoxson, Henry V., Lubbock, Tex. Internal combustion engine. 2,350,005; May 30.

Williams, Austin D. (See McCormick, G., Griffith, Carter, Williams, and McCormick, S. and T. T.)

Williams, Norman D. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)

Williams, Robert R., Summit, N. J., and J. K. Cline, Birmingham, Ala., assignors to Research Corporation, New York, N. Y. Pyrimidine compounds. 2,350,263; May 30.

Williams, Robert R., Summit, N. J., and J. K. Cline, Birmingham, Ala., assignors to Research Corporation, New York, N. Y. Pyrimidine compounds. 2,350,264; May 30.

Williams, Robert R., Summit, N. J., and J. K. Cline, Birmingham, Ala., assignors to Research Corporation, New York, N. Y. Pyrimidine compounds. 2,350,265; May 30.

Williams, Wayne H., Bristol, Va. Casket. 2,350,084; May 30.

Wilson, Philip J., Jr., and J. H. Wells, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Preparing methyl pyridines suitable for conversion into nicotine derivatives. 2,349,896; May 30.

Wilson, Tom, Baltimore, Md., assignor to Bethlehem Steel Company. Apparatus for polishing wire. 2,349,897; May 30.

Wilton, John, Mound Bayou, Miss. Airplane. 2,350,140; May 30.

Wolfner, Alfred S., Paris, France; vested in the Alien Property Custodian. Process and apparatus for controlling fractionation. 2,350,006; May 30.

Wolters, Carl F., Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. File tray. 2,350,266; May 30.

Wood, Gar, Industries, Inc. (See Wood, Louis S., assignor.)

Wood, Louis S., Grosse Pointe Farms, assignor to Gar Wood Industries, Inc., Detroit, Mich. Dump vehicle and stabilizer construction. 2,350,141; May 30.

Wynne, Charles G. (See Warmisham, A., and Wynne.)

Wyscaver, Floyd J., assignor of one-half to H. C. Parker, Washington, D. C. Device for handling incendiary bombs. 2,350,207; May 30.

Yale & Towne Manufacturing Company, The. (See Spain, Roy C., assignor.)

Yashan, Leonard A., Portland, Oreg., assignor to L. D. Reeder, doing business as L. D. Reeder Co., Los Angeles, Calif. Roller shade. 2,350,085; May 30.

Yoshimura, Rinnosuke. (See Arimori, T., Konishi, Ishibashi, and Yoshimura.)

Young, David W. (See Bousquet, L'R. G., Young, and Low.)

Young, Dorris S. (See Young, N. W., and D. S.)

Young, Norris W., Wilsonville, and D. S. Young, Newberg, Oreg. Irrigating means. 2,350,086; May 30.

Young, William T. (See Greider, H. W., and Young.)

Yule, John S. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)

Zerbe, Carl, Hamburg, Germany; vested in the Alien Property Custodian. Heat-treating polymerization products. 2,350,007; May 30.

Zimmers, Abraham M., Baltimore, Md. Sectional roof covering. 2,350,142; May 30.

Zonis, Sydney, Bridgeport, Conn., assignor to The Singer Manufacturing Company, of Elizabeth, N. J. Sewing machine for corner stitching. 2,350,267; May 30.

Zuckerman, Samuel, New York, N. Y. Artificial flower holder. 2,350,268; May 30.

Zumstein, T. B., et al. (See Butts, Richard R., assignor.)

Zwishenberger, Joseph A., assignor to Henry Vogt Machine Company, Louisville, Ky. Valve. 2,350,208; May 30.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bag. A. Rambold. Re. 22,490; May 30.
Chain. A. E. Focke. Re. 22,488; May 30.
Chemical pulps into viscose by adding anion active agents, Improving the processing of refined. P. H. Schlosser. K. R. Gray, and E. G. Hallonquist. Re. 22,489; May 30.
Molded article and making it. W. W. Carter. Re. 22,487; May 30.

LIST OF DESIGN INVENTIONS

Check, Valve. C. Pool. 137,987; May 30.
Closure. J. E. Sharp. 138,003–4; May 30.
Clothespin disk toy. F. E. Hoffman. 137,980; May 30.
Coat. P. Adler. 137,992; May 30.
Container for soap dispensers. H. G. Mullett. 137,985; May 30.
Conveyer, Food. R. J. Baunach. 137,977; May 30.
Crib and bassinet, Combined baby. D. C. Lanese. 137,982; May 30.
Film viewer. W. O. and G. B. Schwartz. 137,988; May 30.
Fowl killing device. A. Silfen. 137,989; May 30.
Frame, Picture. D. L. Hicks. 137,995; May 30.
Glass or similar article, Whiskey. A. F. Mason. 137,994; May 30.
Heat sealer, Pinch type. C. Usinger. 138,005; May 30.
Hydroplane. A. Gazda. 137,979; May 30.
Jacket. N. Finkelstein. 138,007; May 30.
Lapel ornament or similar article. H. Morris. 137,997; May 30.
Match book. G. C. Macdonald. 137,983; May 30.
Muff. G. B. Stackhouse. 138,009; May 30.
Pendant, Key. C. M. Bradbury. 137,978; May 30.
Photographic mount or article of similar nature. G. W. Higgins. 137,996; May 30.
Pin or similar article of manufacture. C. E. O'Malley and J. W. Runyon. 138,002; May 30.
Rack, Advertising. N. Bencomo. 137,993; May 30.
Ring, Finger. J. Walker. 137,991; May 30.
Scale, Bathroom. C. W. Sundberg. 137,990; May 30.
Seat, Skate. R. J. Daly. 137,999; May 30.
Sheet of wallpaper or the like. T. M. O'Donnell. 138,001; May 30.
Soldering iron, Electric. K. Norman. 137,986; May 30.
Tablecloth or similar article. M. Newport. 138,008; May 30.
Telephone handset. E. S. McLarn. 137,984; May 30.
Toy landing barge. J. E. Gibson, Jr. 138,000; May 30.
Toy walker for dolls. E. F. Wittenberg. 138,006; May 30.
Vase. G. M. Shaw. 137,998; May 30.
Whistle, Toy. E. Hughes. 137,981; May 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading tool. C. E. Archer. 2,349,995; May 30.
Abrading tool. I. J. Snader. 2,349,994; May 30.
Active glucosides of senna and their preparation. A. Stoll, W. Kussmaul, and B. Becker. 2,350,295; May 30.
Actuating device, Sprinkler valve. H. N. Rider. 2,349,883; May 30.
Air brake cylinder release valve. L. W. McAlpine. 2,350,242; May 30.
Aircraft carrier. W. H. Atkinson. 2,349,930; May 30.
Airofoil, Adjustable. R. H. Gillmor. 2,349,858; May 30.
Airplane. J. Wilton. 2,350,140; May 30.
Albuminous products from milk good for beating and baking, Separating. K. Kremers. 2,349,969; May 30.
Aliphatic hydrocarbons, aromatization of. E. T. Layng. 2,349,826; May 30.
Aminoalkanes. H. A. Shonle and E. Rohrmann. 2,350,318; May 30.
Amphibian vehicle. R. W. Hofheins, C. E. Harrington, C. D. Thomas and P. P. M. Dubosclard. 2,350,037; May 30.
Animal and fish products, Curing and preservation of. L. S. Stuart. 2,349,836; May 30.
Anode power supply. D. E. Watts. 2,350,206; May 30.
Anti-perspirant and deodorant. E. Klarmann and L. W. Gates. 2,350,047; May 30.
Apparatus. R. R. Nydegger and J. B. Roberts. 2,349,829; May 30.
Apparatus for assembling articles. G. E. Gliss and J. H. Schmidt. 2,349,956; May 30.
Apparatus for casting concrete around piles. T. H. Hansen. 2,349,961; May 30.
Apparatus for cooling gas. H. P. Bacon. 2,349,841; May 30.
Apparatus for cutting channels in road surfaces. F. J. Farrell. 2,349,949; May 30.
Apparatus for forming cartons. H. E. Hines. 2,350,278; May 30.
Apparatus for obtaining persalts by electrolysis. W. Trinius. 2,349,998; May 30.
Apparatus for polishing wire. T. Wilson. 2,349,897; May 30.
Apparatus for refining metals and alloys. T. R. Lister. 2,349,972; May 30.
Apparatus for surface hardening shafts and the like. F. S. Denneen and W. C. Dunn. 2,349,813; May 30.
Apparatus for taking photographs of cavities of the body. F. G. Back. 2,349,932; May 30.
Apparatus for the production of metal. R. K. Hopkins. 2,350,233; May 30.
Applicator, Wax. E. J. Dahlstrom. 2,350,152; May 30.
Aqueous solution of lactoflavin. E. Preiswerk. 2,349,986; May 30.
Arrangement in distance meters according to the stereo-principle. E. Aulin. 2,350,210; May 30.
Article handling machine. J. A. Decker. 2,350,273; May 30.
Artificial flower holder. S. Zuckerman. 2,350,268; May 30.
Artificial teeth. J. A. Saffir. 2,350,196; May 30.
Assembling apparatus. E. L. Malhiot. 2,349,878; May 30.
Atomizer. W. A. Wells. 2,349,894; May 30.
Automotive vehicle construction. B. J. Craig. 2,349,940; May 30.
Awning. T. C. Powers. 2,350,251; May 30.
Azo dyestuffs, Production of. B. v. Bock. 2,349,899; May 30.
Bag and making the same. H. Rohdin. 2,350,132; May 30.
Balance testing mechanism. R. D. Smith. 2,350,077; May 30.
Baler. C. F. Crumb. 2,349,847; May 30.
Bearing: *See*—
Roller bearing. Side bearing.
Beet lifting and topping element. C. A. Laucks and L. K. Schmidt. 2,350,173; May 30.
Bias fabric, Making. P. Gardner. 2,350,027; May 30.
Binder for shoe uppers. J. M. Pero and N. Daniels. 2,350,185; May 30.
Binding device. H. Einzig. 2,349,947; May 30.
Bird feeder. D. B. Hyde. 2,349,868; May 30.
Bit: *See*—
Scratch bit.
Blade and shroud structure. H. P. Dahlstrand. 2,350,125; May 30.
Blade holder. P. A. McCaskey. 2,350,121; May 30.
Blade shrouding. H. P. Dahlstrand. 2,350,309–10; May 30.
Blueprint washing machine. S. T. Howard. 2,349,823; May 30.
Bobbin-identifying device for winding machines. W. S. Warren and W. V. Jacobson. 2,350,136; May 30.
Bobbin receptacle and support therefor. E. C. Nichols and W. French. 2,350,317; May 30.
Bobbin-winding machine. C. D. Reynolds. 2,350,128; May 30.
Bolt threader. C. H. Ingwer and O. E. Swanson. 2,350,313; May 30.
Boring machine. H. M. Lucas and H. N. Stephan. 2,350,174; May 30.
Boring machine. J. Sunnen. 2,350,081; May 30.
Bottom filler for shoes. H. G. Lumbard. 2,350,053; May 30.
Box: *See*—
Lunch box. Vanity box.
Meter box.
Brake block assembly. G. J. Hahn and O. Saun. 2,349,859; May 30.
Brake structure. C. Hollerith. 2,350,038; May 30.
Buffing wheel. G. R. Churchill. 2,350,216; May 30.
Bunches, Method of and apparatus for making. J. W. and W. J. Giles. 2,350,225; May 30.
Buttons and similar articles, Mounting. S. Eppy. 2,350,275; May 30.
Cabinet. W. Holtzman. 2,350,280; May 30.
Cadmium plating. J. A. Henricks, Jr. 2,350,165; May 30.
Calf feeder. J. P. Christensen. 2,350,215; May 30.
Cam closure and making the same. A. G. Hatch. 2,350,312; May 30.
Camouflage. K. H. Schwimmer and E. Quittner. 2,349,993; May 30.
Can. W. E. Burns. 2,349,939; May 30.
Cap: *See*—
Electric blasting cap.
Car roof. C. D. Bonsall. 2,350,213; May 30.
Carrier: *See*—
Aircraft carrier. Catalyst carrier.
Cart. P. Mosier. 2,350,062; May 30.
Carton. H. E. Hines. 2,350,232; May 30.
Carton. R. Van Rosen. 2,350,262; May 30.
Cartridge case. A. J. J. Lambeek. 2,349,970; May 30.
Cartridge cases, Making. J. F. Babbitt. 2,349,840; May 30.
Case: *See*—
Cartridge case. Clock case.
Case for typewriters, Carrying. J. Streng. 2,350,260; May 30.
Casket. W. H. Williams. 2,350,084; May 30.
Catalyst carrier. J. A. Bertsch. 2,349,844; May 30.
Catalysts, Making. W. A. La Lande, Jr. 2,350,282; May 30.
Catalytic conversion process. N. Fragen. 2,349,821; May 30.
Catalytic materials, Preparing. K. H. Hachmuth. 2,349,904; May 30.
Catalytic reforming. R. B. Day and E. R. Kanhofer. 2,349,812; May 30.
Catalytic reforming. W. J. Mattox. 2,349,827; May 30.
Cathode assembly structure. Z. J. Atlee. 2,350,270; May 30.
Cellulose ether, Alkali-soluble carboxy-ethyl. L. H. Bock and A. L. Houk. 2,349,797; May 30.
Cellulose ether. Solution of water-soluble. W. E. Gloor. 2,350,161; May 30.
Cellulose triacetate composition. C. Bogin. 2,350,300; May 30.
Centrifugal separator. L. D. Jones. 2,350,041; May 30.
Chair: *See*—
Folding chair.
Chromium alloy, Electrolytic treatment of. G. J. Beckwith. 2,349,843; May 30.
Chromium ores, Treatment of. C. G. Maier. 2,349,801; May 30.
Chuck unit particularly adapted for stem making machines. J. Ebret, Jr. 2,350,220; May 30.
Cigar band. A. Fichman. 2,350,222; May 30.
Circuit: *See*—
Counter circuit.
Oscillograph sweep circuit.
Clamp: *See*—
Skin clamp. Toggle clamp.
Clamp. C. F. Black. 2,349,809; May 30.
Clamp-applying apparatus. F. Redman. 2,350,192; May 30.
Clamp, Connecting. F. S. Sander. 2,349,991; May 30.
Clip to form necktie knots. R. G. Barreto. 2,349,842; May 30.
Clock case. R. D. Heymann. 2,350,164; May 30.

Closure: *See*—
Container closure.
Cloth spreading device. W. H. Shields. 2,350,071; May 30.
Clutch. C. B. Spase. 2,349,996; May 30.
Clutch mechanism, One-way. J. E. Andreau, 2,349,925; May 30.
Coated cement product and manufacturing same. H. W. Greider and W. T. Young. 2,350,030; May 30.
Coated sheet and producing the same. J. P. Sermattei and C. M. Rhodes. 2,350,292; May 30.
Coating composition. J. M. Hoeffelman. 2,350,279; May 30.
Color photography. R. M. Evans and B. E. Luboshez. 2,350,101; May 30.
Color reproductions, Making. A. R. Bourges. 2,349,900; May 30.
Comb mold. L. Mazzoni. 2,349,977; May 30.
Commutating means. K. L. Hansen. 2,349,864; May 30.
Composite metal parts, Method and apparatus for making. J. T. Marvin. 2,350,179; May 30.
Composition of matter and preparation and process for producing the same. I. Taussky. 2,350,082; May 30.
Compression testing device for thin materials. W. P. Montgomery. 2,350,060; May 30.
Compressional wave indicator. D. O. Sproule. 2,350,080; May 30.
Concentration recorder. J. Van den Akker. 2,350,001; May 30.
Concrete bucket. F. T. Crowe. 2,350,015; May 30.
Connection for teleprinters. E. Rossberg. 2,349,990; May 30.
Container: *See*—
Lipstick container. Merchandise container.
Container. H. E. Braloff. 2,350,214; May 30.
Container. H. E. Braloff. 2,350,271; May 30.
Container. W. S. Harris. 2,349,962; May 30.
Container closure. R. D. Patterson. 2,349,913; May 30.
Container seaming machine. W. L. Hawk, M. Paul, and L. W. Evans. 2,349,865; May 30.
Control system. J. W. Cooke. 2,350,150; May 30.
Coremaking machine. C. H. Shaffer. 2,350,253; May 30.
Corn harvester. E. Karlsson. 2,349,869; May 30.
Counter circuit. E. D. Cook. 2,349,810; May 30.
Coupling: *See*—
Tube coupling.
Coupling structure. C. J. Barry. 2,349,933; May 30.
Cover: *See*—
Utensil cover.
Cover for cooking ranges. L. J. Smallen. 2,350,074; May 30.
Cow teat medicator. M. H. Newell. 2,350,183; May 30.
Current-limiting and protective arrangement. A. B. Rypinski. 2,350,195; May 30.
Cutter: *See*—
Scrap cutter.
Cutting tool. E. Guetzkow. 2,349,959; May 30.
Cylinder head construction. E. Ginn, H. L. Casselman, and D. Campbell. 2,350,226; May 30.
Deflector and shield for ovens. C. Stanchfield. 2,350,293; May 30.
Delustering cellulose ester fabrics. O. B. Hager. 2,350,032; May 30.
Depth and taper gauge. A. Ogren. 2,349,879; May 30.
Depth of field indicator for cameras. D. L. Babcock and F. J. Frisby. 2,350,009; May 30.
Deseaming and desurfacing apparatus. J. H. Bucknam. 2,349,902; May 30.
Detector, Broken wire. S. Federico. 2,349,855; May 30.
Device for dowelling transverse joints of concrete road pavements. A. Musall. 2,349,983; May 30.
Device for handling incendiary bombs. F. J. Wyscaver. 2,350,207; May 30.
Device for indicating contaminations in oil circulation systems. W. Schrader. 2,349,992; May 30.
Device for installing and removing lamp tubes. L. B. Quick. 2,349,988; May 30.
Device for obtaining directional force from rotary motion. A. C. Nowlin. 2,350,248; May 30.
Device for tying thread ends in winding frames or other textile machines. S. Fürst. 2,349,953; May 30.
Dew point and dry bulb temperatures, Determining differences between. G. O. Hainer. 2,349,860; May 30.
Di(cyanamides) and their manufacture. H. Dreyfus. 2,349,851; May 30.
Dle. C. J. Welcome. 2,349,920; May 30.
Diffuser. Windshield glare. H. H. Himes. 2,350,166; May 30.
Disodium phosphate, Purifying. A. C. Ditzel. 2,349,943; May 30.
Domestic appliance. W. Smith, Jr. 2,350,078; May 30.
Door: *See*—
Grain car door. Metal door.
Door lock. C. S. Bock. 2,350,092; May 30.
Draft device. E. L. Rietz. 2,349,884; May 30.
Draft device, Implement. R. L. Anderson, C. R. Arnold, and L. A. Paradise. 2,349,923; May 30.
Drawer suspension. H. Hanes. 2,350,228; May 30.
Drinking fountain. J. E. Oys. 2,350,184; May 30.
Driveway switch. B. M. Overby, W. Swilley, and S. M. Overby. 2,350,063; May 30.
Dump vehicle and stabilizer construction. L. S. Wood. 2,350,141; May 30.
Dust collector. A. B. Osgood. 2,349,831; May 30.
Dust mop with attachable dust bag. F. Eisenhut. 2,350,221; May 30.
Dyeing apparatus. H. H. Raymond. 2,350,191; May 30.
Elastic fluid power plant. F. B. Schneider. 2,350,197; May 30.
Electric blasting cap. R. W. Lawrence. 2,350,172; May 30.
Electric dry-shaving apparatus having shearing head guard. V. and W. Kobler. 2,350,048; May 30.
Electric switch. E. F. Kalvin. 2,350,043; May 30.
Electrical conductor. C. S. Fuller and A. R. Kemp. 2,349,951; May 30.
Electrical conductor. C. S. Fuller. 2,349,952; May 30.
Electrical fixture. E. G. K. Anderson. 2,349,924; May 30.
Electrical rotor core. W. H. Brady. 2,350,012; May 30.
Electrical transmission of pictures and/or characters. H. Lübeck. 2,350,051; May 30.
Electrode assembly of electronic valves. B. Erber. 2,350,022; May 30.
Electron discharge device. J. W. West. 2,350,003; May 30.
Electroplating reel. F. Dürr. 2,349,946; May 30.
Engine: *See*—
Explosion and internal combustion engine. Internal combustion engine.
Engine starter. J. W. Fitz Gerald. 2,350,276; May 30.
Engine starter. J. W. Fitz Gerald. 2,350,304; May 30.
Epicyclic gear. C. A. H. Mulder. 2,349,981; May 30.
Exhaust stack control. P. R. Fairbanks. 2,350,102; May 30.
Expansible fluids from nonexpansible fluids, Means for separating. A. R. Burnette. 2,349,938; May 30.
Explosion and internal-combustion engine. H. L. Javal. 2,349,967; May 30.
Extractive distillation process. R. N. Shiras and M. Souders, Jr. 2,350,256; May 30.
Fabric fastener element. L. Roseman. 2,350,194; May 30.
Facsimile apparatus. M. Artzt. 2,350,008; May 30.
Fastener. J. Kral. 2,350,315; May 30.
Fastening device. W. Shippee and C. C. Shippee. 2,350,255; May 30.
Feed, By-product. W. R. Fetzer. 2,349,818; May 30.
Feeder: *See*—
Calf feeder.
Feeding mechanism for sewing machines. W. Kneissler. 2,350,314; May 30.
Feeding mechanism for wrapping machines. C. J. Malhiot. 2,350,244; May 30.
Ferrule construction for umbrella covers. S. I. Goldstein. 2,350,227; May 30.
Ferrule, Umbrella. J. Levin. 2,350,283; May 30.
File tray. C. F. Wolters. 2,350,266; May 30.
Filling carrier transferring mechanism. H. H. Burdett. 2,350,308; May 30.
Film apparatus. A. Cramwinckel and F. L. van Weenen. 2,349,941; May 30.
Filtering and filtering apparatus. H. R. Black. 2,350,011; May 30.
Filtering apparatus and method. C. E. Fraser. 2,350,160; May 30.
Firing angle indicator. H. J. Fanger. 2,350,103; May 30.
Floating swivel ring for nonskid chains. O. Bornemann. 2,349,935; May 30.
Focal plane shutter control. C. C. Fuerst. 2,350,026; May 30.
Folding chair. L. H. Burlin. 2,350,013; May 30.
Footplate for skis, snowshoes, and the like. J. H. Rinkinen. 2,350,130; May 30.
Forage drying method. F. S. Chilton. 2,350,096; May 30.
Forest fire extinguisher. L. W. Moore. 2,349,980; May 30.
Forming tool. O. C. Martin. 2,350,057; May 30.
Fractionation, Process and apparatus for controlling. A. S. Wolfner. 2,350,006; May 30.
Frequency modulation receiver. H. O. Peterson. 2,349,881; May 30.
Frequency modulation system. W. R. Koch. 2,349,870; May 30.
Fuel line, Safety. M. Dach. 2,350,302; May 30.
Fur cleaning apparatus. S. Friedman. 2,350,025; May 30.
Game. C. L. Hagan. 2,350,031; May 30.
Gas tube relay circuits. H. B. Deal. 2,349,849; May 30.
Gaseous developing apparatus. H. H. Steglich. 2,350,257; May 30.
Gauge: *See*—
Depth and taper gauge. Tank gauge.
Gear: *See*—
Epicyclic gear.
Generator: *See*—
Oscillation generator.
Reactance controlled generator.
Governor for heating devices, Air intake. R. Martin. 2,349,876; May 30.
Grain car door. M. I. Beaudine. 2,349,934; May 30.
Grinding and polishing machine. L. L. Hercik. 2,349,964; May 30.
Grinding machine. F. J. Horton. 2,350,234; May 30.

Guide rail for rolling doors. N. Michelman. 2,350,288; May 30.
Guiding unit for reproducing machines. F. C. Geibig. 2,349,954; May 30.
Guiding unit, Reproducing machine. F. B. Johnson. 2,349,955; May 30.
Gun mounting for airplanes. J. Martin. 2,350,122; May 30.
Gun, Powder. L. Mandiak. 2,349,875; May 30.
Gyroscope system. A. M. Fedde. 2,350,303; May 30.
Hair curling and wave device. H. C. Whittaker. 2,349,895; May 30.
Hair waving. H. Martin. 2,350,178; May 30.
Halogen methyl compounds of sulphonamides and sulphonhydrazides and a process of preparing them. L. Orthner, G. Balle, and H. Schild. 2,349,912; May 30.
Handbag, Lady's. R. Appel. 2,349,926; May 30.
Hand loom. R. C. Jones and W. B. Craft. 2,350,167; May 30.
Harrow. J. V. Dyrr. 2,349,852; May 30.
Harvester construction. B. M. Hyman. 2,349,905; May 30.
Head construction for dolls. A. M. Katz. 2,350,114; May 30.
Headlight attachment. M. R. Ebert. 2,349,853; May 30.
Heat control for arc welding. J. M. Tyrner. 2,349,891; May 30.
Heat-treating polymerization products. C. Zerbe. 2,350,007; May 30.
Heating appliance. M. Hurley. 2,349,965; May 30.
Helicopter. H. F. Pitcairn. 2,350,126; May 30.
Hitch device. C. G. Strandlund. 2,349,997; May 30.
Hoist. F. P. Lawler. 2,350,120; May 30.
Holder: *See*—
Artificial flower holder. Screen holder.
Blade holder. Shock resistant fluorescent lamp holder.
Plate holder.
Holder for deplating articles. R. R. La Motte. 2,349,908; May 30.
Holding device for food containers in refrigerating dispensing cabinets. C. I. Smith and T. J. Ball. 2,350,075; May 30.
Hollow glass article, Making. P. R. Luertzing. 2,350,052; May 30.
Hose clamp wrench. C. M. Selberg. 2,349,887; May 30.
Hydraulic motor. A. L. Parker. 2,350,066; May 30.
Hydraulic press control. P. C. Collins. 2,350,217; May 30.
Hydrocarbon conversion. H. O. Folkins and C. M. Thacker. 2,350,159; May 30.
Hydrocarbon oil, Treating. T. L. McNamara and L. M. Henderson. 2,350,176; May 30.
Hydrocarbons, alcohols and formaldehyde, Synthesis of. P. X. Spillane. 2,349,915; May 30.
Hydrocarbons, Catalytic conversion of. C. R. Wagner and C. M. Ridgway. 2,350,204; May 30.
Hydrocarbons, Treatment of. L. Schmerling and V. N. Ipatieff. 2,349,834; May 30.
Implement, Tractor-attached. B. M. Hyman. 2,349,906; May 30.
Indicator: *See*—
Compressional wave indicator. Firing angle indicator.
Indicator for airway sanitary cleaning systems, Spectular dust. D. B. Replogle. 2,349,832; May 30.
Indicator for typewriters and the like. F. W. Messchaert. 2,350,059; May 30.
Inductive core. J. P. Glass, Jr. 2,350,029; May 30.
Insecticide. C. C. Deonier and H. A. Jones. 2,349,814; May 30.
Internal-combustion engine. J. R. Eaton. 2,349,816; May 30.
Internal-combustion engine. M. Mallory. 2,350,056; May 30.
Internal combustion engine. H. V. Wilcoxson. 2,350,005; May 30.
Irrigating means. N. W. and D. S. Young. 2,350,086; May 30.
Joint construction. C. L. Methven. 2,349,910; May 30.
Joint for concrete pipes. E. Hering. 2,350,231; May 30.
Journal box lid. G. McCormick, L. N. Griffith, A. D. Williams, and S. and T. T. McCormick. 2,349,973; May 30.
Journal lubricator. F. W. Martin. 2,350,245; May 30.
Kelp, Drying. D. E. Clark, L. D. Pratt, S. A. Coleman, and H. C. Green. 2,350,209; May 30.
Kneader, Double acting. E. A. F. Presser. 2,350,299; May 30.
Ladder. H. W. Richards. 2,350,129; May 30.
Lamp sealing apparatus. R. M. Gardner. 2,349,822; May 30.
Lapping machine for wire-drawing dies. O. G. Ferrier. 2,350,023; May 30.
Lasting machine. F. C. Eastman. 2,349,815; May 30.
Latex and product thereof, Preserving. W. D. Stewart. 2,350,294; May 30.
Lathe. F. A. Quick. 2,350,190; May 30.
Leg extension appliance for ladders. R. T. Kimes. 2,350,116; May 30.
Lens hood. H. J. Hood. 2,350,110; May 30.
Lens, Photographic. M. J. Herzberger. 2,350,035; May 30.
Lens system. J. L. Houghton. 2,350,112; May 30.
Lens, Wide angle. W. Schade. 2,350,133; May 30.
Lipstick container. J. Lee. 2,349,799–800; May 30.
Liquids and gases or gaseous fluids, Separating. P. C. Dixon. 2,349,944; May 30.
Liquids, Clarification of. J. W. Hood. 2,350,111; May 30.
Liquor disposal, Waste pickle. E. C. Carlson and D. F. Sharp. 2,350,095; May 30.
Loading apparatus. H. W. Morgan. 2,350,181; May 30.
Lock: *See*—
Door lock.
Lock. R. C. Spain. 2,350,306; May 30.
Loom: *See*—
Hand loom.
Loom shuttle, Automatic. J. G. Allen. 2,350,307; May 30.
Loop antenna with iron core. F. Bergtold. 2,350,211; May 30.
Low-loss insulating material, Preparing. E. L. Dinning, Jr. 2,350,088; May 30.
Lubricant for chemical industries, and making the same, Heavy. A. B. Hale. 2,349,861; May 30.
Lubricating means. W. O. Bechman. 2,349,898; May 30.
Lubricator: *See*—
Journal lubricator.
Lunch box, Extensible. F. Giberson. 2,350,224; May 30.
Machine for making flexible tubes. H. Shellmer and E. J. Rennie. 2,350,070; May 30.
Machine for molding bricks. C. W. Watson. 2,350,298; May 30.
Machine for trimming the flash from rubber heels and the like. C. S. Knight. 2,350,238; May 30.
Machine tool. Hydraulically operated. P. G. Corin. 2,349,846; May 30.
Machinery guard. H. V. Newell. 2,350,247; May 30.
Magnesium, Manufacturing metallic. T. Arimori, Y. Konishi, J. Ishibashi and R. Yoshimura. 2,349,927; May 30.
Magnetic recording, Means and method of. J. B. Walker. 2,350,083; May 30.
Mailing card and envelope. J. H. Coakley, Jr. 2,350,149; May 30.
Mailing device. A. and H. Deutschmeister. 2,350,100; May 30.
Mains under pressure, Cutting. G. E. Steudel. 2,349,889; May 30.
Manikin, Pitcher. J. L. Vaughn. 2,349,892; May 30.
Manual automatic device for indicating the favorable periods for conception in women. M. D. dos Santos Brandão. 2,350,219; May 30.
Match book. L. D. Barros. 2,350,144; May 30.
Material breaking apparatus. F. C. Gedge. 2,350,223; May 30.
Material drying method. C. W. Gordon. 2,350,162; May 30.
Material loading and conveying. R. Peale and R. Peale, Jr. 2,349,914; May 30.
Material straightening apparatus. A. J. N. Duclos. 2,350,274; May 30.
Means for dispensing liquids from cans. C. E. Warfield. 2,350,205; May 30.
Measuring and control apparatus. T. R. Harrison. 2,349,963; May 30.
Measuring and indicating system. M. C. Tate. 2,350,261; May 30.
Mechanical adjuster. E. C. Deal. 2,350,155; May 30.
Mechanism to increase the efficiency of engines. J. H. Trahin. 2,350,203; May 30.
Members, Fitting of. O. L. Starr. 2,349,919; May 30.
Merchandise container. R. Guyer. 2,350,163; May 30.
Merchandise display and holding fixture. D. Garfinkle. 2,350,028; May 30.
Metal door. A. S. Kos, G. T. Gerlach and P. Altman. 2,349,907; May 30.
Metalworking machine. A. L. Parker. 2,350,065; May 30.
Metallic composition and abrading tool of said composition. J. T. Kelleher. 2,349,825; May 30.
Metallic gland. J. Mercier. 2,350,123; May 30.
Metallic salt dispersing and emulsifying agents, Obtaining detergent, wetting, foaming. J. P. A. Vallernaud. 2,350,000; May 30.
Metallo-organic compound and preparing some. G. H. Denison, Jr., and A. C. Ettling. 2,349,798; May 30.
Meter: *See*—
Volt-ampere meter.
Meter box. W. F. Dean and F. M. Brooks. 2,350,018; May 30.
Metering and conveying system. E. P. Drake, F. J. Alberty and W. H. Kaglan. 2,350,020; May 30.
Methyl pyridines suitable for conversion into nicotine derivatives, Preparing. P. J. Wilson, Jr., and J. H. Wells. 2,349,896; May 30.
Micrometer. H. V. Alexandersson and C.-E. Granqvist. 2,349,838; May 30.
Microphone. F. C. Beekley. 2,350,010; May 30.
Mineral wool batts, Making. V. E. Meharg. 2,349,909; May 30.
Mixer, Concrete. G. Maxon, Jr. 2,350,285; May 30.
Mixing tank for carbonated beverages. J. Kantor. 2,350,044; May 30.
Moisture absorbing device. A. L. Feldman. 2,349,856; May 30.

Mold: *See*—
Comb mold.
Molding apparatus. S. Rincón. 2,350,291; May 30.
Molding pattern. M. Bean. 2,349,806; May 30.
Molding press. T. P. Tapper. 2,349,805; May 30.
Motor: *See*—
Hydraulic motor.
Motor fuel composition. W. J. Backoff, N. D. Williams, J. F. O'Loughlin, H. L. Moir and J. S. Yule. 2,350,145; May 30.
Moving two elements, Method and apparatus for relatively. A. G. Bodine, Jr. 2,350,212; May 30.
Multicolor printing. W. G. Fitz. 2,349,819; May 30.
Multiple unit apparatus. L. O. Reichelt. 2,349,882; May 30.
Necktie device. A. J. Flumedoro. 2,350,104; May 30.
Nonaqueous drilling fluid. R. D. Dawson and C. F. Blankenhorn. 2,350,154; May 30.
Nondiffusing acylacetyl sulphonamide coupler. A. Weissberger. 2,350,138; May 30.
Operation check for molding machines. W. Strauss. 2,350,319; May 30.
Optical focusing system. J. Dahl. 2,350,151; May 30.
Optical objective. A. Warmisham and C. G. Wynne. 2,349,893; May 30.
Optical testing or measuring apparatus. R. E. Reason. 2,349,989; May 30.
Oscillating sander. A. G. Decker. 2,350,098; May 30.
Oscillation generator. W. V. B. Roberts. 2,349,885; May 30.
Oscillograph sweep circuit. H. J. Schrader and R. D. Scheldorf. 2,350,069; May 30.
Oven heat control, Adjusting means for. V. Weber. 2,350,137; May 30.
Panoramic camera. F. G. Back. 2,349,931; May 30.
Parachute. J. H. Robinson. 2,349,833; May 30.
Peel or arm for furnace charging boxes, Charging. J. W. Forsythe and A. T. Reichenbach. 2,349,854; May 30.
Permanent magnet material. O. J. Finch and J. H. White. 2,349,857; May 30.
Phase modulation recording and reproducing system. W. V. B. Roberts. 2,349,886; May 30.
Photographic apparatus. G. Kende and S. Johanson. 2,350,237; May 30.
Photographic developers containing acylamino groups. W. T. Hanson, Jr. 2,350,109; May 30.
Photographic layers containing dyestuffs. B. Beilenson. 2,350,090; May 30.
Photographic tracing cloth. G. F. Nadeau and C. B. Starck. 2,350,124; May 30.
Pilot for airplanes, Automatic. E. H. Francis. 2,350,024; May 30.
Pinene and formaldehyde and the product obtained, Reacting. M. T. Harvey. 2,350,230; May 30.
Pipe wrench. C. D. Stiteler. 2,350,259; May 30.
Piston. O. L. Starr. 2,349,917; May 30.
Piston construction. O. L. Starr. 2,349,918; May 30.
Piston expander. R. W. Paton. 2,350,064; May 30.
Piston expander. J. Sunnen. 2,349,890; May 30.
Piston ring assembly. A. P. Fall. 2,349,903; May 30.
Pivot means for firearm elements. T. R. Robinson, Jr. 2,350,131; May 30.
Plate holder. H. P. Dermond. 2,350,099; May 30.
Plow of the sweep type. G. W. Lee. 2,350,049; May 30.
Pneumatic tool assembly. H. Grobe. 2,349,958; May 30.
Polycarboxylic acid salts in lube oil compounding. B. B. Farrington, J. O. Clayton and D. H. Etzler. 2,349,817; May 30.
Polymerization or polycondensation product and producing the same. O. Moldenhauer and H. Bock. 2,349,979; May 30.
Portable support. E. H. Hurley. 2,350,113; May 30.
Power press. T. F. Stacy, 2,349,916; May 30.
Power transmission means. J. R. Orelind. 2,349,880; May 30.
Precision instrument. E. C. Horton and A. Rappl. 2,350,040; May 30.
Press: *See*—
Molding press. Power press.
Pressing machine mechanism and locking means. E. Davis. 2,350,153; May 30.
Pressure regulator. K. W. Westlund. 2,349,922; May 30.
Printing and viewing arrangement, Combined. F. Urbach. 2,349,999; May 30.
Printing machine. F. E. Curtis. 2,350,016; May 30.
Processing yarn. G. M. Karns. 2,350,168; May 30.
Pulsating device and honing. J. E. Kline. 2,350,117; May 30.
Pumping and separating apparatus, Gas and liquid. P. S. Morgan. 2,350,061; May 30.
Punch and die mechanism for forming knockouts. L. V. and S. A. Whistler. 2,350,004; May 30.
Pyrimidine compounds. R. R. Williams and J. K. Cline. 2,350,263–5; May 30.
Radiator, Hollow space. W. Dällenbach. 2,349,942; May 30.
Radio range. D. G. C. Luck. 2,350,284; May 30.
Reactance controlled generator. H. C. Lawrence. 2,350,171; May 30.
Reactance tube modulation. M. G. Crosby. 2,349,811; May 30.
Receptacle closure. J. N. Page. 2,349,985; May 30.
Reception of frequency modulated waves. O. Irslinger. 2,349,966; May 30.
Reel: *See*—
Electroplating reel.
Refacing and reseating tool. E. W. Elliott and O. O. Rothe. 2,349,948; May 30.
Refrigeration. R. C. Osborn. 2,350,249; May 30.
Refrigerating apparatus. C. S. Cody. 2,349,845; May 30.
Refrigerating system. A. Katzow. 2,350,115; May 30.
Regulator: *See*—
Pressure regulator.
Reinforcement and molded article containing the same. F. H. Mackenzie. 2,349,975; May 30.
Reinforcing for brake blocks. C. Hollerith. 2,350,039; May 30.
Relative motion rotative mechanism. R. B. Davids. 2,349,848; May 30.
Release for window regulators, Emergency. R. H. Dean, F. A. Cooley and H. L. Kegler. 2,350,156. May 30.
Resilient suspension for vibrating screens and the like. H. L. Strube. 2,350,201; May 30.
Retaining device. C. L. Hall. 2,350,311; May 30.
Rite-light way. H. Meyer and E. M. Spiegel. 2,350,316; May 30.
Riveting tool. P. Van Sittert and L. G. Speth. 2,350,002; May 30.
Rock drill rotation mechanism. E. B. Lear. 2,349,971; May 30.
Rod: *See*—
Welding rod.
Roller bearing. J. D. Spalding. 2,350,079; May 30.
Roller bearing separator. E. H. Irasek. 2,349,824; May 30.
Roller shade. L. A. Yashan. 2,350,085; May 30.
Rolling door construction. N. Michelman. 2,350,286; May 30.
Roof covering, Sectional. A. M. Zimmers. 2,350,142; May 30.
Rotary oven. W. A. Roberts and W. Spiegel. 2,350,067; May 30.
Rotor construction. F. Breckenridge. 2,349,901; May 30.
Rotor for use in conjunction with disintegrating equipment, Disintegrator. J. A. Hall. 2,349,960; May 30.
Safety device. R. W. Burt. 2,350,014; May 30.
Safety leg portion for trousers or similar garments. T. B. McMasters. 2,349,974; May 30.
Sanitizing device. R. W. Bergman. 2,350,091; May 30.
Scale, Focus drawing. H. Scheller. 2,350,068; May 30.
Scrap cutter. F. M. Littell. 2,349,874. May 30.
Scraper. J. A. Disse. 2,350,157; May 30.
Scratch bit. J. F. McQuillan, Sr. 2,350,055; May 30.
Screen holder. W. J. Starr. 2,350,200; May 30.
Screen: *See*—
Window screen.
Seam structure for flexible ventilating tubing. W. H. Evans. 2,350,158; May 30.
Sediment test record card. M. Kohn. 2,350,239; May 30.
Separator: *See*—
Centrifugal separator. Roller bearing separator.
Servomotor. K. T. Sorensen. 2,349,804; May 30.
Sewing machine for corner stitching. S. Zonis. 2,350,267; May 30.
Sextant. F. and H. A. Leister. 2,350,240; May 30.
Shade, Sun. L. A. Vesta. 2,350,297; May 30.
Sheet materials, Method and apparatus for testing the porosity of. R. W. May. 2,350,058; May 30.
Shield, Bearing. A. Behringer. 2,350,089; May 30.
Shield, Window rain. A. E. J. Tietze. 2,350,296; May 30.
Shock-absorbing strut. L. W. Greve. 2,349,957; May 30.
Shock resistant fluorescent lamp holder. E. Fuchs. 2,350,105; May 30.
Shoe construction. V. M. Heck. 2,349,866; May 30.
Shoe filler composition and making. E. D. Sackett. 2,350,252; May 30.
Shoe parts, Reinforcing. T. C. Morris. 2,349,877; May 30.
Shoes, Manufacturing. B. J. Slavin. 2,350,198; May 30.
Shutter release mechanism. C. C. Fuerst. 2,350,106; May 30.
Side bearing. R. B. Cottrell. 2,350,301; May 30.
Signal device. R. M. Miller. 2,350,289; May 30.
Signal system using phase modulation. W. P. Place. 2,349,987; May 30.
Sinks, Forming. E. H. Kotcher. 2,350,119; May 30.
Skin clamp. E. L. Lipp. 2,349,872; May 30.
Skiving machine. P. H. Dixon. 2,349,850; May 30.
Slat construction for rolling doors. N. Michelman. 2,350,287; May 30.
Sled pushing and pulling means. E. Hodaly. 2,350,036; May 30.
Solutions of copper mercaptides from terpenes. A. L. Fox. 2,349,820; May 30.
Soot blower control. W. P. Thomas. 2,350,202; May 30.
Sound recording system. C. M. Sinnett. 2,349,888; May 30.
Spanner for electrified fencing. S. A. Moore. 2,350,290; May 30.

Spindle. L. D. Cobb. 2,350,272; May 30.
Spinning, Method and apparatus for. A. Formhals. 2,349,950; May 30.
Split housing plug valve. M. G. Miller. 2,349,978; May 30.
Spreader for fertilizer, seeds, and the like. E. S. Gandrud. 2,350,107; May 30.
Stall warming device for airplanes. C. Murray-Waller. 2,349,982; May 30.
Stamp for decorating nonplanar surfaces. H. C. Hebenstreit. 2,350,033; May 30.
Starling scaring device. J. C. Pfeiffer. 2,350,187; May 30.
Starter. R. M. Heintz. 2,349,867; May 30.
Strain gauge and making same. E. E. Simmons, Jr. 2,350,073; May 30.
Stropping device for safety razor blades. C. W. G. Little. 2,350,241; May 30.
Structural shapes, Method and apparatus for bending. D. Kelleher. 2,350,046; May 30.
Sugar refining process. C. D. and P. R. Barber. 2,350,143; May 30.
Sulphonic acid chlorides of couplers, Forming. H. D. Porter and A. Weissberger. 2,350,127; May 30.
Support: *See*—
Portable support.
Surface grinder and automatic control means therefor. J. A. Harrington. 2,350,229; May 30.
Switch: *See*—
Driveway switch. Electric switch.
Switch and controlling circuits. H. L. Lambert. 2,349,871; May 30.
Switching mechanism. G. E. Atkins. 2,349,929; May 30.
Synchronizer unit and equipment, Photoflash. O. Steiner. 2,350,258; May 30.
System for directive radiation of electromagnetic waves. H. Matsudaira. 2,349,976; May 30.
Tank gauge. E. E. Jurs and J. J. Denham. 2,350,042; May 30.
Tape-serving mechanism. A. P. Krueger and M. J. West. 2,350,281; May 30.
Telegraph system. A. G. Miller. 2,350,180; May 30.
Telegraphic auction system. C. A. Borgeson. 2,350,146; May 30.
Telephone measuring system. H. I. MacKen. 2,350,177; May 30.
Telephone system, Auxiliary. C. S. Rhoads. 2,350,193; May 30.
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Textile drafting mechanism. B. C. Shaw. 2,350,254; May 30.
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Toggle clamp. J. A. Herrington. 2,350,034; May 30.
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Torque reaction device. E. E. Wemp. 2,349,921; May 30.
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Track for vehicles. K. D. Smith and R. Mayne. 2,350,076; May 30.
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Tube flaring tool. R. D. McIntosh. 2,350,054; May 30.
Tubing, rods, wires, and the like, Method of and apparatus for bending and forming. V. W. Moray. 2,349,828; May 30.
Uncoiling device. J. Lisy. 2,349,873; May 30.
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Water column. W. F. A. Benger. 2,349,808; May 30.
Water softener. E. A. Kathe. 2,350,045; May 30.
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Window shade attachment. W. Johnson. 2,350,235; May 30.
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Window shade, Ventilating black-out. R. R. Butts. 2,350,094; May 30.
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Wood impregnation. A. J. Stamm. 2,350,135; May 30.
Wood spring. S. F. Apicella. 2,349,839; May 30.
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X-ray tube. Z. J. Atlee. 2,350,269; May 30.
Yarn production. W. E. Neff. 2,350,182; May 30.

CLASSIFICATION OF PATENTS

ISSUED MAY 30, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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F. P. E.

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[Decisions of U. S. Court of Customs and Patent Appeals are indicated by a star (*); and of the Supreme Court of the United States by the letter (°); and of the U. S. Court of Appeals for the District of Columbia by the letter (▪).]

IMPORTANT NOTICE

A CORRECTED PRINT of Title-page and Contents to Official Gazette of the United States Patent Office Volume 563, June 1944 was recently mailed. There were several deletions in the corrected print and it may be distinguished from the first print by the following:

Under "TABLE OF CASES REPORTED" the first item is

*Barr, In re

Superintendent of Documents

Patents Nos. 2,350,320 to 2,350,976

THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 563—No. 1 TUESDAY, JUNE 6, 1944 Price—$16 per year

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PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

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June 6, 1944

Trade-Marks	179	No. 407,392 to No. 407,570, inclusive.
T. M. Renewals	90	
Reissues	1	No. 22,491
Plant Patents	2	No. 628 to No. 629, inclusive.
Patents	657	No. 2,350,320 to No. 2,350,976, inclusive.
Designs	50	No. 138,010 to No. 138,059, inclusive.
Total	979	

Adjudicated Patents

(C. C. A. Ill.) Elting design patent, No. 118,968, for a lamp arm, *Held* invalid. *Allegheny Steel & Brass Corporation* v. *Elting*, 141 F.(2d) 148.

(D. C. N. Y.) Danziger patent, No. 1,940,847, for apparatus for winding coil condensers, claims 1 to 3 and 9 to 12, *Held* valid and infringed. *Condenser Corporation of America* v. *Micamold Radio Corporation*, 54 F. Supp. 327.

(C. C. A. Ill.) Elting patent, No. 2,278,433, for a lamp fixture, *Held* invalid and not infringed. *Allegheny Steel & Brass Corporation* v. *Elting*, 141 F.(2d) 148.

(C. C. A. N. Y.) Walsh patent, No. 2,280,360, for a garment, *Held* invalid. *Gerald M. Friend, Inc.* v. *Walsh*, 141 F.(2d) 180.

Disclaimers

2,209,292.—*John H. Berger*, White Plains, N. Y. Abrasive and Process of Producing Same. Patent dated July 23, 1940. Disclaimer filed May 5, 1944, by the assignee, *American Cyanamid Company*.

Hereby enters this disclaimer to that part of claim 1 which covers any material except those which are prepared by mixing an aminotriazine-aldehyde condensation product with abrasive grit which has been previously wet with a solvent for said condensation product.

2,252,985.—*John T. Rutherford* and *Robert J. Miller*, Berkeley, Calif. Compounded Oil. Patent dated August 19, 1941. Disclaimer filed May 10, 1944, by the assignee, *Standard Oil Company of California*.

Hereby enters this disclaimer to claims 1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 18, and 24 of said patent.

2,296,370.—*Ober C. Slotterbeck*, Clark Township, Union County, N. J. Alkylation Process. Patent dated September 22, 1942. Disclaimer filed May 9, 1944, by the assignee, *Standard Oil Development Company*.

Hereby enters this disclaimer to claims 1, 5, 6, and 9 of said patent.

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., May 6, 1944.*

Paul P. Russo, his assigns or legal representatives take notice:

A petition for cancellation having been filed in this Office by Sadie Dashut, 1462 Irving Street, Denver, Colorado, to effect the cancellation of trade-mark registration of Paul P. Russo, 103 East 125th Street, New York, N. Y., No. 301,462, dated February 28, 1933, and the notice of such proceeding sent by registered mail to said Russo at the said address and reforwarded to him in care of Dr. Edward L. Corbett, 217 Broadway, New York, N. Y., having been returned by the post office as undeliverable, notice is hereby given that unless said Russo, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Erratum

Page 18 of the Official Gazette of May 2, 1944, second column, line 20, publication of trade-marks, for "Ser. No. 467,770. Richards, Boggs & King, Inc., Chi-" read Ser. No. 468,089. Ed. Phillips & Sons Company, Min-.

Condition of Applications Under Examination at Close of Business May 20, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 45,634; Trade-Mark Division, 1,404. Oldest new case, June 2, 1943; oldest amended, July 2, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	†Jan. 4	Dec. 10	415
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Nov. 9	Oct. 16	584
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Oct. 28	Oct. 8	979
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 12	Oct. 11	480
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 20	Sept. 20	1,080
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 7	Nov. 2	1,163
7. JARBOE, C. G., Optics, Photography	†Jan. 3	†Jan. 5	735
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	†Jan. 7	Nov. 4	495
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Dec. 1	Dec. 2	703
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Jan. 15	Dec. 27	254
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Sept. 20	Sept. 3	1,028
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Dec. 11	Dec. 3	559
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Jan. 1	†Jan. 10	649
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Dec. 13	Dec. 29	767
16. SPENCER, C. J., Telegraphy; Telephony	Dec. 18	Dec. 22	577
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 24	Sept. 14	529
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	June 19	July 2	874
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Nov. 25	Dec. 3	535
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	†Jan. 1	Dec. 24	372
21. THOMPSON, T. J., Textiles	Dec. 17	Nov. 1	416
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Oct. 1	Oct. 1	1,121
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 19	July 20	175
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 1	Dec. 1	534
26. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Nov. 9	Nov. 17	739
28. YOUNG, R. R., Electricity—Generation and Motive Power	Aug. 24	Aug. 20	929
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 16	Sept. 9	474
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Sept. 11	Sept. 1	705
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 3	Dec. 4	703
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Sept. 4	Sept. 3	1,047
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 9	Dec. 11	1,068
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 11	Nov. 13	612
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Dec. 29	†Jan. 4	628
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	†Jan. 3	†Jan. 7	537
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	†Jan. 5	Dec. 30	499
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 10	†Jan. 12	414
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 23	Aug. 10	718
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Sept. 17	Sept. 29	489
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 3	Dec. 13	662
40. DRUMMOND, E. J., Receptacles (part); Packages	†Jan. 1	†Jan. 3	605
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 9	Sept. 9	426
42. MARANS, H., Electric Signaling	†Jan. 13	†Jan. 14	342
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing, Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Oct. 25	Oct. 16	758
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 1	Sept. 25	419
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 10	Nov. 9	1,021
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Oct. 27	Oct. 23	496
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	†Jan. 27	Dec. 9	618
48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Oct. 16	Nov. 1	805
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 1	Nov. 12	664
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Nov. 11	Nov. 11	1,403
51. CROCKER, A. W., Radiant Energy, Multiplex Telephony, Modulators	Oct. 14	Oct. 15	1,344
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Oct. 15	Sept. 2	745
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures. Partitions and Panels, Flexible and Portable.	Oct. 25	Oct. 20	433
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 30	July 3	777
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Aug. 21	Oct. 4	643
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Nov. 8	Nov. 3	770
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 2	Sept. 30	751
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 26	Nov. 30	657
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 24	Sept. 17	1,324
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants	Sept. 15	Sept. 15	768
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	†Jan. 0	Nov. 19	461
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Dec. 30	Dec. 7	804
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 15	Sept. 11	908
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 27	Dec. 29	1,053
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Aug. 4	Aug. 4	871
Trade-Marks: RICHMOND, F. A	†Mar. 24	†Apr. 6	1,404
Designs: KALUPY, H. H	†Apr. 6	†Apr. 27	530

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE HASS ET AL.

No. 4,820. Decided February 7, 1944

[141 F.(2d) 127]

1. PATENTABILITY — INVENTION — ISOMERS AND HOMOLOGUES.

"Whether novel chemical compounds are patentable over prior art isomers and homologues, is a question to be determined in each case."

2. SAME—SAME.

"Counsel for appellants challenges the correctness of our decision in the case of *In re Rudolph Wietzel and Wilhelm Michael*, 17 C. C. P. A. (Patents) 1079, 39 F.(2d) 669, 400 O. G. 463 * * * In our decision in that case, we approved the Board's holding that as there was no real reason to suppose that the desired results would not be obtained by carrying out the process suggested by the references of record, there was no invention in carrying out such process and finding it to be successful. We adhere to the views there expressed. See *In re Von Bramer et al.*, 29 C. C. P. A. (Patents) 1018, 1023, 127 F.(2d) 149, 542 O. G. 183."

3. SAME—NITROOLEFINS.

In appellants' application relating to nitroolefins, generic claim 1 and specific claim 4 *Held* unpatentable over the prior art, and claims 2 and 3, drawn to non-elected species, *Held* properly rejected in the absence of an allowable generic claim.

APPEAL from the Patent Office. Affirmed.

Mr. Henry C. Parker (*Mr. John Boyle, Jr.*, of counsel) for Hass et al.

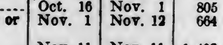
Mr. W. W. Cochran for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 1 to 4, inclusive) in appellants' application for a patent for an alleged invention relating to new and useful nitroolefins.

The claims read:

1. A nitroolefin having the general formula:



wherein R is a member of the group consisting of hydrogen, aryl, and alkyl, and R^1 is an alkyl group having in excess of one carbon atom.

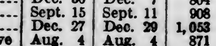
2. 2-Nitro-2-pentene.
3. 3-Nitro-2-hexene.
4. 1-Phenyl-2-nitro-1-butene.

The references cited in the record and relied upon by the Primary Examiner are:

Beilstein's "Handbuch", 4th ed. (1918), vol. I, page 213;
Beilstein's "Handbuch", 4th ed. (vol. V, page 483);
Knoevenagel et al., "Ber. Deutsch. Chem. Ges.", vol. 37, page 4507 (1904);
Priebs, "Liebig's Annalen", vol. 225, pages 321–324, 353–354 (1884).

Claim 1 is generic and covers the compounds of claims 2, 3, and 4.

The formula for claim 1 is:

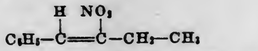


wherein R, as stated in the claim, represents hydrogen, aryl, or alkyl, and R^1 represents an alkyl group having more than one carbon atom.

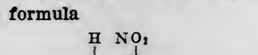
Claims 2 and 3 were rejected by the tribunals of the Patent Office as not reading on the elected species covered by claim 4, no generic claim having been allowed.

The Primary Examiner rejected claim 1 on each of the references of record, and claim 4 on Beilstein's "Handbuch," vol. V, Knoevenagel et al., and Priebs.

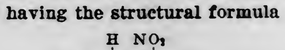
It is agreed by counsel that the structural formula for the compound of claim 4 (1-phenyl-2-nitro-1-butene) is:



The Priebs reference discloses the compound phenyl nitroethylene, referred to by the Primary Examiner as "1-phenyl-2-nitro-1-ethene," having the structural formula



and the compound phenyl nitropropylene, referred to by the Primary Examiner as "1-phenyl-2-nitro-1-propene," having the structural formula



In connection with the Priebs reference, the Primary Examiner said:

If the formulae of Priebs' products are compared with that of the product of claim 4, and if all these products are named according to the same system of nomenclature, it becomes apparent that the claimed product [the product of claim 4] is the next higher homologue to the two products of Priebs: * * *

The Examiner further stated that—

* * * The product of claim 4 would seem to be similar in chemical behavior to the two lower homologues known to the prior art. The fact that the claimed product is novel is not in itself believed to indicate patentability over the next adjacent lower homologues. Applicants have not demonstrated that the product has any unexpected, unobvious property or utility.

The generic claim, claim 1, reads on the species of claim 4, and is rejected on the same grounds as claim 4.

* * * * * * *

Applicants' position appears to be that the claimed products are patentable simply because they are novel, that novelty in itself indicates invention in the discovery. The Examiner's position is that where the next adjacent homologues of the claimed compounds, and isomers thereof, are known, and there is no evidence that the claimed compounds behave differently from the known compounds or have any utility or properties which would be unobvious from a knowledge of the utility and properties of the claimed [known] compounds, the claims are unpatentable, cf. *In re Wietzel and Michael*, 400 O. G. 463. Applicants' theory, if carried to its logical conclusion, would permit a patent for each of the tens of thousands of isomers and homologues of known compounds, merely because they had been produced for the first time, even if no invention were exhibited in their preparation. The patent statutes are not believed to contemplate such a result.

The Examiner also stated that the Knoevenagel et al. reference disclosed a compound identical with the compound phenyl nitropropylene, disclosed in the Priebs reference as appears from Beilstein's "Handbuch" vol. V, page 483; that appellants' method of producing the compound of claim 4 was similar to the method disclosed in the Knoevenagel

et al. reference; that additional methods were disclosed for making the identical product in Beilstein's "Handbuch" vol. V reference; and that the reference Beilstein's "Handbuch" vol. I disclosed an isomer of the compound 3-nitro-2-pentene, the species claimed in claim 2.

Subsequent to the Examiner's statement to the Board of Appeals, counsel for appellants filed an affidavit of Henry B. Hass, one of the joint applicants, wherein it was stated, in substance, that the disclosure in the reference Beilstein's "Handbuch" vol. I, page 213, was based on an article of one Haitinger in Monatshefte für Chemie, 2, 290 (1881); that affiant obtained a copy of the original Haitinger article; and that the article failed in many important particulars to supply information which would enable affiant or anyone skilled in organic chemistry to produce the compound 2-methyl-3-nitro-2-butene, disclosed in the reference Beilstein's "Handbuch" vol. I, which the Primary Examiner held was isomeric with the compound 3-nitro-2-pentene of claim 2. Affiant further stated, however, that under his direction one H. W. Jacobson, a skilled organic chemist, prepared the compound 2-methyl-3-nitro-2-butene by another method.

In its decision affirming the decision of the Primary Examiner, the Board of Appeals said that the compounds disclosed in the Priebs reference were the "next lower homologues to the claimed product as pointed out by him. Furthermore, the claimed product is made by a method similar to that of Knoevenagel." The Board further said:

> In the present instance the prior art concededly discloses closely related homologues to the specific product mentioned in claim 4. The Examiner takes the ground in view of Wietzel and Michael [*In re Rudolph Wirtzel and Wilhelm Michael*, 17 C. C. P. A. (Patents) 1079, 39 F.(2d) 669], that claims involving products so closely related should not be allowed merely on the theory that they are new products. Concededly, appellants' products are closely related and produced by similar methods to those defined in the prior art. Furthermore, appellants have not discussed any unexpected or unobvious property or utility of their product.

Although counsel for appellants here concedes that the Priebs reference discloses the compounds hereinbefore referred to, which the tribunals of the Patent Office held were homologous to the compound 1-phenyl-2-nitro-1-butene of claim 4, and also concedes that the compound 1-phenyl-2-nitro-1-propene, disclosed in the Priebs reference, is homologous to the compound claimed in claim 4, it is argued by counsel that the other compound disclosed by Priebs (1-phenyl-2-nitro-1-ethene) is not homologous to the compound covered by claim 4.

Apparently no such argument was made before the tribunals of the Patent Office, and, although an affidavit was filed by one of the joint applicants (Henry B. Hass) for the purpose of establishing that Beilstein's "Handbuch" vol. I was not a proper reference for the claims on appeal, no claim is made in that affidavit, nor is there anything else of record to indicate that the Primary Examiner was wrong in holding that the compound of claim 4 was the next higher homologue to the two compounds disclosed in the Priebs reference.

It is also contended hereby counsel for appellants that all "novel chemical compounds are in general patentable over their isomers and homologues," and that appellants ought not to be required, in order to sustain the patentability of the claims here on appeal, to establish that the compounds covered by those claims possess some unexpected or unobvious property or utility not possessed by the homologous compounds disclosed in the prior art—Priebs. That issue is disposed of in the case of *In re Henry B. Hass* and *Alfred G. Susie* (Patent Appeal No. 4819), 31 C. C. P. A. (Patents) —, 141 F.(2d) 122 (a companion appeal, decided concurrently herewith), contrary to the views urged upon us here by counsel for appellants. For the reasons stated in our decision in that case, we are of opinion that the tribunals of the Patent Office were right in holding that, in order to be patentable, novel members of a homologous series of compounds must possess some unobvious or unexpected beneficial properties not possessed by homologous compounds disclosed in the prior art.

[1] Whether novel chemical compounds are patentable over prior art isomers and homologues, is a question to be determined in each case.

It is not contended here by counsel for appellants that the homologous compounds disclosed in the Priebs reference would not suggest to one skilled in the art the compound of claim 4, or that that compound has any unexpected or unobvious properties not known to be possessed by the prior art compounds. On the contrary, it is the contention of counsel for appellants that novelty alone is sufficient to lend patentability to the claims on appeal.

It is elementary that novelty alone is not sufficient to impart patentability to a claim. Invention must be present. See *Thompson* v. *Boisselier*, 114 U. S. 1, 31 O. G. 377; *In re Lincoln et al.*, 29 C. C. P. A. (Patents) 942, 126 F.(2d) 477, 53 U. S. P. Q. 40, 541 O. G. 668; *Cuno Engineering Corp.* v. *Automatic Devices Corp.*, 314 U. S. 84, 51 U. S. P. Q. 272, 534 O. G. 699.

[2] Counsel for appellants challenges the correctness of our decision in the case of *In re Rudolph Wietzel and Wilhelm Michael*, 17 C. C. P. A. (Patents) 1079, 39 F.(2d) 669, 400 O. G. 463, which was cited and relied upon by each of the tribunals of the Patent Office in the instant case.

In the *Wietzel* and *Michael* case, supra, certain process claims, relating to the manufacture of formamid and hydrocyanic acid, were involved. The claims were rejected on prior art.

In that case, counsel for appellants argued in this court that the decision of the Board of Appeals was based on either presumptions or assumptions.

In reply to that argument, we said:

> • • • It is true that, in referring to the authorities cited as references, the Board said:
>
> We consider these disclosures sufficient to raise a presumption at least that the reactions disclosed would apply to formamid and to hydrocyanic acid as the nitrile of formic acid.

> However, the meaning and purpose of this observation is made clear by the language immediately following:
>
> And, where there is no real reason to suppose that the result would not be produced, there is no invention in trying it and finding out that the process is successful.

In our decision in that case, we approved the Board's holding that as there was no real reason to suppose that the desired results would not be obtained by carrying out the process suggested by the references of record, there was no invention in carrying out such process and finding it to be successful. We adhere to the views there expressed. See *In re Von Bramer et al.*, 29 C. C. P. A. (Patents) 1018, 1023, 127 F.(2d) 149, 542 O. G. 183.

[3] For the reasons stated, we are of opinion that claim 4 is not patentable over the references of record, and, as the compound of claim 4 is covered by the generic claim (claim 1), claim 1 is also unpatentable. No generic claim having been allowed, and as claims 2 and 3 do not read on the elected species, they were properly rejected.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE SUSSMAN

No. 4,830. Decided February 7, 1944

[141 F.(2d) 267]

1. APPEAL—EFFECT OF GENERAL AFFIRMANCE BELOW.
   Where claims 3, 4, 9, 12, 13, 30, 31, and 32 of appellant's application were rejected by the Examiner as unpatentable over the prior art, and claims 3, 4, and 9 additionally were rejected as inoperatively broad, and the Board of Appeals affirmed the decision of the Examiner, though it did not specifically discuss the additional ground of rejection, *Held* that the affirmance, "in legal effect, was an affirmance of this additional ground of rejection."

2. SAME—REASONS OF APPEAL.
   "Appellant, in his reasons of appeal, assigned no error in regard to this additional ground of rejection, and therefore the decision rejecting said claims 3, 4, and 9 will be affirmed. *In re Rothenberg et al.*, 29 C. C. P. A. (Patents) 1230, 129 F.(2d) 706, 544 O. G. 681."

3. PATENTABILITY—CLAIMS—FUNCTIONAL LIMITATION.
   Where the only difference between the process claimed in claims 30, 31, and 32 of appellant's application and the prior art was the recital of the product produced *Held* that said claims properly were rejected.

4. SAME—PREPARATION OF (METHOXY METHOXY) ETHANOL.
   In claim 12 of appellant's application, drawn to a process for the preparation of (methoxy methoxy) ethanol by reacting methylal with ethylene glycol in the presence of a sulfuric acid catalyst, and reciting that the catalyst is neutralized "after equilibrium has been substantially established," the quoted phrase *Held* "so vague and indefinite that it may not be resorted to for the purpose of distinguishing the process • • • claimed from the process disclosed in the • • • prior art."

5. SAME—SAME.
   The specific period of reaction recited in claim 13 of appellant's application *Held* to render said claim patentable.

6. SAME—CRITICALNESS.
   "It is well established that if the employment of a step results in the production of a product different in kind from the processes of the prior art, the step is broadly critical."

APPEAL from the Patent Office. Modified.

Mr. F. T. Flaherty (*Mr. C. H. Biesterfeld* and *Mr. Allan R. Plumley* of counsel) for Sussman.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This in an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 3, 4, 5, 9, 12, 13, 14, 15, 17, 18, 23, 25, 26, 27, 28, and 30 to 38, inclusive.

Appellant's brief states:

> This is an appeal from the decision of the Board of Appeals of the United States Patent Office dated August 6, 1942, and September 15, 1942, affirming the Examiner's rejection of claims 3, 4, 9, 12, 13, 30, 31, and 32 in the application of Sidney Sussman filed August 5, 1939, Serial No. 288,587, for "Preparation of Formals" and denying appellant's petition in respect to any change in the decision respectively.
>
> The claims not listed are not before the court, claims 5, 14, 15, 17, 18, 23, 25, 26, 27, 28, 35 and 38 being directed to non-elected species, and claims 33, 34, 36, and 37 being withdrawn from appeal to simplify the issues.

Therefore the only claims to be considered by us are Nos. 3, 4, 9, 12, 13, 30, 31, and 32.

Claims 3, 12, 30, and 31 are illustrative of the claims before us and read as follows:

> 3. A process for the preparation of an unsymmetrical acetal which comprises heating an acetal with a dihydric alcohol in accord with the following equation:
>
> $$ROCHOR + HOC_nH_{2n}OH \longrightarrow \underset{R_1}{ROCHOR} + ROCHR'OC_nH_{2n}OH$$
>
> in which R is a hydrocarbon radical, R_1 is a radical selected from the group consisting of hydrogen and hydrocarbon radicals and n is an integer greater than 1 and less than 4, and after stopping the reaction removing the $ROCHR'OC_nH_{2n}OH$ from the reaction mixture.
>
> 12. A process for the preparation of (methoxy methoxy) ethanol which comprises reacting methylal with ethylene glycol in the presence of a sulfuric acid catalyst and after equilibrium has been substantially established, neutralizing the sulfuric acid catalyst and separating the (methoxy methoxy) ethanol from the reaction product by distillation.
>
> 30. A process for the preparation of (methoxy methoxy) ethanol which comprises reacting methylal with ethylene glycol.
>
> 31. A process for the preparation of (methoxy-methoxy) ethanol which comprises reacting methylal with ethylene glycol in the presence of an acidic type catalyst.

As indicated by the above claims appellant's alleged invention relates to a process for the preparation of unsymmetrical acetals described as acetal alcohols and (methoxy methoxy) ethanol.

While there were a large number of references cited, only two were relied upon in the rejection of the claims before us. They are Carothers, 2,071,252, February 16, 1937; Carothers, 2,110,499, March 8, 1938.

Appellant's application states:

> Broadly, the process may be conducted by reacting an acetal with an oxy-substituted alcohol, $—OC_nH_{2n}OH$, in which n is an integer greater than 1 and when equilibrium has been substantially reached recovering the unsymmetrical acetal produced. More specifically, the invention is realized by reacting preferably while under reflux, an acetal with an oxy-substituted alcohol, the reaction preferably being catalyzed by an acid catalyst. When equilibrium has been substantially reached the catalyst, if any, is neutralized and the desired unsymmetrical acetal, by-product alcohol and any excess of acetal are removed by a fractional distillation which separates these materials, the residue being treated, if desired, with additional acetal and catalyst and recycled. • • •

The patent to Carothers, No. 2,071,252, states:

My new process for making linear polyacetals may be better understood by comparing it with the prior art method of making cyclic acetals by the interchange method, i. e. through reaction of polyhydroxy compounds, such as ethylene glycol and trimethylene glycol, with an open-chain monomeric acetal, such as chloroacetal. * * * If the mixture is heated so that the ethyl alcohol distils off, the equilibrium shifts to the right and a good yield of the monomeric cyclic acetal is formed.

The patent then proceeds to describe the process claimed therein which we find it unnecessary to discuss, except to say that Carothers discloses the use of an acid catalyst. He, however, does not destroy or neutralize the catalyst in carrying out his process as does appellant.

Appellant, in his brief, concedes that merely reacting an acetal with a polyhydric alcohol, of which ethylene glycol is an example, was known in the prior art. His brief states:

Broadly the process of reacting a polyhydric alcohol with an acetal is not new. In all of the prior art processes, however, two moles of the alcohol are removed during the reaction rather than one mole. Moreover, the processes of the art do not teach that prior to recovering the product from such a reaction it is necessary first to destroy the catalyst. Another distinguishing characteristic is that during the reaction appellant withdraws nothing from the zone of the reaction while in all of the processes of the art the alcohol formed is withdrawn by distillation. These vital differences result in the production of new products not heretofore known.

[1] The Examiner rejected all of the claims as unpatentable over the Carothers patents. He also rejected claims 3, 4, and 9 as being inoperatively broad "in the expressions 'an acetal' or 'a formal' when reference is made to one of the reactants." He further stated,

"The products are acetals and formals, and it is obviously not possible to use the products as initial reactants in the process. In the absence of a distinguishing restriction as to the nature of the reacting formals or acetals over the resulting formals or acetals, the above numbered claims are additionally rejected as of undue breadth."

With respect to this additional ground of rejection of claims 3, 4, and 9, while the Board did not specifically discuss it, it affirmed the decision of the Examiner which, in legal effect, was an affirmance of this additional ground of rejection of said claims. *In re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 780, 433 O. G. 223.

[2] Appellant, in his reasons of appeal, assigned no error in regard to this additional ground of rejection, and therefore the decision rejecting said claims 3, 4, and 9 will be affirmed. *In re Rothenberg et al.*, 29 C. C. P. A. (Patents) 1230, 129 F.(2d) 706, 544 O. G. 681.

With respect to the remaining claims, they may, for the purpose of discussion, be divided into two groups, viz., claims 12 and 13, and claims 30, 31, and 32.

[3] We will first consider the latter group, claims 30, 31, and 32.

Claim 30, as hereinbefore quoted, merely provides for the reacting of methylal with ethylene glycol to produce (methoxy methoxy) ethanol.

The Examiner held with respect to all of the claims that the only difference between the process claimed and the prior art was the recital of the product produced.

If that is the only difference, the claims were properly rejected. See *In re Caunt*, 23 C. C. P. A. (Patents) 855, 81 F.(2d) 405, 465 O. G. 461, and *In re Duggan et al.*, 29 C. C. P. A. (Patents) 765, 124 F.(2d) 215, 536 O. G. 721.

Claim 30 recites no steps which are not disclosed in the Carothers patent. This is, in effect, conceded in appellant's brief wherein it is stated:

The Board of Appeals in its decision of August 6, 1942, affirmed the Examiner's rejection of claims 3, 4, 9, 12, 13, 30, 31, and 32. The position taken by the Board of Appeals appears to be best expressed by its statements:

"Briefly the . . . claims present the question of patentability of the process that may be stated broadly as treating acetals with dihydric alcohols." (19 TR, first sentence)

"Applicant's specification appears to treat this basic principle as being his invention." (19 TR, 3rd paragraph)

The "basic principle" referred to by the Board of Appeals is the treatment of acetals with dihydric alcohols. Appellant concedes that this is not his invention for, as has been stated, Carothers, as well as the art of Carothers, carried out this basic reaction.

On the contrary, appellant has shown under discussion of the invention that his contribution lies in *so directing the course of the reaction that he obtains new products, the acetal-alcohols, such as MME.* [Italics ours.]

It follows from the foregoing that claim 30 was properly rejected for there is nothing therein embracing the steps of the reaction. In other words, if appellant obtains a new product through reaction of the elements mentioned, it must be due to some step in the process not included in the claim.

Claims 31 and 32 are similar to claim 30 except there is added the step of reacting the elements named in the presence of an acid catalyst.

However, Carothers discloses reaction in the presence of an acid catalyst; therefore, the addition of this step adds nothing to the patentability of the claims.

For the reasons stated, we can find no error in the rejection of claims 30, 31, and 32.

There remains for consideration the first group of claims, viz., claims 12 and 13.

Claim 12 has already been quoted in this opinion.

We have hereinbefore quoted from appellant's application wherein he states that broadly his process may be conducted by reacting the elements until an equilibrium has been substantially reached at which point the unsymmetrical acetal produced is recovered.

The application gives but one specific mode of carrying out the process which it states is the preferred mode. It is described as reacting the elements under reflux in the presence of an acid catalyst until equilibrium has been substantially reached when the catalyst is neutralized and the desired unsymmetrical acetal, by-product alcohol and any excess of acetal are removed by fractional distillation.

The gist of appellant's process as distinguished from the prior art seems to be in stopping the reaction when equilibrium is reached, and we find nothing in the cited prior art suggesting this step. Upon this point the Examiner, in his statement on appeal, said:

Applicant devotes pages 6, 7, 8 and 9 of his description to the names and formula of reactants and resulting "desired" compounds. The "equilibrium" which is presumably the point at which the acidic catalyst is to be neutralized, is not described in the discussion as accompanied by any recognizable phenomena. It is to be assumed that this point may be the one at which evidence of reaction disappears, but it is not so stated, nor is it disclosed as any particular critical point in the course of the process. The examples are given in which the neutralizing is done after 30 minutes, 3 hours, two hours, 5.5 hours and 6 hours of refluxing. The reaction mixture is then distilled to recover the acetals.

* * * * * * *

The reference, Carothers, describes the process of the claims. Under the substantial conditions of the examples herein he shows formation of cyclic acetals, and shows that only longer chain dihydric alcohols result in open long chain acetals. He discloses the formation of the (cyclic) acetals under the substantial process conditions of the claims.

If a critical condition exists or a critical difference exists between the process disclosed by Carothers (such as possibly the neutralization of the catalyst at "equilibrium") it is not evident from the claims nor the description. The applicant does not even suggest how the well known cyclic acetal of the prior art might be avoided in his process. The Examiner concedes that the process outlined in the claims is not taught in the prior art as producing the compounds functionally restricting the claims, but it has been shown that the same process with no apparent critical differences has been conducted resulting in different compounds.

The Board of Appeals in its decision stated:

On consideration of the prior art, it is found that the two patents to Carothers fully disclose the basic principle of reacting acetals with dihydric alcohols to produce apparently the same resultant compounds as those secured by applicant. It seems that the disclosure in the two Carothers patents in this respect discloses this principle as being the prior art. The patents proceed to disclose various details of advance thereover in the way of more highly specialized products.

We have carefully considered the situation including the contentions in the brief, but are unable to agree that the Examiner reached any erroneous conclusions in respect to invention. Applicant's specification appears to treat this basic principle as being his invention. The very numerous modifications and examples indicate that no particular features are highly vital or critical. It is apparent that among all the various and numerous examples of specific reagents that may be employed, some differences in minor details, such as temperature, time of treatment and various degrees of completion of the reaction, would be expected. Invention is clearly not involved in these features. They are regarded as well within the knowledge and skill of those working in this art in carrying out this basic reaction disclosed by Carothers, particularly.

We find the same conclusion applies to the matter of stopping the reaction rather than trying to make it continuous. It is elementary that chemical reactions will come to equilibrium short of completion unless some of the reacted products are continuously removed from the reacting mass. This feature is treated in this broad conception at the bottom of page 3 and top of page 4 of applicant's specification. It is therefore not highly critical and has been urged as important only in later prosecution of the case.

The term "equilibrium" as applied in chemistry is defined in Hackh's Chemical Dictionary as follows:

The balanced state reached when the action apparently stops in a chemical reaction, that is, the concentration between reaction products and the original reacting substances has become such that decomposition and recombination proceeds with equal speed; as,

$$2Fe + 3H_2O \leftrightarrows 3H_2 + Fe_2O_3$$

See mass action.

[4] It will be observed from the above quotation from the Examiner's statement that it is stated that the "equilibrium" referred to in the appellant's application "is not described in the discussion as accompanied by any recognizable phenomena," and he notes that in the examples given, the reaction varies between 30 minutes and 6 hours.

We regard this statement of the Examiner as equivalent to a statement upon his part that the element of claim 12, "after equilibrium has been substantially established," is so vague and indefinite that it may not be resorted to for the purpose of distinguishing the process there claimed from the process disclosed in the cited prior art.

Whether equilibrium of a chemical reaction is accompanied by any recognizable phenomena during the reaction process presents a highly technical question concerning which we do not feel warranted in holding that the Examiner was wrong, especially as this matter is not discussed at all in appellant's brief. See *In re Wuertz et al.*, 27 C. C. P. A. (Patents) 1039, 110 F.(2d) 854, 519 O. G. 7.

In view of the foregoing, the rejection of claim 12 will be affirmed.

There remains for consideration claim 13 which reads as follows:

13. A process for the preparation of (methoxy methoxy) ethanol which comprises reacting a methylal-methanol azeotrope containing 92% methylal with substantially 5.2 moles of ethylene glycol, using approximately ½ % sulfuric acid as the catalyst, refluxing the reaction mixture for approximately 6 hours, neutralizing the sulfuric acid by the addition of an alkali and recovering the (methoxy methoxy) ethanol by fractional distillation.

It will be observed that this claim does not contain the term "equilibrium" but in lieu thereof states the time of reacting the elements as "approximately 6 hours." It recites, as in claim 12, the product resulting from the process as being "(methoxy methoxy) ethanol."

[5] The specific period of reaction recited in claim 13, in our opinion, renders the claim patentable. It is true that the Examiner held that there were no critical differences between the claims before us and the processes of the prior art, and the Board held that the stopping of the chemical reaction, as set forth in some of the claims, was not "highly critical."

In the case of *In re Ruzicka*, 30 C. C. P. A. (Patents) 750, 132 F.(2d) 146, 548 O. G. 3, a like expression was used in the consideration of the steps of a process claim. We there held that the use of the term "highly," in such a connection, was improper and the same observation is applicable in considering claim 13.

[6] It is well established that if the employment of a step results in the production of a product different in kind from the processes of the prior art, the step is broadly critical. *In re Ruzicka*, supra. *In re Dreyfus*, 22 C. C. P. A. (Patents) 830, 73 F.(2d) 931, 453 O. G. 961. The term is usually applied in cases involving proportions of ingredients employed in a process, and not to the employment of a step in a process. However, it is unnecessary for us to here decide whether the rule of criticalness is applicable to the step of claim 13 under consideration. The question is whether the step of stopping the reaction as set forth in the claim renders it patentable. In a broad sense, if it does render it patentable the step is critical. Appellant in his application gives two examples of reacting the chemical elements for 6 hours and one for 5½ hours. Two other examples are given, one where the reaction proceeded for 3 hours, and one for 30 minutes. Different proportions of the chemicals, however, were used in the several examples.

However, we are here concerned with the examples corresponding to claim 13. Appellant's application states that the result of the process as set

forth in said claim 13 was the production of a product termed (methoxy methoxy) ethanol.

This step of stopping the reaction at the end of 6 hours, or at any other time, is nowhere suggested in the prior cited art, and it is not denied by the Patent Office tribunals that a product different in kind from the product of the prior cited art was produced by appellant.

In this connection we repeat a part of the hereinbefore quoted statement of the Examiner, viz.:

> The Examiner concedes that the process outlined in the claims is not taught in the prior art as producing the compounds functionally restricting the claims, but it has been shown that the same process with no apparent critical differences has been conducted resulting in different compounds.

It will be noted that the Examiner does not state that the processes of the prior art produced compounds similar to those produced by appellant's process, but only that they produce different compounds.

If appellant produces the compound named in the claim, it must be due to some step in the process not disclosed in the cited prior art. That the step of stopping the reaction and neutralizing or destroying the catalyst at a certain point in the reaction process is not shown in the prior art is conceded.

The Board held that appellant's specification appeared to treat the reacting of acetals with dihydric alcohols as the basic principle of appellant's invention. To this we cannot agree. In our opinion appellant's application treats the recovery of unsymmetrical acetals at a certain point in the reaction, viz., when equilibrium has been substantially reached as the basic principle of his invention.

As hereinbefore held, most of the claims are not sufficiently specific to embrace appellant's invention, but claim 13 is specific in this respect.

The Board further held that all of the steps embraced in the claims are regarded as well within the knowledge or skill of those working in the art.

Ordinarily the opinion of the Board in a technical matter of this nature would be accepted by us, but we do not think it proper to accept it in the case at bar, because it seems to us, as set forth above, the Board has misconceived the basic principle of appellant's invention, viz., stopping the reaction when equilibrium has been reached, which, as hereinbefore stated, is not shown in the references.

Claim 13 states a process resulting in the production of (methoxy methoxy) ethanol, which is a product different in kind from the products produced by the process disclosed in the Carothers patents.

In the case of *In re Kaplan*, 27 C. C. P. A. (Patents) 1072, 110 F.(2d) 670, 519 O. G. 219, we said:

> Of course, a patent may not be granted for a result, but it is not improper to look to a claimed result in considering the matter of novelty in a described step.
>
> The questions here are technical in character. Where such is the case this court hesitates to disagree with concurring decisions of the tribunals of the Patent Office, but where it is clear that a step, not disclosed by prior art, is involved, it is our duty fully to consider it and if, in our opinion, such step lends patentability to the claim, or claims, to say so.

The above quoted language is applicable to the case at bar and for the reasons hereinbefore stated we hold that claim 13 should be allowed.

The appeal is dismissed as to claims 33, 34, 36, and 37. The decision is affirmed as to the remaining claims before us, except as to claim 13, and the decision with respect to claim 13 is reversed.

Modified.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 6, 1944

[VOL. 563. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 468,032. J. M. HUBER, INC., New York, N. Y. Filed Mar. 7, 1944.

MODULEX

FOR CARBON BLACK.
Claims use since Feb. 18, 1944.

Ser. No. 468,437. COLUMBIAN ROPE COMPANY, Auburn, N. Y. Filed Mar. 20, 1944.

CO-RO-LITE

FOR RESIN-IMPREGNATED VEGETABLE FIBER MATERIAL IN SHEET FORM OR IN SHAPES CUT THEREFROM FOR MOLDING.
Claims use since Oct. 25, 1941.

Ser. No. 468,680. THE OHIO LEATHER COMPANY, Girard, Ohio. Filed Mar. 25, 1944.

PIGETTE

FOR LEATHER.
Claims use since December 1943.

Ser. No. 468,788. GARCO PRODUCTS, INC., Conoquenessing, Pa. Filed Mar. 29, 1944.

GARSAND

FOR COMMINUTED MIXTURE OF SILICA AND GLASS FORMED INTO AGGLOMERATES WITH SODA ASH AND ADAPTED TO BE UTILIZED IN THE PRODUCTION OF GLASS.
Claims use since Oct. 13, 1943.

CLASS 2

RECEPTACLES

Ser. No. 459,925. ALBERT C. FISCHER, doing business as Servicised Products Company, Chicago, Ill. Filed Apr. 16, 1943.

SERVICISED

FOR FLOWER POTS MADE OF CONCRETE, PAPIER-MÂCHÉ, SYNTHETIC MATERIALS, BITUMINOUS SHEETS, IMPREGNATED SHEET MATERIALS OR ROOFING SCRAP.
Claims use since Feb. 21, 1935.

Ser. No. 460,703. KING BROTHERS, INC., Portland, Oreg. Filed May 18, 1943.

KING

FOR STEEL FUEL OIL TANKS.
Claims use since Feb. 12, 1940.

Ser. No. 464,975. A. E. MACADAM & CO., INC., Brooklyn, N. Y. Filed Nov. 13, 1943.

MACCO

FOR REVERSE TUCK FOLDING CARDBOARD CARTONS OF VARIOUS SIZES.
Claims use since Nov. 15, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 459,841. KNIGHT LEATHER PRODUCTS CO., INC., Boston, Mass. Filed Apr. 13, 1943.



FOR BILLFOLDS, FITTED AND UNFITTED TOILET CASES AND POCKET BOOKS MADE OF FABRIC AND LEATHER.
Claims use since Jan. 1, 1930.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 462,902. BRAY CHEMICAL CO., INC., Chicago, Ill. Filed Aug. 21, 1943.

Speedboat

FOR CLEANING, SCOURING AND POLISHING COMPOUND.
Claims use since Jan. 20, 1943.

Ser. No. 463,397. K. P. CHEMICAL CO., Stamford, Conn. Filed Sept. 14, 1943.

K. P.

FOR SULPHONATED SYNTHETIC DETERGENTS FOR ALL-PURPOSE CLEANING.
Claims use since July 1942.

Ser. No. 463,517. R. R. HULSH, doing business as NABS-OYLE CO., Chicago, Ill. Filed Sept. 20, 1943.

NABS-OYLE

Applicant disclaims the word "Oyle" apart from the mark.
FOR DRYING-UP AND ABSORBENT MINERAL COMPOUND FOR DRYING UP OILS, AND USED AS AN ANTI-SLIP OIL ABSORBENT AND AS SWEEPING COMPOUND.
Claims use since June 1943.

Ser. No. 464,843. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Nov. 8, 1943.

G. L. X.

FOR CLEANING, CLEANSING AND DETERGENT MATERIAL, PARTICULARLY ADAPTED FOR CLEANING RECEPTACLES OR ARTICLES FOR HOLDING AND CONTACTING FOODS, BOTH SOLID AND LIQUID.
Claims use since Mar. 29, 1940.

Ser. No. 467,182. BRAY CHEMICAL CO., INC., Chicago, Ill. Filed Mar. 6, 1944.

OLD SOL

FOR CLEANSING POWDER.
Claims use since Sept. 21, 1942.

Ser. No. 467,183. BRAY CHEMICAL CO., INC., Chicago, Ill. Filed Mar. 6, 1944.

BOWLMASTER

FOR TOILET BOWL CLEANSING POWDER.
Claims use since Oct. 4, 1938.

Ser. No. 467,868. ASSOCIATED DISTRIBUTORS, Chicago, Ill. Filed Mar. 1, 1944.

"forbidden"

FOR TOILET SOAPS.
Claims use since Dec. 10, 1932.

CLASS 5

ADHESIVES

Ser. No. 467,902. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 1, 1944.

GLUEX

FOR DEXTRINIZED OR MODIFIED STARCH PRODUCT ADAPTED FOR USE AS AN EXTENDER OR IN PLACE OF ANIMAL GLUE.
Claims use since December 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 462,179. GUY T. DELLARIA, doing business as The Rheumatkill Co., New York, N. Y. Filed July 20, 1943.

RHEUMATKILL

FOR LINIMENT FOR THE TREATMENT OF RHEUMATISM, NEURALGIC AND MUSCULAR ACHES AND PAINS.
Claims use since July 12, 1943.

Ser. No. 463,794. NYANZA COLOR & CHEMICAL CO., INC., New York, N. Y. Filed Sept. 30, 1943.

NYANZA

FOR DYESTUFFS, ANILINE COLORS, AND CHEMICALS SUCH AS OILS, GREASES, GUMS, WAXES, SYNTHETIC RESINS AND MIXTURES OR COMBINATIONS OF THE SAME FOR THE PREPARATORY TREATMENT, PROCESSING, CONDITIONING, FINISHING AND SIZING TEXTILE MATERIALS, FOR TANNING LEATHERS, AND FOR DRESSING, TREATING AND FINISHING FURS.
Claims use since Jan. 1, 1920.

Ser. No. 467,361. THE TROSEPT COMPANY, Huntington Park, Calif. Filed Feb. 11, 1944.

TROSEPT

FOR PHARMACEUTICAL PREPARATION USED AS A THROAT GARGLE AND FOR THE TREATMENT OF COLDS.
Claims use since July 15, 1943.

Ser. No. 467,539. RYSTAN COMPANY, New York, N. Y. Filed Feb. 18, 1944.

Chloresium

FOR THERAPEUTIC CHLOROPHYLL AND CHLOROPHYLL DERIVATIVES PREPARATIONS IN VARIOUS FORMS SUCH AS SOLUTIONS, OINTMENTS, JELLIES, DUSTING POWDERS AND OTHER MEDICINAL FORMS FOR THE TREATMENT OF ACUTE AND CHRONIC INFLAMMATORY CONDITIONS SUCH AS BURNS AND WOUNDS; FOR THE TREATMENT OF CHRONIC ULCERATIVE LESIONS, SUCH AS CHRONIC VARICOSE ULCERS AND ULCERS PRODUCED BY IRRADIATION; FOR THE TREATMENT OF POST-IRRADIATION ERYTHEMA; FOR THE TREATMENT OF INFECTIONS OF THE GUMS, SUCH AS VINCENT'S ANGINA AND PYORRHEA ALVEOLARIS; FOR THE TREATMENT OF RESPIRATORY INFECTIONS, SUCH AS CHRONIC SINUSITIS.
Claims use since Dec. 21, 1943.

Ser. No. 467,643. JULIUS BLACKMAN CORPORATION, doing business as Supreme Pharmaceutical Company, New York, N. Y. Filed Feb. 22, 1944.

CEVITABS

FOR VITAMIN CAPSULES AND TABLETS.
Claims use since Sept. 6, 1937.

Ser. No. 467,898. S & S CHEMICAL COMPANY, Newark, N. J. Filed Mar. 1, 1944.

DEWATEX

FOR WATER-REPELLENT PREPARATION IN LIQUID AND PASTE FORM FOR WATERPROOFING AND WEATHERPROOFING TEXTILES, FIBRES, FABRICS, FURS, PAPER, AND BUILDING MATERIALS.
Claims use since Feb. 26, 1944.

Ser. No. 468,162. RUBBER AND PLASTICS COMPOUND CO. INC., New York, N. Y. Filed Mar. 10, 1944.

Nervostrol

FOR COMPOUND USED AS A BASE IN THE MANUFACTURE OF RUBBER CEMENT.
Claims use since Dec. 10, 1943.

Ser. No. 468,456. JOSEPH LICATA, Chicago, Ill. Filed Mar. 20, 1944.

CLEANSOL

FOR HAIR TONIC.
Claims use since Mar. 16, 1943.

Ser. No. 468,502. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 22, 1944.

VIOFORM—O

FOR ANTISEPTIC, BACTERICIDAL, AND FUNGICIDAL OINTMENT.
Claims use since Mar. 9, 1944.

Ser. No. 468,518. LILEE PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 22, 1944.

HYGEA

FOR VITAMIN CAPSULES.
Claims use since Sept. 10, 1942.

Ser. No. 469,144. HENRI BENDEL, INC., New York, N. Y. Filed Apr. 8, 1944.

MARINE RED

The word "Red" is disclaimed apart from the mark.
FOR LIPSTICK.
Claims use since June 25, 1942.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 468,330. OXFORD MANUFACTURING CO., New York, N. Y. Filed Mar. 15, 1944.

Goldcrest

FOR SMOKING PIPES.
Claims use since Oct. 15, 1943.

Ser. No. 468,822. L. & H. STERN, INC., Brooklyn, N. Y. Filed Mar. 29, 1944.

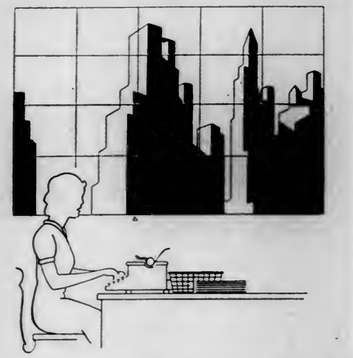
STERNCREST

FOR SMOKERS' PIPES.
Claims use since Jan. 1, 1938.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 457,381. CODO MANUFACTURING CORP., Coraopolis, Pa., and Chicago, Ill. Filed Dec. 14, 1942.



FOR CARBON PAPER AND TYPEWRITER RIBBONS.
Claims use since Apr. 1, 1923.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 466,964. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Jan. 28, 1944.

VIBESTON

FOR SOUND DAMPING LAMINATED IMPREGNATED PAPER FOR SHEET METAL WALLS, VEHICLE BODIES, AND THE LIKE.
Claims use since Oct. 14, 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 464,340. HENRY VALVE COMPANY, Chicago, Ill. Filed Oct. 22, 1943.

WAVE FLOW

FOR PIPELINE VALVES OF THE TYPE USED IN CONTROLLING THE FLOW OF FLUIDS.
Claims use since Oct. 11, 1943.

Ser. No. 464,510. ERNEST W. KRAUSE, doing business as Krause Stamping Company, Wheeling, W. Va. Filed Oct. 29, 1943.

KRASCO — KRAUSE STAMPING COMPANY — WHEELING, W. VA.

No claim is made to the words "Krause Stamping Company, Wheeling, W. Va.," apart from the mark.
FOR THREAD PROTECTORS FOR PIPE; METAL PROTECTORS FOR OIL WELL SUCKER RODS; VALVE PLUGS AND RANGE BOILER PROTECTOR PLUGS.
Claims use since Oct. 8, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,221. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed Mar. 19, 1943.

SUPER STAR-MO

No claim is made to the word "Super" apart from the mark.
FOR TOOL AND DIE STEELS.
Claims use since November 1942.

Ser. No. 469,028. RENE D. WASSERMAN, doing business as Eutectic Welding Alloys Company, New York, N. Y. Filed Apr. 4, 1944.

EUTECTRODE

FOR WELDING ELECTRODES WHICH ARE CONSUMED IN THE WELDING OPERATION, WELDING, BRAZING, AND SOLDERING RODS AND WIRES, EITHER BARE OR COATED WITH FLUX SUBSTANCE FOR USE IN CONNECTION WITH OXY-ACETYLENE TORCHES, WITH ELECTRIC HEATING AND CARBON-ARC DEVICES.
Claims use since March 1944.

CLASS 15

OILS AND GREASES

Ser. No. 467,862. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa. Filed Feb. 29, 1944.

NIT-O-NOL

FOR OILS USED FOR LUBRICATING NEEDLES AND SINKERS ON KNITTING MACHINES.
Claims use since February 1937.

Ser. No. 469,105. H. A. ASTLETT & Co., New York, N. Y. Filed Apr. 7, 1944.

ASTLAMAR

FOR LUBRICATING OILS.
Claims use since December 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 467,838. JOSEPH BAEBI, doing business as The Hilton Paint and Varnish Works, Hilton, N. J. Filed Feb. 29, 1944.

"Old Mansion"

FOR READY-MIXED PAINTS; PREPARED SHELLACS; WASHABLE WALL PAINT; PAINT PRIMERS; VARNISHES; ENAMEL UNDERCOATS; FLAT PAINTS; PAINT ENAMELS; PAINT OILS AND VARNISH STAINS.
Claims use since July 20, 1930.

Ser. No. 469,173. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Apr. 8, 1944.

TREMCOTE

FOR READY-MIXED PAINT.
Claims use since Feb. 6, 1936.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 467,013. BELL AIRCRAFT CORPORATION, Buffalo, N. Y. Filed Jan. 31, 1944.

KINGCOBRA

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since May 27, 1943.

Ser. No. 467,216. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 7, 1944.

O-N

FOR SAIL BOATS, WITH OR WITHOUT AUXILIARY POWER, AND SAILS THEREFOR.
Claims use since Apr. 25, 1939.

Ser. No. 467,638. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 22, 1944.

Visitor

FOR SAIL BOATS, WITH OR WITHOUT AUXILIARY POWER, AND SAILS THEREFOR.
Claims use since Mar. 13, 1941.

Ser. No. 467,639. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 22, 1944.

Hinky-Dink

FOR ROW BOATS, SAIL BOATS, AND MOTOR BOATS.
Claims use since Feb. 15, 1944.

Ser. No. 467,744. AMPHIBIAN CAR CORPORATION, Buffalo, N. Y. Filed Feb. 25, 1944.

WATER BUFFALO

FOR AMPHIBIOUS AUTOMOTIVE VEHICLES.
Claims use since Dec. 20, 1941.

Ser. No. 467,745. AMPHIBIAN CAR CORPORATION, Buffalo, N. Y. Filed Feb. 25, 1944.

AQUA-CHEETAH

FOR AMPHIBIOUS AUTOMOTIVE VEHICLES.
Claims use since Mar. 15, 1941.

Ser. No. 467,778. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 26, 1944.

Dater

FOR SAIL BOATS, WITH OR WITHOUT AUXILIARY POWER, AND SAILS THEREFOR.
Claims use since Feb. 15, 1944.

Ser. No. 467,835. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Feb. 29, 1944.

Caller

FOR SAIL BOATS, WITH OR WITHOUT AUXILIARY POWER, AND SAILS THEREFOR.
Claims use since Feb. 15, 1944.

Ser. No. 468,959. HIGGINS INDUSTRIES, INC., New Orleans, La. Filed Apr. 3, 1944.

Higgins

The mark is a facsimile signature of A. J. Higgins, president of applicant corporation.
FOR LANDING BOATS, MOTOR TORPEDO BOATS, AND STEEL AND WOOD TUGBOATS AND BARGES.
Claims use since June 1, 1922, for "Higgins," and since Jan. 20, 1943, for the facsimile signature.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 466,355. NATIONAL PLASTIC PRODUCTS COMPANY, Odenton, Md. Filed Jan. 6, 1944.



FOR PLASTIC ELECTRICAL CIRCUIT ELEMENTS—NAMELY, PLUGS AND CABLE ELEMENTS.
Claims use since August 1942.

Ser. No. 466,960. UNION AIRCRAFT PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 28, 1944.



"Aircraft Products Corp." is disclaimed apart from the mark.
FOR SHIELDING CONDUIT FITTINGS FOR ELECTRICAL WIRING—NAMELY, FLEXIBLE CONDUIT FERRULES, RIGID CONDUIT FERRULES, CONDUIT COUPLING NUTS, ADAPTERS FOR CONNECTORS, CONDUIT COUPLINGS FOR CONNECTING RIGID CONDUITS TO FLEXIBLE CONDUITS, STRAIGHT CONDUIT COUPLINGS, THREADED BUSHINGS, ADAPTERS, CONDUIT BOX CONNECTORS, CONDUIT COUPLING LOCK-NUTS, CONDUIT COUPLINGS, CONNECTORS FOR CONNECTING CONDUITS TO JUNCTION BOXES, CONDUIT COLLARS, BULKHEAD CONNECTOR COUPLINGS, CONDUIT LOCK-NUTS, CONDUIT CLAMPS, CONDUIT NUTS, CONDUIT UNIONS, JUNCTION BOXES AND PARTS THEREFOR, JUNCTION BOX ASSEMBLIES SUCH AS PILOT SWITCH BOXES FOR PROPELLER PITCH CONTROL HOUSING GENERATOR, CUT OUT, AMMETER, TERMINAL BLOCKS AND SWITCHES, JUNCTION BOX ASSEMBLIES HOUSING TOGGLE SWITCH, SHIELDING JUNCTION BOX ASSEMBLIES HOUSING FUSES, MADE OF ALUMINUM BY CASTING, DIE-CASTING, AND SCREW MACHINING.
Claims use since May 1, 1941.

Ser. No. 466,961. UNION AIRCRAFT PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 28, 1944.

UNIONAIR

FOR SHIELDING CONDUIT FITTINGS FOR ELECTRICAL WIRING—NAMELY, FLEXIBLE CONDUIT FERRULES, RIGID CONDUIT FERRULES, CONDUIT COUPLING NUTS, ADAPTERS FOR CONNECTORS, CONDUIT COUPLINGS FOR CONNECTING RIGID CONDUITS TO FLEXIBLE CONDUITS, STRAIGHT CONDUIT COUPLINGS, THREADED BUSHINGS, ADAPTERS, CONDUIT BOX CONNECTORS, CONDUIT COUPLING LOCK-NUTS, CONDUIT COUPLINGS, CONNECTORS FOR CONNECTING CONDUITS TO JUNCTION BOXES, CONDUIT COLLARS, BULKHEAD CONNECTOR COUPLINGS, CONDUIT LOCK-NUTS, CONDUIT CLAMPS, CONDUIT NUTS, CONDUIT UNIONS, JUNCTION BOXES AND PARTS THEREFOR, JUNCTION BOX ASSEMBLIES SUCH AS PILOT SWITCH BOXES FOR PROPELLER PITCH CONTROL HOUSING GENERATOR, CUT OUT, AMMETER, TERMINAL BLOCKS AND SWITCHES, JUNCTION BOX ASSEMBLIES HOUSING TOGGLE SWITCH, SHIELDING JUNCTION BOX ASSEMBLIES HOUSING FUSES, MADE OF ALUMINUM BY CASTING, DIE-CASTING, AND SCREW MACHINING.
Claims use since May 1, 1941.

Ser. No. 466,962. UNION AIRCRAFT PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 28, 1944.

A
UNION
R

FOR SHIELDING CONDUIT FITTINGS FOR ELECTRICAL WIRING—NAMELY, FLEXIBLE CONDUIT FERRULES, RIGID CONDUIT FERRULES, CONDUIT COUPLING NUTS, ADAPTERS FOR CONNECTORS, CONDUIT COUPLINGS FOR CONNECTING RIGID CONDUITS TO FLEXIBLE CONDUITS, STRAIGHT CONDUIT COUPLINGS, THREADED BUSHINGS, ADAPTERS, CONDUIT BOX CONNECTORS, CONDUIT COUPLING LOCK-NUTS, CONDUIT COUPLINGS, CONNECTORS FOR CONNECTING CONDUITS TO JUNCTION BOXES, CONDUIT COLLARS, BULKHEAD CONNECTOR COUPLINGS, CONDUIT LOCK-NUTS, CONDUIT CLAMPS, CONDUIT NUTS, CONDUIT UNIONS, JUNCTION BOXES AND PARTS THEREFOR, JUNCTION BOX ASSEMBLIES SUCH AS PILOT SWITCH BOXES FOR PROPELLER PITCH CONTROL HOUSING GENERATOR, CUT OUT, AMMETER, TERMINAL BLOCKS AND SWITCHES, JUNCTION BOX ASSEMBLIES HOUSING TOGGLE SWITCH, SHIELDING JUNCTION BOX ASSEMBLIES HOUSING FUSES, MADE OF ALUMINUM BY CASTING, DIE-CASTING, AND SCREW MACHINING.
Claims use since May 1, 1941.

Ser. No. 466,963. UNION AIRCRAFT PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 28, 1944.



FOR SHIELDING CONDUIT FITTINGS FOR ELECTRICAL WIRING—NAMELY, FLEXIBLE CONDUIT FERRULES, RIGID CONDUIT FERRULES, CONDUIT COUPLING NUTS, ADAPTERS FOR CONNECTORS, CONDUIT COUPLINGS FOR CONNECTING RIGID

CONDUITS TO FLEXIBLE CONDUITS, STRAIGHT CONDUIT COUPLINGS, THREADED BUSHINGS, ADAPTERS, CONDUIT BOX CONNECTORS, CONDUIT COUPLING LOCK-NUTS, CONDUIT COUPLINGS, CONNECTORS FOR CONNECTING CONDUITS TO JUNCTION BOXES, CONDUIT COLLARS, BULKHEAD CONNECTOR COUPLINGS, CONDUIT LOCK-NUTS, CONDUIT CLAMPS, CONDUIT NUTS, CONDUIT UNIONS, JUNCTION BOXES AND PARTS THEREFOR, JUNCTION BOX ASSEMBLIES SUCH AS PILOT SWITCH BOXES FOR PROPELLER PITCH CONTROL HOUSING GENERATOR, CUT OUT, AMMETER, TERMINAL BLOCKS AND SWITCHES, JUNCTION BOX ASSEMBLIES HOUSING TOGGLE SWITCH, SHIELDING JUNCTION BOX ASSEMBLIES HOUSING FUSES, MADE OF ALUMINUM BY CASTING, DIE-CASTING, AND SCREW MACHINING.
Claims use since May 1, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 459,125. NATIONAL PAPER BOX CO. INC., West Springfield, Mass. Filed Mar. 15, 1943.

LULLABY

FOR KNOCK-DOWN TOY FURNITURE MADE FROM PAPER AND CARDBOARD.
Claims use since Jan. 15, 1943.

Ser. No. 464,592. ERNEST V. STIPP, Waterloo, Iowa. Filed Nov. 1, 1943.

WHIRLO

FOR GAMES CONSISTING OF A DIAL WITH NUMBERS THEREON, AND A ROTATABLE HAND, AND CARDS EACH HAVING SOME OF THE NUMBERS CORRESPONDING WITH THE NUMBERS ON THE DIAL.
Claims use since Oct. 10, 1936.

Ser. No. 464,920. CHARLES H. HAGOPIAN, doing business under the name of C. H. Hagopian Co., New York, N. Y. Filed Nov. 11, 1943.

Yankee Bubble

The word "Bubble" is disclaimed apart from the mark.
FOR BUBBLE MAKING DEVICES COMPRISING A HANDLE SECURED TO FILM FORMING MEMBERS AND BUBBLE-BLOWING PIPES AND BUBBLE-BLOWING TUBES.
Claims use since Oct. 29, 1943.

Ser. No. 467,507. LOUIS ZAKARIN, doing business as Tailor Made Belt Co., New York, N. Y. Filed Feb. 17, 1944.



The words "Pistol Pocket" are disclaimed apart from the mark.
FOR TOY GUN BELTS AND HOLSTERS.
Claims use since Jan. 31, 1944.

Ser. No. 468,716. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed Mar. 27, 1944.

LITTLE
MISS
MUFFET

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Feb. 1, 1937.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 468,271. TRANS-AMERICAN DEVELOPMENT CORPORATION, New York, N. Y. Filed Mar. 13, 1944.

CLEJARIZED

FOR MECHANICS' FILES AND RASPS.
Claims use since Feb. 28, 1944.

Ser. No. 468,484. FEDERAL RAZOR BLADE CO. INC., Newark, N. J. Filed Mar. 21, 1944.

Victory

FOR RAZOR BLADES.
Claims use since Mar. 8, 1944.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 469,035. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y. Filed Apr. 5, 1944.

GLAMOUR

FOR PAPER DRESS PATTERNS.
Claims use since Apr. 23, 1943.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 468,816. HARRY RODMAN, New York, N. Y. Filed Mar. 29, 1944.

Lonville

FOR WATCHES AND WATCH MOVEMENTS.
Claims use since July 24, 1940.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 468,652. WILSON'S LEADING JEWELERS, INC., Syracuse, N. Y. Filed Mar. 24, 1944.

Cressel

FOR DIAMOND RINGS.
Claims use since Feb. 22, 1944.

Ser. No. 468,657. BAUMAN-MASSA JEWELRY COMPANY, St. Louis, Mo. Filed Mar. 25, 1944.

CARDINAL

FOR WEDDING RINGS, ENGAGEMENT RINGS, AND DIAMOND RINGS.
Claims use since Mar. 1, 1944.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 467,584. MAX SINCLAIR, Los Angeles, Calif. Filed Feb. 19, 1944.

SINCLAIR'S SPEEDWAY

No claim is made to the name "Sinclair's" apart from the mark.
FOR SHELLAC APPLYING BRUSHES AND SHELLAC APPLYING MOPS.
Claims use since Nov. 1, 1941.

Ser. No. 468,252. GEM PRODUCTS, INC., Milwaukee, Wis. Filed Mar. 13, 1944.

SPRUSTEX

FOR FLOOR MOPS INCLUDING DRY, OIL, AND WET MOPS.
Claims use since May 28, 1917.

Ser. No. 468,473. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed Mar. 20, 1944.

PROLITE

FOR HAIR BRUSHES.
Claims use since Feb. 28, 1944.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 459,395. PAUL E. BRANDWEN, doing business as Paul E. Brandwen Mfg. Co., Scranton, Pa. Filed Mar. 27, 1943.

KIDDIE KORNER

FOR FOLDABLE COMBINATION SEAT TABLES.
Claims use since Dec. 5, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 466,332. L. J. MUELLER FURNACE COMPANY, Milwaukee, Wis. Filed Jan. 5, 1944.

CLIMATROL

FOR GAS FURNACES.
Claims use since 1937.

Ser. No. 467,284. MEEHANITE METAL CORPORATION, New Rochelle, N. Y. Filed Feb. 8, 1944. Under the act of February 20, 1905, as amended June 10, 1938.

EQUIBLAST

FOR METALLURGICAL CUPOLAS.
Claims use since May 5, 1939.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 468,781. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio. Filed Mar. 29, 1944.

RAYTEX

FOR PNEUMATIC TIRES.
Claims use since Feb. 28, 1944.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 445,912. BARTH-FEINBERG, INC., New York, N. Y. Filed Aug. 4, 1941.

MUSKETEER

FOR MUSICAL STRING INSTRUMENTS OF THE BOW TYPE—NAMELY, VIOLINS, VIOLAS, CELLOS, BASSES; MUSICAL STRING INSTRUMENTS OF THE FRETTED TYPE—NAMELY, GUITARS, TENOR GUITARS, MANDOLINS, BANJO MANDOLINS, TENOR BANJOS, FIVE STRING BANJOS, UKELELES, TIPLES; MUSICAL BAND INSTRUMENTS—NAMELY, SAXOPHONES, CORNETS, TRUMPETS, TROMBONES, FRENCH HORNS, ALTO HORNS, MELLOPHONES, BARITONES, BASS HORNS, SOUSAPHONES, PICCOLOS, FLUTES; MUSICAL WIND INSTRUMENTS—NAMELY, CLARINETS, OBOES, BASSOONS, ENGLISH HORNS; MUSICAL PERCUSSION INSTRUMENTS—NAMELY, DRUMS, TYMPANI, CYMBALS, TOM TOMS; MUSICAL ELECTRICALLY AMPLIFIED INSTRUMENTS—NAMELY, ELECTRICALLY AMPLIFIED GUITARS, ELECTRICALLY AMPLIFIED VIOLINS, ELECTRICALLY AMPLIFIED MANDOLINS, ELECTRICALLY AMPLIFIED TENOR BANJOS; MUSICAL ACCORDIONS; MUSICAL CONCERTINAS; MUSICAL HARMONICAS; SOUND EQUIPMENT—NAMELY, AMPLIFIERS FOR PHONOGRAPHS AND TALKING MACHINES; RECORDING EQUIPMENT—NAMELY, PHONOGRAPHIC RECORDING MACHINES AND PHONOGRAPHIC RECORD BLANKS; PHONOGRAPHS; PHONOGRAPH RECORDS; MUSICAL MARIMBAS; MUSICAL XYLOPHONES; MUSICAL VIBRABELLS; MUSICAL VIBRAHARPS; MUSICAL CHIMES; MUSICAL ORCHESTRA BELLS; MUSICAL BUGLES; MUSICAL FIFES; MUSICAL GLOCKENSPIELS; AND MUSICAL BUGLE LYRAS; AND ACCESSORIES FOR ALL OF THE AFOREMENTIONED.
Claims use since January, 1923.

Ser. No. 452,121. BARTH-FEINBERG, INC., New York, N. Y., Filed Apr. 3, 1942.

FIDELITY

FOR STRING INSTRUMENTS OF THE BOW TYPE—NAMELY, VIOLINS, VIOLAS, CELLOS, BASSES; STRING INSTRUMENTS OF THE FRETTED TYPE—NAMELY, GUITARS, TENOR GUITARS, MANDOLINS, BANJO MANDOLINS, TENOR BANJOS, FIVE STRING BANJOS, UKELELES, TIPLES; BAND INSTRUMENTS—NAMELY, SAXOPHONES, CORNETS, TRUMPETS, TROMBONES, FRENCH HORNS, ALTO HORNS, MELLOPHONES, BARITONES, BASS HORNS, SOUSAPHONES, PICCOLOS, FLUTES; WIND INSTRUMENTS—NAMELY, CLARINETS, OBOES, BASSOONS, ENGLISH HORNS; PERCUSSION INSTRUMENTS—NAMELY, DRUMS, TYMPANI, CYMBALS, TOM TOMS; ELECTRICALLY AMPLIFIED INSTRUMENTS—NAMELY, ELECTRICALLY AMPLIFIED GUITARS, ELECTRICALLY AMPLIFIED VIOLINS, ELECTRICALLY AMPLIFIED MANDOLINS, ELECTRICALLY AMPLIFIED TENOR BANJOS; ACCORDIONS; CONCERTINAS; HARMONICAS; SOUND EQUIPMENT—NAMELY, AMPLIFIERS FOR PHONOGRAPHS AND TALKING MACHINES; RECORDING EQUIPMENT—NAMELY, PHONOGRAPHIC RECORDING MACHINES AND PHONOGRAPHIC RECORD BLANKS; PHONOGRAPHS; PHONOGRAPH RECORDS; MARIMBAS; XYLOPHONES; VIBRABELLS; VIBRAHARPS; CHIMES; ORCHESTRA BELLS; BUGLES; FIFES; GLOCKENSPIELS; AND BUGLE LYRAS; AND ACCESSORIES FOR ALL OF THE AFOREMENTIONED; TRANSCRIPTION NEEDLES; RECORDING NEEDLES; CUTTING NEEDLES; PLAY BACK NEEDLES AND PHONOGRAPH NEEDLES.
Claims use since Oct 2, 1939.

CLASS 37

PAPER AND STATIONERY

Ser. No. 465,505. INTERNATIONAL CELLUCOTTON PRODUCTS CO., Chicago, Ill. Filed Dec. 4, 1943.

KLEENEX

FOR PAPER ARTICLES—NAMELY, ABSORBENT PADS OR SHEETS USED FOR SANITARY NECK-BANDS, SANITARY CAPES, SANITARY CAPS, AND SANITARY FACIAL MASKS, BABY BIBS AND DIAPERS, BLOTTERS, CLEANING CLOTHS, DRYING CLOTHS, DUSTING CLOTHS, POLISHING CLOTHS, WIPING CLOTHS, DRESS SHIELDS AND PROTECTORS, FOR FILTERING AND STRAINING, HANDKERCHIEFS, COSMETIC APPLICATORS AND REMOVERS, NAPKINS, PADS, TOILET PAPER, SEAT COVERS, AND TOWELS.
Claims use since June 12, 1924.

Ser. No. 468,695. BRYANT PAPER COMPANY, Kalamazoo, Mich. Filed Mar. 27, 1944.

BRYANTEER

FOR COATED AND UNCOATED PRINTING PAPER.
Claims use since Feb. 2, 1940.

Ser. No. 468,696. BRYANT PAPER COMPANY, Kalamazoo, Mich. Filed Mar. 27, 1944.

Bryantique

FOR PRINTING PAPER.
Claims use since Jan. 1, 1933.

Ser. No. 468,697. BRYANT PAPER COMPANY, Kalamazoo, Mich. Filed Mar. 27, 1944.

Brycoat

FOR COATED PRINTING PAPER.
Claims use since July 18, 1939.

Ser. No. 468,698. BRYANT PAPER COMPANY, Kalamazoo, Mich. Filed Mar. 27, 1944.

BRYFOLD

FOR COATED PRINTING PAPER.
Claims use since Jan. 1, 1933.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 458,940. THE KINGSWAY PRESS, INC., New York, N. Y. Filed Mar. 6, 1943.

Your Life Library

The word "Library" is disclaimed apart from the mark.
FOR COLUMN IN A MAGAZINE PUBLISHED FROM TIME TO TIME.
Claims use since Dec. 15, 1939.

Ser. No. 458,941. THE KINGSWAY PRESS, INC., New York, N. Y. Filed Mar. 6, 1943.

YOUR LIFE LIBRARY SERVICE

The words "Library Service" are disclaimed apart from the mark.

FOR MAGAZINE PUBLISHED FROM TIME TO TIME.

Claims use since Dec. 15, 1939.

Ser. No. 461,892. LOUIS R. MILIO, Baltimore, Md. Filed July 6, 1943.

Your Heroes and Mine

FOR NEWSPAPER ARTICLES.

Claims use since July 30, 1942.

Ser. No. 462,908. LIBERO JOSEPH DANELUZZI, Bridgeton, N. J. Filed Aug. 21, 1943.

"SELL-APPEAL"

FOR LITHOGRAPHED AND PRINTED LABELS OTHER THAN BLANK AND PARTIALLY PRINTED.

Claims use since May 1937.

Ser. No. 464,813. DISTRIBUTION AND WAREHOUSING PUBLICATIONS, INC., New York, N. Y. Filed Nov. 8, 1943.



FOR SECTION OF A PERIODICAL APPEARING AT IRREGULAR INTERVALS.

Claims use since Oct. 1, 1943.

Ser. No. 465,854. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Dec. 17, 1943.

AIR TRAILS

FOR MAGAZINE.

Claims use since February 1943.

CLASS 39

CLOTHING

Ser. No. 454,042. A. H. SCHREIBER CO., INC., New York, N. Y., assignor to A. H. Schreiber Co., New York, N. Y., composed of Adolph H. Schreiber, Samuel Schreiber, both of Brooklyn, N. Y., and Max Schreiber, Aaron M. Schreiber, and Louis J. Schreiber, Philadelphia, Pa. Filed July 3, 1942.

Skintees

FOR LADIES' PANTIES.

Claims use since Feb. 15, 1931.

Ser. No. 467,385. TEEN-TIMERS INC., New York, N. Y. Filed Feb. 12, 1944.



The words "Wee" and "for Tots" are disclaimed apart from the mark.

FOR CHILDREN'S DRESSES.

Claims use since Feb. 15, 1944.

Ser. No. 467,899. THE SELBY SHOE COMPANY, Portsmouth, Ohio. Filed Mar. 1, 1944. Under 10-year proviso as to "Physical Culture."



FOR SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS.

Claims use since Oct. 1, 1894, for "Physcial Culture," and since Apr. 15, 1942, for mark as shown.

Ser. No. 468,786. M. FLAISHMAN & Co., Philadelphia, Pa. Filed Mar. 29, 1944.



Applicant disclaims the word "Stocking" apart from the mark.

FOR LADIES' HOSIERY.

Claims use since August 1938.

Ser. No. 468,818. JACOB SIEGEL COMPANY, Philadelphia, Pa. Filed Mar. 29, 1944.

VICAR LANE

FOR MEN'S AND YOUNG MEN'S TOPCOATS AND OVERCOATS.

Claims use since September 1943.

Ser. No. 468,894. MICHAELS, STERN & COMPANY, INC., Rochester, N. Y. Filed Mar. 31, 1944.



FOR MEN'S SUITS, VESTS, TROUSERS, TOPCOATS, AND OVERCOATS.

Claims use since December 1937.

Ser. No. 468,912. BETTY BROOKS CO., Huntington Park, Calif. Filed Apr. 1, 1944.

Booksized

FOR MEN'S OUTER SHIRTS, WOMEN'S SHIRTS.

Claims use since Mar. 15, 1944.

Ser. No. 469,049. HYMAN BROS., Philadelphia, Pa. Filed Apr. 5, 1944.



FOR LADIES' AND MISSES' DRESSES.

Claims use since Mar. 1, 1944.

Ser. No. 469,112. H. A. ASTLETT & Co., New York, N. Y. Filed Apr. 7, 1944.

ASTLAMAR

FOR MEN'S AND LADIES' HOSIERY.

Claims use since December 1943.

Ser. No. 469,163. MASON BLOUSE AND SPORTSWEAR, New York, N. Y. Filed Apr. 8, 1944.

RUMPUS

FOR TODDLERS', GIRLS', JUNIOR MISSES' AND MISSES' PLAYSUITS, PINAFORES, AND BLOUSES.

Claims use since July 13, 1943.

Ser. No. 469,168. RAINBOW CHILDREN DRESS CO., New York, N. Y. Filed Apr. 8, 1944.

WINIKINS

FOR GIRLS' AND CHILDREN'S DRESSES, PINAFORES, BLOUSES, SKIRTS, AND DRESS AND JACKET ENSEMBLES.

Claims use since Sept. 6, 1943.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 466,450. LEHMANN & NAEGELI, New York, N. Y. Filed Jan. 10, 1944.



Applicant disclaims the word "Eyelets" apart from the mark.

FOR SCHIFFLI EMBROIDERED TRIMMINGS—NAMELY, BANDS, EDGINGS, AND GALLOONS.

Claims use since Dec. 20, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 466,806. ANNA RISVOLD, Chicago, Ill. Filed Jan. 22, 1944.



Applicant disclaims the word "Rugs."

FOR WOVEN RUGS.

Claims use since Jan. 10, 1939.

Ser. No. 468,234. EXETER MANUFACTURING COMPANY, Exeter, N. H. Filed Mar. 13, 1944.

SYNCHROLATED

FOR COTTON FABRICS IN THE PIECE.

Claims use since Feb. 8, 1944.

Ser. No. 468,638. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Mar. 24, 1944.

NEEDLETONE

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Jan. 1, 1933.

Ser. No. 468,639. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Mar. 24, 1944.

ZAHDA

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since June 1, 1936.

Ser. No. 468,983. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

LUSTRA-DALE

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Aug. 11, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 465,402. PLASTODENT, INC., New York, N. Y. Filed Nov. 30, 1943.

PLASTO-FILM

Applicant disclaims the word "Film" apart from the mark.
FOR DENTURE MATERIAL FOR AN INVESTMENT SEPARATOR.
Claims use since Aug. 16, 1943.

Ser. No. 465,403. PLASTODENT, INC., New York, N. Y. Filed Nov. 30, 1943.

PLASTOLAIN

FOR DENTURE MATERIAL FOR MAKING JACKETS, BRIDGES, AND INLAYS.
Claims use since Aug. 16, 1943.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 468,088. 1-7-8 COMPANY, San Francisco, Calif. Filed Mar. 8, 1944.

1-7-8

FOR LEMON FLAVORED BEVERAGE BASE FOR MAKING IMITATION LEMON JUICE.
Claims use since Jan. 7, 1944.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 464,497. ROBERT M. PEEK, doing business as Peek Bros. and Superior Flour Company, Little Rock, Ark. Filed Sept. 4, 1943.



The words "Miller's Best" are disclaimed apart from the mark. The drawing is lined for red, blue, and orange.
FOR WHEAT FLOUR.
Claims use since July 25, 1938.

Ser. No. 466,094. MARWYN DAIRY PRODUCTS CORPORATION, Chicago, Ill. Filed Dec. 27, 1943.

MARVALAC

FOR COMPOSITION CONTAINING WHEY, SOYA AND BUTTERMILK SOLIDS SOLD IN DRIED FORM FOR USE IN BAKERY PRODUCTS AND MEAT BINDERS.
Claims use since Oct. 21, 1943.

Ser. No. 466,302. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Jan. 4, 1944.

Amigold STARCH

No claim is made to the exclusive use of the word "Starch" apart from the mark.
FOR STARCH USED FOR FOODS, PARTICULARLY A FLOUR DILUENT.
Claims use since Dec. 10, 1943.

Ser. No. 466,374. MAX AMS, INC., New York, N. Y. Filed Jan. 7, 1944.

TREATEX

FOR FRUIT JAM.
Claims use since Nov. 12, 1943.

Ser. No. 466,864. SHIVA FOOD PRODUCTS CO., New York, N. Y. Filed Jan. 25, 1944.



The Indian letters represent the words "Shiva Fruit Chutney." The words meaning "Fruit Chutney" are disclaimed apart from the mark. The drawing is lined for shading purposes only.
FOR FRUIT CHUTNEY.
Claims use since Nov. 24, 1943.

Ser. No. 468,063. PAUL C. BRAGG, doing business as Burbank Kitchens, Burbank, Calif. Filed Mar. 8, 1944.

BULL TAVERN

FOR POWDERED INGREDIENTS FOR MAKING GRAVY.
Claims use since Dec. 3, 1943.

Ser. No. 468,478. BRYAN S. SMITH, doing business as Bryan Smith Farms, Bakersfield, Calif. Filed Mar. 20, 1944.



FOR FRESH VEGETABLES.
Claims use since October 1942.

Ser. No. 468,654. E. VILLANUEVA, doing business as Mid-Way Produce, Los Angeles, Calif. Filed Mar. 25, 1944.

EVENT

FOR FRESH VEGETABLES.
Claims use since Jan. 24, 1944.

Ser. No. 468,944. BOWERS BROS. INC., Richmond, Va. Filed Apr. 3, 1944.

LUXELLO

FOR COFFEE.
Claims use since 1915.

Ser. No. 468,960. KELLEY-CLARKE CO., Seattle, Wash. Filed Apr. 3, 1944.

Flat Top

FOR CANNED FISH.
Claims use since Mar. 23, 1944.

Ser. No. 468,995. BEACON IMPORTING CO., Boston, Mass. Filed Apr. 4, 1944.

MASTER PACK

Applicant is owner of trade-mark certificate #397,840, dated Sept. 22, 1942. Applicant disclaims the word "Pack" separately from the mark.
FOR CANNED FISH.
Claims use since Mar. 27, 1944.

Ser. No. 469,123. GOODWIN PRESERVING CO., Louisville, Ky. Filed Apr. 7, 1944.

PINELADE

FOR FRUIT JAM.
Claims use since Apr. 1, 1944.

Ser. No. 469,578. RALSTON PURINA COMPANY, St. Louis, Mo. Filed Apr. 22, 1944. Under the act of February 20, 1905, as amended June 10, 1938.

CHEK-R-POULTS

No claim is made to the word "Poults" apart from the mark.
FOR TURKEY POULTS.
Claims use since Apr. 3, 1944.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 452,447. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed Apr. 20, 1942.



The drawing is lined for shading only. All words except "Jamesway" are disclaimed apart from the mark.
FOR WATERING CUPS, WATERING PANS, AND FEEDERS.
Claims use since Nov. 28, 1941.

Ser. No. 464,370. NATIONAL RONZITE INDUSTRIES, Chicago, Ill. Filed Oct. 23, 1943.

RONZITE

FOR PLAQUES WHICH PLAQUES ARE FOR DISPLAY PURPOSES WITH CERTAIN INSIGNIA THEREON RELATIVE TO MEN IN SERVICE AND WHICH HAVE A PLACE THEREON TO PROVIDE INDIVIDUAL NAMES OF THOSE IN SERVICE, THE SAME TO BE ADDED AND MODIFIED FROM TIME TO TIME AS CHANGES OCCUR.
Claims use since Apr. 1, 1942.

Ser. No. 466,636. COLUMBIAN ROPE COMPANY, Auburn, N. Y. Filed Jan. 17, 1944.

Co-Ro-Bend

The word "Bend" is disclaimed apart from the mark.
FOR MOLDED NEEDLED FELTED VEGETABLE FIBRE MATERIALS IN SHEET FORM OR IN CURVED SHAPES CUT THEREFROM FOR REMOLDING IN FINAL SHAPES.
Claims use since Dec. 22, 1943.

Ser. No. 468,231. EATON BROTHERS CORP., Hamburg, N. Y. Filed Mar. 13, 1944.

CHALLENGER

FOR ARTIFICIAL GRASS MATS OR SETS FOR DECORATIVE PURPOSES.
Claims use since Apr. 1, 1934.

Ser. No. 468,232. EATON BROTHERS CORP., Hamburg, N. Y. Filed Mar. 13, 1944.

SUPREME

FOR ARTIFICIAL GRASS MATS OR SETS FOR DECORATIVE PURPOSES.
Claims use since Sept. 1, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 6, 1944

407,392. SOLUBLE SUPPLEMENT USED IN COMBINATION WITH ANIMAL AND POULTRY FEEDS. DAWE'S PRODUCTS CO., Chicago, Ill.
Filed October 26, 1939. Serial No. 424,909. PUBLISHED APRIL 2, 1940. Class 46.

407,393. LUBRICATING FLUID—NAMELY, OIL. FAMOUS LUBRICANTS, INC., Chicago, Ill., assignor to Famous Lubricants, Chicago, Ill., a copartnership.
Filed June 8, 1940. Serial No. 432,813. PUBLISHED AUGUST 6, 1940. Class 15.

407,394. CONFECTIONERY — NAMELY, WRAPPED CHEWING CANDIES, ICE-CREAM, AND FROZEN DESSERTS, AND BAKERY PRODUCTS—NAMELY, CAKES, PIES, COFFEE CAKES, FRENCH AND DANISH PASTRIES, MUFFINS, DOUGHNUTS, BUNS, MERINGUE SHELLS, SOFT ROLLS, COOKIES, PATTY SHELLS, PIE COVERS, CHOCOLATE GINGER BREAD, AND BUTTER HORNS. PIG'N WHISTLE CORPORATION, San Francisco, Calif.
Filed July 2, 1940. Serial No. 433,624. PUBLISHED OCTOBER 12, 1943. Class 46.

407,395. ELECTRIC LAUNDRY WASHERS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed January 14, 1941. Serial No. 439,677. PUBLISHED MARCH 14, 1944. Class 24.

407,396. STATIONERY, SPECIFICALLY INDEX BOOKS, MEMORANDUM BOOKS AND PADS, FILE ENVELOPES, ENVELOPES, TISSUE IN PAPER CONTAINERS, DESK CALENDARS, AND CALENDAR HOLDERS. THE STICKLESS CORPORATION, New York, N. Y.
Filed February 6, 1942. Serial No. 450,818. PUBLISHED MARCH 28, 1944. Class 37.

407,397. MAGAZINE PUBLISHED FROM TIME TO TIME. YOUR HEALTH PUBLICATIONS, INC., New York, N. Y.
Filed August 8, 1942. Serial No. 454,818. PUBLISHED MARCH 21, 1944. Class 38.

407,398. FOOT POWDER. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,671. PUBLISHED MARCH 21, 1944. Class 6.

407,399. COTTON PIECE GOODS, WHITE, DYED, AND PRINTED. CONSOLIDATED TEXTILE CO., INC., New York, N. Y.
Filed September 24, 1942. Serial No. 455,723. PUBLISHED JANUARY 5, 1943. Class 42.

407,400. LABORATORY AND SPECIAL PROFESSIONAL FURNITURE — NAMELY, BENCHES, DESKS, CHAIRS, AND FILING CABINETS, ETC. HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis., and Rahway, N. J.
Filed January 15, 1943. Serial No. 457,934. PUBLISHED MARCH 28, 1944. Class 32.

407,401. MEN'S APPAREL—NAMELY, TROUSERS, BLOUSES, SHIRTS, COATS, AND HATS. THE LILLEY-AMES COMPANY, Columbus, Ohio.
Filed January 22, 1943. Serial No. 458,103. PUBLISHED MARCH 28, 1944. Class 39.

407,402. BABY TURKEYS. RALSTON PURINA COMPANY, St. Louis, Mo.
Filed January 30, 1943. Serial No. 458,249. PUBLISHED MARCH 28, 1944. Class 46.

407,403. MEN'S AND BOYS' HATS, CAPS, OUTER SHIRTS, AND LEATHER DRESS GLOVES. ROGERS PEET COMPANY, New York, N. Y.
Filed March 26, 1943. Serial No. 459,376. PUBLISHED MARCH 28, 1944. Class 39.

407,404. MEDICATED CORN PADS, MEDICATED CORN PLASTER, MEDICATED DISCS FOR CORNS, MEDICATED CALLOUS PADS, ETC. FOREST CITY PRODUCTS, INC., Cleveland, Ohio.
Filed March 31, 1943. Serial No. 459,539. PUBLISHED MARCH 21, 1944. Class 6.

407,405. WOOLEN PIECE GOODS. BOTANY WORSTED MILLS, Passaic, N. J.
Filed April 6, 1943. Serial No. 459,651. PUBLISHED MARCH 21, 1944. Class 42.

407,406. ADHESIVES CONTAINING NATURAL GUMS, ANIMAL OR FISH GLUE, FLOUR, SYNTHETIC RESINS, OR SYNTHETIC RUBBER-LIKE MATERIALS, OR COMBINATIONS THEREOF. UNITED SHOE MACHINERY CORPORATION, Boston, Mass.
Filed April 24, 1943. Serial No. 460,164. PUBLISHED MARCH 28, 1944. Class 5.

407,407. CIGARETTES AND SMOKING TOBACCO. THE BUGLER BRAND AND AGENCIES LTD., Vancouver, British Columbia, Canada.
Filed April 29, 1943. Serial No. 460,249. PUBLISHED MARCH 28, 1944. Class 17.

407,408. LADDERS. THE J. R. CLARK COMPANY, Minneapolis, Minn.
Filed April 30, 1943. Serial No. 460,288. PUBLISHED MARCH 28, 1944. Class 50.

407,409. LADIES' AND MISSES' DRESSES, BLOUSES, SUITS, COATS, SLACKS, PLAYSUITS, AND WORK SUITS. DAVID CRYSTAL, INC., New York, N. Y.
Filed May 18, 1943. Serial No. 460,690. PUBLISHED MARCH 28, 1944. Class 39.

407,410. FRESH VEGETABLES. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Calif.
Filed June 4, 1943. Serial No. 461,148. PUBLISHED MARCH 28, 1944. Class 46.

407,411. DEHYDRATED FRUITS AND VEGETABLES. VALLEY EVAPORATING COMPANY, Yakima, Wash.
Filed June 28, 1943. Serial No. 461,725. PUBLISHED JANUARY 11, 1944. Class 46.

407,412. PERFUMES AND COSMETICS — NAMELY, FACE POWDERS, EYE CREAMS, NIGHT CREAMS, BEAUTY CREAMS, BEAUTY MILK, LIPSTICK, AND ROUGE. REINE, INC., New York, N. Y.
Filed July 1, 1943. Serial No. 461,809. PUBLISHED MARCH 21, 1944. Class 6.

407,413. NURSERY PRODUCTS — NAMELY, ALL TYPES OF SHRUBS, TREES, PLANTS, BLOOMING PLANTS, AND BERRY PLANTS, AND PRODUCTS OF THE NURSERY—NAMELY, CUT FLOWERS, SEEDS, AND BULBS. GREEN THUMB GARDENS, Arcanum, Ohio.
Filed July 6, 1943. Serial No. 461,889. PUBLISHED MARCH 28, 1944. Class 1.

407,414. UNIFORM CAPS AND HATS FOR MEN, WOMEN, AND CHILDREN. LEE UNIFORM CAP MANUFACTURING COMPANY, Baltimore, Md.
Filed July 6, 1943. Serial No. 461,891. PUBLISHED MARCH 28, 1944. Class 39.

407,415. PERIODICAL PUBLISHED FROM TIME TO TIME. ARTHUR J. THOMA, Springfield, Mass.
Filed July 8, 1943. Serial No. 461,938. PUBLISHED MARCH 21, 1944. Class 38.

407,416. CLEANING COMPOUNDS FOR LINEN, SILK, AND OTHER TEXTILES IN LIQUID AND IN SOLID FORM; SPOT REMOVER, PAINT AND GREASE REMOVER, AND NEUTRAL SOAPS. W. P. BALLARD & COMPANY, Birmingham, Ala.
Filed July 3, 1943. Serial No. 461,993. PUBLISHED MARCH 28, 1944. Class 4.

407,417. CLEANSING PREPARATION CONSISTING PRINCIPALLY OF TRI-SODIUM PHOSPHATE AND ADAPTED FOR GENERAL CLEANING USES AND HAVING INCIDENTAL WATER SOFTENING PROPERTIES. PLEE-ZING, INC., Chicago, Ill.
Filed July 21, 1943. Serial No. 462,211. PUBLISHED MARCH 28, 1944. Class 4.

407,418. LADIES', MISSES' AND CHILDREN'S PANTIES, STEP-IN UNDERDRAWERS, BANDEAUX, VESTS, SLIPS, NIGHTGOWNS, CHEMISES, BLOOMERS, AND PAJAMAS. KRUMHOLZ & LICHTBLAU, doing business as KelRay Knitting Mills, New York, N. Y.
Filed July 23, 1943. Serial No. 462,256. PUBLISHED MARCH 28, 1944. Class 39.

407,419. ALGIN PRODUCT FOR USE IN WATER PAINTS AS A SUSPENDING AND VISCOSITY CONTROLLING AGENT AND TO IMPROVE THE BRUSHING CHARACTERISTICS. KELCO COMPANY, San Diego, Calif.
Filed July 26, 1943. Serial No. 462,316. PUBLISHED SEPTEMBER 28, 1943. Class 16.

407,420. BACTERIOSTATIC SULFONE COMPOUND. ABBOTT LABORATORIES, North Chicago, Ill.
Filed August 9, 1943. Serial No. 462,609. PUBLISHED OCTOBER 12, 1943. Class 6.

407,421. FABRICATION OF AGUARDIENTE (ALCOHOL DISTILLED FROM SUGAR CANE) AND WINE. MANUEL FERNANDEZ DIAZ, Mexico City, Mexico.
Filed August 17, 1943. Serial No. 462,795. PUBLISHED FEBRUARY 22, 1944. Class 49.

407,422. LIQUID ANTISEPTIC. GUY H. POLING, doing business as Poling Chemical Co., Minneapolis, Minn.
Filed August 25, 1943. Serial No. 463,001. PUBLISHED MARCH 21, 1944. Class 6.

407,423. MEDICINE FOR THE TREATMENT OF CANCER. AGNES MIKLAS, South Fork, Pa.
Filed August 26, 1943. Serial No. 463,026. PUBLISHED OCTOBER 26, 1943. Class 6.

407,424. NON-SENSITIZED PHOTOGRAPHIC FILM. COLONIAL PROCESS SUPPLY CO., New York, N. Y.
Filed September 4, 1943. Serial No. 463,227. PUBLISHED MARCH 14, 1944. Class 50.

407,425. PAINTS IN PASTE FORM, VARNISHES, AND LACQUERS. COLONIAL PROCESS SUPPLY CO., New York, N. Y.
Filed September 4, 1943. Serial No. 463,228. PUBLISHED MARCH 21, 1944. Class 16.

407,426. OIL ABSORBING MINERAL COMPOUND USED FOR ABSORBING MINERAL AND VEGETABLE OILS AND WATER-SOLUBLE CUTTING OILS. TROJAN PRODUCTS & MFG. CO., Chicago, Ill.
Filed September 10, 1943. Serial No. 463,339. PUBLISHED MARCH 14, 1944. Class 6.

407,427. MATCHES. AMERICA'S OWN MATCH COMPANY, New York, N. Y.
Filed September 13, 1943. Serial No. 463,369. PUBLISHED MARCH 21, 1944. Class 9.

407,428. MATCHES. AMERICA'S OWN MATCH COMPANY, New York, N. Y.
Filed September 13, 1943. Serial No. 463,370. PUBLISHED MARCH 21, 1944. Class 9.

407,429. MATCHES. AMERICA'S OWN MATCH COMPANY, New York, N. Y.
Filed September 13, 1943. Serial No. 463,372. PUBLISHED MARCH 21, 1944. Class 9.

407,430. ROACH INSECTICIDE. WILLIAM M. GOULD, Houston, Tex.
Filed September 20, 1943. Serial No. 463,516. PUBLISHED MARCH 21, 1944. Class 6.

407,431. LAUNDRY STARCH. THE HUBINGER CO., Keokuk, Iowa.
Filed September 21, 1943. Serial No. 463,542. PUBLISHED NOVEMBER 30, 1943. Class 6.

407,432. SUSPENSOIDS, EMULSIONS AND MEDICAMENT VEHICLES FOR TREATMENT OF THE SKIN OF HUMAN BEINGS, INCLUDING PARTICULARLY IRRITATIONS, BURNS AND CUTS. HOSPITAL LIQUIDS, INC., Chicago, Ill.
Filed September 30, 1943. Serial No. 463,783. PUBLISHED DECEMBER 7, 1943. Class 6.

407,433. ELECTRONIC DEVICE FOR RECTIFYING A. C. CURRENT INTO D. C. CURRENT. DAVID A. MARCUS, doing business as Electronic Specialty Co., Los Angeles, Calif.
Filed October 8, 1943. Serial No. 464,003. PUBLISHED MARCH 28, 1944. Class 21.

407,434. SCOTCH WHISKY. THE DISTILLERS AGENCY LIMITED, Edinburgh, Scotland.
Filed October 12, 1943. Serial No. 464,082. PUBLISHED FEBRUARY 29, 1944. Class 49.

407,435. PRODUCT COMPRISING DRY SOLUBLE ALKALINE POWDERS FOR CLEANING, CLEANSING, SCRUBBING, SCOURING AND WASHING FOR LAUNDRY, FACTORY AND HOUSEHOLD USES. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich.
Filed October 14, 1943. Serial No. 464,152. PUBLISHED MARCH 28, 1944. Class 4.

407,436. COMBS, BOBBY PINS, AND HAIR PINS. ISAAC I. MARRUS, New York, N. Y.
Filed October 27, 1943. Serial No. 464,440. PUBLISHED MARCH 28, 1944. Class 40.

407,437. COMPASS REPEATERS, COMPASS CONTROLLED DIRECTIONAL GYROSCOPES, EARTH INDUCTOR COMPASSES, AND REMOTE READING COMPASSES. SPERRY GYROSCOPE COMPANY, INC., Brooklyn, N. Y.
Filed October 27, 1943. Serial No. 464,449. PUBLISHED MARCH 28, 1944. Class 26.

407,438. COMFORTABLES. THE NEW HAVEN QUILT & PAD COMPANY, New Haven, Conn.
Filed November 1, 1943. Serial No. 464,582. PUBLISHED MARCH 28, 1944. Class 42.

407,439. MONTHLY MAGAZINE. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y.
Filed November 3, 1943. Serial No. 464,645. PUBLISHED MARCH 28, 1944. Class 38.

407,440. METALLIC SOAP COMPOSITION FOR THICKENING OILS AND FOR PRODUCING LUBRICATING GREASES. METASAP CHEMICAL COMPANY, Harrison, N. J.
Filed November 3, 1943. Serial No. 464,656. PUBLISHED MARCH 14, 1944. Class 6.

407,441. VITAMIN CAPSULES. W. S. THOMPSON PRODUCTS, INC., Washington, D. C.
Filed November 5, 1943. Serial No. 464,768. PUBLISHED JANUARY 11, 1944. Class 6.

407,442. NOODLES. MAX AMS INC., New York, N. Y.
Filed November 6, 1943. Serial No. 464,772. PUBLISHED MARCH 28, 1944. Class 46.

407,443. LADIES' AND MISSES' SHOES AND SLIPPERS MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITIONS, OR COMBINATIONS THEREOF. SHERMAN BROS. MANUFACTURING CO. INC., South Norwalk, Conn.
Filed November 6, 1943. Serial No. 464,799. PUBLISHED MARCH 21, 1944. Class 39.

407,444. NEWSPAPER PUBLISHED PERIODICALLY. THE TOLEDO BLADE COMPANY, Toledo, Ohio.
Filed November 10, 1943. Serial No. 464,905. PUBLISHED MARCH 28, 1944. Class 38.

407,445. STORE DISPLAY FIXTURES—NAMELY, CABINETS, STANDS, TABLES, AND COUNTERS: GARAGE PARTS BINS; AND STEEL SHELVING. AURORA EQUIPMENT COMPANY, Aurora, Ill.
Filed November 12, 1943. Serial No. 464,935. PUBLISHED MARCH 28, 1944. Class 32.

407,446. 1-METHYL-3-DIMETHYL-CYCLOHEXANOL-(5) HAVING THE CHARACTERISTIC ODOR AND COOLING EFFECT OF MENTHOL AND USED AS A SUBSTITUTE FOR MENTHOL. FRIES BROS., INC., New York, N. Y.
Filed November 18, 1943. Serial No. 465,105. PUBLISHED JANUARY 18, 1944. Class 6.

407,447. NASAL PROPHYLACTIC. WALLACE G. MCCAULEY, doing business as Illinois Remedial Company, Chicago, Ill.
Filed November 25, 1943. Serial No. 465,349. PUBLISHED MARCH 14, 1944. Class 6.

407,448. CLEANING CRYSTALS. WILLIAM ALT, doing business as Three Star Products, Chicago, Ill.
Filed November 29, 1943. Serial No. 465,351. PUBLISHED MARCH 28, 1944. Class 4.

407,449. KITCHEN CABINET BASE UNITS, KITCHEN CABINET WALL UNITS, KITCHEN BROOM STORAGE UNITS, KITCHEN SHELF UNITS, AND KITCHEN COUNTER TOPS. THE KITCHEN MAID CORPORATION, Andrews, Ind.
Filed November 29, 1943. Serial No. 465,363. PUBLISHED MARCH 28, 1944. Class 32.

407,450. DISH WASHING COMPOUND. FULD BROS., also doing business as George Stuart Timesavers, Baltimore, Md.
Filed December 3, 1943. Serial No. 465,473. PUBLISHED MARCH 28, 1944. Class 4.

407,451. LIQUID AND SOLID DEODORANTS WHICH ARE EMPLOYED FOR THE PURPOSE OF REMOVING BLEACH AND HAVE NO BLEACHING PROPERTIES OF THEIR OWN. CHLORINE SOLUTIONS, INC., Los Angeles, Calif.
Filed December 6, 1943. Serial No. 465,526. PUBLISHED MARCH 14, 1944. Class 6.

407,452. LIQUID AND SOLID DEODORANTS WHICH ARE EMPLOYED FOR THE PURPOSE OF REMOVING BLEACH AND HAVE NO BLEACHING PROPERTIES OF THEIR OWN. CHLORINE SOLUTIONS, INC., Los Angeles, Calif.
Filed December 6, 1943. Serial No. 465,527. PUBLISHED MARCH 21, 1944. Class 6.

407,453. BAR MIXER FOR ALCOHOLIC DRINKS. TRESCO & ASSOCIATES, INCORPORATED, Detroit, Mich.
Filed December 6, 1943. Serial No. 465,589. PUBLISHED FEBRUARY 29, 1944. Class 49.

407,454. DRY CLEANERS AND SOAPS. BESSIE GOODMAN, doing business as The Nomayde Company, Brooklyn, N. Y.
Filed December 8, 1943. Serial No. 465,624. PUBLISHED MARCH 28, 1944. Class 4.

407,455. AGENTS ACTING AS A RESIST FOR WOOL AND USED PRINCIPALLY IN A DYE BATH. P. JOSEPH COLLINS, doing business as Atlas Color & Chemical Co., Boston, Mass.
Filed December 9, 1943. Serial No. 465,646. PUBLISHED MARCH 14, 1944. Class 6.

407,456. TOOTH POWDER. FRANK KEEVE, New York, N. Y.
Filed December 10, 1943. Serial No. 465,682. PUBLISHED MARCH 21, 1944. Class 6.

407,457. NONALCOHOLIC MALTLESS BEVERAGES, AND PARTICULARLY FOR CARBONATED BEVERAGES CONTAINING A FLAVORING SYRUP. LEO PETERS, Oklahoma City, Okla.
Filed December 10, 1943. Serial No. 465,690. PUBLISHED MARCH 14, 1944. Class 45.

407,458. PIECE GOODS OF SILK, RAYON OR COTTON; SHEETING; MATTRESS COVERS; PILLOW COVERS; OILED SILK PIECE GOODS; AND OILED MIXED COTTON AND RAYON PIECE GOODS. WASCO OILSILK PRODUCTS COMPANY, New York, N. Y.
Filed December 10, 1943. Serial No. 465,701. PUBLISHED MARCH 28, 1944. Class 42.

407,459. NON-IRRADIATED DRIED YEAST; IRRADIATED DRIED YEAST; ERGOSTEROL, YEAST EXTRACT; A PRODUCT CONTAINING YEAST EXTRACT AND LIVER; ETC. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed December 11, 1943. Serial No. 465,720. PUBLISHED MARCH 21, 1944. Class 6.

407,460. BOWLING ALLEY BED AND GUTTER BRUSHES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill.
Filed December 13, 1943. Serial No. 465,730. PUBLISHED MARCH 28, 1944. Class 29.

407,461. METAL HOSE COUPLINGS. ANDERSON FIRE FIGHTING EQUIPMENT COMPANY, INC., New York, N. Y.
Filed December 14, 1943. Serial No. 465,752. PUBLISHED MARCH 28, 1944. Class 13.

407,462. FOUNTAIN PENS. HENRY GEORGE MARTIN, Buenos Aires, Argentina.
Filed December 15, 1943. Serial No. 465,781. PUBLISHED MARCH 28, 1944. Class 37.

407,463. FOOT OINTMENT PARTICULARLY ADAPTED FOR TIRED, SORE, SMARTING, AND ACHING FEET, AND HAVING INCIDENTAL DEODORIZING, COOLING AND SOOTHING PROPERTIES; FOR TREATING ATHLETE'S FOOT AND FOR RELIEVING THE SORENESS IN CORNS AND BUNIONS. THE W. ELSWORTH CO., New Haven, Conn., assignor to William E. Pelcher, New Haven, Conn.
Filed December 16, 1943. Serial No. 465,796. PUBLISHED MARCH 21, 1944. Class 6.

407,464. ORGANIC CHEMOTHERAPEUTIC PRODUCTS FOR THE TREATMENT OF INFECTIONS OF PNEUMOCOCCIC, STREPTOCOCCIC, MENINGOCOCCIC AND COLI; ETC. GEIGY COMPANY, INC., New York, N. Y.
Filed December 16, 1943. Serial No. 465,803. PUBLISHED MARCH 14, 1944. Class 6.

407,465. CHEMICAL PRODUCT USED IN WATER TREATING FOR SCALE AND CORROSION CONTROL. D. W. HAERING & CO., INC., Chicago, Ill.
Filed December 16, 1943. Serial No. 465,805. PUBLISHED MARCH 21, 1944. Class 6.

407,466. RAYON, COTTON, WOOL, WORSTED, AND SILK PIECE GOODS. WESLEY SIMPSON INC., New York, N. Y.
Filed December 16, 1943. Serial No. 465,832. PUBLISHED MARCH 21, 1944. Class 42.

407,467. CHEMICAL COMPOSITIONS FOR THE CONTROL OF ACID PICKLING BATHS FOR METALS. LOTTE CHEMICAL COMPANY, INC., Paterson, N. J.
Filed December 17, 1943. Serial No. 465,845. PUBLISHED MARCH 14, 1944. Class 6.

407,468. PREPARATION FOR ALLEVIATING PAIN WHILE UNDERGOING DENTAL TREATMENT AND FOR THE RELIEF OF TOOTHACHE. E. MARTIN STEINLAUF, doing business as The Carvacrol Mfg. Co., Norwalk, Conn.
Filed December 17, 1943. Serial No. 465,853. PUBLISHED MARCH 14, 1944. Class 6.

407,469. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, EAU DE COLOGNE, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES. COTY, INC., New York, N. Y.
Filed December 20, 1943. Serial No. 465,894. PUBLISHED MARCH 21, 1944. Class 6.

407,470. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,901. PUBLISHED MARCH 21, 1944. Class 38.

407,471. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,905. PUBLISHED MARCH 21, 1944. Class 38.

407,472. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,906. PUBLISHED MARCH 21, 1944. Class 38.

407,473. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,907. PUBLISHED MARCH 21, 1944. Class 38.

407,474. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,908. PUBLISHED MARCH 21, 1944. Class 38.

407,475. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,910. PUBLISHED MARCH 21, 1944. Class 38.

407,476. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,911. PUBLISHED MARCH 21, 1944. Class 38.

407,477. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,913. PUBLISHED MARCH 21, 1944. Class 38.

407,478. TOILET WATER. LUCIEN LELONG, INC., Chicago, Ill.
Filed December 20, 1943. Serial No. 465,924. PUBLISHED MARCH 14, 1944. Class 6.

407,479. CHILDREN'S AND INFANTS' OVERALLS. MCLELLAN STORES COMPANY, New York, N. Y.
Filed December 20, 1943. Serial No. 465,925. PUBLISHED MARCH 28, 1944. Class 39.

407,480. SUSPENDERS, BELTS IN THE NATURE OF GARMENT SUPPORTERS, MEN'S NECKTIES, AND GARTERS. JACOB WECHSLER & SONS, New York, N. Y.
Filed December 20, 1943. Serial No. 465,934. PUBLISHED MARCH 21, 1944. Class 39.

407,481. PHOTOGRAPHIC CHEMICALS — NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed December 21, 1943. Serial No. 465,945. PUBLISHED MARCH 21, 1944. Class 6.

407,482. WOMEN'S, MISSES', AND CHILDREN'S GIRDLES, PANTY GIRDLES, CORSETS, BRASSIÈRES; LINGERIE—NAMELY, PANTIES, SLIPS, GOWNS, PAJAMAS, NEGLIGEES, AND CHEMISES; SPORTS WEAR — NAMELY, SHORTS, SLACKS, SKIRTS, SPORT SHIRTS, BLOUSES, AND PAJAMAS; AND SWIMMING SUITS AND TRUNKS. ROY J. MEEKER, Los Angeles, Calif.
Filed December 21, 1943. Serial No. 465,953. PUBLISHED MARCH 28, 1944. Class 39.

407,483. PERFUMES. LEONARD S. REICH, doing business as Stephen Lawrence Co. and Parfums Renel, Mount Vernon, N. Y.
Filed December 21, 1943. Serial No. 465,956. PUBLISHED MARCH 21, 1944. Class 6.

407,484. FINGER-RINGS AND BROOCHES MADE OF PRECIOUS METALWARE. COLONIAL MFG. CO. INC., New York, N. Y.
Filed December 22, 1943. Serial No. 465,974. PUBLISHED MARCH 28, 1944. Class 28.

407,485. ELECTRIC LIGHTING FIXTURES FOR FLUORESCENT LAMPS. THE EDWIN F. GUTH COMPANY, St. Louis, Mo.
Filed December 24, 1943. Serial No. 466,040. PUBLISHED MARCH 28, 1944. Class 21.

407,486. LOUNGE CHAIRS. STUDIOS, INC., Waltham, Mass.
Filed December 24, 1943. Serial No. 466,054. PUBLISHED MARCH 28, 1944. Class 32.

407,487. PRINTED PUBLICATION IN THE NATURE OF A HOUSE ORGAN AND ISSUED FROM TIME TO TIME. THE PARKER APPLIANCE COMPANY, Cleveland, Ohio.
Filed December 27, 1943. Serial No. 466,100. PUBLISHED MARCH 21, 1944. Class 38.

407,488. WOOLEN FABRICS IN THE PIECE. TERHUNE, YEREANCE & WOLFF, INC., New York, N. Y.
Filed December 28, 1943. Serial No. 466,131. PUBLISHED MARCH 28, 1944. Class 42.

407,489. WOOLEN AND WORSTED FABRICS IN THE PIECE. ISIDORE SMITH, New York, N. Y.
Filed December 29, 1943. Serial No. 466,178. PUBLISHED MARCH 28, 1944. Class 42.

407,490. FILTER CLOTH. THE VARNITON COMPANY, Los Angeles, Calif.
Filed December 29, 1943. Serial No. 466,184. PUBLISHED MARCH 28, 1944. Class 42.

407,491. WATCHES, WATCH-MOVEMENTS, WATCH CASES AND PARTS THEREOF. LOUIS HIRSCH DE METZ COMPANY, New York, N. Y.
Filed December 30, 1943. Serial No. 466,194. PUBLISHED MARCH 28, 1944. Class 27.

407,492. MAILING CARTONS WITH ADJUSTABLE DIVIDERS MADE OF CORRUGATED BOARD AND SOLD EMPTY. HENRY PHILLIPS, doing business as The Carto-Pack Company, Grand Rapids, Mich.
Filed December 31, 1943. Serial No. 466,229. PUBLISHED MARCH 28, 1944. Class 2.

407,493. SIRUPS FOR MAKING SOFT DRINKS. THE WHIPPLE COMPANY, Natick, Mass.
Filed December 31, 1943. Serial No. 466,244. PUBLISHED MARCH 14, 1944. Class 45.

407,494. TOILET SOAPS. CAMPANA SALES COMPANY, Batavia, Ill.
Filed January 1, 1944. Serial No. 466,251. PUBLISHED MARCH 28, 1944. Class 4.

407,495. COLOGNES AND PERFUMERY. CAMPANA SALES COMPANY, Batavia, Ill.
Filed January 1, 1944. Serial No. 466,252. PUBLISHED MARCH 21, 1944. Class 6.

407,496. QUATERNARY AMMONIUM ANTISEPTIC COMPOUND FOR INDUSTRIAL ANTISEPTIC PURPOSES. ONYX OIL & CHEMICAL COMPANY, Jersey City, N. Y.
Filed January 4, 1944. Serial No. 466,308. PUBLISHED MARCH 14, 1944. Class 6.

407,497. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. ERWIN CAMP, doing business as Camp Hosiery Mills, New York, N. Y.
Filed January 5, 1944. Serial No. 466,321. PUBLISHED MARCH 28, 1944. Class 39.

407,498. GRANULAR RESINOUS MATERIAL. WM. ZINSSER & CO. INC., New York, N. Y.
Filed January 5, 1944. Serial No. 466,338. PUBLISHED MARCH 28, 1944. Class 1.

407,499. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. CHARLES A. EATON COMPANY, Brockton, Mass.
Filed January 6, 1944. Serial No. 466,347. PUBLISHED MARCH 28, 1944. Class 39.

407,500. COUGH DROPS. GALLOWHUR CHEMICAL CORPORATION, Windsor, Vt.
Filed January 7, 1944. Serial No. 466,376. PUBLISHED MARCH 21, 1944. Class 6.

407,501. LAUNDRY STARCH. ONCE LIFETIME STARCH CO., NOT INC., Chicago, Ill.
Filed January 7, 1944. Serial No. 466,383. PUBLISHED MARCH 14, 1944. Class 6.

407,502. PAINTINGS (BOTH OIL AND WATER-COLOR) AND DRAWINGS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 6, 1944. Serial No. 466,392. PUBLISHED MARCH 14, 1944. Class 38.

407,503. PERFUMES, TOILET WATERS, AND BATH SALTS. CHARLES OF THE RITZ, INC., New York, N. Y.
Filed January 8, 1944. Serial No. 466,404. PUBLISHED MARCH 21, 1944. Class 6.

407,504. CIRCULARS, BOOKLETS, AND PRINTED ADVERTISING MATERIAL SOLD AS SUCH TO THE ELECTRICAL INDUSTRY. ASHTON B. COLLINS, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y.
Filed January 10, 1944. Serial No. 466,430. PUBLISHED MARCH 21, 1944. Class 38.

407,505. CIRCULARS, BOOKLETS, AND PRINTED ADVERTISING MATERIAL SOLD AS SUCH TO THE ELECTRICAL INDUSTRY. ASHTON B. COLLINS, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y.
Filed January 10, 1944. Serial No. 466,431. PUBLISHED MARCH 21, 1944. Class 38.

407,506. BIBLES, TESTAMENTS, PRAYER AND SIMILAR BOOKS. NATIONAL PUBLISHING COMPANY, Philadelphia, Pa.
Filed January 10, 1944. Serial No. 466,455. PUBLISHED MARCH 21, 1944. Class 38.

407,507. BEAD NECKLACES. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 11, 1944. Serial No. 466,496. PUBLISHED MARCH 28, 1944. Class 28.

407,508. CANOES IN THE NATURE OF A ROOM DECORATION (MINIATURE CANOES USED AS ORNAMENTS); GRASS AND/OR WOODSPLINT TABLE MATS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 11, 1944. Serial No. 466,498. PUBLISHED MARCH 28, 1944. Class 50.

407,509. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, WOOL, AND COMBINATIONS THEREOF. SHIRLEY FABRICS CORP., New York, N. Y.
Filed January 12, 1944. Serial No. 466,514. PUBLISHED MARCH 28, 1944. Class 42.

407,510. INSECTICIDE. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed January 12, 1944. Serial No. 466,517. PUBLISHED MARCH 21, 1944. Class 6.

407,511. LEATHER. A. C. LAWRENCE LEATHER COMPANY, Peabody, Mass.
Filed January 13, 1944. Serial No. 466,534. PUBLISHED MARCH 28, 1944. Class 1.

407,512. ABRASIVE PRODUCTS — NAMELY, ABRASIVE STONES, ABRASIVE STICKS, ABRASIVE BRICKS, AND ABRASIVE SEGMENTS; ABRASIVE, GRINDING, LAPPING, SHARPENING, AND POLISHING WHEELS; ABRASIVE, LAPPING, AND POLISHING GRAINS OR POWDERS. NORTON COMPANY, Worcester, Mass.
Filed January 13, 1944. Serial No. 466,537. PUBLISHED MARCH 28, 1944. Class 4.

407,513. ABRASIVE PRODUCTS — NAMELY, ABRASIVE STONES, ABRASIVE STICKS, ABRASIVE BRICKS, AND ABRASIVE SEGMENTS; ABRASIVE, GRINDING, LAPPING, SHARPENING, AND POLISHING WHEELS; ABRASIVE, LAPPING, AND POLISHING POWDERS. NORTON COMPANY, Worcester, Mass.
Filed January 13, 1944. Serial No. 466,538. PUBLISHED MARCH 28, 1944. Class 4.

407,514. PERFUMES, TOILET WATERS, BATH POWDERS, AND LOTIONS. PARFUMS BLANCHARD, New York, N. Y.
Filed January 13, 1944. Serial No. 466,539. PUBLISHED MARCH 21, 1944. Class 6.

407,515. LANOLIN SUBSTITUTE COMPOSED OF VEGETABLE GLYCERIDES, NON-VOLATILE PETROLEUM FRACTIONS, AND PHOSPHATIDES. VEJIN, INC., Cincinnati, Ohio.
Filed January 14, 1944. Serial No. 466,598. PUBLISHED MARCH 21, 1944. Class 6.

407,516. THREADS. MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo.
Filed January 15, 1944. Serial No. 466,617. PUBLISHED MARCH 28, 1944 Class 43.

407,517. SHOP BULLETIN ISSUED PERIODICALLY. NORTH AMERICAN AVIATION, INC., Inglewood, Calif.
Filed January 15, 1944. Serial No. 466,619. PUBLISHED MARCH 14, 1944. Class 38.

407,518. LAUNDRY SOUR. THE SPEARE SUPPLY COMPANY, Chicago, Ill.
Filed January 15, 1944. Serial No. 466,625. PUBLISHED MARCH 21, 1944. Class 6.

407,519. SHOE AND BOOT POLISH. GENERAL SHOE CORPORATION, Nashville, Tenn.
Filed January 19, 1944. Serial No. 466,695. PUBLISHED MARCH 28, 1944. Class 4.

407,520. LADIES' COMPACTS OF PLASTIC OR COMPOSITION, OR OF BASE OR INFERIOR METAL, OR OF A COMBINATION OF THESE, CONTAINING POWDER PUFFS. NATIONAL SILVER COMPANY, New York, N. Y.
Filed January 20, 1944. Serial No. 466,738. PUBLISHED MARCH 28, 1944. Class 2.

407,521. HANDBAGS. EASTERN MFG. CO., doing business as Betsy Bag Co., Boston, Mass.
Filed January 21, 1944. Serial No. 466,755. PUBLISHED MARCH 28, 1944. Class 3.

407,522. MEN'S OUTER SHIRTS. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed January 21, 1944. Serial No. 466,761. PUBLISHED MARCH 28, 1944. Class 39.

407,523. POLYVINYL RESINS USEFUL FOR CONVERSION INTO FINISHED PRODUCTS. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed January 22, 1944. Serial No. 466,791. PUBLISHED MARCH 28, 1944. Class 1.

407,524. LADIES' AND MISSES' BLOUSES, VESTEES, AND JACKETS. SICA BROS., New York, N. Y.
Filed January 25, 1944. Serial No. 466,865. PUBLISHED MARCH 28, 1944. Class 39.

407,525. LADIES' AND MISSES' VESTEES. HELENE PONS, New York, N. Y.
Filed January 27, 1944. Serial No. 466,928. PUBLISHED MARCH 28, 1944. Class 39.

407,526. RAYON PIECE GOODS, COTTON PIECE GOODS, AND COMBINATIONS OF THE SAME. J. ROSENHOLZ, INC., New York, N. Y.
Filed January 28, 1944. Serial No. 466,952. PUBLISHED MARCH 28, 1944. Class 42.

407,527. FRESH VEGETABLES. J. R. BARNETT, Harlingen, Tex.
Filed January 29, 1944. Serial No. 466,971. PUBLISHED MARCH 28, 1944. Class 46.

407,528. BASE-METAL TRUCK-CAR AND SHIPPING-CASE SEALS, SEALS FOR CONTAINERS AND PACKAGES, AND SEALS FOR TAGS. E. J. BROOKS COMPANY, Newark, N. J.
Filed January 29, 1944. Serial No. 466,972. PUBLISHED MARCH 28, 1944. Class 25.

407,529. ACRYLIC DENTURE BASE MATERIAL. THE MOTLOID CO., INC., Chicago, Ill.
Filed January 31, 1944. Serial No. 467,042. PUBLISHED MARCH 28, 1944. Class 44.

407,530. CANDY. PANGBURN COMPANY, INC., Fort Worth, Tex.
Filed January 31, 1944. Serial No. 467,045. PUBLISHED MARCH 28, 1944. Class 46.

407,531. DOLLS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed February 1, 1944. Serial No. 467,080. PUBLISHED MARCH 28, 1944. Class 22.

407,532. LEATHER BASKETS, LEATHER WASTEPAPER BASKETS, AND LEATHER BOXES. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed February 1, 1944. Serial No. 467,079. PUBLISHED MARCH 28, 1944. Class 2.

407,533. WILLOW BED-ENDS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed February 1, 1944. Serial No. 467,082. PUBLISHED MARCH 28, 1944. Class 32.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,534. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) KENDRICK & LINDBLAD, Aurora and Alton, Ill. Filed Dec. 9, 1939. Serial No. 426,409.

Kendrick OPTOMETRISTS & Lindblad OPTICIANS

FOR OPHTHALMIC LENSES, SPECTACLE FRAMES, AND SPECTACLE CASES.
Claims use since Jan. 1, 1934.

407,535. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed Oct. 11, 1940. Serial No. 436,848.

BROODERETTE

FOR CHICK BROODERS.
Claims use since Oct. 5, 1940.

407,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y. Filed Feb. 17, 1941. Serial No. 440,736.

GRAV-I-AID

FOR FOOD FLAVORING PREPARATION CONTAINING VEGETABLE EXTRACTIVES.
Claims use since May 31, 1931.

407,537. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Mar. 26, 1941. Serial No. 441,947.

dual DUPLICATOR

FOR DUPLICATING MACHINES, MORE PARTICULARLY, PRINTING PRESSES.
Claims use since Dec. 16, 1940.

407,538. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BARTH-FEINBERG, INC., New York, N. Y. Filed Aug. 4, 1941. Serial No. 445,911.

MARWIN

FOR MUSICAL STRING INSTRUMENTS OF THE BOW TYPE—NAMELY, VIOLINS, VIOLAS, CELLOS, BASSES; MUSICAL STRING INSTRUMENTS OF THE FRETTED TYPE—NAMELY, GUITARS, TENOR GUITARS, MANDOLINS, BANJO MANDOLINS, TENOR BANJOS, FIVE STRING BANJOS, UKULELES, TIPLES; MUSICAL BAND INSTRUMENTS—NAMELY, SAXOPHONES, CORNETS, TRUMPETS, TROMBONES, FRENCH HORNS, ALTO HORNS, MELLOPHONES, BARITONES, BASS HORNS, SOUSAPHONES, PICCOLOS, FLUTES; MUSICAL WIND INSTRUMENTS—NAMELY, CLARINETS, OBOES, BASSOONS, ENGLISH HORNS; MUSICAL PERCUSSION INSTRUMENTS—NAMELY, DRUMS, TYMPANII, CYMBALS, TOM TOMS; MUSICAL ELECTRICALLY AMPLIFIED INSTRUMENTS—NAMELY, ELECTRICALLY AMPLIFIED GUITARS, ELECTRICALLY AMPLIFIED VIOLINS, ELECTRICALLY AMPLIFIED MANDOLINS, ELECTRICALLY AMPLIFIED TENOR BANJOS; MUSICAL ACCORDIONS; MUSICAL CONCERTINAS; MUSICAL HARMONICAS; SOUND EQUIPMENT—NAMELY, AMPLIFIERS FOR PHONOGRAPHS AND TALKING MACHINES; RECORDING EQUIPMENT—NAMELY, PHONOGRAPHIC RECORDING MACHINES AND PHONOGRAPHIC RECORD BLANKS; PHONOGRAPHS; PHONOGRAPH RECORDS; MUSICAL MARIMBAS; MUSICAL XYLOPHONES; MUSICAL VIBRABELLS; MUSICAL VIBRAHARPS; MUSICAL CHIMES; MUSICAL ORCHESTRA BELLS; MUSICAL BUGLES; MUSICAL FIFES; MUSICAL GLOCKENSPIELS; AND MUSICAL BUGLE LYRAS; AND ACCESSORIES FOR ALL OF THE AFOREMENTIONED.
Claims use since October 1934.

407,539. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. E. LUSH, Orange, Calif., assignor to Lush's Luscious Honey, Orange, Calif., a copartnership composed of George L. Ellers and C. E. Lush. Filed Aug. 24, 1942. Serial No. 455,079.



FOR HONEY.
Claims use since Feb. 25, 1925.

407,540. (CLASS 47. WINES.) AUSTIN, NICHOLS & CO., INCORPORATED, Brooklyn, N. Y. Filed Mar. 13, 1943. Serial No. 459,066.

Chapelle

Austin Nichols & Co.

Applicant is the owner of Reg. Nos. 348,739 and 349,355, effected under the 10-year proviso of the act of Feb. 20, 1905.
FOR CHAMPAGNE AND SPARKLING BURGUNDY WINE.
Claims use since Dec. 30, 1942; and since Jan. 1, 1879 as to the words "Austin, Nichols & Co." and the initials therefor.

407,541. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGIA L. HOOVER, doing business as Geo. D. Hoover Manufacturing Pharmacist, Des Moines, Iowa. Filed Apr. 15, 1943. Serial No. 459,908.

Hoover's IMPROVED Preparation Geo. D. Hoover

FOR PHARMACEUTICAL PREPARATIONS—NAMELY, A PREPARATION USED IN THE TREATMENT OF ASTHMA.
Claims use since Aug. 10, 1933.

407,542. (CLASS 32. FURNITURE AND UPHOLSTERY.) ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J. Filed Apr. 30, 1943. Serial No. 460,282.

BELDEN

FOR MATTRESSES; BOX SPRINGS, AND PILLOWS.
Claims use since Mar. 29, 1943.

407,543. (CLASS 32. FURNITURE AND UPHOLSTERY.) ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J. Filed Apr. 30, 1943. Serial No. 460,283.

STRATFORD

FOR MATTRESSES, BOX SPRINGS, AND PILLOWS.
Claims use since Mar. 29, 1943.

407,544. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THOS. J. MOLLOY & CO., INC., New York, N. Y. Filed May 1, 1943. Serial No. 460,329.

Morley's

FOR GIN:
Claims use since Feb. 10, 1943.

407,545. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENERAL TYLER NEWBY, Paterson, N. J. Filed May 17, 1943. Serial No. 460,674.



FOR MEDICINE FOR USE IN THE TREATMENT OF RHEUMATISM.
Claims use since Apr. 1, 1943.

407,546. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT U. ROURKE, Dudley, Mass. Filed May 22, 1943. Serial No. 460,845.

VEGE-TABLE

FOR SEED AND PLANT INFORMATION CHART.
Claims use since Mar. 10, 1943.

407,547. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) COLCOMBET, INC., doing business as Colcombet Cellars, San Francisco, Calif. Filed June 1, 1943. Serial No. 461,077.



FOR BRANDY.
Claims use since Oct. 7, 1942.

407,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OLIVER W. DEAN, doing business as Saf-Kil Company, Benton Harbor, Mich. Filed July 21, 1943. Serial No. 462,200.

SAF-KIL

FOR RED SQUILL RAT AND RODENT BAIT.
Claims use since Apr. 4, 1943.

407,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PICKRODT CHEESE COMPANY, INC., Brooklyn, N. Y. Filed Aug. 25, 1943. Serial No. 463,000.

Pickrodt

FOR CHEESE.
Claims use since Jan. 2, 1938.

407,550. (CLASS 38. PRINTS AND PUBLICATIONS.) CHIEF PRESS, Apopka, Fla. Filed Sept. 1, 1943. Serial No. 463,142.



FOR A MAGAZINE.
Claims use since July 1, 1941.

407,551. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN AIRCRAFT INDUSTRIES PUBLISHING CORPORATION, New York, N. Y. Filed Sept. 4, 1943. Serial No. 463,223.

Aircraft Industries
EQUIPMENT PREVIEWS

FOR A PERIODICAL.
Claims use since September 1942.

407,552. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CLEVELAND ELECTRO METALS COMPANY, Cleveland, Ohio. Filed Sept. 9, 1943. Serial No. 463,295.

EY
BAR

FOR UNIFORM UNFINISHED CASTINGS OF ALUMINUM PREPARED FOR THE SPECIFIC USE OF BEING IMMERSED IN MOLTEN STEEL FOR THE PURPOSE OF DEOXIDIZING THE STEEL.
Claims use since May 16, 1939.

407,553. (CLASS 45. BEVERAGES, NONALCOHOLIC.) RECO SALES CO., INC., New York, N. Y. Filed Oct. 30, 1943. Serial No. 464,550.

RECO

FOR NON-INTOXICATING, NON-ALCOHOLIC, NON-CEREAL MALTLESS FRUIT BEVERAGES SOLD AS A SOFT DRINK AND SYRUP USED IN THE PREPARATION OF SAME.
Claims use since April 1941.

407,554. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) INTERNATIONAL DISTRIBUTORS, INC., New York, N. Y. Filed Nov. 13, 1943. Serial No. 464,972.



GODDARD'S

FOR RUM.
Claims use since September 1934.

407,555. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ELECTRIC GAME CO., INC., Holyoke, Mass. Filed Dec. 22, 1943. Serial No. 465,982.

ELECTRIC BASEBALL

FOR BOARD GAMES PLAYED WITH MOVABLE PIECES.
Claims use since June 1, 1934.

407,556. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ELECTRIC GAME CO., INC., Holyoke, Mass. Filed Dec. 22, 1943. Serial No. 465,983.

ELECTRIC FOOTBALL

FOR BOARD GAMES PLAYED WITH MOVABLE PIECES.
Claims use since June 1, 1934.

407,557. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) W. P. MARTIN & SONS, Lubbock, Tex. Filed Jan. 22, 1944. Serial No. 466,800.

MARTIN'S

FOR GRAIN SEEDS.
Claims use since Nov. 1, 1940.

407,558. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) W. P. MARTIN & SONS, Lubbock, Tex. Filed Jan. 22, 1944. Serial No. 466,801.

MARTIN'S
COMBINE MILO

FOR GRAIN SEEDS.
Claims use since Nov. 1, 1940.

407,559. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHARLES S. ROOT, doing business as Charles S. Root Mfg. Co., Springfield, Mass. Filed Jan. 25, 1944. Serial No. 466,861.



FOR ORNAMENTS, SPECIFICALLY, ROSETTES, BALLS AND STARS FOR MIRRORS AND THE LIKE.
Claims use since Jan. 15, 1940.

407,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COMMERCIAL CHEMICAL COMPANY, Los Angeles, Calif. Filed Jan. 29, 1944. Serial No. 466,982.

MINIX

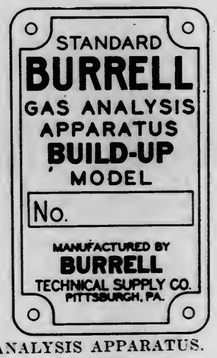
FOR INSECTICIDES IN LIQUID AND POWDER FORM, POISON BAIT, DISINFECTANTS, GERMICIDES, DEODORANTS, ANTIFUNGUS WOOD PRESERVATIVES, TERMITE SOIL POISONS.
Claims use since Jan. 1, 1940.

407,561. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) SUNSET INCORPORATED, Chicago, Ill. Filed Feb. 4, 1944. Serial No. 467,174.

Ron Mardis

FOR RUM.
Claims use since Jan. 1, 1942.

407,562. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BURRELL TECHNICAL SUPPLY COMPANY, Pittsburgh, Pa. Filed Feb. 23, 1944. Serial No. 467,685.



FOR GAS ANALYSIS APPARATUS.
Claims use since April 1935.

407,563. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CAPPEL, MACDONALD AND COMPANY, Dayton, Ohio. Filed Feb. 24, 1944. Serial No. 467,713.

LETTER BLOX

FOR TOY BLOCKS.
Claims use since March 1942.

407,564. (CLASS 38. PRINTS AND PUBLICATIONS.) ALICE GRAM ROBINSON, Washington, D. C. Filed Mar. 3, 1944. Serial No. 467,949.

CONGRESSIONAL DIGEST

FOR A PERIODICAL PUBLICATION DEALING WITH THE AFFAIRS OF CONGRESS, EACH MONTH GIVING THE ESSENTIAL FACTS WITH THE PROS AND CONS ON THE GOVERNMENTAL QUESTION OF GREATEST NATIONAL SIGNIFICANCE.
Claims use since Feb. 1, 1922.

407,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUMAN P. COTNAM, doing business as The National Rat and Mouse Exterminator Co., Milwaukee, Wis. Filed Mar. 4, 1944. Serial No. 467,963.

KIL BALM

FOR RODENT POISON.
Claims use since July 1939.

407,566. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NATIONAL PARKS ASSOCIATION, Washington, D. C. Filed Mar. 8, 1944. Serial No. 468,097.

NATIONAL PARKS MAGAZINE

FOR A MAGAZINE.
Claims use since July 1, 1942.

407,567. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BARDACH & SCHOENE CO., INC., Chicago, Ill. Filed Mar. 13, 1944. Serial No. 468,222.

SWIVEL BELT CONTROL LEG

FOR ARTIFICIAL LEGS.
Claims use since June 1941.

407,568. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MORRIS WHITE FASHIONS, INC., New York, N. Y. Filed Mar. 16, 1944. Serial No. 468,360.

WHITON

FOR LADIES' HANDBAGS MADE OF PLASTIC MATERIALS.
Claims use since July 14, 1942.

407,569. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) ROBINSON & SVERDLIK, New York, N. Y. Filed Mar. 22, 1944. Serial No. 468,538.

Gemstone

FOR SEMIPRECIOUS AND PRECIOUS STONES INTENDED TO BE SET IN RINGS OR OTHER SPECIALLY DESIGNED JEWELRY.
Claims use since July 1939.

407,570. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEARL ROSENBERG, doing business as Good Eatin' Dog Food Co., Philadelphia, Pa. Filed Mar. 24, 1944. Serial No. 468,635.

GOOD EATIN'

FOR DOG FOOD.
Claims use since Dec. 10, 1942.

TRADE-MARK REGISTRATIONS RENEWED

24,776. **LISANGO.** MOHAIR PILE FABRICS. Registered May 29, 1894. LISTER & COMPANY, LIMITED, Bradford, England, and New York, N. Y. Re-renewed May 29, 1944, to Lister & Company Limited, Bradford, England, an organized company of Great Britain.

181,285. **FUNGIZYME.** STARCH FOR THE DECOMPOSITION OF STARCHES AND THEIR REMOVAL FROM SIZED COTTON AND WOOLEN MATERIALS, FOR THE TRANSFORMATION OF STARCHES IN FOOD PREPARATIONS INTO SUGARS, AND FOR THE HYDROLYSIS OF STARCHY PRODUCTS IN FOOD PREPARATIONS, AND PROTEINS FOR CERTAIN NAMED PURPOSES. Registered March 18, 1924. JACQUES WOLF & Co., Passiac, N. J., a corporation of New Jersey. Renewed March 18, 1944.

182,035. **"SWEET PEA" AND DRAWING.** WHEAT FLOUR. Registered April 1, 1924. COLLIN COUNTY MILL & ELEVATOR Co., McKinney, Tex. Renewed April 1, 1944, to Tex-O-Kan Flour Mills Company, Dallas, Tex., a corporation of Delaware, assignee.

182,440. **MANDARIN.** NEGLIGEE AND DRESS SHIRTS. Registered April 8, 1924. CLUETT, PEABODY & Co., INC., Troy, N. Y., a corporation of New York. Renewed April 8, 1944.

182,475. **MAPLE GROVE.** MAPLE CREAM, MAPLE SIRUP, MAPLE SUGAR IN BULK, SAUCE FOR ICE CREAM, AND MAPLE HONEY. Registered April 8, 1924. MAPLE GROVE CANDIES, INC. Renewed April 8, 1944, to Maple Grove, Incorporated, St. Johnsbury, Vt., a corporation of Vermont, by change of name.

182,644. **"WHITE BILLOWS" AND DRAWING.** WHEAT FLOUR. Registered April 15, 1924. COLLIN COUNTY MILL & ELEVATOR Co., McKinney, Tex. Renewed April 15, 1944, to Tex-O-Kan Flour Mills Company, Dallas, Tex., a corporation of Delaware, assignee.

182,700. **TRIMLYM.** HOSIERY. Registered April 15, 1924. STATE TEXTILE CORPORATION. Renewed April 15, 1944, to Samuel Rothkopf, New York, N. Y., assignee.

182,796. **PLÉVILLE.** PERFUME, TOILET WATER, FACE POWDER, AND POUDRE CREAM. Registered April 15, 1924. FREDERICK STEARNS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed April 15, 1944.

182,977. **"ROSENTHAL" AND DRAWING.** CHINA. Registered April 22, 1924. ROSENTHAL-PORZELLANFABRIK VORM. JAC. ZEIDLER & Co., Bahnhof Selb, Germany. Renewed April 22, 1944, to The Rosenthal China Corporation, New York, N. Y., a corporation of New York, assignee.

183,032. **UNACAL.** LUBRICATING OILS AND FUEL OILS. Registered April 22, 1924. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif., a corporation of California. Renewed April 22, 1944.

183,033. **UNAX.** LUBRICATING OILS AND FUEL OILS. Registered April 22, 1924. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif., a corporation of California. Renewed April 22, 1944.

183,065. **VARIOLASTIC.** ELASTIC WEBBING IN THE PIECE, THE GOODS BEING RELATIVELY WIDE AND SUITABLE FOR MAKING INSERTS IN CORSETS AND OTHER GARMENTS, IN MAKING SHOE UPPERS, AND FOR SIMILAR PURPOSES. Registered April 22, 1924. KOPS BROS., INC., New York, N. Y., a corporation of New York. Renewed April 22, 1944.

183,503. **FLAVILLA.** FLAVORINGS FOR FOOD. Registered April 29, 1924. FREDERICK STEARNS & COMPANY. Renewed April 29, 1944, to Nyal Company, Detroit, Mich., a corporation of Michigan, assignee.

183,810. **KASHMIRDOWN.** WOOLEN PIECE GOODS. Registered May 6, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed May 6, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

184,360. **LAXAMIN.** LAXATIVE. Registered May 20, 1924. LAXAMIN LABORATORIES, Richmond Hill, N. Y., a firm. Renewed May 20, 1944.

184,372. **"BEST" AND DESIGN.** BABBITT METAL. Registered May 20, 1924. MARKS LISSBERGER & SON, INC., Long Island City, N. Y. Renewed May 20, 1944, to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey, assignee.

184,397. **"ROMANO" AND DRAWING.** OLIVE OIL. Registered May 20, 1924. TULLY ROMANO, doing business as R. Romano & Son. Renewed May 20, 1944, to R. Romano & Son, Inc., New York, N. Y., a corporation of New York, assignee.

184,578. **NEGRO.** WRITING PENCILS OF ALL KINDS. Registered May 27, 1924. KOHINOOR BLEISTIFTFABRIK L. & C. HARDTMUTH IN BUDWEIS, Budweis, Czechoslovakia. Renewed May 27, 1944, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey, assignee by mesne assignments.

184,647. **"JUST BORN" AND DRAWING.** CANDIES AND CHOCOLATES. Registered May 27, 1924. JUST BORN, INC., New York, N. Y. Renewed May 27, 1944, to Just Born, Inc., Bethlehem, Pa., a corporation of New York.

184,754. **"KEARNEY & FOOT CO." AND DRAWING.** FILES AND RASPS. Registered June 3, 1924. KEARNEY & FOOT COMPANY, Paterson, N. J. Renewed June 3, 1944, to Nicholson File Company, Providence, R. I., a corporation of Rhode Island, assignee.

184,824. **LUSTEROL.** HAIR DRESSING PREPARATION FOR MEN TO KEEP THE HAIR IN STRAIGHT FORMATION AND GIVE IT A GLOSSY APPEARANCE. Registered June 3, 1924. IRVING SELKOW, doing business as Washington Barber Supply Co., New York, N. Y. Renewed June 3, 1944, to Irving Selkow, doing business as The Lusterol Manufacturing Company, Niagara Falls, N. Y.

184,870. **D.** VEHICLE SPRINGS. Registered June 3, 1924. DETROIT STEEL PRODUCTS COMPANY, Detroit, Mich., a corporation of Michigan. Renewed June 3, 1944.

185,006. **VARIOLASTIC.** ELASTIC WEBBING IN THE PIECE, THE GOODS BEING RELATIVELY NARROW AND ADAPTED FOR USE AS BANDS FOR VARIOUS PURPOSES. Registered June 3, 1924. KOPS BROS., INC., New York, N. Y., a corporation of New York. Renewed June 3, 1944.

185,023. **AVIATOR.** COPYING-INK PENCILS. Registered June 3, 1924. KOHINOOR BLEISTIFTFABRIK L. & C. HARDTMUTH IN BUDWEIS, Budweis, Czechoslovakia. Renewed June 3, 1944, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey, assignee by mesne assignments.

185,024. **KOH-I-NOOR.** COPYING PENCILS, COLORED-CHALK PENCILS, PROPELLING PENCILS, ARTISTS' PENCILS, LEAD-PENCIL REFILLS, COLORED-CHALK-PENCIL REFILLS, COPYING-PENCIL REFILLS, PENHOLDERS, PENCIL-POINT PROTECTORS, FOUNTAIN-PEN AND PENCIL CLIPS, INDIA-RUBBER PENCIL ERASERS, INDIA-RUBBER INK ERASERS, INDIA-RUBBER BANDS AND RINGS, COLORED CHALKS. Registered June 3, 1924. KOHINOOR BLEISTIFTFABRIK L. & C. HARDTMUTH IN BUDWEIS, Budweis, Czechoslovakia. Renewed June 3, 1944, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey, assignee by mesne assignments.

185,025. **MEPHISTO.** COPYING PENCILS, COLORED COPYING LEAD PENCILS, COPYING-PENCIL REFILLS, PENHOLDERS. Registered June 3, 1924. KOHINOOR BLEISTIFTFABRIK L. & C. HARDTMUTH IN BUDWEIS, Budweis, Czechoslovakia. Renewed June 3, 1944, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey, assignee by mesne assignments.

185,205. **REPRESENTATION OF A BLUE STRIPE IN THE PERIPHERY OR SCORE OF A PULLEY OR BLOCK.** PULLEYS OR BLOCKS. Registered June 10, 1924. BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass. Renewed June 10, 1944, to Boston & Lockport Block Company, East Boston, Mass., a corporation of Massachusetts.

185,282. **"AMERICAN" AND DRAWING.** FILES AND RASPS. Registered June 10, 1924. NICHOLSON FILE COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed June 10, 1944.

185,393. **SAVADRES.** WINDOW ENVELOPES. Registered June 17, 1924. MAGILL-WEINSHEIMER COMPANY. Renewed June 17, 1944, to Transo Envelope Company, Chicago, Ill., a corporation of Delaware, assignee.

185,406. **PLUTO.** COPYING LEAD PENCILS, COPYING INK PENCILS, PENCIL LEADS, COPYING-PENCIL REFILLS. Registered June 17, 1924. KOHINOOR BLEISTIFTFABRIK L. & C. HARDTMUTH IN BUDWEIS, Budweis, Czechoslovakia. Renewed June 17, 1944, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey, assignee by mesne assignments.

185,448. **"H" AND DESIGN.** FOUNTAIN PENS, PEN NIBS OF PRECIOUS AND BASE METAL, FOUNTAIN-PEN CLIPS, LEAD PENCILS, COPYING PENCILS, COLORED-CHALK PENCILS, PROPELLING PENCILS, LEAD-PENCIL REFILLS, COPYING-PENCIL REFILLS, COLORED-CHALK REFILLS, COLORED CHALKS, PENHOLDERS, INDIA-RUBBER BANDS AND RINGS. PENCIL-POINT PROTECTORS. Registered June 17, 1924. KOHINOOR BLEISTIFTFABRIK L. & C. HARDTMUTH IN BUDWEIS, Budweis, Czechoslovakia. Renewed June 17, 1944, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey, assignee by mesne assignments.

185,700. **KASHMIRSUEDE.** WOOLEN PIECE GOODS. Registered June 24, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed June 24, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

185,701. **KASHMIRBLOOM.** WOOLEN PIECE GOODS. Registered June 24, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed June 24, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

185,703. **PEBLEEN.** WOOLEN PIECE GOODS. Registered June 24, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed June 24, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

185,706. **CHARMONA.** WOOLEN PIECE GOODS. Registered June 24, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed June 24, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

185,707. **CORDEEN.** WOOLEN PIECE GOODS. Registered June 24, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed June 24, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

185,734. **MAJANA.** WOOLEN PIECE GOODS. Registered June 24, 1924. FORSTMANN & HUFFMANN COMPANY. Renewed June 24, 1944, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

185,795. **"ROSENTHALE" AND DRAWING.** CROCKERY, EARTHENWARE AND PORCELAIN. Registered June 24, 1924. PORZELLANFABRIK PH. ROSENTHAL & Co. A. G., Berlin, Germany. Renewed June 24, 1944, to The Rosenthal China Corporation, New York, N. Y., a corporation of New York, assignee.

186,092. **REPRESENTATION OF A BRONZE COLORED STRIPE IN THE PERIPHERY OR SCORE OF A PULLEY OR BLOCK.** PULLEYS OR BLOCKS. Registered July 1, 1924. BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass. Renewed July 1, 1944, to Boston & Lockport Block Company, East Boston, Mass., a corporation of Massachusetts.

186,094. **"BALDWIN'S DOLLAR BRAND" AND DESIGN.** SHOVELS, SPADES, SCOOPS, POSTHOLE DIGGERS AND WOODEN HANDLES. Registered July 1, 1924. BALDWIN TOOL WORKS. Renewed July 1, 1944, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware, assignee by mesne assignments.

186,114. **"BLACK DIAMOND FILE WORKS" AND DRAWING.** FILES AND RASPS. Registered July 1, 1924. G. & H. BARNETT COMPANY, Philadelphia, Pa. Renewed July 1, 1944, to Nicholson File Company, Providence, R. I., a corporation of Rhode Island, assignee.

186,513. **NEMO.** CORSETS, BRASSIÈRES, BUST SUPPORTERS, SUSPENDERS, GARTERS, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. Registered July 22, 1924. KOPS BROS., INC., New York, N. Y., a corporation of New York. Renewed July 22, 1944.

186,769. **BROADCAST.** WHEAT FLOUR. Registered July 22, 1924. SCHULTZ, BAUJAN & Co. Renewed July 22, 1944, to Schultz, Baujan & Co., Beardstown, Ill., a corporation of Illinois, successor.

186,771. **10-39 TEN THIRTY NINE.** CANDY AND NUT CONFECTIONS. Registered July 22, 1924. QUEEN ANNE CANDY COMPANY. Renewed July 22, 1944, to Queen Anne Candy Corporation, Seattle, Wash., a corporation of Washington, assignee.

186,935. **"THE ARCADE FILE WORKS" AND DRAWING.** FILES AND RASPS. Registered July 22, 1924. ARCADE FILE WORKS, Anderson, Ind. Renewed July 22, 1944, to Nicholson File Company, Providence, R. I., a corporation of Rhode Island, assignee.

187,261. **SNOW CRYSTAL.** SALT. Registered July 29, 1924. SAGINAW SALT PRODUCTS COMPANY, Saginaw, Mich., a corporation of Michigan. Renewed July 29, 1944.

187,276. **"McCLELLAN FILE CO." AND DRAWING.** FILES AND RASPS. Registered July 29, 1924. NICHOLSON FILE COMPANY, Providence, R. I., a corporation of Rhode Island, Renewed July 29, 1944.

187,623. **MEDIFLAST.** WOUND DRESSING. Registered August 5, 1924. P. BEIERSDORF & Co. INC., New York, N. Y. Renewed August 5, 1944, to P. Beiersdorf & Co. Inc., Stamford, Conn., a corporation of New York.

187,700. **REPRESENTATION OF THE HEAD OF A MATCH COLORED IN TWO SHADES OF BLUE.** MATCHES. Registered August 12, 1924. THE OHIO MATCH COMPANY, Wadsworth, Ohio. Renewed August 12, 1944, to The Ohio Match Company, New York, N. Y., and Wadsworth, Ohio, a corporation of Delaware, assignee by mesne assignments.

187,905. **RENUALL.** ELECTRIC HEATING ELEMENTS FOR FLATIRONS, ELECTRIC STOVES, ELECTRIC HEATERS, PERCOLATORS, AND TOASTERS. Registered August 12, 1924. OGDEN MANUFACTURING COMPANY, Chicago, Ill., a firm. Renewed August 12, 1944.

187,918. **TANGLEFOOT.** INSECTICIDE. Registered August 12, 1924. THE O. & W. THUM COMPANY. Renewed August 12, 1944, to The Tanglefoot Company, Grand Rapids, Mich., a corporation of Michigan, by change of name.

187,935. **VENUS.** SANITARY NAPKINS, COMPRESSED SANITARY NAPKINS, SANITARY APRONS, SANITARY BLOOMERS, SANITARY BELTS, AND COMPRESSED ABSORBENT COTTON. Registered August 12, 1924. THE VENUS CORPORATION, New York, N. Y., a corporation of New York. Renewed August 12, 1944.

188,105. **B. B.** CONDUCTOR PIPE, CONDUCTOR-PIPE STRAPS, CONDUCTOR-PIPE HEADS, CONDUCTOR-PIPE ELBOWS, CONDUCTOR-PIPE HOOKS, CROSS-BAR GUTTER HANGERS, GUTTER HANGERS AND PARTS THEREOF, PIPE FASTENERS, BUCKET EARS, TINWARE HANDLES, SNOW IRONS, STOVE AND OVEN TURNBUCKLES, PIPE STRAPS, BLAST GATES. Registered August 19, 1924. BERGER BROS. COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 19, 1944.

188,386. **REPRESENTATION OF A STAR.** COTTON PIECE GOODS. Registered August 26, 1924. MINOT, HOOPER & Co., New York, N. Y., a firm. Renewed August 26, 1944.

188,605. **8830.** SHOE LACINGS, CORSET LACINGS, UNDERWEAR LACINGS, BLOUSE LACINGS, GALLOONS, AND BRAIDS, ALL OF WHICH ARE MADE OF COTTON, LINEN, SILK, OR WORSTED. Registered September 2, 1924. INTERNATIONAL BRAID COMPANY, Providence, R. I., a corporation of Massachusetts. Renewed September 2, 1944.

188,608. **ELMOR.** WATCHES, WATCHCASES, WATCH MOVEMENTS AND PARTS THEREOF. Registered September 2, 1924. SAVOY WATCH CO. INC., New York, N. Y., a corporation of New York. Renewed September 2, 1944.

188,609. **MILO.** WATCHES, WATCHCASES, WATCH MOVEMENTS AND PARTS THEREOF. Registered September 2, 1924. SAVOY WATCH CO. INC., New York, N. Y., a corporation of New York. Renewed September 2, 1944.

188,703. **GOLD BRICK.** CANDY IN BAR FORM. Registered September 2, 1924. CHARLES ARNOLD, doing business as Arnold's and Chas. Arnold & Sons. Renewed September 2, 1944, to Louis Arnold, Peru, Ind., successor.

188,761. **K. & O.** WATCHES, WATCH MOVEMENTS, AND WATCHCASES. Registered September 2, 1924. KATZ & OGUSH, INC. Renewed September 2, 1944, to William B. Ogush, Inc., New York, N. Y., a corporation of New York, by change of name.

188,786. **BRADFAST.** COTTON, WOOL, AND SILK FABRICS AND MIXTURES OF THE SAME. Registered September 2, 1924. BRADFORD DYEING ASSOCIATION (U. S. A.), Bradford, R. I., a corporation of Rhode Island. Renewed September 2, 1944.

188,806. **"DEARBORN" AND DRAWING.** CLEANER USED IN PUBLIC INSTITUTIONS, HOTELS, SCHOOLS, BAKERIES, PACKING HOUSES, CREAMERIES, ICE-CREAM FACTORIES, BOTTLING WORKS, REFRIGERATING AND ICE PLANTS, AS WELL AS FOR WASHING DISHES, GLASSWARE, FLOORS, AND MARBLE WORKS; AND OTHER CERTAIN NAMED CLEANERS, ETC. Registered September 2, 1924. DEARBORN CHEMICAL COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 2, 1944.

188,847. **362.** SHOE LACINGS, CORSET LACINGS, UNDERWEAR LACINGS, BLOUSE LACINGS, GALLOONS, AND BRAIDS, ALL OF WHICH ARE MADE OF COTTON, LINEN, SILK, OR WORSTED. Registered September 2, 1924. INTERNATIONAL BRAID COMPANY, Providence, R. I., a corporation of Massachusetts. Renewed September 2, 1944.

188,850. **828.** SHOE LACINGS, CORSET LACINGS, UNDERWEAR LACINGS, BLOUSE LACINGS, GALLOONS, AND BRAIDS, ALL OF WHICH ARE MADE OF COTTON, LINEN, SILK, OR WORSTED. Registered September 2, 1924. INTERNATIONAL BRAID COMPANY, Providence, R. I., a corporation of Massachusetts. Renewed September 2, 1944.

188,946. **PANT-EASE.** KNITTED DIAPERS. Registered September 9, 1924. LOUISE R. MCNAIR, Warsaw, N. Y. Renewed September 9, 1944, to Louise R. McNair, Arcade, N. Y.

189,045. **VOILE LUMIERE.** COTTON PIECE GOODS. Registered September 9, 1924. TURNER & WALLS. Renewed September 9, 1944, to Albert H. Vandam Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

189,107. **"VELVET ROSE" AND DRAWING.** SILK GOODS IN THE PIECE AND SILK SHIRTINGS IN THE PIECE. Registered September 9, 1924. DENVILLE SILK CO. Renewed September 9, 1944, to Denville Silk Company, New York, N. Y., a copartnership, assignee.

189,184. **ORANGINE.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. Registered September 16, 1924. JESSE L. ROBINSON, New Orleans, La. Renewed September 16, 1944.

189,363. **"DURA BULL" AND DRAWING.** LEATHER, COMBINED LEATHER AND FABRIC, AND FABRIC GLOVES. Registered September 16, 1924. THE GLOVE CORPORATION, Alexandria, Ind., a corporation of Indiana. Renewed September 16, 1944.

189,503. **"CAMPUS" AND DESIGN.** SWEATERS. Registered September 23, 1924. THE PONTIAC KNITTING MILLS COMPANY. Renewed September 23, 1944, to The Campus Sweater Company, Cleveland, Ohio, a partnership, assignee.

189,511. **SHURADRES.** WINDOW ENVELOPES. Registered September 23, 1924. MAGILL-WEINSHEIMER COMPANY. Renewed September 23, 1944, to Transo Envelope Company, Chicago, Ill., a corporation of Delaware, assignee.

189,512. **SAFAIRES.** WINDOW ENVELOPES. Registered September 23, 1924. MAGILL-WEINSHEIMER COMPANY. Renewed September 23, 1944, to Transo Envelope Company, Chicago, Ill., a corporation of Delaware, assignee.

189,529. **SILKELEE.** SHIRTINGS IN THE PIECE MANUFACTURED FROM COTTON, SILK, ARTIFICIAL SILK, OR MIXTURES THEREOF. Registered September 23, 1924. TURNER & WALLS. Renewed September 23, 1944, to Albert H. Vandam Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

189,892. **SECURITY.** HORSE FEED, DAIRY FEED, AND SCRATCH FEED. Registered September 30, 1924. SECURITY MILLS. Renewed September 30, 1944, to Security Mills, Inc., Knoxville, Tenn., a corporation of Tennessee, by change of name.

189,913. **REPRESENTATION OF A FLYING BAT.** COTTON PIECE GOODS. Registered September 30, 1924. THE MILLVILLE MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of New Jersey. Renewed September 30, 1944.

189,925. **SUPER CLEANSER.** CHEMICAL CLEANSING AND WASHING COMPOUNDS. Registered September 30, 1924. THE SOLVAY PROCESS COMPANY, Solvay, N. Y. Renewed September 30, 1944, to The Solvay Process Company, New York, N. Y., a corporation of New York.

189,930. **MOTHER HELPS.** MAGAZINE PUBLISHED MONTHLY. Registered September 30, 1924. EARNSHAW SALES COMPANY, Chicago, Ill. Renewed September 30, 1944, to Earnshaw Publications, Inc., Newton, Mass., a corporation of Massachusetts, by change of name.

189,931. **THE INFANTS' AND CHILDREN'S DEPARTMENT.** MAGAZINE PUBLISHED MONTHLY. Registered September 30, 1924. EARNSHAW SALES COMPANY, Chicago, Ill. Renewed September 30, 1944, to Earnshaw Publications, Inc., Newton, Mass., a corporation of Massachusetts, by change of name.

189,943. **HARVEST.** CLOVER, GRASS, FIELD, AND FORAGE SEEDS. Registered September 30, 1924. WM. G. SCARLETT, doing business as Wm. G. Scarlett & Company, Baltimore, Md. Renewed September 30, 1944.

189,968. **FLUF.** SODA ASH (SODIUM CARBONATE). Registered September 30, 1924. THE SOLVAY PROCESS COMPANY, Solvay, N. Y. Renewed September 30, 1944, to The Solvay Process Company, New York, N. Y., a corporation of New York.

189,982. **LUNCHEON.** PEANUT BUTTER. Registered September 30, 1924. WILMAR MANUFACTURING COMPANY, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 30, 1944.

190,109. **SOCKIT.** KITS OF SOCKET WRENCHES. Registered October 7, 1924. THE KEYSTONE MANUFACTURING CO., Buffalo, N. Y., a corporation of New York. Renewed October 7, 1944.

190,136. **"K" AND DESIGN.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. Registered October 7, 1924. L. H. KIRKPATRICK, Walsenburg, Colo. Renewed October 7, 1944.

190,149. **IMPERIAL.** MINERAL WATERS, GASES, POWDERS, AND SALTS FOR MINERAL WATERS, AND CONDENSATES OF THE SAID SALTS. Registered October 7, 1924. AGUA IMPERIAL, SOCIEDAD ANÓNIMA, Barcelona, Spain, a corporation of Spain. Renewed October 7, 1944.

190,153. **POLLY PRIM.** DOLLS. Registered October 7, 1924. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 7, 1944.

190,154. **"LA FLOR DE CUESTA-REY" AND DRAWING.** CIGARS. Registered October 7, 1924. CUESTA, REY & COMPANY, Tampa, Fla., a corporation of Florida. Renewed October 7, 1944.

190,174. **VITA.** BREAD AND CAKE. Registered October 7, 1924. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed October 7, 1944.

190,227. **NISER.** ICE CREAM. Registered October 7, 1924. THE NISER ICE CREAM COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed October 7, 1944.

190,229. **CELLO-SOLVE.** SOLVENTS FOR GUMS, RESINS, CELLULOSE ESTERS, AND THE LIKE AND FOR EXTRACTING ESSENTIAL OILS. Registered October 7, 1924. CARBIDE & CARBON CHEMICALS CORPORATION, New York, N. Y., a corporation of New York. Renewed October 7, 1944.

190,241. **BUSTER.** TOOL STEEL. Registered October 7, 1924. COLUMBIA TOOL STEEL COMPANY, Chicago Heights, Ill. Renewed October 7, 1944, to Columbia Tool Steel Company, Chicago and Chicago Heights, Ill., Detroit, Mich., Cincinnati and Cleveland, Ohio, and Milwaukee, Wis., a corporation of Illinois.

190,250. **"NORTON" AND DESIGN.** GRINDING MACHINES AND ATTACHMENTS THERETO. Registered October 7, 1924. NORTON COMPANY, Worcester, Mass., a corporation of Massachusetts. Renewed October 7, 1944.

REISSUES

JUNE 6, 1944

22,491

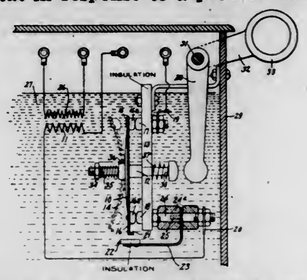
OVERLOAD PROTECTIVE MEANS

Ludwig S. Walle, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York

Original No. 2,268,229, dated December 30, 1941, Serial No. 308,785, December 12, 1939. Application for reissue November 25, 1942, Serial No. 466,876

15 Claims. (Cl. 200—116)

1. A protective device for a translating device immersed in oil comprising a bimetallic thermostat arranged to snap from one position to another in response to changes in temperature thereof, said thermostat being arranged to be immersed in the oil with the translating device so as to be responsive to the temperature of the oil, circuit control means actuated by said thermostat, said circuit control means being connected in a circuit of the translating device and being normally in a closed circuit position, connections for heating said thermostat in response to the current in said circuit, a second thermostat, latching means actuated by said second thermostat in response to a predetermined temperature of said second thermostat for holding said first thermostat in its open circuit position, and means for manually moving said first thermostat to release it from said latching means.



PLANT PATENTS

GRANTED JUNE 6, 1944

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

628

AVOCADO TREE

Paul L. Kovach, Vista, Calif.

Application September 24, 1943, Serial No. 503,669

1 Claim. (Cl. 47—62)

The avocado variety herein disclosed characterized by the tree's medium upright growing habit, blossoming in late spring with large, loose clusters of blossoms and producing a green, approximately eleven ounce fruit on an offset stem, the fruit having a glossy external appearance, a flesh of buttery texture.

629

STRAWBERRY PLANT

Brooks D. Drain, Knoxville, Tenn., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee

Application December 15, 1942, Serial No. 469,092

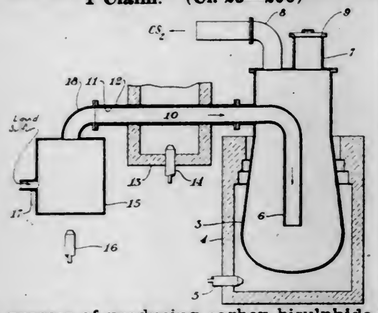
1 Claim. (Cl. 47—62)

A healthy, prolific strawberry plant variety substantially as illustrated and described, characterized by subacid, well flavored fruits which are medium red becoming lighter toward the center of the berry, which ripen from midseason to late, and by the development of a large number of runner plants.

PATENTS

GRANTED JUNE 6, 1944

2,350,320
METHOD OF PRODUCING CARBON BISULPHIDE
James L. Amos, Ray H. Boundy, and Kenneth E. Stober, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application February 14, 1942, Serial No. 430,922
1 Claim. (Cl. 23—206)



A process of producing carbon bisulphide comprising vaporizing sulphur, passing the sulphur vapor through a superheater having an outer surface of a metal from the group consisting of iron, carbon-steel, and heat-resistant alloy steels and an inner surface of graphite, heating the sulphur vapor in said superheater to a temperature of between 700 and 850° C., passing the superheated sulphur vapor into a reactor and there reacting it with carbon to form carbon bisulphide.

2,350,321
WEIGHING SCALE
Geoffrey R. Bennett, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application October 23, 1941, Serial No. 416,227
5 Claims. (Cl. 308—2)

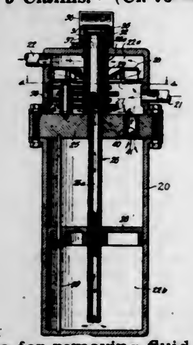


1. In a weighing scale, in combination, a bearing, a knife edge pivot associated therewith, and a support for said bearing, said bearing having a plurality of V grooves in which said pivot is alternatively positionable, said bearing being rotatable in said support about an axis perpendicular to said V grooves to selectively locate each of said grooves for association with said pivot.

2,350,322
PROCESS OF MAKING AMMONIUM SALTS OF AROMATIC COMPOUNDS
Ernst Berl and Walter George Berl, Pittsburgh, Pa.
No Drawing. Application December 4, 1939, Serial No. 307,544
14 Claims. (Cl. 52—20)

12. The process of making a phlegmatized and substantially shockproof ammonium salt of an aromatic nitro compound comprising at least one nuclear hydroxyl group in the molecule and capable of forming an ammonium salt; comprising forming a reaction medium by dissolving ammonia gas in a viscous organic substance selected from the group consisting of neutral higher members of the paraffin series, petroleum jellies and viscous lubrication oils having no substantial solvent effect on said ammonium salt and having a high boiling point, contacting said reaction medium and said aromatic nitro compound, said aromatic nitro compound being in the solid state, and incompletely removing said reaction medium; a sufficient amount of ammonia being present in said reaction medium during said contacting step to cause the formation of said ammonium salt to be substantially instantaneous; and said process being carried out at a temperature not substantially exceeding room temperature.

2,350,323
FLUID SAMPLING DEVICE
Charles W. Cochran, Houston, Tex., and Frank R. Lake, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application August 22, 1942, Serial No. 455,819
5 Claims. (Cl. 73—21)

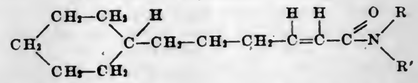


1. A device for removing fluid from a flow line having a high pressure section and a low pressure section comprising a container having intercommunicating first and second compartments, means connecting the said first compartment to the high and low pressure sections of the flow line so that fluid in the line will flow therethrough, means for controlling the flow of fluid through the first compartment, a piston mounted for reciprocation in the second compartment, actuator means hydraulically operated by the flow of fluid through the first compartment having a driving connection with the said piston, and valve means for controlling communication between said first and second compartments, said valve means being automatically responsive to movement of the piston to admit fluid into the said second compartment.

2,350,324
PARASITICIDAL COMPOSITION
Gerald H. Coleman, Fred W. Fletcher, and George E. Lynn, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 25, 1941, Serial No. 404,044
10 Claims. (Cl. 167—24)

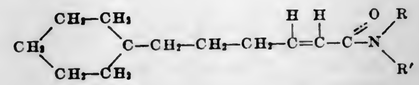
1. An insecticidal composition comprising as

an active toxicant a compound having the formula



wherein R represents a member of the class consisting of the cycloalkyl, alkyl, alkenyl, and aralkyl radicals, and aromatic radicals of the benzene series, R′ is selected from the group consisting of aryl and hydrogen, and R′ and R jointly may constitute an endomethylene group chain broken by a hetero-atom to form with the nitrogen a heterocyclic ring, and a carrier therefor.

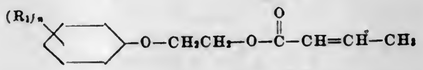
6. An insecticidal composition comprising a product selected from the class consisting of the extracts of pyrethrin and rotenone bearing plants and as an added toxicant a compound having the formula



wherein R represents a member of the class consisting of the cycloalkyl, alkyl, alkenyl, and aralkyl radicals, and aromatic radicals of the benzene series, R′ is selected from the group consisting of aryl and hydrogen, and R′ and R jointly may constitute an endomethylene group chain broken by a hetero-atom to form with the nitrogen a heterocyclic ring.

2,350,325
UNSATURATED ESTER OF ALKOXY-ARYLOXY ALCOHOLS
Gerald H. Coleman and Bartholdt C. Hadler, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application September 25, 1941, Serial No. 412,298
2 Claims. (Cl. 260—486)

1. An ester of an alkoxy-aryloxy-substituted ethyl alcohol and an unsaturated aliphatic monocarboxylic acid, said ester having the general formula

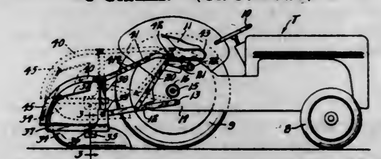


wherein R_1 represents an alkoxy substituent, and n represents an integer not greater than 2.

2,350,326
CONDENSATION PRODUCT OF p-HYDROXY BENZOIC ACID
Russell B. Du Vall and Ernest F. Grether, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 26, 1941, Serial No. 390,608
8 Claims. (Cl. 260—78)

1. A resinous condensation product formed by heating a mixture containing para-hydroxy benzoic acid and a polyhydric alcohol, as the only ingredients reactive to form said resinous condensation product, at a temperature between about 150° C. and about 225° C. for a time necessary for resinification.

2,350,327
HYDRAULIC SCOOP
Benjamin Ender, Hokah, Minn.
Application August 31, 1940, Serial No. 354,919
8 Claims. (Cl. 37—126)

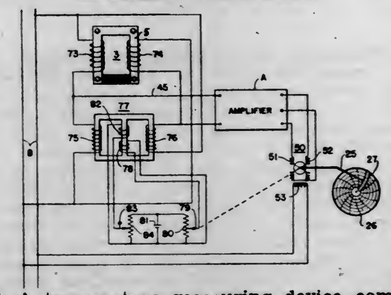


1. The combination with a tractor having a drawbar and means for elevating the same, of a scoop frame, a connection between said scoop frame and said drawbar, means for maintaining said scoop frame in an approximately vertical position as it is raised or lowered with said drawbar, a scoop pivotally mounted on said frame, and means releasably connected to said scoop to permit tilting thereof relative to said scoop frame when said scoop and frame are in raised position.

2,350,328
PROCESS FOR THE PREPARATION OF A NEW PARASITE CONTROL MATERIAL
William C. Hellings, Los Angeles, and Forrest B. McLane, Montebello, Calif., assignors to Stauffer Chemical Company, a corporation of California
No Drawing. Application July 3, 1942, Serial No. 449,594
12 Claims. (Cl. 167—20)

1. A process for preparation of a parasite control material comprising heating a mass of sulphur to a temperature whereat the sulphur is molten and below about 200° C., adding to the molten sulphur mass a small mass of a fish poison, stirring the mixture to distribute the fish poison through the sulphur mass, cooling the mixture, and reducing the solidified mixture to finely divided form.

2,350,329
TEMPERATURE MEASURING APPARATUS
Anthony J. Hornfeck, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 30, 1939, Serial No. 311,729
11 Claims. (Cl. 73—362)



5. A temperature measuring device comprising, a saturable core reactor having two reactance windings and a control winding, a source of direct current for energizing said control winding, a balanceable electrical network having four arms, two opposite arms of said network each including a reactance winding of said saturable core reactor and the remaining two opposite arms each including an inductance coil, a temperature-sensitive magnetic alloy core piece for said coils to simultaneously vary the imped-

ance of said coils in accordance with changes in temperature to unbalance said network, a source of alternating current for energizing said electrical network, and means responsive to unbalance of said network for varying the energization of said control winding to rebalance said network and for indicating the temperature responsible for unbalancing said network.

2,350,330

TREATMENT OF HYDROCARBONS WITH RADIOACTIVE MATERIALS

Theron P. Remy, Los Angeles, Calif.

No Drawing. Application September 28, 1938, Serial No. 232,127
12 Claims. (Cl. 204—154)

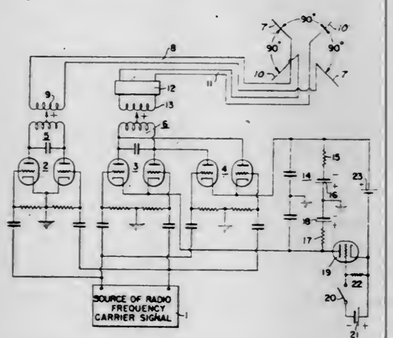
1. A process for treatment of a hydrocarbon mixture rich in olefins and aromatics comprising maintaining said mixture in contact with a finely divided radioactive material as substantially the sole effective catalyst at an elevated non-cracking temperature to effect polymerization and condensation in said mixture.

2,350,331

COMMUNICATION SYSTEM

Hans Salinger, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware

Application October 25, 1941, Serial No. 416,429
7 Claims. (Cl. 250—8)



1. Apparatus for transmitting telegraph signals comprising units of different character which comprise a plurality of antenna elements, a source of radio frequency carrier signals, means for applying carrier signals to one of said elements whereby waves of energy having a certain phase are radiated, a first repeating means coupled between said source of radio frequency carrier signals and another of said elements for applying signals to said other element with a different phase to produce waves of energy in space having a circular polarization of predetermined direction of rotation for transmitting units of one character, a second repeating means coupled between said source of radio frequency carrier signals and said other element for applying said signals to said other element and changing the phase of said signals to produce waves having a circular polarization with the opposite direction of rotation for transmitting units of another character and means for rendering either said first repeating means or said second repeating means effective for applying said radio frequency carrier signals to said other element.

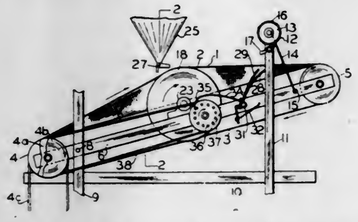
2,350,332

DEVICE FOR SEPARATING WORMS AND LARVAE FROM NUT MEATS

Ellis Albaugh, Sr., San Antonio, Tex.

Application July 26, 1941, Serial No. 404,225
8 Claims. (Cl. 209—114)

1. A device for separating worms and larvae from nut meats, said device comprising an inclined, endless conveyor belt, two end drums over



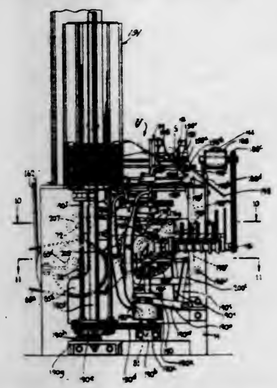
which said belt is trained, means to move said belt with its upper stretch travelling up the incline, and means to impart a trough-like shape to the upper stretch of said belt, said last mentioned means consisting of a drum positioned between said end drums and having a cylindrical mid-section and conical end-sections.

2,350,333

AUTOMATIC BAG PACKAGE MAKING AND FILLING MACHINE

Mervin Allatt, Plainfield, N. J., assignor to Millie Patent Holding Co., Inc., a corporation of New York

Original application August 21, 1935, Serial No. 37,257. Divided and this application June 16, 1937, Serial No. 148,438
9 Claims. (Cl. 226—53)



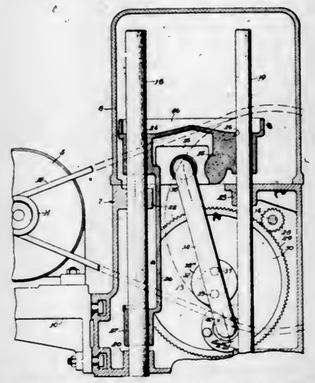
1. In a machine construction of the character described, a turntable carrier having pairs of movable fingers for receiving from below the level thereof sections of tubular bag material, means for actuating the fingers to releasably retain the bag sections in a depending position thereon, a sewing machine for continuously applying interconnected bottom closure seams on the bag sections while retained by said pairs of fingers, and shearing means mounted to swing in the path of movement of the finger retained sewn bag sections and between such adjacent sections for severing the interconnections of the seams of said latter sections.

2,350,334

MECHANICAL MOVEMENT

John Gordon Baker, Evansville, Wis., assignor to Baker Manufacturing Company, Evansville, Wis., a corporation of Wisconsin

Application March 6, 1941, Serial No. 382,005
8 Claims. (Cl. 74—44)



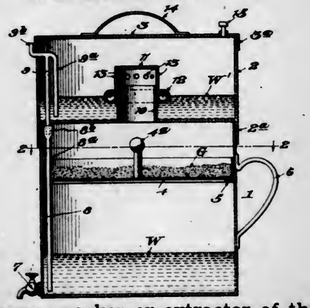
1. Mechanism of the character described having, in combination with a reciprocable member to be actuated, a hollow casing disposed adjacent said member, a stud rigid with and projecting inwardly from the wall of said casing adjacent said member, a power driven gear rotatable on said stud, a guide rod supported in said casing on the side of said gear opposite said member and providing a guideway extending parallel to the path of said member, a slide reciprocable along said rod and projecting laterally thereof beyond said gear, means connecting the projecting end of said slide to said member, and a U-shaped connecting rod with its closed end projecting past said rod and having ends extending laterally toward said gear with one end journaled in said gear eccentrically of the axis thereof and the other being pivotally connected to said slide intermediate said rods and the connection with said member.

2,350,335

BREWER OR COOKER

Norman G. Baker, Laredo, Tex.

Application May 24, 1943, Serial No. 488,247
20 Claims. (Cl. 99—281)



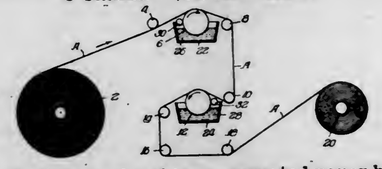
1. A brewer, cooker or extractor of the character specified, comprising a casing having a steam-tight lower section, and a superimposed steam-tight upper section, each section being adapted to hold a quantity of water in their lower portions; an inverted U-shaped overflow pipe having its ends respectively terminating adjacent the bottoms of the respective sections; a collar within the upper section extending upwardly from the bottom thereof to a point above the normal water level therein and communicating with the lower section; a valve on said collar adapted to be opened and closed by the rise and fall of water in the upper section; and means within the lower section for holding the products to be treated.

2,350,336

TREATMENT OF CELLULOSIC SHEET MATERIALS

Jordan V. Bauer, Chicago, and Don M. Hawley, Geneva, Ill., assignors to Stein, Hall Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application April 29, 1938, Serial No. 204,978
3 Claims. (Cl. 154—33.05)



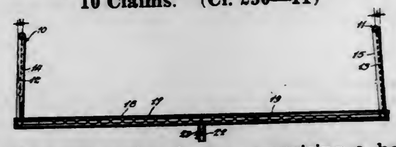
1. In the art of making corrugated paper board assemblies, the steps which comprise treating opposite sides of a paper corrugating medium with an acid solution and a water-soluble urea-formaldehyde reaction product, the amount of said acid solution and said water-soluble urea-formaldehyde reaction product being sufficient to increase the water resistance of said paper corrugating medium without substantially decreasing its water permeability winding said corrugating medium in the form of a roll while it is still damp, allowing it to stand until reaction is substantially complete within the fibers of the corrugating medium and thereafter corrugating said medium directly from said roll.

2,350,337

DIRECTIONAL ANTENNA

Reed R. Brunner, Baltimore, Md., assignor to United Air Lines, Inc., a corporation of Delaware

Application December 15, 1941, Serial No. 423,003
10 Claims. (Cl. 250—11)



3. A directional antenna comprising a hollow metallic boom mounted in substantially horizontal relation for rotation about a vertical medial axis, a pair of loops respectively positioned on opposite sides of said vertical axis in planes transverse to the longitudinal axis of said boom, and means mounting said loops on said boom with each loop in substantially zero coupling relation to the fields produced by the eddy currents induced in said hollow boom by received radio waves.

2,350,338

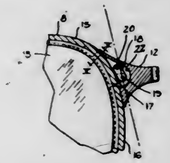
OPHTHALMIC MOUNTING

Stuart F. Casavant, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application January 23, 1941, Serial No. 375,645
7 Claims. (Cl. 88—47)

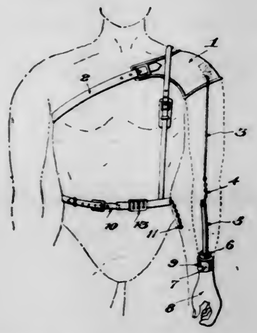
4. Connecting means for joining the meeting ends of the divided portions of the lens rims of

an ophthalmic mounting comprising a hollowed member secured to one of said divided portions of each rim and extending outwardly beyond the end thereof to overlie the other of said divided portions, a link member pivotally connected adjacent one of its ends internally of the hollowed portion and pivotally connected adjacent its opposed end to the other of said divided portions of the rim with the pivots so arranged that when the hollowed member is moved to a position to overlie said other divided portion of the rim and



to lie in adjacent relation therewith the center of the pivot connecting the link to said hollowed member will move inwardly of a line passing through the pivot connecting said link with said other divided portion of the rim and substantially paralell with a line tangent to said other divided portion of the rim adjacent the free end thereof and thereby cause the ends of the rim to be drawn and held in adjacent relation with each other and movement of said hollowed member in the opposite direction will cause the said ends to move from adjacent relation with each other.

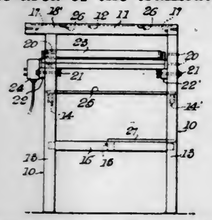
2,350,339
ORTHOPEDIC ARM
José Antonio Quirno Costa, Buenos Aires, Argentina
Application November 23, 1942, Serial No. 466,641
In Argentina June 10, 1942
4 Claims. (Cl. 3—12)



4. An artificial arm structure, comprising, in combination, a shoulder plate and a waist encircling belt adapted for attachment to the body, an artificial arm structure suspended from the shoulder plate and comprising relatively rigid biceps and forearm portions joined by a flexible elbow connection, a flexible element permanently secured at one end to the belt and having means at its other end for detachably engaging said flexible elbow connection to tether the mid-portion of the arm structure to the belt, a member slidably adjustable on the belt, and a plurality of means carried by said member for selective engagement with the lower end of the arm structure.

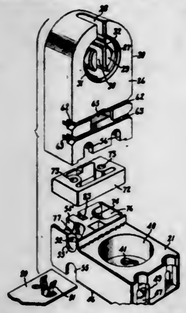
2,350,340
DRAFTING TABLE
John J. Darby, Portland, Oreg.
Application January 24, 1942, Serial No. 428,082
1 Claim. (Cl. 45—131)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A drafting table of the class described comprising a top member consisting of a frame, a translucent plate removably mounted within said frame and disposed in a horizontal plane, a support for said frame having legs provided with equally spaced holes, an illuminating source including a battery of parallelly arranged laterally spaced fluorescent tubes, substantially coextensive with the area of the translucent plate, and



mounted upon horizontal cross members beneath and parallel to said plate, means associated with said cross members adapted to selectively engage the holes in said legs to support the battery of fluorescent tubes parallel to said translucent plate at various distances beneath said plate to thereby effect the uniform illumination thereof and provide for the regulation of the intensity of said illumination with respect to said plate, and a horizontally disposed reflecting surface, corresponding in area to that of said frame, located beneath said illuminating source, and removably associated with its support.

2,350,341
COMBINED SOCKET AND STARTER FOR FLUORESCENT LAMPS
Frank C. De Reamer, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application May 16, 1941, Serial No. 393,786
13 Claims. (Cl. 173—328)



5. In combination, a lamp socket provided with a base portion at one end and spaced contact members at the other end for engaging the spaced contact pins of a tubular lamp, an adapter having receptacle means including contact elements on one side thereof, said adapter being provided on opposite sides with bearing surfaces for cooperation with the base of said socket whereby said adapter may be positioned on the socket with the receptacle means extending toward or away from the socket contact members and a screw passing through said adapter and electrically interconnecting one of the contact elements of the adapter and one of the lamp contact members for holding said adapter in position on said socket.

2,350,342
WRINGER
Horace B. Fay, Willoughby, Ohio, assignor to Automatic Safety Wringer Company, a partnership composed of Charles B. Williams, Shaker Heights, Horace B. Fay, Willoughby, and Charles W. Williams, Shaker Heights, Ohio
Substituted for abandoned application Serial No. 173,859, November 10, 1937. This application January 8, 1943, Serial No. 471,717
4 Claims. (Cl. 68—244)



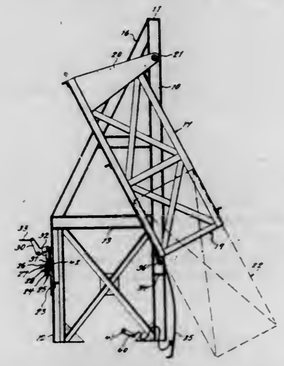
1. In a wringer, a frame, a pair of horizontally mounted rolls in said frame to establish a clothes gripping bite therebetween, power means to drive said rolls, reverse mechanism to reverse the roll rotation, a guard roller adjacent the top roll and on each side of the bite, means to rotate said rollers in a direction opposite to the direction of rotation of the adjacent roll, feed boards carried by said frame, one on each side of the lower roll and coacting with respective guard rollers to define a limited space on each side of the wringer through which material may be fed to said clothes gripping bite, and a stripper member interposed between each guard roller and its associated roll to prevent clothes from passing between the roller and roll.

2,350,343
FLOWMETER
Kermit Fischer, Bridge Valley, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Application August 30, 1941, Serial No. 409,048
10 Claims. (Cl. 73—209)



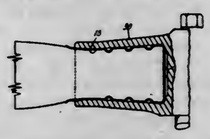
2. A flow meter including a generally vertical metering tube adapted for passage of liquid to be metered vertically therethrough, a co-axial elongated chamber spaced from said metering tube outside the path of liquid flow and in communication with said metering tube, and a vertically-movable float; said float having a weight-giving body portion disposed within said coaxial chamber, a tapered flow-constricting head portion disposed within said metering tube and a relatively thin spacer portion interconnecting said body portion and said head portion, said head portion being inclined in the direction of the on-coming liquid and presenting a liquid-entrapping turbulence-creating pocket to said liquid.

2,350,344
DEVICE FOR STORING AND DISCHARGING LIFE RAFTS, BOATS, OR OTHER ARTICLES
William Fraser, Mariners Harbor, Staten Island, and James Martin Sloane, Westerleigh, Staten Island, N. Y.
Application August 20, 1943, Serial No. 499,362.
7 Claims. (Cl. 9—22)



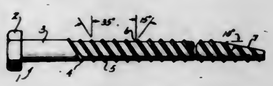
4. A discharging device for a life raft or other article, comprising an upright frame having a cradle pivotally suspended therefrom in a non-vertical position, said cradle being adapted to be swung into a vertical position, the lower end of said cradle being open, said cradle having a life raft inserted thereinto, and releasable means for simultaneously closing said lower end and locking said cradle in said upright position, and means for tripping said releasable means.

2,350,345
PROPELLER
Gordon L. Freedman and Walter E. Burnham, Cincinnati, Ohio, assignors to Freedman-Burnham Engineering Corporation, Cincinnati, Ohio
Application March 27, 1939, Serial No. 264,336
14 Claims. (Cl. 170—173)



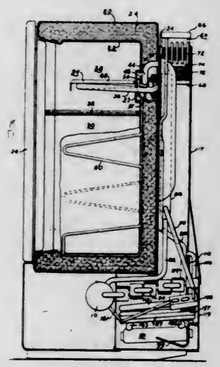
10. A propeller blade comprising a tapered non-metallic shank initially provided with one or more individual annular grooves spaced along its length, a metallic sleeve encasing and permanently engaging said shank, said sleeve being mechanically shrunk onto and into intimate contact with said shank throughout substantially its entire length and into said annular grooves, each of said grooves being so proportioned that the shear stresses and the crushing stresses of said shank will be substantially equal when said shank is under load.

2,350,346
SELF-TAPPING SCREW
Clifford R. Gaskell, Dayton, Ohio
Application April 14, 1943, Serial No. 483,007
1 Claim. (Cl. 85—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



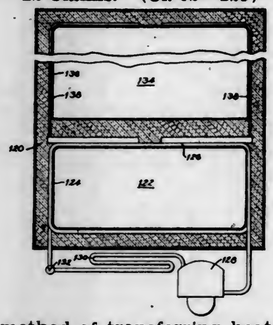
In a self-tapping parallel thread screw for use in wood or similar materials and the threads extending substantially to the outer or entering end of the screw; the improvement which comprises the provision of a single inclined plane surface extending inwardly from a diametrical width at the outer end of the screw and terminating at the outer periphery of the threads, the length of said surface being substantially greater than the diameter of the screw, and the marginal edges of the surface forming cutting edges.

2,350,347
REFRIGERATING APPARATUS
Richard S. Gaugler, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application May 31, 1941, Serial No. 395,944
14 Claims. (Cl. 62—119.5)



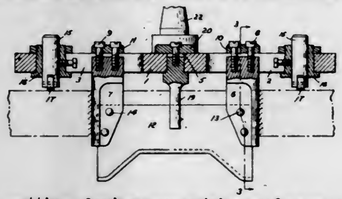
4. Absorption refrigerating apparatus including an absorption cooling unit in the form of an elongated conduit means having metal walls and having an inert gas inlet at one end and a gas outlet at the other end, the metal walls of said conduit means adjacent the gas inlet being adapted for arrangement in heat exchange relation with a first medium to be cooled and being provided with means for increasing the area of heat exchange relation with said first medium, wall means for separating a portion of the metal walls of said passage adjacent said gas outlet from said first medium to be cooled so as to be out of direct contact with said first medium, a secondary refrigerating system for maintaining a second medium at a higher temperature than the first, said secondary refrigerating system having its condensing portion in heat exchange relation only with said portion of the metal walls adjacent the gas outlet of the cooling unit for increasing the evaporation of refrigerant into the inert gas as it leaves the cooling unit.

2,350,348
HEAT TRANSFER DEVICE
Richard S. Gaugler, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 21, 1942, Serial No. 469,649
12 Claims. (Cl. 62—125)



1. The method of transferring heat from one point to another by means of a closed system wherein a volatile liquid is successively evaporated and condensed at substantially the same pressure which comprises evaporating the liquid refrigerant at one level, condensing the vapor at another level below the point at which evaporation takes place, and returning the liquid from the point of condensation to the point of evaporation by capillary action.

2,350,349
ADJUSTABLE CUTTER
Leo O. Goeger, Hackettstown, N. J.
Application January 23, 1943, Serial No. 473,302
3 Claims. (Cl. 86—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cutting device comprising a frame of four equally sized arms, a slot contained within each of said arms, a pair of slidably adjustable plates positioned in alignment within one pair of said slots, guide means positioned in the other pair of said slots, and a cutting blade affixed to said plates.

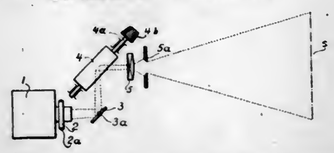
2,350,350
GLYCOL FORMALS
William F. Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 6, 1941, Serial No. 392,125
9 Claims. (Cl. 260—615)

1. A process for the preparation of products having the structural formula

$$(HOCH_2CH_2)(OCH_2OCH_2CH_2)_x(OCH_2OCH_2CH_2OH)$$

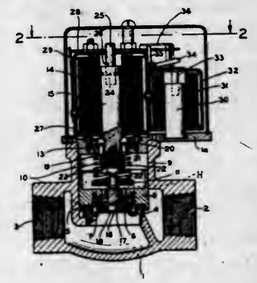
in which x is a positive integer from 1 to 2, which comprises reacting ethylene glycol with formaldehyde in the presence of a strong acid catalyst, neutralizing the catalyst with a base, and subsequently separating the products from the reaction mixture.

2,350,351
APPARATUS FOR INSTRUCTING AND TRAINING STUDENT OPERATORS
Wsevolode Grunberg, Montreal, Quebec, Canada
Application March 5, 1940, Serial No. 322,289
30 Claims. (Cl. 35—12)



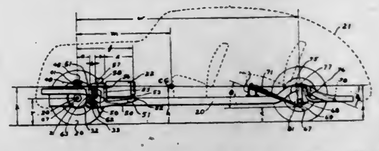
1. Apparatus for instructing and training student operators in the art of manipulating a plurality of coordinatable controls of a device requiring for desired operation the coordinated operation of a plurality of controls and which tends to a state of undesired operation unless said controls are continuously monitored, which comprises means for simulating the condition of the device to be controlled, means for effecting changes in the simulated condition of said device, and means operatively associated therewith to convey information to the student in synchronism with the changes in the condition of said device to indicate to the student the proper coordinated manipulations of said controls for bringing said device into a state of control conforming to that required for correct operation according to each change in the condition of said device.

2,350,352
AERONAUTICAL FUEL CONTROL VALVE
John Harding, Jr., Shaker Heights, Ohio
Application November 8, 1941, Serial No. 418,431
2 Claims. (Cl. 137—139)



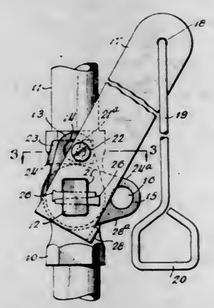
1. In a valve having a body portion provided with an inlet and an outlet, a valve seat in said body defining an opening providing connection between the inlet and outlet, said body having a bore therein, a closure for said bore fixedly secured to said body portion having an opening therein, a valve normally urged to closed position in said bore and having a stem extending through said opening, a seal operably connecting said stem and closure member to form a closed chamber behind said valve, a ledge rotatable relative to said closure member about the axis of the valve stem and constituting one wall of a casing provided with side and top walls, a solenoid in said casing for opening said valve, latch mechanism in said casing for holding said valve in open position, and a latch releasing solenoid in said casing, said casing having an inlet in the side thereof for entrance of electric wires to the solenoids whereby said casing with its solenoids and latch mechanism may be rotated to position the casing inlet in various positions without disturbing the seal between the valve stem and body portion.

2,350,353
AUTOMOBILE BRAKE AND SUSPENSION LINKAGE
Paul Heftler, Grosse Pointe Park, Mich.
Application July 20, 1938, Serial No. 220,369
12 Claims. (Cl. 280—124)



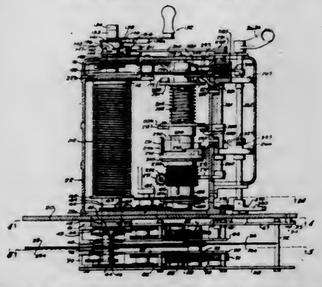
1. In a vehicle having a frame resiliently supported on two pairs of wheels and having brakes on all four wheels with the braking effort unequally distributed between the front and rear wheels, a linkage interconnecting one pair of wheels and its brakes and the frame and proportioned so that the retarding force caused by the brakes on that pair of wheels and the change in the pressure of the ground under those wheels when the brakes are applied and shift the effective weight of the vehicle a little from the rear wheels to the front wheels are transmitted to the frame entirely by the linkage as a single resultant force acting through a point between the spots where that pair of wheels touches the ground and at an angle to the horizontal whose tangent is equal to the height of the center of gravity of the vehicle divided by the product of the wheelbase of the vehicle and the fraction of the total braking effort that is applied to that pair of wheels.

2,350,354
CONTROL LEVER OR WRENCH FOR GAS METER INLET COCKS
Benjamin Herskovits, New York, N. Y.
Application March 23, 1942, Serial No. 435,794
1 Claim. (Cl. 251—152)



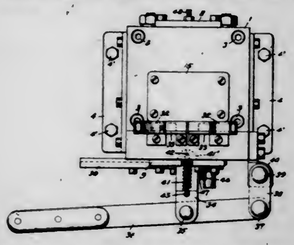
In a gas meter control cock, having a movable lock flange mounted upon a wrench spindle, and a stationary lock flange mounted upon the casing, the combination therewith of a link associated with said flanges and an operating lever for the wrench spindle of said cock combining with said movable flange to hold said lever upon the spindle and providing at least one lug serving as a stop for a portion of the operating lever in the operation of said spindle by engagement with the stationary flange accurately to position said flanges in the fully open position of said cock upon opening movement of said cock and serving accurately to align said lock flanges to the fully closed position of said cock in the converse operation of said lever.

2,350,355
SHUTTER MECHANISM
Louis B. Hoffmann, Los Angeles, Calif., assignor to Mitchell Camera Corporation, West Hollywood, Calif., a corporation of Delaware
Application May 19, 1941, Serial No. 394,122
46 Claims. (Cl. 95—61)



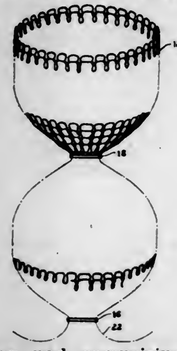
1. A shutter mechanism embodying an apertured shutter normally stationary but movable to cause its aperture to recurrently pass an exposure axis, shutter drive means adapted to accelerate the shutter into movement and to drive said shutter to move its aperture a plurality of times past said exposure axis, means to initiate driving of said shutter by said shutter drive means, an auxiliary shutter movable between positions in alinement and out of alinement with said exposure axis, means controlled by the drive initiating means independently of shutter movement for moving the auxiliary shutter out of alinement with the exposure axis, and means actuated in timed relation with the moving shutter to cause the auxiliary shutter to move into alinement with the exposure axis after a predetermined passage of the shutter aperture past the exposure axis and before the next succeeding passage of said aperture past said axis.

2,350,356
MACHINE FOR EXTRUDING LOADED COMPONENTS
Robert G. Jackson, Hopatcong, and Atwood H. Grover, Rockaway, N. J.
Application March 10, 1943, Serial No. 478,658
7 Claims. (Cl. 86—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)
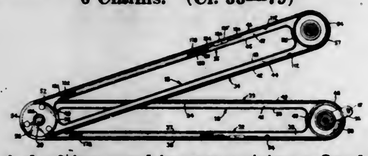


1. In a machine for extruding ammunition components from loading elements, in combination, reciprocable slides having openings therein, the openings in one slide being for the reception of the loading element before the extrusion of the component, and the openings in the other slide being for the passage of the empty loading element and the extruded component, means for reciprocating the slides to bring their openings into and out of registry, and means for extruding the component from the loading element.

2,350,357
SCOURING DEVICE AND METHOD FOR MAKING THE SAME
David J. Kelman, Brooklyn, N. Y.
Application April 3, 1941, Serial No. 386,582
3 Claims. (Cl. 15—2.09)



1. A scouring pad comprising an annularly rolled open-ended tubular fabric of wire mesh, one end of said fabric being gathered together by a rubber band to provide a top surface for said pad, said rubber band lying wholly beneath said surface, the bottom surface of said pad comprising a portion of said fabric disposed between the outer surface of the formed annulus and the center thereof, and means to maintain said portion in position, said means comprising a rubber band wholly above and disposed adjacent said portion.

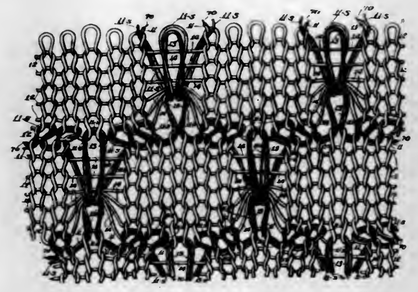
2,350,358
DRAFTING MACHINE
Carl W. Keuffel, Weehawken, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application April 24, 1937, Serial No. 138,759
6 Claims. (Cl. 33—79)



5. A drafting machine comprising a fixed head, a work head, link mechanism connecting the fixed head and the work head, each link of said link mechanism comprising pulleys in spaced relation, a flexible band passing around the pulleys and a casing surrounding the flexible band, and means to counterbalance the weight of the links comprising springs housed within the casings surrounding the flexible bands and connected to counterbalance the weight of the links.

2,350,359
SELF-CONFORMING, SURFACE-GRIPPING, READY-MADE KNITTED SLIP COVER FOR OVERSTUFFED UPHOLSTERED FURNITURE
Joseph A. Krasnov, Melrose Park, and Max M. Kuller, Allentown, Pa., assignors to Sure-Fit Products Company, Darby, Pa., a copartnership consisting of Joseph A. Krasnov and Samuel Krasnov
Application November 8, 1941, Serial No. 418,400
9 Claims. (Cl. 66—170)

1. A self-conforming knitted slip-cover comprising a generally envelope-like casing formed at least in part of complete knitted fabric panels composed of a preponderance of relatively non-elastic textile yarn loops having interspersed therethrough elastic threads tending to contract



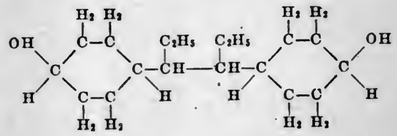
said panels, and relatively non-elastic snubber strands extending through said complete fabric panels limiting the extent to which said elastic threads may be stretched in said panels when the slip-cover is in use.

2,350,360
ESTERS OF SUBSTITUTED ACETIC ACIDS
Donald J. Loder, Wilmington, and Wilber O. Teeters, Roselle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application May 6, 1939, Serial No. 272,134. Divided and this application January 25, 1940, Serial No. 315,524
11 Claims. (Cl. 260—484)

1. A process which comprises alcoholysis of an ester of a substituted acetic acid, having the formula $CH_2(OCH_2Y)COOH$, in which Y is selected from the group consisting of hydrogen and alkoxy groups, with a compound selected from the group consisting of polyhydric alcohols and alkyl ethers thereof, the compound of the group boiling higher than the alcohol whose radical forms a part of the ester.

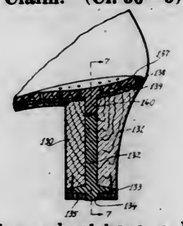
2,350,361
HYDROGENATION OF DIETHYLSTILBOESTROL
Randolph T. Major, Plainfield, Clarence C. Christman, Colonia, and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application July 12, 1940, Serial No. 345,204
5 Claims. (Cl. 260—631)

1. The product of the formula



2. The process comprising hydrogenating diethylstilboestrol over a catalyst for the hydrogenation of aromatic nuclei, and an ethylenic double bond, and selected from the group consisting of nickel and platinum.

2,350,362
NOVEL RESILIENT HEEL CONSTRUCTION
Meyer Margolin, Elgin, Ill.
Application March 29, 1941, Serial No. 385,823
1 Claim. (Cl. 36—3)



In combination a heel base, a heel lift and a rubber-like layer positioned between said heel base and said heel lift; an opening extending through the length of said heel base; a rubber-like core extending through said opening; and a resilient rubber member adapted to contact a wearer's heel, said resilient member having perforations extending therethrough and grooves located on the under side thereof to circulate air in that area; and means for contacting said resilient member and said core.

2,350,363
INSULATING COVERING
Robert F. Massa, New York, N. Y.
Application April 11, 1941, Serial No. 388,004
6 Claims. (Cl. 154—44)

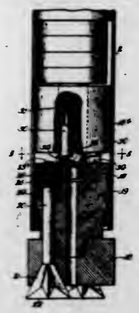


1. A heat insulator of the kind described and having fine interstices to permit the passage of air therethrough, which heat insulator comprises in combination a plurality of superimposed layers, each layer consisting of at least one sheet of unwoven, porous, felt-like fibrous material of tissue-like thinness, and spaced narrow, flexible stranded reinforcement extending in one direction, positioned between certain of said layers and attached thereto and spacing the layers, and additional, spaced, narrow stranded reinforcement extending in a direction at an angle to the direction of said first mentioned stranded reinforcement and positioned between other of said layers.

2,350,364
DEEP WELL DRILLING APPARATUS
James W. Menhall, Centralia, Ill.
Application March 17, 1941, Serial No. 383,765
3 Claims. (Cl. 255—4)

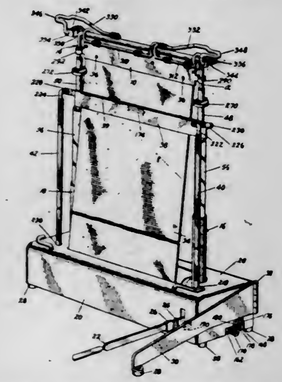
1. In a well drilling apparatus, a drill pipe, a drill bit rotatably attached to the lower end end thereof, fluid motor means responsive to the flow of drilling fluid through the apparatus for rotating the bit, the drill pipe and the bit having adjacent portions with opposing transaxial faces, the said face of the bit including a plurality of projections uniformly spaced around the axis of rotation of the bit, and each formed with a sloping surface inclined toward the opposing face of the pipe and ending at an abrupt shoulder approximately perpendicular to said face, the pipe carrying a plurality of spring-pressed plungers spaced around the axis of rotation of the bit in position to engage said projections as the bit rotates, said drill bit including a body portion and a plurality of drill points each having a shank slidably carried in said body with spring means upholding said shanks therein and with

the upper end of each drill shank adjacent the abrupt shoulder of one of said projections whereby rotation of the drill bit causes the



plungers to ride up the inclined faces of the projections and to be driven suddenly against the upper ends of the drill shanks as the abrupt shoulders of the projections pass under the plungers.

2,350,365
COPYHOLDER
Raymond J. Miller, Detroit, Mich., assignor to American Pattern and Manufacturing Co., a copartnership consisting of said Miller and Alfred E. Wilson, Detroit, Mich.
Application August 12, 1941, Serial No. 406,527
25 Claims. (Cl. 120—29)

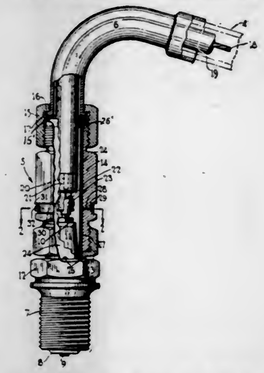


3. A copyholder comprising a generally horizontally extending sighting bar, a copy carrying member movable vertically relative to the sighting bar, transversely spaced groups of telescoping tubes supporting the copy carrying member, and motion transmitting means for actuating said groups of telescoping tubes in unison to move the copy carrying member.

2,350,366
MOISTURE-RESISTANT CELLOPHANE
James A. Mitchell, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 28, 1942, Serial No. 436,719
5 Claims. (Cl. 117—145)

1. A thin, flexible sheet material comprising a film of a moistureproof composition, said moistureproof composition comprising essentially 3%–50% wax and cementing material therefor, said cementing material being cyclized rubber in which is incorporated 0.5% to 50% (based on the cyclized rubber) of phenol formaldehyde piperazine resin.

2,350,367
VENTILATED RADIO-SHIELDED SPARK PLUG
Melville F. Peters, Beltsville, Md., and David Ingalls, Westfield, N. J., assignors to Titeflex, Inc., a corporation of New Jersey
Application April 6, 1942, Serial No. 437,910
31 Claims. (Cl. 123—169)



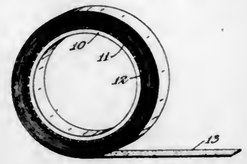
1. The combination with a spark plug having a central electrode, one end of which is a sparking point and the other end is adapted to be connected to a source of current supply, of a tubular, radio-shielding structure having in it an electrode chamber containing the last mentioned end of said electrode, said tubular, shielding structure having a lateral vent to the atmosphere from said chamber to the exterior of said shielding structure and an intake opening for fluid under pressure, and means for supplying fluid under pressure to said chamber through said intake opening.

2,350,368
MINERAL OIL LUBRICANT
Orland M. Reiff, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,230
12 Claims. (Cl. 252—46)

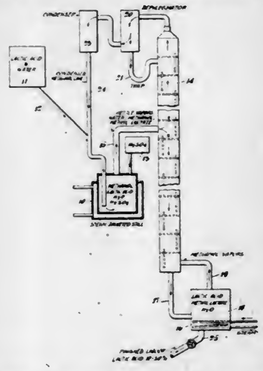
11. An improved mineral oil composition comprising a mineral oil having admixed therewith a minor proportion of an oil-miscible substantially stable monosulfide of an alkyl-substituted hydroxyaromatic hydrocarbon in which the hydroxyl hydrogen is substituted with the radical of an oxyacid which remains after removal of an acidic hydroxyl group therefrom.

2,350,369
TAPE ROLL AND CORE
Clarence B. Sampair and Elbert C. Lund, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application October 7, 1940, Serial No. 360,056
12 Claims. (Cl. 206—59)

1. As a new article of manufacture, a roll of tape wound under tension upon a permanent cylindrical core having a relatively rigid inner portion which maintains a substantially constant internal radius and having an outer portion which is contractible in response to excessive compressional forces in the tape and serves to indicate whether the tape has been wound with excessive tension, said outer portion having a thickness which is but a small fraction of its inner radius.

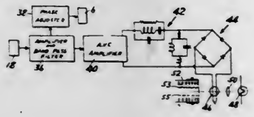


2,350,370
LACTIC ACID PURIFICATION
Herman H. Schopmeyer, Hammond, and Charles R. Arnold, Munster, Ind., assignors to American Maize-Products Company, a corporation of Maine
Application February 16, 1943, Serial No. 476,060
8 Claims. (Cl. 260—535)



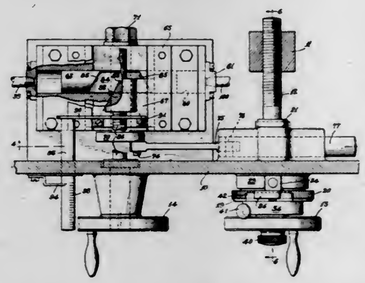
1. In making a purified lactic acid by a process involving separation of lactic acid from impurities therein at approximately atmospheric pressure, at a temperature not substantially above the boiling point of water, and with minimized production of volatile products from the impurities present, the method which comprises continuously forming an esterification mixture including an aqueous solution of the lactic acid to be purified, a low boiling aliphatic alcohol, water, and an acidic catalyst of esterification, heating the mixture to promote the formation of the lactic acid ester of the said alcohol, continuously distilling from the esterification mixture a vapor containing the said ester, alcohol, and water, delivering the vapor to a fractionating column, fractionating the alcohol from the mixture delivered to the column and removing the fractionated alcohol vapor from the upper end of the fractionation equipment, then condensing the fractionated vapor of the alcohol, returning a portion at least of the condensed alcohol to the esterification mixture, supplying heat at a position near the lower end of the fractionating column to the higher boiling material that accumulates there, so that the liquid in the column is maintained at approximately the boiling point at each level in the column, and withdrawing an aqueous solution of purified lactic acid at a point below that of the said position of supplying heat near the bottom of the column, the lactic acid ester in the column undergoing hydrolysis and the free alcohol resulting from the hydrolysis passing upwardly and out of the column.

2,350,371
BOREHOLE LOGGING APPARATUS
George A. Smith, Philadelphia, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application July 23, 1940, Serial No. 347,079
8 Claims. (Cl. 181—0.5)



1. Bore hole logging apparatus comprising means for generating acoustic waves in strata surrounding a bore hole, means comprising amplifying feed back devices forming, with said generating means and the strata, a system providing sustained oscillations having at least one substantial sinusoidal component, said system having variations in its operating characteristics depending upon the strata, said feed back devices being frequency-selective to sustain oscillations only of significant character, and means for indicating the variations of said characteristics with the strata.

2,350,372
FEED MECHANISM FOR MACHINE TOOLS
Ira J. Snader, Detroit, and Harold N. Seyferth, East Detfoit, Mich., assignors to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application May 29, 1940, Serial No. 337,826
11 Claims. (Cl. 74—120)

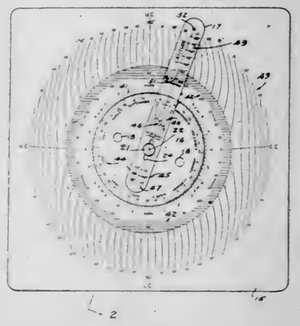


1. In a feed mechanism, the combination of a feed screw shaft, a ratchet on said shaft, a driven pawl cooperating with said ratchet, a knock-off shield including a supporting collar, a ring interposed between said collar and shaft and relatively rotatable to both, means for adjustably connecting said collar to said ring, means for releasably securing said ratchet and ring together, means operable when the securing means is released frictionally to hold said ring against movement with said ratchet, and lost motion connecting means between said ratchet and ring engageable to drive said ring against the force of the frictional holding means.

2,350,373
CHEMICAL PROCESS AND PRODUCT
Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application September 9, 1941, Serial No. 410,173
3 Claims. (Cl. 260—652)

1. A process for preparing 1,2,3,4-tetrachloro-2-methyl butane from a light oil isoprene fraction containing up to 90% by weight of isoprene and also containing other conjugated diolefine material of from 4 to 5 carbon atoms per molecule comprising chlorinating said fraction by the addition of approximately two mol equivalents of chlorine to approximately one mol equivalent of said isoprene.

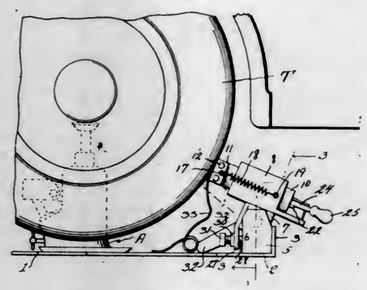
2,350,374
DEVICE FOR LOCATING CELESTIAL BODIES
Julius L. Speert, Washington, D. C.
Application July 1, 1943, Serial No. 493,030
6 Claims. (Cl. 35—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for determining the position of a celestial body, said device comprising a base member having indicia constituting an azimuth chart, a member rotatably mounted on said base member, one of said members having indicia constituting a time scale, the other of said members having indicia constituting a date scale, and an arm movable with said rotatable member and having indicia constituting a latitude scale adapted to travel over said azimuth chart, whereby an observer by adjusting said rotatable member to provide a relative setting of said date and time scales according to the date and time of observation may determine the azimuth of the celestial body by taking a reading of the azimuth chart opposite the reading on the latitude scale corresponding to the latitude of his point of observation.

2,350,375
TIRE REGROOVING DEVICE
Paul Stephens, Nacogdoches, Tex., assignor of twenty-five per cent to Lillard L. Brantley, Nacogdoches, Tex.
Application January 22, 1942, Serial No. 427,835
3 Claims. (Cl. 82—4)

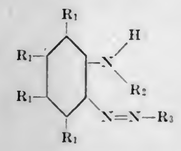
1. In a machine for grooving tires and the like, a supporting structure, a groove cutting assembly, said groove cutting assembly including a box, a cutter bar insertible into said box, a groove cutting blade carried by an end of said bar, a pressure lever operatively engaged for swinging movement with the box, said lever upon movement in one direction contacting with the end of



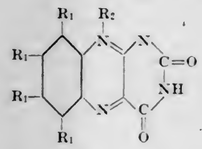
the cutter bar remote from the cutting blade to maintain the blade in working contact with the tire, and means for automatically retracting the cutter bar.

2,350,376
PROCESS FOR THE PREPARATION OF ALLOXAZINES AND ISOALLOXAZINES
Max Tishler, Rahway, N. J., and Gustaf H. Carlson, Pearl River, N. Y., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application August 28, 1941, Serial No. 408,662
10 Claims. (Cl. 260—211)

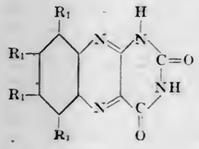
8. The process that comprises reacting barbituric acid with a compound of the formula:



wherein R_1 is selected from the group consisting of hydrogen, alkyl, and aryl; R_2 is selected from the class consisting of hydrogen, alkyl, polyhydroxyalkyl, and polyacyloxyalkyl; and R_3 is an aryl group; to form a substance selected from the class consisting of (1) compounds of the formula:

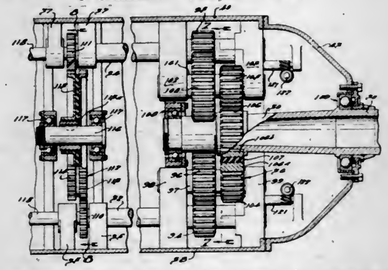


and (2) compounds of the formula:



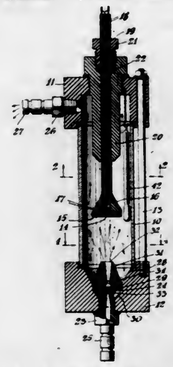
R_1 and R_2 having the meaning in each formula as before indicated.

2,350,377
AIRCRAFT ENGINE GEARING
John Tjaarda, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 3, 1940, Serial No. 343,841
9 Claims. (Cl. 74—410)



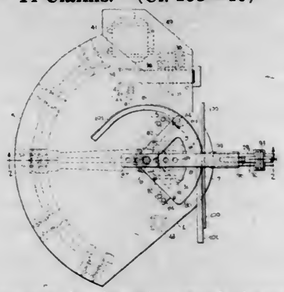
1. Gearing means to be used in connection with an internal combustion engine for driving a propeller shaft comprising a pair of substantially parallel crankshafts, a propeller shaft extending generally parallel to the crankshafts in a plane therebetween, a reduction gear drive between corresponding ends of said crankshafts and the propeller shaft, and a non-positive resilient driving connection independent of the propeller shaft between the opposite corresponding ends of the crankshafts.

2,350,378
METHOD AND SYSTEM OF APPARATUS FOR DETECTING AND CONTROLLING CHANGES IN COMPOSITION OF LIQUIDS
Charles F. Wallace, Westfield, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey
Application August 18, 1939, Serial No. 290,842
24 Claims. (Cl. 210—28)



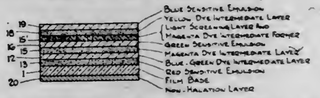
1. In a method of detecting changes in composition of a liquid containing material adapted to have depolarizing action upon an electrode polarized in said liquid, in combination, applying an external, unidirectional polarizing voltage across electrodes of which at least one is exposed to the liquid whose change in composition is to be detected and of which the other is electrically connected to said liquid to provide an electrical path through the liquid between the electrodes, for polarizing action on the exposed electrode, said polarizing voltage having a predetermined value less than 1.5 volts and adapted to produce polarization of the exposed electrode of an extent capable of detectable diminution by depolarizing influence in the liquid, and detecting the current between the electrodes produced by depolarizing action of the liquid upon the exposed electrode, as a measure of the content of the aforesaid material in the liquid.

2,350,379
MACHINE FOR BENDING METAL
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Mfg. Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 31, 1939, Serial No. 265,161
14 Claims. (Cl. 153—46)



1. A machine for bending workpieces comprising a source of power, an arm, a table supported adjacent its periphery by standards, the said arm being pivoted for movement about an axis intersecting the said table, an arcuate stationary rack mounted beneath the table on said standards, a pinion engaging the said rack and operatively connected to the arm and to the source of power, a bending die secured to the table, on top thereof, and bending-force applying means carried by the said arm to cooperate with the bending die in bending the workpiece.

2,350,380
PHOTOGRAPHY
Clayton F. A. White, Stelton, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 1, 1940, Serial No. 349,228
6 Claims. (Cl. 95—2)

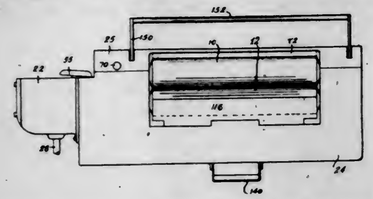


1. A photographic element comprising a transparent base having superimposed on one side thereof in order a red sensitive silver halide emulsion layer, a gelatin layer containing an immobile blue green color former, a gelatin layer containing an immobile magenta color former, a green sensitive silver halide emulsion layer, a gelatin layer containing an immobile magenta color former and a yellow light screening dye, a gelatin layer containing an immobile yellow color former and a blue sensitive silver halide emulsion layer.

2,350,381
WRINGER
Charles W. Williams, Cleveland, Ohio, assignor to Automatic Safety Wringer Company, a partnership
Application February 8, 1937, Serial No. 124,531
13 Claims. (Cl. 68—253)

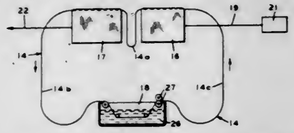
1. In a wringer with three rolls positioned to provide a pressure bite and an auxiliary bite,

a frame, said rolls carried in said frame with one roll contacting each of the other two to provide a pair of roll bites, shiftable means to establish



wringing pressure at either of said roll bites and positive means to drive the roll not acting as a pressure roll through the remaining of the other two rolls.

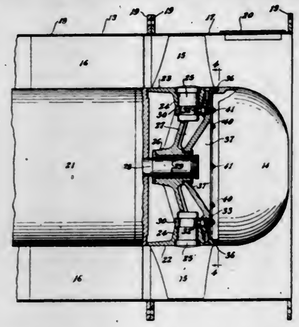
2,350,382
METHOD OF AND MEANS FOR STORING TELEGRAPH SIGNALS
Herbert Angel, Brooklyn, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application January 11, 1941, Serial No. 374,051
8 Claims. (Cl. 178—17)



1. The method of operating a telegraph system which comprises the steps of perforating a storage tape with a predetermined number of original perforations in each transverse section thereof, filling said perforations with a wax or like substance, removing an appreciable portion of the wax or like substance from certain of the original perforations in each transverse section of said tape to represent, according to a predetermined plan, signals to be stored, employing the tape with the wax or like substance removed to control the transmission of representative signals, and thereafter refilling the holes in said tape from which said wax or like substance was removed to enable the re-use thereof as a storage medium.

2,350,383
PITCH ADJUSTING MECHANISM FOR PROPELLER FANS
Charles N. Bebinger, New Philadelphia, Ohio, assignor to La-Del Conveyor & Manufacturing Company, New Philadelphia, Ohio, a corporation of Ohio
Application July 3, 1942, Serial No. 449,609
6 Claims. (Cl. 230—114)

1. In a propeller type fan located within an outer duct having a door therein, and having an inner fairing formed in part by the outer rim of a hub section, and a plurality of propeller blades mounted in and projecting radially from said hub section, pitch adjusting mechanism accessible exteriorly of said inner fairing through said door, said pitch adjusting mechanism including an adjusting member rotatable within said hub section, means operatively connecting said adjusting member to all of the blades whereby rotation of said adjusting member varies the pitch of said blades, means adjustably securing said adjusting member to said hub section outer rim for rotatable adjustment within a predetermined range, a ring located between said adjusting member and said hub section outer rim



for varying the range of rotation of said adjusting member, and means rotatably adjustably securing said ring to said hub section outer rim.

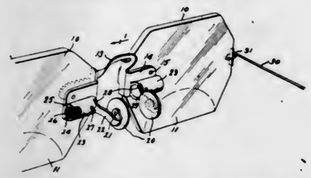
2,350,384
POLYMERIZED RESIN ALCOHOL
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 3, 1941, Serial No. 391,709
17 Claims. (Cl. 260—100)

1. A polymerized rosin alcohol.

2,350,385
CYCLIZED RUBBER CONTAINING BASIC AMINO POLYMERS
William Hale Charch, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 23, 1941, Serial No. 408,069
15 Claims. (Cl. 260—734)

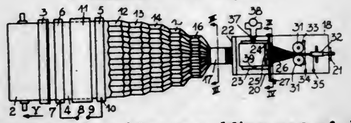
1. Sheet material coated with cyclized rubber containing a minor proportion of amino polymer insoluble in water and soluble in organic solvents and 2% acetic acid.

2,350,386
EYEGLASSES
John M. Christman, Detroit, Mich.
Application May 15, 1940, Serial No. 335,362
6 Claims. (Cl. 88—49)



1. Eyeglasses comprising two lenses, a bridge connecting the lenses, nose pads, mountings connecting the nose pads with the lenses such that the lenses may be shifted to upper and lower positions relative to the nose pads and yieldingly urged to the upper of said positions, and additional means tending to yieldingly urge the lenses from an intermediate position to either of said upper and lower positions.

2,350,387
WELDING ROD OR ELECTRODE
Camillo Cito, Uccle-Brussels, Belgium; vested in the Alien Property Custodian
Application February 7, 1941, Serial No. 377,905
In Belgium January 26, 1940
4 Claims. (Cl. 219—8)



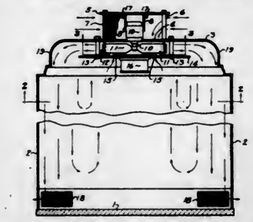
1. Process of making a welding rod of desired cross section, said process comprising longitudinally folding a sheet of relatively thin sheet metal in a manner to define several longitudinal channels on one side of the sheet, filling the channels with comminuted additive material, compressing the resultant so as to reduce the apertures of the channels and compact the additive material contained in the channels, said compressing being performed in a manner to cause portions of at least two channel walls to extend across the mouths of the channels and touch, and simultaneously welding the touching wall portions together to form a sealed casing preventing access of outside air to the additive material within the casing.

3. A welding rod comprising a casing formed of relatively thin metal sheet having longitudinal channels defined by longitudinal folds in the sheet, comminuted additive material filling the channels on one side of the sheet, with portions of the walls of some of the channels extending across the mouths of the channels and welded together to seal the additive material in the channels from the atmosphere.

2,350,388
ESTERS OF ACETYLLACTYLLACTIC ACID AND PROCESS FOR MAKING SAME
Houston V. Claborn, Arlington, Va., dedicated to the free use of the People in the territory of the United States
No Drawing. Application October 25, 1943, Serial No. 507,605
7 Claims. (Cl. 260—484)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

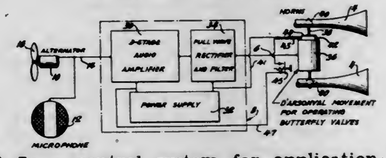
1. A process of preparing esters of acetyllactyllactic acid comprising causing esters of lactyllactic acid to react with an acetylating agent.

2,350,389
METHOD OF AND APPARATUS FOR VENTILATING ELEVATOR CARS
John S. Coulton, Cleveland, and Ira R. Disbro, Lakewood, Ohio, assignors to The W. S. Tyler Company
Application October 7, 1940, Serial No. 360,060
7 Claims. (Cl. 98—38)



1. In combination with an elevator car having an opening in the ceiling thereof, a panel below said ceiling and in spaced relation to the latter, said panel having an opening therein, and means disposed between said ceiling and panel for inducing a substantial flow of air downwardly through the opening in said ceiling and upwardly through the opening in said panel, said means blowing said induced air horizontally outward from the space between said ceiling and said panel.

2,350,390
HORN CONTROL SYSTEM
Robert M. Critchfield, Paul L. Schneider, and Brooks H. Short, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 27, 1940, Serial No. 337,338
4 Claims. (Cl. 177—7)

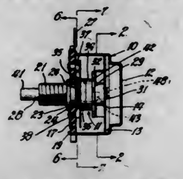


3. In a control system for application to a motor vehicle, a sound generating horn, magnetic means for varying the horn output, a plurality of voltage generating means, one dependent on air flow and one upon ambient sound, an amplifier connected to both the voltage generating means and to the magnetic varying means to cause variation of the sound output dependent upon the voltage generated.

2,350,391
PRODUCTION OF MIXED ESTERS OF CELLULOSE
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 18, 1941, Serial No. 389,197. In Great Britain May 9, 1940
12 Claims. (Cl. 260—225)

1. Process for the production of mixed esters of cellulose, which comprises esterifying a cellulose ester of an aliphatic acid containing less than six carbon atoms with the anhydride of an aliphatic acid containing at least six carbon atoms using a liquid esterification medium which contains the anhydride and a dissolved metal halide catalyst and which has at least a swelling action on the cellulose ester employed as starting material.

2,350,392
ELECTRIC SWITCH
William L. Dunn, Glenview, and Alexander W. Plensler, Berwyn, Ill.
Application June 23, 1941, Serial No. 399,258
3 Claims. (Cl. 200—6)



1. In a switch having frame means and circuit switching means, the combination including a rotary unit mounted on the frame means, an axially moving member connected with said ro-

tary unit and depressible from an idle position, spring means acting to return in one direction said moving member and rotary unit to idle position after the depressing of the same in the opposite direction, said rotary unit including a ratchet wheel with a plurality of angularly and equally spaced extensions thereon, and a pair of pawls mounted on said frame means, each pawl having a portion extending radially relative to the rotary unit axis and toward said axis with said radial portions being spaced apart in a direction longitudinally of said axis, and each said pawl radial-portion having a cam-faced portion extending substantially at right angles to the corresponding pawl portion, and said cam-faced portion having a cam face thereon and said two cam-faced portions extending toward one another, with said ratchet wheel extensions and said pawls being so constructed and arranged that two adjacent extensions straddle a pawl-radial-portion when the switch is in idle position, and one of said two extensions acts upon both cam faces in a complete reciprocation of said moving member in said two opposite directions to rotate said rotary unit to a position such that one of said two extensions and an adjacent third extension straddle said radial portion in the next succeeding rotary position of said control unit to said first mentioned idle position.

2,350,393

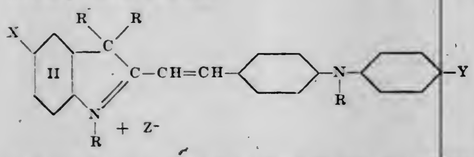
BASIC WATER-SOLUBLE DYESTUFFS

Bernd Eistert and Gerd Kochendoerfer, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 7, 1940, Serial No. 364,676. In Germany November 27, 1939

8 Claims. (Cl. 260—240)

1. Basic water-soluble dyestuffs corresponding to the general formula



wherein the letters R stand for low-molecular alkyl groups, Y stands for a member of the group consisting of hydrogen, low-molecular alkyl and alkoxy groups, Z stands for the anion of an acid and X stands for a group selected from the class consisting of the keto, carboxylic acid ester and amide groups wherein the carbon atom of the carbonyl is directly attached to the benzene nucleus.

2,350,394

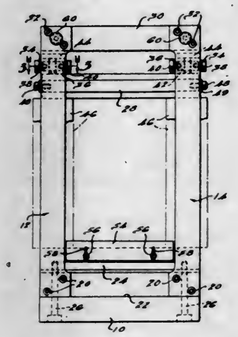
GAUGE FOR SETTING INTERNAL INSTRUMENTS

Elmer Ellstrom, Sr., Dearborn, Mich.

Application February 16, 1942, Serial No. 431,075

5 Claims. (Cl. 33—168)

1. A precision gauge comprising a base, spaced standards having front and back members carried by the base, a fixed bar having a smooth surface carried by the base, a movable bar carried by the front and back members of the spaced standards, an instrument locating bracket adjustibly secured at one longitudinal edge of the said fixed bar and extending an adjusted distance above the face thereof, the fixed and movable bars having confronting smooth parallel surfaces adapted to receive a gauge block, manually operable means to move the movable bar into engagement with the gauge block, clamping means to lock the movable bar relatively to the



front and back members of the spaced standards whereby internal measuring instruments may be accurately set to the measurement of the gauge block when in contact with the surface of the fixed bar adjacent the said instrument locating bracket and in contact with the parallel surface of the movable bar.

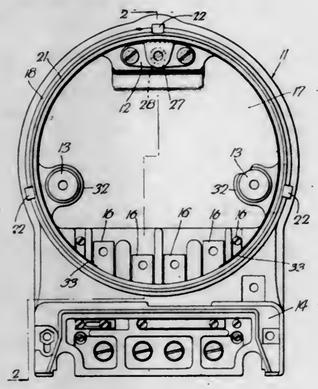
2,350,395

WATT-HOUR METER BASE

Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois

Application July 8, 1941, Serial No. 401,445

4 Claims. (Cl. 171—34)



1. A base for watt-hour meters and the like, comprising a body portion having a back wall, a forwardly extending side wall integral therewith having a narrow sealing rib adapted for the sealing of a cover thereagainst, and an auxiliary wall formed of spring steel positioned closely inside the side wall, in part at least flexibly positioned with respect thereto, extending rearwardly a substantial distance along the side wall from adjacent the sealing rib and extending forwardly of the sealing rib whereby it constitutes a barrier to attempts at entering the meter either through the side wall or adjacent the sealing rib.

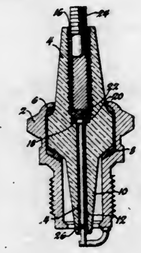
2,350,396

SPARK PLUG ELECTRODE

John R. Gretzinger, Alexander J. Battey, and Hector Rabezzana, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 22, 1941, Serial No. 411,814

6 Claims. (Cl. 123—169)



1. In a spark plug, an insulator, said insulator being tapered near the sparking end, a longitudinal opening through the insulator, an electrode in the sparking end of said opening out of contact with the walls thereof, a terminal in the other end of the opening, a plurality of closely spaced, outwardly extending projections on the electrode near its sparking end, and a bonded seal to form an electrical and mechanical joint between the electrode and the terminal and to hold the electrode in centered position in the opening.

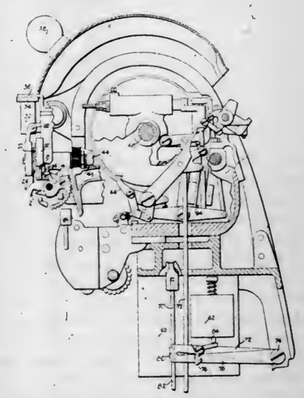
2,350,397

LOCK-STITCH SEWING MACHINE AND BOBBIN THEREFOR

Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 29, 1941, Serial No. 412,767

22 Claims. (Cl. 112—219)



2. A lockstitch sewing machine having, in combination, stitch forming devices including a needle, a loop taker, a supply of locking thread about which the loop taker passes each loop of needle thread, means for indicating approaching exhaustion of locking thread in the supply comprising a device actuated by light directed through the space normally occupied by a full supply of locking thread and across the path taken by each needle loop as it is passed over the locking thread supply, and response retarding means for preventing passage of each needle loop about the locking thread supply from rendering the light actuated device ineffective.

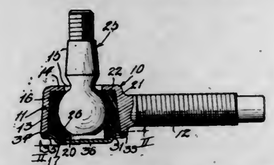
2,350,398

JOINT CONSTRUCTION

George H. Hufferd, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio

Application December 6, 1940, Serial No. 368,751

7 Claims. (Cl. 287—85)



1. A ball and socket joint comprising a housing, a rubber bushing in said housing defining a ball socket, a stud member having a ball end in said socket, a ductile metal-impregnated flexible fabric liner in said socket secured to said bushing and presenting a smooth glazed metal bearing surface in engagement with said ball end, and said ball end of the stud being larger than the lined ball socket of the bushing whereby the bushing is loaded to constantly urge the ductile metal bearing surface into full bearing engagement with the ball end.

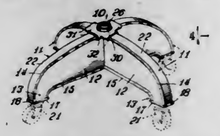
2,350,399

CHAIR BASE

Arthur E. Jones, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana

Application July 31, 1941, Serial No. 404,751

3 Claims. (Cl. 155—138)

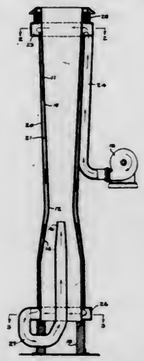


1. A built up metal base for a chair embodying therein a hub assembly and leg members connected at their inner ends to and extending outwardly from said hub assembly, which includes a center tube and top and bottom plates secured thereto, each with outwardly extending arms, one for each leg member, each leg embodying therein a pair of laterally spaced side plates with downturned outer ends and with inwardly facing flanges at the bottom thereof, a foot plate to which the downturned outer ends of the side plates of each leg are secured, means for holding the side plates of each leg in spaced relation, each leg also including a finishing strip secured to and covering the top marginal portions of the side plates thereof and extending from the associated arm of the top plate to the associated foot plate, the bottom plate abutting the lower end of said center tube and having an offset annular portion projecting into the end of said tube each arm of the bottom plate being engaged with and fixed to said inwardly facing flanges of said side plates at the inner end of the associated leg, the side plates of each leg being fixed at their inner ends to the like ends of side plates of two adjacent legs.

2,350,400
PRODUCTION OF RESINS
Wilbert A. King, Memphis, Tenn., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application December 27, 1940, Serial No. 372,008
7 Claims. (Cl. 260—32)

1. A process for producing styrene polymer which comprises subjecting monomeric styrene to polymerization at a temperature not exceeding 125° C. until the major portion of the monomer has been polymerized, adding to the monomer-polymer mixture an organic solvent for the monomer and polymer having a boiling point above that of the monomer, which solvent is inert with respect to the polymer and upon subjecting to heat to effect separation thereof from the polymer does not react to form non-volatile residue or constituents deleteriously affecting the polymer, and distilling the resultant mixture at a temperature not substantially above the polymerization temperature to remove as distillate from the mixture a sufficient portion of the added solvent to insure simultaneous removal as distillate of substantially all the monomeric styrene present.

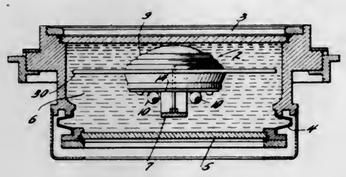
2,350,401
DRAFT PRODUCING APPARATUS
Strickland Kneass, Jr., Boylston, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application September 25, 1941, Serial No. 412,330
7 Claims. (Cl. 230—96)



1. Apparatus for the drafting of hot gases comprising a conduit for the flow of the gases to the atmosphere, a nozzle arranged to discharge air into the conduit to entrain the gases and cause flow thereof in the direction desired, means providing a passage through which air may flow and be subjected to heating by the gases flowing in a region anterior to the nozzle, means to supply air to the passage at a pressure above atmosphere, and means to conduct the heated air from the passage to the nozzle.

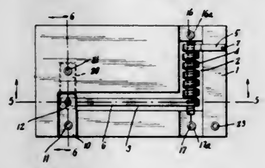
2,350,402
MAGNETIC DIRECTION INDICATING INSTRUMENT
Shelley Krasnow, New York, N. Y., and Joseph M. S. Kaufman, Washington, D. C.
Application June 20, 1941, Serial No. 399,014
2 Claims. (Cl. 33—223)

1. In a magnetic compass for indicating the direction of the magnetic meridian, a moving dial supported so as to be rotatable in a substantially horizontal plane and to point in the direction of the magnetic meridian, a plurality of magnetic elements affixed to the said moving system so as to cause the orientation thereof the said magnetic elements being rigidly interconnected to form an integer, the said integer being movable relative to the remainder of the moving system to permit adjustment of the magnetic elements relative to the moving system, and clamping means to clamp the integer containing the mag-



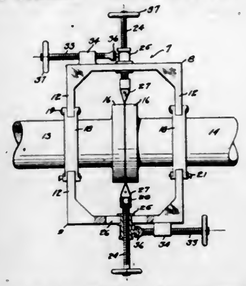
netic elements after adjustment has been made, the said magnetic elements being in the form of tapered members, being tapered in both the horizontal and vertical planes, and, having their enlarged portions nearest to the center of rotation, and their smallest portions remote from the center of rotation, the said disposition serving to reduce the moment of inertia of the magnets about the center of rotation and further serving to cause a minimum of disturbance in the fluid in which the magnets are immersed when rotation takes place.

2,350,403
TWO-WAY FLASHER AND CIRCUIT CONTROL
Eugene R. Kulka, Mount Vernon, N. Y.
Application February 10, 1941, Serial No. 378,186
2 Claims. (Cl. 200—122)



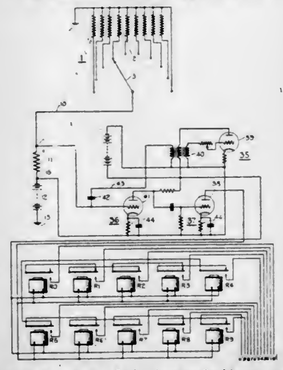
1. A two-way flasher comprising a base made of insulating material, a bi-metallic and heat-responsive helix which has a first extension and a second extension, the first extension being rigidly fixed to the base, said base having a slot in which the second extension is movably located so that the second extension can move relative to the base when the temperature of the helix is changed, the second extension being located between respective metal plates which are respectively rigidly secured to the base and which are insulated from each other, the second extension being movable to make electrical connection with either one of said metal plates, said second extension being biased to normally make electrical connection with one of said metal plates, a heating coil located inwardly of said helix and spaced from said helix, the ends of said heating coil being connected to the base at spaced points thereof, a conductor connecting one end of said heating coil to the metal plate with which said second extension is normally in electrical connection.

2,350,404
FLANGE SPREADER
William P. Liston, Richmond, Calif.
Application April 27, 1943, Serial No. 484,724
6 Claims. (Cl. 254—100)



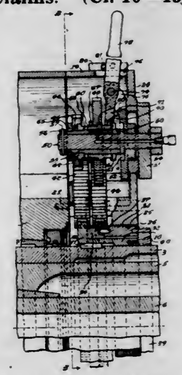
1. In a portable device for spreading apart abutting end flanges of adjoining pipe sections, spaced gripping units each formed to embrace the pipe sections inwardly of the flanges, supporting members extending between said gripping units at transversely opposite sides of the sections and in spaced relation from the flanges, and wedge members mounted on said supporting members for adjustment longitudinally of the sections and movable to and from each other for insertion and retraction between the flanges.

2,350,405
AUTOMATIC METER READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 2, 1940, Serial No. 349,981. Divided and this application April 18, 1942, Serial No. 439,540
1 Claim. (Cl. 250—27)



In an apparatus for translating voltages of slightly different magnitudes and representative of digits into voltages of relatively widely different magnitudes, a receiving and transmitting electronic circuit including an amplifier tube having an input circuit and an output circuit, means for selectively applying said slightly different voltages to said input circuit, an oscillator tube for generating alternating current of a definite frequency and having an input and an output circuit, means operatively connecting the input circuit of said amplifier tube to the output circuit of said oscillator tube to control the constant frequency oscillations produced by the latter in accordance with said applied voltages, an alternating current power amplifier having an input circuit and an output circuit, means operatively connecting the output circuit of the first amplifier tube to the input circuit of said power amplifier tube whereby marginal voltages of widely different amplitudes will be transmitted in the output circuit of said power amplifier tube.

2,350,406
MILLING MACHINE
Henry J. Leisner, Philadelphia, and Harry C. Sheaffer, North Hills, Pa., assignors to The Hall Planetary Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 18, 1943, Serial No. 491,300
4 Claims. (Cl. 10—154)



1. In a machine of the class described, a rotatable main container, means for rotating the container, a fixed nut surrounding the container, a threaded ring cooperative with the nut, a gear rotatable with the container, a second gear rotatable independently thereof, driving means between the second gear and the ring, a gear train interposed between said gears including a pair of pinions, a shaft adjustable to different positions with respect to the container, means for holding the shaft in adjusted position, a bushing on the shaft removably supporting one of the pinions, a clutch element slidable on the bushing removably supporting the other pinion and movable into and out of driving connection with the first pinion, a lever for shifting the element, and means for supporting the lever in the same relation to the shaft irrespective of the adjusted position of the latter, whereby when said element has driving connection with the first pinion rotation of the container is operative to turn the ring in the nut and thereby cause axial movement of the container and when said element is shifted out of said driving connection by operation of the lever the ring remains stationary in the nut.

2,350,407
AIRPLANE LANDING FIELD LOCATIONING SYSTEM AND MEANS
Thomas E. McDowell, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application September 5, 1941, Serial No. 409,705
2 Claims. (Cl. 177—352)

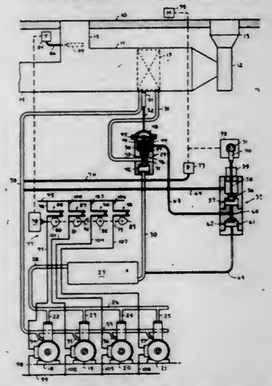
1. A system for enabling incoming air pilots to determine just before reaching a landing field the exact location of the field when the runway, border and other lights on the field are invisible from above by being obscured by a comparatively low ceiling of smoke, fog, haze, or the like, comprising beam projectors installed at various sides

of the field with means for operation thereof for synchronous oscillation of the beams at predetermined intervals toward and away from the field in vertical planes passing through the field center, said projectors being located a distance of say from one to three miles away from the



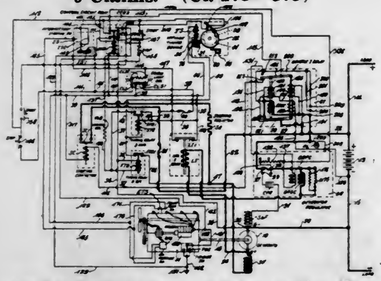
field whereby a pilot may safely circle around the field under guidance of the projectors and the projected beams and determine therefrom the exact location of the field to enable him then to approach below the obscuring conditions for guidance thereafter to the runways by the runway and border lights.

2,350,408
DIRECT EXPANSION AIR CONDITIONING CONTROL SYSTEM
William L. McGrath, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 28, 1941, Serial No. 395,584
22 Claims. (Cl. 62—6)



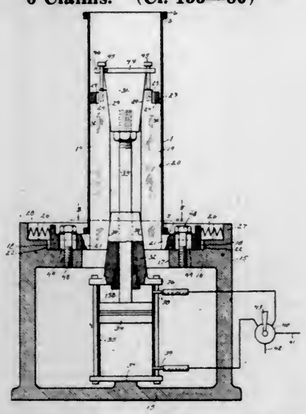
1. In an air conditioning system, in combination, a direct expansion type refrigerating apparatus including an evaporator, means comprising a plurality of compressors whereby the amount of refrigeration produced by the apparatus may be varied, means for passing air to be conditioned over the evaporator whereby the air is cooled and dehumidified, means responsive to a condition of the air being treated for controlling said compressors to control the amount of refrigeration produced by the refrigerating apparatus, and means including a valve controlling the supply of refrigerant to the evaporator, said last means being responsive to evaporator pressure and arranged to control the admission of refrigerant to the evaporator in a manner to maintain the evaporator pressure substantially constant while the amount of refrigeration produced by the refrigerating apparatus is varied.

2,350,409
ELECTRICAL TIMING SYSTEM
Lee W. Melcher, Oconomowoc, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a corporation of Wisconsin
Original application June 21, 1940, Serial No. 341,747. Divided and this application September 5, 1942, Serial No. 457,507
6 Claims. (Cl. 175—375)



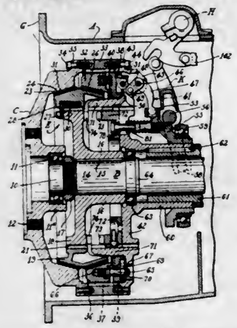
1. An electrical timing system of the character described comprising a slow opening relay having its contacts normally closed and adapted to open said contacts upon energization of said relay, a slow opening relay having its contacts normally open and adapted to reopen said contacts upon deenergization of said relay, an energizing circuit for said second relay including the normally closed contacts of said first relay, an energizing circuit for said first relay including the normally open contacts of said second relay whereby each relay will be intermittently energized and deenergized in a predetermined time cycle, and impulse operated means adapted to be actuated upon each energization of one of said relays.

2,350,410
APPARATUS FOR TRUING UP TUBULAR BODIES
Chalmer E. Murphy, Cleveland Heights, Ohio, assignor to Porcelain Steels, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 25, 1940, Serial No. 367,077
6 Claims. (Cl. 153—80)



1. In a machine for working the metal of a tubular metal body, a main frame; a plurality of radially extending guide ways on the frame; a plurality of parallel, elongated expander elements disposed in a cylindrical series around an axis and having feet respectively slideable in the guide ways; springs yieldingly constraining the feet and their associated expander elements to move toward the axis; the expander elements having faces defining a cylindrical surface; cone elements projected axially into the series of expander elements at each end thereof; means to force the cone elements into the series of expander elements to move them outwardly radially, comprising a cylinder connected to one cone element and a piston in the cylinder and a piston rod connected to the other cone element and extending to the piston through the one cone element; means to communicate fluid pressure to the cylinder on one side of the piston to move the cone elements toward each other to spread the expander elements apart, and to communicate fluid pressure to the other side of the piston to move the cone elements toward each other to relieve the force from the expander elements.

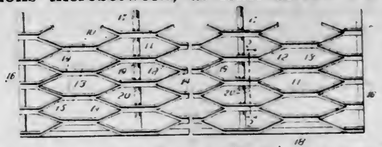
2,350,411
CLUTCH MECHANISM
Arthur T. Nabstedt, Hamden, Conn., assignor to The Snow-Nabstedt Gear Corporation, a corporation of Connecticut
Application March 21, 1941, Serial No. 384,460
8 Claims. (Cl. 192—53)



1. In clutch mechanism, the combination of a power-driven member mounted for rotation adjacent one end of a shaft, said power-driven member being generally of flange form, a hub fixed to said shaft adjacent said power-driven member and having oppositely inclined cone friction surfaces movably associated with its periphery, clutch elements associated with the peripheral portion of said flange adapted to engage said cone surfaces for driving the hub, a web connected to the peripheral portion of said flange, said web carrying a forwardly directed flange-like member located radially inwardly of said clutch elements, and a positive clutching member for driving said hub positively having slidable keyed engagement with said forwardly directed flange-like member.

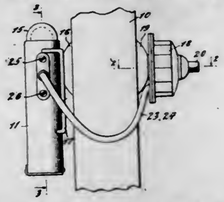
2,350,412
RETICULATED METAL WALKWAY AND METHOD OF PRODUCING SAME
Arthur W. Nelson, Park Ridge, Ill., assignor to Apex Railway Products Co., Chicago, Ill., a corporation of Delaware
Application September 4, 1941, Serial No. 409,447
9 Claims. (Cl. 189—82)

1. A walkway embodying therein an open work tread panel that includes a plurality of spaced relatively thin sheet metal parts, laterally spaced relatively thick metal bars having edge portions to which said panel is secured for support, longitudinally spaced parts of said edge portions being thinner than other and thicker parts of said edge portions therebetween, at least certain of said



spaced relatively thin sheet metal parts having a welded edge to edge engagement with said thinner longitudinally spaced parts of said bars.

2,350,413
PORTABLE SIGNALING AID FOR THE DEAF AND HARD OF HEARING
Theodore Ordman, Brooklyn, N. Y.
Application March 1, 1940, Serial No. 321,632
5 Claims. (Cl. 177—329)

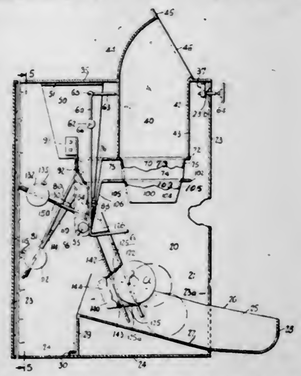


1. A portable signaling device for the deaf and hard of hearing comprising a casing, an electric light carried by said casing, a battery carried with respect to said casing, means carried by said casing and adapted to be removably attached to a support, said electric light being connected in an electric circuit with said battery, and operational control means for said electric circuit comprising housing means whose outward form instinctively indicates the signaling function of said device, a holding switch in said housing means for closing and opening said electric circuit, means carried by said housing means for removably attaching the latter to a support on the opposite side of a closure member from said first-named support and electrical connection between said switch and said circuit in said casing, said connection being admeasured to pass readily through crevices available about said closure member.

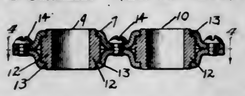
2,350,414
COIN TESTER
Walter H. Parnell, Brooklyn, N. Y., assignor of one-fourth to Leo Eisenberg, one-fourth to Wilbur A. Wourters, and one-fourth to Nathan Rothenberg, all of Brooklyn, N. Y.
Application June 5, 1941, Serial No. 396,680
3 Claims. (Cl. 265—50)

1. In a coin tester the combination of a housing, a detachable cover at the upper end of the housing, a main inlet conduit for coins to be tested extending from the outside of the cover to the inside of the housing, said main inlet conduit having side walls and end walls, a pair of brackets spaced from each other extending from said cover, a shaft with its ends supported in the lower ends of said brackets, a pair of counterbalanced conduit levers, one over the other and in vertical alignment with each other hinged to said shaft, the conduits of the levers decreasing in size from the top one to the bottom one, the conduit of each of the levers comprising side walls and a pair of end walls, one end wall of the main inlet conduit and one end wall of the upper

lever conduit each having a clearance opening at its lower portion whereby the upper part of a coin of proper weight supported by a lever may upon tilting of the lever pass through the clearance opening, immediately above, said main conduit adapted to permit coins of different denominations to pass therethrough, a manual release lever pivoted to one of said brackets, a hook end at the lower end of said release lever, a pin extending from the top conduit lever adapted to be engaged by the release lever and a discharge chute for the coins at the lower end of the housing extending from the inside to the outside thereof.

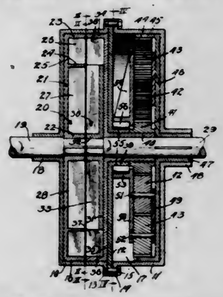


2,350,415
GAUGE HOLDER
George A. Paulsen, Chicago, Ill., assignor to Northern Tool & Die Co., Chicago, Ill., a corporation of Illinois
Application February 16, 1943, Serial No. 476,095
4 Claims. (Cl. 33—178)



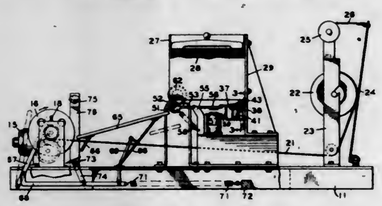
1. A gauge holder comprising a pair of superimposed plates, oppositely directed bosses on said plates provided with apertures, and means for drawing said plates together.

2,350,416
FLUID DRIVE
Nelson I. Perry, Chicago, Ill.
Application January 29, 1943, Serial No. 473,966
2 Claims. (Cl. 74—189.5)



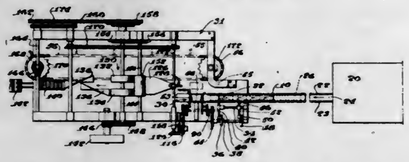
1. A unitary fluid drive assembly comprising a cylindrical housing having a dividing wall intermediate its ends dividing the housing into a hydraulic chamber and an adjacent gearing chamber, a drive shaft extending into the hydraulic chamber and an impeller element in said chamber secured to the driving shaft, said hydraulic chamber being filled with hydraulic fluid, a driven shaft extending through said gearing chamber and into said hydraulic chamber, a secondary runner in said hydraulic chamber secured to the driven shaft and opposed to said impeller element, a primary runner in said hydraulic chamber having a hub extending therefrom through said gearing chamber to receive said driven shaft, a sun gear secured to said primary runner hub, an annular gear in said gearing chamber secured to said driven shaft, an annular gearing cage in said gearing chamber, transmission gears journalled in said cage between said sun gear and said annular gear, and a one-way brake in said gearing chamber connecting said cage with said housing dividing wall.

2,350,417
SUPPLY ROLL FOR BLANK SHEETS
Garvice H. Ridings, Summit, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application August 9, 1941, Serial No. 406,215
16 Claims. (Cl. 242—59)



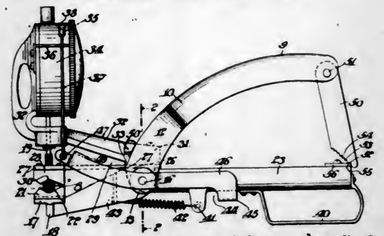
8. A machine comprising a rotatable spool support, means for supplying an elongated belt to a spool on said support for winding thereon, a slide for directing separate sheets successively into position relatively to said belt for winding therewith to form a supply reel of separate sheets, means for feeding separate sheets successively to said slide including a magazine for sheets, means for ejecting single sheets from said magazine to said slide, and means controlled by a sheet being drawn off said slide by said spool for actuating said ejector.

2,350,418
APPARATUS FOR PRODUCING FILLED PACKAGES
Norman Stanley Ross, Glen Ellyn, Ill., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application August 16, 1941, Serial No. 407,172
13 Claims. (Cl. 93—6)



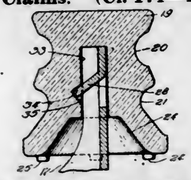
1. The combination with container filling means of means for cutting the uncut top closing flaps of the container substantially down to the level of the material after the container has been filled.

2,350,419
TENSIOMETER
Henry J. Sang, Moylan, Pa.
Application May 26, 1942, Serial No. 444,599
9 Claims. (Cl. 265—1.6)



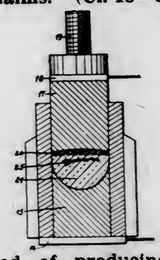
1. A tension meter comprising a lever, a pair of relatively spaced cable-contacting members mounted rigidly on one end of the lever, a second lever pivoted to the first lever and carrying a plunger operated indicator, a plunger extending from the indicator toward a line extending between the members, an elastic element mounted rigidly at one end to the second lever and extending under the plunger, a cable-contacting element mounted on the elastic member and presenting toward and located between the first mentioned spaced members, the relative movement of the levers on their pivot causing the respective members to engage a cable and thus to deflect the elastic element, the plunger being moved relative to the indicator to actuate same to measure the deflection of the element and thus the tension of such cable, a snubber friction device on said indicator, means including a finger-piece juxtaposed to the first mentioned lever and operative independently of compression of the levers to release the snubbing friction device during test compressions and to reengage the friction device before the compression is released so as to retain a secured reading, said device including a substantially radially movable spring pressed plunger, said last mentioned means comprising a rod having a cam face superposed on said plunger and a supplemental lever pivoted to the first mentioned lever and pivoted to said rod so that the movement of the supplemental lever in one direction depresses the plunger of the device.

2,350,420
INSULATOR MOUNTING
Lorell J. Schilling, Brookfield, Ill., assignor to Babson Bros. Co., a corporation of Illinois
Application September 4, 1941, Serial No. 409,582
4 Claims. (Cl. 174—158)



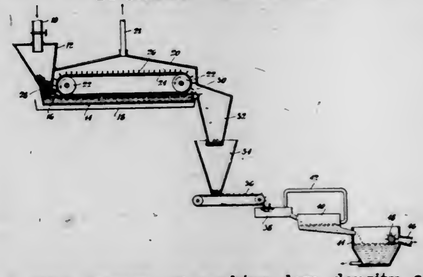
1. Apparatus of the character described, including: a generally cylindrical insulator having an axial rectangular opening therein having a pocket in one wall providing a shoulder; and a metal supporting member having a channel portion adapted to be at least partially snugly received in the opening, said portion being provided with a tongue adapted to be forced out into engagement with said shoulder to lock the insulator on the supporting member.

2,350,421
METHOD OF PRODUCING INLAID JEWELS
William P. Schoder and Joseph P. Ruth, Denver, Colo.
Application January 22, 1941, Serial No. 375,470
2 Claims. (Cl. 18—59)



1. The method of producing inlaid jewels wherein the inlay is magnified in apparent floating relation against a contrasting background, which consists of charging a concaved mould with a quantity of raw, transparent plastic material sufficient to form a relatively-deep, convex lens, laying an open mosaic pattern of heat-resistant particles on the smoothed, substantially-plane upper surface of the initial mould charge, covering said pattern with a shallow layer of the same raw transparent plastic material, completing the mould charge with a layer of raw plastic material pigmented to be opaque in final moulded condition, and applying heat and pressure to the charged mold to respectively melt and compact the plastic in homogeneous, enclosing relation through and about said pattern.

2,350,422
CORK PRODUCT AND PROCESS OF MAKING THE SAME
Charles H. Schuh, Ridgewood, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application August 7, 1941, Serial No. 405,824
14 Claims. (Cl. 202—18)

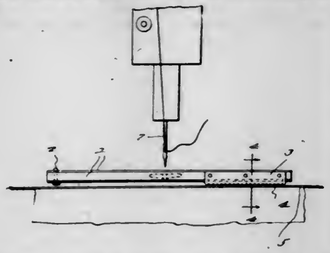


1. The process of making low density cork pieces adapted for insulation and the like, comprising providing a multiplicity of cork pieces to be treated, submerging said cork pieces in and in direct contact with a liquid medium substantially non-absorbent and non-adherent with respect to cork, and having a temperature between 580° F. to 720° F. and maintaining said cork pieces in said liquid medium for a total period not exceeding about four minutes.

2,350,423
SEWING APPLIANCE
Hattie H. Sinning, Canton, S. Dak.
Application July 14, 1943, Serial No. 494,716
1 Claim. (Cl. 223—110)

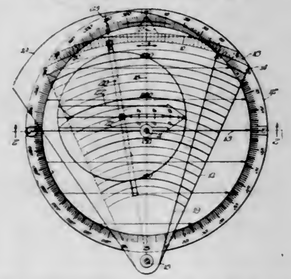
A sewing appliance of the character described comprising a pair of opposed, coacting jaws piv-

otally connected at one end, said jaws being substantially channel-shaped in cross-section for receiving a button therein and frictionally gripping



said button therebetween, and toothed bars on the free end portions of the jaws engageable with the material to which the button is to be sewed, said jaws tapering toward their free ends.

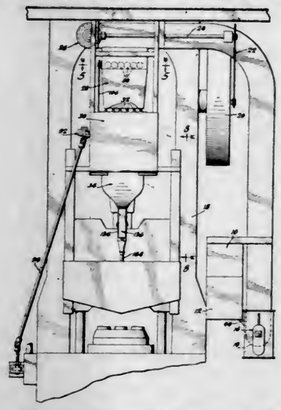
2,350,424
AIRCRAFT NAVIGATING DEVICE
Wallace W. Smith, Chicago, Ill.
Application July 24, 1941, Serial No. 403,882
6 Claims. (Cl. 33—76)



1. A base representing a compass graduated in degrees, a disk pivoted at its center and permitting said graduations to be seen, said disk having parallel lines thereon suitably marked to indicate wind direction and adapted to cooperate with the compass graduations, a ground segment pivoted at the same center and carrying a pivoting pin removed a considerable distance from its own pivot, the line passing thru said pivots being provided with means for indicating its position with respect to the compass graduations, said line being graduated to represent miles per hour, a second segment adjustable on the pivot carried by the first segment, and having a radial slot therein, an eyelet adjustable in said slot, and a wind arrow pivotably adjustable on said eyelet and having graduations to represent miles per hour drawn at the same scale as those on the ground segment.

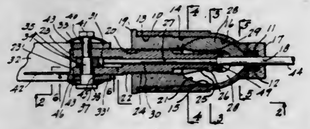
2,350,425
MATERIALS HANDLING SYSTEM
George A. Spalding and Marley A. Palmer, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 2, 1942, Serial No. 433,022
9 Claims. (Cl. 78—99)

1. In combination, an endless belt conveyor, means to supply cut stock to the conveyor, a distributor adapted to receive stock from the conveyor, a heater positioned to receive stock from the distributor by means of gravity, a stop engaging the stock to hold the same in position to be heated, stop retracting means, a chute positioned to receive stock from the heater when the stop is retracted, a metal working machine



positioned to receive stock from the chute and means for actuating the conveyor, distributor, and stop retracting means in synchronism with the metal working machine.

2,350,426
WELDING STINGER
George H. Thompson, Oakland, Calif.
Application June 8, 1943, Serial No. 490,097
7 Claims. (Cl. 219—8)

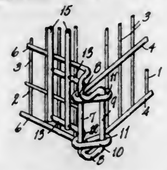


1. A chuck for a welder's stinger comprising; a handle; a sleeve having a chamber circular in cross-section and substantially ellipsoidal longitudinally, jaws having a form in which the respective ends fit the respective circular ends of said pocket with each jaw having an internal groove approximately midway of its length, a chuck adjusting member threadedly operable in said sleeve; a pivot connecting one end of said chuck adjusting member to said handle for relative angular adjustment; said chuck adjusting member having a collar formed at its other end fitting in said grooves in said jaws for actuation thereof through rotation of said sleeve relative to said chuck adjusting member; whereby said jaws pivot about said collar to respectively grip and release a welding rod with advance and retraction of said chuck adjusting member.

2,350,427
MEAT MOLD
Don L. Tichenor, Battle Creek, Mich., assignor to United Steel & Wire Company, Battle Creek, Mich.
Application September 14, 1942, Serial No. 458,291
6 Claims. (Cl. 292—218)

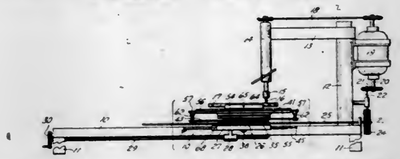
1. In a meat mold, the combination of a pair of pivotally connected wall members and closure means for said wall members, said closure means including cross pieces arranged in pairs and disposed crosswise each wall member, the cross pieces of the pairs on one wall member having their outer swinging ends integrally connected

to cross bars outwardly offset from said wall and constituting keepers, the cross pieces of the pairs on the other wall member terminating at their outer swinging ends in loops extending outwardly and then for a substantial distance rearwardly, pairs of said loops having their outwardly and rearwardly extending portions integrally connected to cross bars constituting latch pivots disposed rearwardly of the keepers when the walls are in closed position, and a latch comprising a plurality of pairs of hook elements pivotally mounted on said pivots, said hook elements having arm portions extending beyond their hooks and merging therein with reversed curves dis-



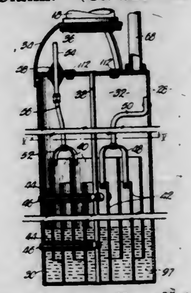
posed to provide keeper receiving recesses facing said latch pivots, a bar connecting the arm portions of said hook elements, certain of said hook element arms being extended beyond said bar and joined by a cross piece constituting a hand piece, said hook elements being swingably engageable over said keepers and conformed to engage them with a camming draw action, said latch pivots, keepers and hook elements coacting to provide springable camming locking engagement, the inner portions of said loops having positive retaining engagement with said keepers, when the hook elements are springably engaged over said keepers for locking engagement therewith.

2,350,428
MACHINE FOR PRODUCING OVAL OBJECTS AND FRAMES
Joseph Torma, Hamilton, Ontario, Canada
Application April 22, 1943, Serial No. 484,101
8 Claims. (Cl. 144—134)



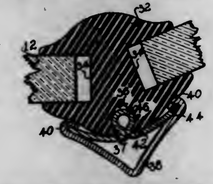
1. In an apparatus for directing a work table in an ovate circuit in travelling registry with a stationary tool, a supporting bed, a stationary upstanding centre pin associated with the bed, a rotary driven member centred on said pin, a horizontally extending power arm solidly associated with said rotary member and adapted to regularly rotate therewith about the axis of said pin, a similar following arm extending substantially opposite the first arm and free on said pin, a revolvable slide, a slideway reciprocally movable along said slide, a sleeve solidly mounted on the slideway, a work table solidly mounted on said sleeve for controlled rotary and reciprocal movement together with the slideway, opposed reciprocal members opposingly movable within the sleeve, means for imparting oppositely directed movement to one reciprocal member by the other, one said reciprocal member being pinned to the power arm and the other member to the following arm, said arms alternately falling in co-aligned position and in unaligned position twice during each table revolution, said table reciprocating as one with the slideway twice during its revolution on a range equal to the distance between a line drawn between the axes of the arm pinnings when the arms lie at their maximum deviation from co-alignment and a line drawn parallel to the first line through the axis of the vertical centre pin, whereby an oval is described by the stationary tool on work properly supported by the table during a cyclic operation consisting of a single revolution produced simultaneously with two complete back-and-then-forward movements of the table.

2,350,429
ELECTROHYDROTHERMIC OIL-WELL PROCESSOR
Donald F. Troupe, Kansas City, Mo.
Application May 17, 1941, Serial No. 393,991
1 Claim. (Cl. 219—33)



In a processor for an oil well having a pump barrel extending thereinto, a boiler; means for attaching the boiler to the lower end of the barrel; electrode plate in the boiler; an electrolyte submerging at least a part of the electrode plate; a source of electrical energy; conductors joining the said source and the electrode plates; and a supply pipe for the liquid in connection with the boiler extending to the latter from the ground surface, said supply pipe having a series of transverse partitions therein each provided with an orifice appreciably smaller in diameter than the inside diameter of the said pipe.

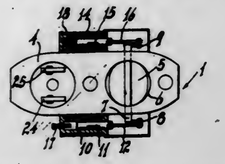
2,350,430
WINDOW MOLDING
Theodore Ulrich, Milwaukee, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application August 29, 1941, Serial No. 408,769
5 Claims. (Cl. 296—84)



1. A windshield divider comprising a deformable unitary divider strip arranged to be sealed between the edges of a windshield and defining oppositely presented lateral grooves and a groove in the forward surface thereof, a two-part continuous trim strip comprising an exposed part V-shaped in cross-section and having return flanges formed along the edges thereof, a clip extending longitudinally of said strip and having its edges retained between said strip and said return flanges, and a projection formed in the rearwardly presented surface of said clip and

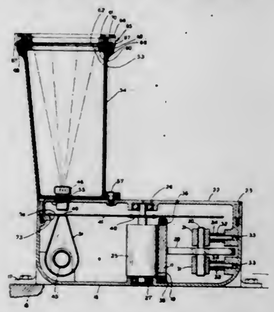
positioned within said groove to fill said groove, expand said divider strip and support said trim strip on said divider strip, said return flanges lying in contact with the forwardly presented surface of said divider strip.

2,350,431
ELECTRICAL SPEED CONTROLLER
Claude A. Vatter, Long Beach, Calif.
Application January 11, 1943, Serial No. 471,998
5 Claims. (Cl. 180—82.1)



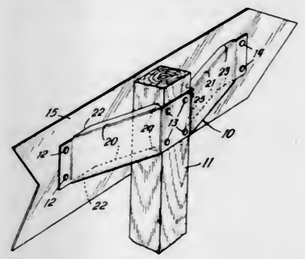
3. In a speed controller for a motor vehicle, a valve body adapted to be mounted between a fuel source and the fuel intake of the engine of the vehicle and formed with a fuel passage, a valve member for closing said passage having a shaft rotatably mounted across the passage and having crank arms at its ends, solenoids at opposite sides of said body each having a slidable core operatively connected with the companion crank arm by a link pivoted to the core and the crank arm, means for limiting sliding of the core of one solenoid and thereby limiting closing of the valve member when said solenoid is energized the link for the core of the said solenoid being slidable longitudinally of the core thereof to permit complete closing of the valve member when the other solenoid is energized, and switch means carried by said body and actuated from a rotary element of the vehicle for energizing the first solenoid and partially closing the fuel passage when the vehicle is moving at predetermined speed and afterwards energizing the second solenoid to completely close the fuel passage when the speed of the vehicle has increased to a predetermined rate.

2,350,432
MEASURING DEVICE
Joseph Verderber, Cleveland, Ohio
Application September 9, 1941, Serial No. 410,185
3 Claims. (Cl. 33—172)



1. In a device for measuring relative movement between two relatively movable parts, a member carried by one of said parts and presenting a straight edge disposed in the direction of relative movement of said parts, said member being movable with respect to said one part other than in said direction and immovable in said direction, a housing carried by the other of said parts and having a pair of openings through which said straight edge projects, a roller in said housing and adapted to contact said straight edge, a disc carried by said housing and adapted for rolling against said member along a surface of the latter which is remote from said straight edge, a pair of springs interposed between said housing and the axis of said disc for urging said disc towards said member and consequently for urging said straight edge towards said roller, said springs being disposed on opposite sides of said disc, a circular plate actuated by said roller and having indicia on the outer edge thereof, said indicia and said plate being of contrasting susceptibility to penetration by light, a source of light for projecting light rays on said outer edge whereby an image is created, a screen for receiving said image, and a lens interposed between said outer edge and said screen for magnifying said image, there being a zero point for said indicia whereby movement by one of said parts with respect to the other of said parts causes a change of image on said screen and the amount of relative movement of said parts is readily ascertainable.

2,350,433
GIRDER BRACE FOR OUTDOOR SIGNS
William F. Vernon, Newton, Iowa
Application January 21, 1941, Serial No. 375,243
3 Claims. (Cl. 40—145)

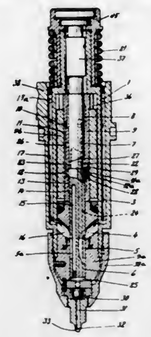


1. In a metal sign for attachment on a wooden post, a metal face section having a series of mounting holes, a single flat channel brace having mated mounting holes, the channel having a substantial broad web and short flanges, central and end thin flat sections in the channel brace, the proportion and arrangement providing means to mount the sign on a wooden post with the face section rigidly supported by the channel girder brace from the back of the post and then bent forward manually and attached to the face section with edge portions of the flanges of the channel biting into the wooden post.

2,350,434
FUEL PUMP FOR INTERNAL-COMBUSTION MOTORS
August Gunnar Ferdinand Wallgren, Oscar Filip Holmström, and Kaleb Emil Evrell, Eskilstuna, Sweden
Application February 4, 1941, Serial No. 377,320
In Sweden December 21, 1939
7 Claims. (Cl. 103—41)

1. A fuel pump for internal combustion engines comprising a rotatable sleeve member, and an axially movable plunger member in said sleeve

member, means around one end of said plunger forming a pump chamber, said means being formed with a discharge injection outlet from said chamber, a fuel supply conduit comprising channels formed in the interior portions of said members to prevent communication between the exterior of said sleeve member and said conduit, a recess in one of said members having varying axial extent around the pump axis and a port in the other of said members in communication with said fuel conduit, and a passage formed in one of said members connecting said recess with



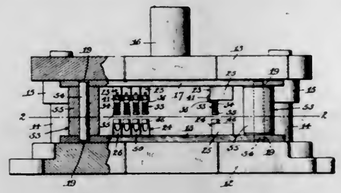
said pump chamber, said port and said recess being located to be in communication in certain stroke positions of the plunger and to be out of communication with each other in other stroke positions of the plunger, whereby to determine the effective stroke of the pump plunger and providing a variation in the length of the effective stroke upon turning of said sleeve due to the varying axial extent of said recess.

2,350,435
DERIVATIVES OF ASCORBIC ACID
Percy A. Wells, Abington, and Daniel Swern, Melrose Park, Pa., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office
No Drawing. Application May 11, 1942, Serial No. 442,558
11 Claims. (Cl. 260—344.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Monoesters of compounds of the ascorbic acid series with saturated aliphatic monocarboxylic acids, said esters containing an unsubstituted ene-diol group.

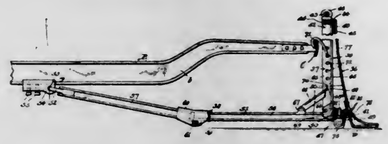
2,350,436
PERFORATING DEVICE
Lawrence V. Whistler and Sanford A. Whistler, Kenmore, N. Y.
Application October 27, 1941, Serial No. 416,691
13 Claims. (Cl. 164—118)

1. In equipment for perforating sheet metal or the like, a pair of punch and die-holder retaining-plates each provided with at least two comparatively large holes and with comparatively small holes spaced apart according to the perforations to be formed in a sheet of metal, the comparatively large holes in said retaining plates being arranged in pairs with a hole of each pair in the punch-holder retaining-plate axially alined with a hole in the die-holder retaining-plate and with the smaller holes in each plate paired and axially alined with like holes in the other retaining-plate, a master setting-up device between said retaining-plates having parts fitting in each pair of said comparatively large holes to temporarily hold said retaining plates in definitely spaced-apart relation and to properly position said retaining-plates relatively, and perforating



units each having a punch-member and a die-member, said members having setting-up elements forming part thereof fitting in the comparatively small holes in said retaining-plates so as to position the punch and die of each perforating unit in axial alinement, and means to secure the punch of each perforating unit to one of said retaining-plates and the mating die to the other retaining-plate.

2,350,437
SNOWPLOW
Edward L. Wiedman, Tonawanda, N. Y.
Application March 12, 1941, Serial No. 382,909
17 Claims. (Cl. 37—44)



1. The combination with an automobile, of a collapsible frame applied to the front of the automobile, a plow share removably supported by said frame, and rigid means bracing said plow share against rearward movement under operating strain and collapsible with said frame so that the frame and said bracing means may be stored in the automobile, and means to normally hold said frame in operative position relative to said bracing means, said bracing means and frame being pivotally connected together and said bracing means having connection with said chassis at points distant from said plow.

2,350,438
PLUNGER PAD FOR CONTAINER CLOSING MACHINES
John A. Woerz, Philadelphia, Pa., assignor to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 2, 1940, Serial No. 359,428
3 Claims. (Cl. 226—71)

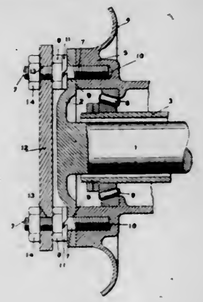
1. For use with machinery for filling and applying closure ends to containers, a plunger pad to be arranged for downward movement over and into the open end of a container to force the contents thereof completely within the confines of the container, preparatory to the application

of a closure end thereto, said pad being made of a tough, slightly flexible, non-chipping, heat resistant, transparent synthetic resin, plastic ma-



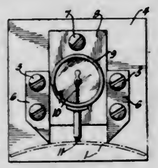
terial whereby its effect on the contents of a particular container in compacting the contents therein may be continuously observed by visual inspection through the body of the pad.

2,350,439
WHEEL AND AXLE CONNECTION
William Guy Wright, St. Louis, Mo.
Application June 18, 1943, Serial No. 491,307
8 Claims. (Cl. 301—1)



3. In a wheel and axle connection, an axle provided with a wheel attaching flange, a wheel provided with a hub part and means for connecting the hub part to the flange and comprising stud bolts extending through the flange and having their inner ends threaded into the hub part, nuts on the outer ends of the bolts for clamping the flange and hub parts together, and means rigidly connecting together the outer ends of the bolts at points beyond the nuts.

2,350,440
SHOT BLASTING TEST
John O. Almen, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 29, 1942, Serial No. 440,987
8 Claims. (Cl. 73—51)



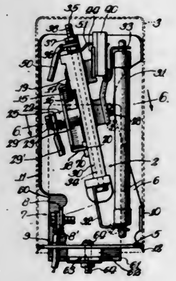
1. The method for testing the intensity of any shot blasting operation comprising securing in a fixture a preselected thin flat sheet metal plate with one face exposed, subjecting the exposed face to the particular shot blasting operation to be tested, then releasing the plate from the fixture and gaging the height of the arc assumed by the plate as a result of the compressive stress set up in the shot blasted face as a measure of intensity.

2,350,441
DIAL DAMPER REGULATOR
Evald Anderson, North Quincy, Mass.
Application December 11, 1942, Serial No. 468,714
2 Claims. (Cl. 74—531)



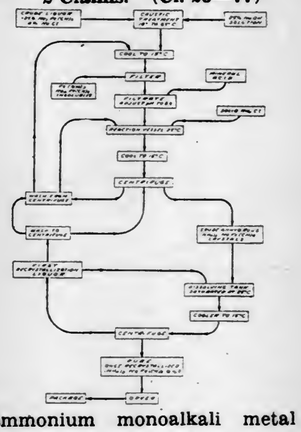
1. A device of the class described comprising a plate adapted to be mounted on a housing having a shaft extending therethrough and having an arcuate slot formed therein, a handle mounting adapted to be fixed to the shaft, an elongated clamping plate engaged at its inner end on the shaft, a stud carried by the outer end of the clamping plate and movable in said slot, said stud being connected with the handle mounting, and a nut on the stud adapted to engage the handle mounting to draw the clamping plate into tight frictional engagement with the first named plate.

2,350,442
SUBSTATION PROTECTOR
John S. Baker, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application April 18, 1942, Serial No. 439,521
11 Claims. (Cl. 200—115)



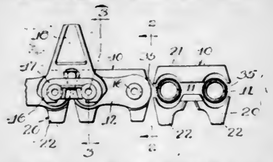
1. A terminal box comprising a mounting bracket of conductor material having a base and a vertical wall, a conductor plate extending transversely from said vertical wall, a protector unit including protective devices and associated terminals accommodating the incoming and the outgoing conductor connections and a ground terminal in electrical relation with certain of said parts, means for detachably connecting said protector unit to said transversely extending plate, said ground terminal being in contact with said plate, and a cover placed over the whole so as to enclose the same.

2,350,443
DIAMMONIUM MONOALKALI FERRICYANIDE
Robert B. Barnes and Leonard P. Moore, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application March 13, 1943, Serial No. 479,027
2 Claims. (Cl. 23—77)



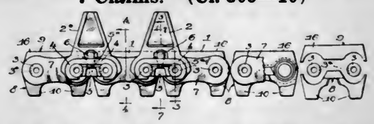
1. Diammonium monoalkali metal ferricyanide.

2,350,444
TREAD UNIT FOR ENDLESS TRACKS
Frank E. Burgess, Geneva, Ill., assignor to Burgess - Norton Manufacturing Company, Geneva, Ill., a corporation of Illinois
Application April 30, 1942, Serial No. 441,107
5 Claims. (Cl. 305—10)



1. In an endless track construction, a tread unit consisting of a pair of tubular pivot bearing members having end members rigidly connecting them together, a tread block comprising separable plate members, means for clamping said plate members to said pivot bearing members, and resilient sheet material interposed between said tread block members and said pivot bearing members and compressible under the action of said clamping means.

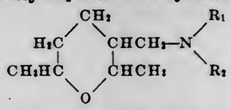
2,350,445
ENDLESS TRACK CONSTRUCTION
Frank E. Burgess, Geneva, Ill., assignor to Burgess - Norton Manufacturing Company, Geneva, Ill., a corporation of Illinois
Application March 18, 1942, Serial No. 435,207
7 Claims. (Cl. 305—10)



1. A track unit for an endless track construction comprising a pair of spaced parallel tubular pivot bearing members and side links rigidly connecting said pivot members together at opposite ends to form an open frame, said pivot bearing members having pivot pins extending therethrough adapted for linked connection to similar pivot pins of adjacent track units, and a metal tread-forming member supported on said pivot bearing members and embracing the outer faces of the latter in endwise supporting relation at opposite ends of said track unit, said tread-forming member including ground-engaging means projecting beyond the bottom surfaces of said connecting links, and a bearing surface disposed above said links.

2,350,446
PRODUCTION OF AMINOPYRANS
Thomas F. Carruthers, South Charleston, and Robert W. Kiefer, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application March 25, 1942, Serial No. 436,096
11 Claims. (Cl. 260—333)

1. As new compounds, amines containing at least one 2,6-dimethyl tetrahydropyranomethyl group in the molecule, and having chemical structures apparently represented by the formula



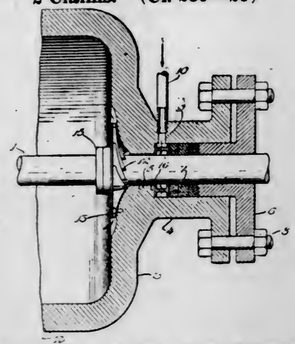
wherein R_1 and R_2, respectively, may designate the same or a different member of the class consisting of hydrogen, the alkyl groups, the aryl groups, the aralkyl groups, and the 2,6-dimethyl tetrahydropyranomethyl group.

2,350,447
SEPARATION OF PYRROLE
Percy Julius Cole, Philadelphia, and Charles Richard Clark, Springfield Township, Montgomery County, Pa., and John Wesley Waldron, Muncie, Ind., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 10, 1943, Serial No. 486,456
10 Claims. (Cl. 260—290)

1. In a process for separating pyrrole from a mixture thereof with pyridine homologs not readily separable therefrom by distillation, the steps that comprise adding to the mixture an acid that does not affect the nitrogen compounds deleteriously, said acid having a dissociation constant not lower than about 10^{-2}, in amount substantially less than the stoichiometric amount for reaction with the nitrogen bases present, and subjecting the resulting mixture to steam distillation to separate as distillate a nitrogen compound product enriched in pyrrole.

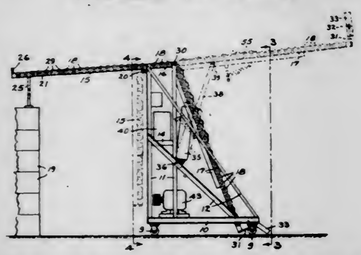
8. In a process for recovering pyrrole from a mixture thereof with pyridine homologs not readily separable therefrom by distillation, the steps that comprise substantially neutralizing said mixture with sulfuric acid to a point where the resulting mixture has a pH in the range of about 4.4 to 5, subjecting the resulting mixture to steam distillation under reduced pressure to separate as distillate a nitrogen compound product enriched in pyrrole, and subjecting this nitrogen compound product to fractional distillation to separate as distillate therefrom substantially pure pyrrole.

2,350,448
GLAND SEALING APPARATUS
Robert B. Collins, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 13, 1942, Serial No. 438,751
2 Claims. (Cl. 259—25)



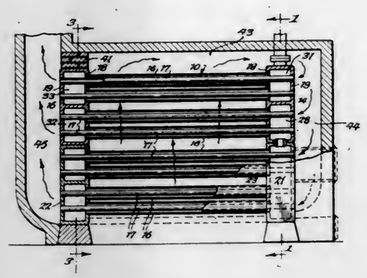
1. An apparatus of the class described comprising a mixer having a port through an end thereof, a rotatable shaft extending through said port into the mixer, a stuffing box embracing said shaft exteriorly of the mixer and having a gland at one end thereof, said shaft being spaced from the walls of said port to provide communication between the stuffing box and the interior of the mixer, means for supplying fluid to the stuffing box, and an impeller element mounted on the shaft within the mixer adjacent said port, said element being constructed and arranged to draw fluid from the stuffing box into the mixer through the space between the shaft and the walls of said port.

2,350,449
MACHINE FOR HANDLING BOXES AND SIMILAR ARTICLES
Harold D. Couch, Peshastin, Wash.
Application September 7, 1942, Serial No. 457,626
8 Claims. (Cl. 214—84)



1. In elevator means, a frame; a gravity roller type elevator section pivoted from its upper end for swinging movement on said frame and movable between a position inclined approximately twenty degrees relative to the vertical whereby a stack of articles may be leaned against the same and a position inclined approximately five degrees from the horizontal whereby articles will discharge by gravity over the pivoted end portion of said elevator section; power actuated lift means connected with said elevator section; and control means for said lift means operatively associated with said elevator section actuated by load pressure against said elevator section and released by the discharge of a load from said elevator section.

2,350,450
WATER HEATER AND THE LIKE
Cuthbert L. Dixon, Dunkirk, N. Y.
Application May 28, 1943, Serial No. 488,920
3 Claims. (Cl. 122—267)



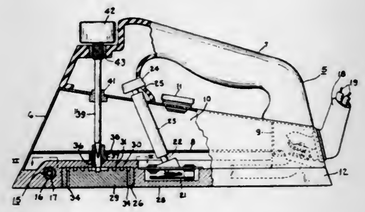
1. In a heater for fluids comprising a casing having a fire chamber in its lower central portion, and a tubular structure housed in the casing including opposite hollow headers, substantially horizontal outer tubes connecting said headers and forming passages for the flow of the fluid from one header to another, and an inlet and an outlet for the fluid, the improved construction in which said tubular structure comprises a lower portion having spaced headers at one end and groups of tubes at opposite sides of said fire chamber and a single header at its opposite end, an upper portion with one header at each end and connecting tubes located over said fire chamber, said headers being constructed to cause the fluid to circulate from said inlet through said headers and tubes to said outlet, inner tubes extending through said outer tubes and through the opposite headers and open at their opposite ends for the passage of gases therethrough, and means forming chambers in said casing constructed and arranged to cause hot gases from said fire chamber to pass between and around said outer tubes and then pass through said inner tubes.

2,350,451
RECEPTACLE OPENING AND POURING SPOUT
Raymond T. Embrey, Kansas City, Mo.
Application January 15, 1943, Serial No. 472,451
5 Claims. (Cl. 222—81)



2. A receptacle opening and pouring spout comprising a cylindrical body having a piercing portion at one end thereof provided with inclined arcuate edges converging to a point whereby to form a circular cut away portion on the receptacle wall when the piercing portion is forced through the wall; and a spring wire disposed longitudinally within the cylindrical body with one end thereof projecting from the body in opposed relation to the said point, said one end being spaced inwardly from the point whereby to follow the cut away portion of the receptacle wall and urge the same inwardly of the receptacle as the piercing portion enters the receptacle, the other end of said wire being anchored to the pouring spout.

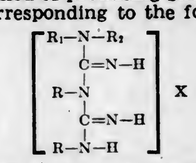
2,350,452
STEAM IRON
Roy N. Envall, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 2, 1941, Serial No. 421,313
7 Claims. (Cl. 38—77)



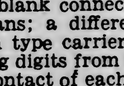
1. A steam iron comprising a soleplate, a water reservoir disposed above said soleplate, said soleplate having a recess therein pening on the ironing surface thereof, a removable plug in said recess and substantially filling the same, a tortuous passage formed between the upper surface of said plug and an adjacent surface of said soleplate, means for conveying water from said reservoir to one end of said passage, and steam-discharging means communicating with the other end of said passage for conducting steam generated within said passage to the material to be pressed, said tortuous passage comprising a groove formed in said adjacent surface of said soleplate, the open side of said groove being closed by said upper surface of the plug.

2,350,453
METHOD OF PRODUCING SUBSTITUTED GUANIDINE AND BIGUANIDE SALTS
Walter P. Ericks, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 4, 1942, Serial No. 433,298
3 Claims. (Cl. 260—564)

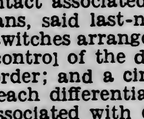
1. The method of producing substituted biguanide salts corresponding to the formula



in which R is an aliphatic radical of at least four carbon atoms chosen from the group consisting of alkyl and alkoxyalkyl radicals, R_1 is a hydroxy-alkyl radical, R_2 is a member of the group consisting of hydrogen and a hydroxyalkyl radical, and X is a salt-forming acid which comprises heating the dimer of a monosubstituted cyanamide of the formula

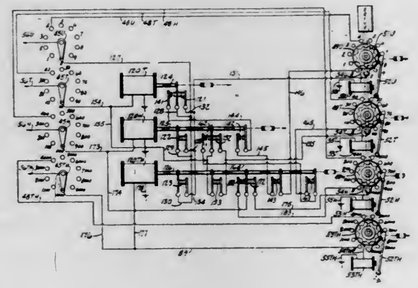


with an alkylol amine salt of the formula



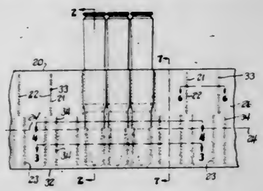
in which R, R_1, R_2 and X are as defined above.

2,350,454
ZERO ELIMINATION MEANS
Robert S. Goebel, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application June 18, 1942, Serial No. 447,527
5 Claims. (Cl. 101—99)



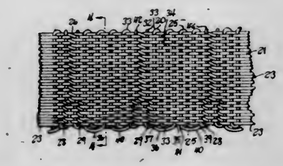
1. In a zero-suppressing mechanism, the combination of type carriers for setting digits zero and "1" to "9" and blank; means to rotate the type carriers; a separate electromagnetic means associated with each type carrier; an arresting means operated by each electromagnetic means to arrest an associated type carrier in a selected position; contacts representing digits from zero, "1" to "9," and blank connectable to each electromagnetic means; a differential means associated with each type carrier each having contacts representing digits from 0 to 9; a circuit between the zero contact of each differential means and the zero contact associated with each electromagnetic means, said last-named circuit including a set of switches arranged in parallel and operable under control of the differential means of next higher order; and a circuit between the zero contact of each differential means and the blank contact associated with each electromagnetic means, the last-named circuit including a set of switches arranged in series and operable under control of the differential means of higher order, said sets of switches being operable to close a circuit through an electromagnetic means to arrest type carriers in zero only when one higher order differential means is set to represent a digit "1" to "9," and to selectively arrest the type carriers in blank position when all higher order differential means are set to represent zeros.

2,350,455
CARTRIDGE FEED-BELT FOR MACHINE GUNS
James A. Hendley, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application July 22, 1942, Serial No. 451,969
3 Claims. (Cl. 139—390)



1. A cartridge feed-belt for machine guns comprising: a strip-like woven cartridge feed-belt having individual cartridge-receiving pockets extending transversely of the belt; each said pocket comprising a cartridge gripping-portion constructed and arranged to cover and hold an intermediate portion of a cartridge, and a projectile-end closed-end housing-portion constructed and arranged to cover substantially all of the end of the projectile-end of the cartridge, said housing-portion being of a looser weave than said gripping-portion.

2,350,456
CARTRIDGE FEED-BELT FOR MACHINE GUNS AND METHOD OF MAKING THE SAME
James A. Hendley, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application July 22, 1942, Serial No. 451,972
6 Claims. (Cl. 139—390)



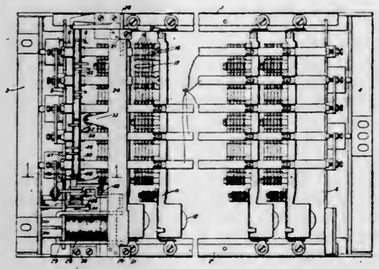
1. A strip-like woven cartridge feed-belt for machine guns comprising: two sets of warp strands woven with weft picks to form a two-ply cartridge feed-belt having a plurality of successive cartridge-receiving pockets extending transversely of the belt; at least certain of the strands of each of said sets of warp strands crossing back and forth from one ply to the other to form said pockets; and said weft picks having been woven as a weft strand which at certain locations crosses back and forth from one ply to the other, and which weft strand at certain other locations reverses its direction in each ply at opposite edges of each ply; the length of each pocket being considerably less than the length of the cartridges to be inserted therein, and the pockets and the weft strand being constructed and arranged to have the cartridges extend beyond the opposite ends of the pockets and beyond the back-and-forth crossing-locations of the weft strand.

2,350,457
CARTRIDGE FEED-BELT FOR MACHINE GUNS
James A. Hendley, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application November 20, 1942, Serial No. 466,249
1 Claim. (Cl. 139—390)



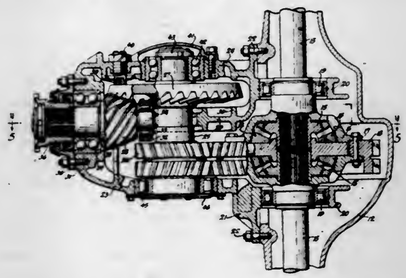
A strip-like woven cartridge feed-belt for machine guns comprising: two sets of warp strands woven with weft strands to mainly form a two-ply cartridge feed-belt having a plurality of cartridge-receiving pockets between the plies and extending transversely of the belt, and having a pair of openings between each two successive cartridge-receiving pockets and between the plies and extending generally parallel to each other and to the cartridge-receiving pockets; a considerable number of the warp strands located along the major width of the belt in each of the two ply-portions which form opposite face-portions of a pocket, crossing over to the other ply and then back again to form one of a said pair of openings, and then crossing over again to the other ply to form the other one of a said pair of openings, and then extending along in the other ply in a face-portion of the next cartridge-receiving pocket.

2,350,458
SWITCHING MECHANISM
Frank H. Hibbard, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 18, 1943, Serial No. 487,433
7 Claims. (Cl. 179—27.54)



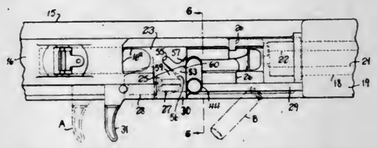
1. In a crossbar switch, select bars and hold bars coordinately arranged, contacts at each cross-point of said bars, a select bar selecting and operating means including a select rod having helically arranged projections thereon, a ratchet mechanism for said rod, a magnet for actuating said ratchet mechanism, a mounting for said rod and ratchet mechanism, an operating magnet for controlling said mounting to move said select rod so that the selected projection engages the corresponding select bar to move it and means responsive to the movement of said select bar followed by the movement of a hold bar for actuating the contacts at the corresponding cross-point.

2,350,459
DOUBLE REDUCTION AXLE
Alexander Hillcoat and John Bain Griffith, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 30, 1942, Serial No. 467,436
8 Claims. (Cl. 74—314)



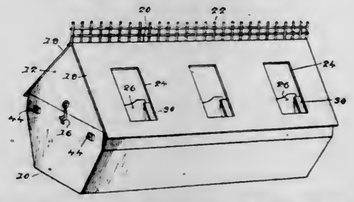
1. In a motor vehicle having a double reduction drive axle with hypoid drive gearing, including a pair of drive axle sections and a differential ring gear coaxial therewith, a hypoid drive pinion on an axis intersecting the differential ring gear axis, an intermediate shaft having its axis vertically offset from and in non-intersecting relation with the driving pinion axis, a pair of axially spaced gears carried by the intermediate shaft on opposite sides of the pinion axis, one of said gears meshing with the differential ring gear and the other gear being a hypoid ring gear meshing with said hypoid pinion, and a bearing for the hypoid pinion, located in the space between the gears on said intermediate shaft and between the intermediate shaft and said pinion.

2,350,460
CARTRIDGE-DEFLECTING MEANS FOR SELF-LOADING REPEATING FIREARMS
Frederick L. Humeston, Hamden, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application December 4, 1941, Serial No. 421,606
6 Claims. (Cl. 42—3)



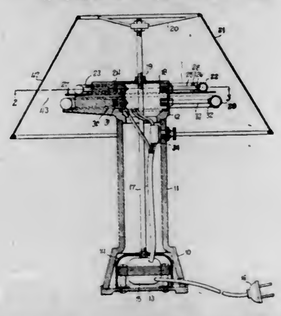
1. A self-loading repeating firearm-structure including in combination: a receiver having an ejection-opening; a breech-bolt reciprocating in the said receiver; an extractor carried by the said breech-bolt; an ejector carried by the said breech-bolt; ejector-spring means also carried by the said breech-bolt and urging the said ejector forwardly relative to the said breech-bolt; an action-slide associated with the said receiver and operatively connected to the said breech-bolt for shifting the same and in a manner permitting limited relative movement between the action-slide and breech-bolt, the said action-slide having a forwardly-facing cartridge-deflecting abutment extending substantially crosswise of the ejection-opening in the said receiver; spring-means urging the said action-slide forwardly; and actuating-means effective upon the discharge of the firearm to retire the said action-slide rearwardly; the said extractor and the said ejector being positioned on the said breech-bolt to throw a cartridge-casing against the cartridge-deflecting abutment of the said action-slide.

2,350,461
POULTRY FEEDER
Louis T. Ivey, Green Cove Springs, Fla.
Application April 17, 1942, Serial No. 439,409
3 Claims. (Cl. 119—61)



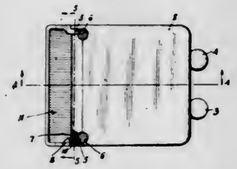
1. A poultry feeder comprising a container having a wall provided with feeding openings, a support inside said container, a plurality of spaced plates mounted on said support, yielding feed deflectors interposed between said plates and mounted on said support, said deflectors having formations engaging said plates in the normal positions of the deflectors, said deflectors being arranged to be engaged by poultry feeding through said openings to be moved inwardly of the container, said deflectors being spaced from said wall to provide a return spillway for feed scattered over the deflectors, and means adjustably mounting said support.

2,350,462
PORTABLE LAMP
Robert I. Johns, Brooklyn, N. Y.
Application October 9, 1942, Serial No. 461,371
2 Claims. (Cl. 240—81)



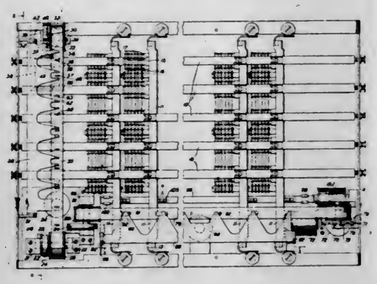
1. A portable combined germicidal and reading lamp including: a visible-light source; a germicidal ultraviolet-light source; switch-means for selectively lighting either of said light sources; and a shade surrounding and spaced from said light sources and forming the outer wall of an annular upwardly-extending convection-channel for the passage of air upward between said ultraviolet-light source and said shade, said shade substantially preventing the passage of germicidal ultraviolet rays therethrough and having fluorescent material adapted to fluoresce when ultraviolet light impinges upon it, the light from said fluorescent material being visible from the outside of said shade.

2,350,463
CONTAINER
Joseph L. Kallus, Brooklyn, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application January 17, 1942, Serial No. 427,123
2 Claims. (Cl. 206—20)



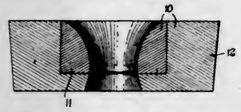
1. A container comprising a body member and a cover member having longitudinal side walls, said side walls having edge walls which abut each other when the cover is closed, said body having longitudinally disposed legs, the plane of said lugs being spaced laterally inwardly from the plane of the side walls of the body member, the inner longitudinal walls of said lugs being provided with respective recesses, said cover having a lateral detent portion thereof which is located between the inner longitudinal walls of said lugs, said lateral detent portion having projections which fit turnably in said recesses, the outer walls of said lugs having sockets, and ball members carried by the cover member to make bearing contact with said sockets.

2,350,464
SWITCHING MECHANISM
Arthur C. Keller, Bronxville, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 18, 1943, Serial No. 487,432
7 Claims. (Cl. 179—27.54)



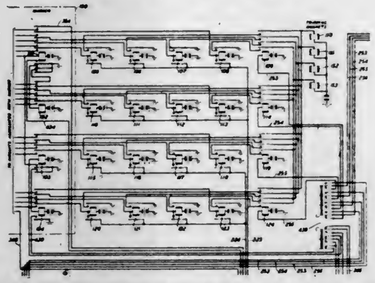
1. In a cross bar switch, select bars and hold bars coordinately arranged, contacts at each cross-point of said bars, a select bar, selecting and operating means including a tape having projections thereon, a ratchet mechanism for said tape, a magnet for actuating said ratchet mechanism to lift said tape in steps, said projections being so arranged that for each succeeding step of the tape a different projection is placed opposite a different corresponding select bar, an operating magnet having an armature which when operated by the magnet engages the projection placed opposite the select bar and moves it against said select bar to actuate said bar, and means responsive to the actuation of a select bar followed by the operation of a hold bar for actuating the contacts at the cross-point of said bars.

2,350,465
METAL-DRAWING DIE
Henry G. Keshian, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application May 19, 1942, Serial No. 443,553
2 Claims. (Cl. 205—26)



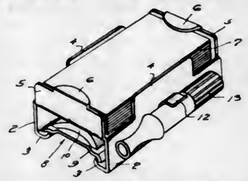
1. A metal-drawing die comprising: a die-nib formed of steel capable of being hardened by heat-treatment to give it a combination of high heat-resistance and high wear-resistance, and which die-nib has been given said heat-treatment; and a reinforcing-ring shrunk on said die-nib to reinforce the same; said reinforcing-ring being formed of steel capable of being hardened when subjected to relatively-high-temperature heat-treatment and then rapidly cooled to below its critical-hardness temperature, and capable of then being given a substantial elongation characteristic and a high elastic-limit characteristic when subjected to relatively-low-temperature heat-treatment below said critical-hardness temperature, and which reinforcing-ring has been given the said treatments prior to having been shrunk on said die-nib, and the said reinforcing-ring having been shrunk on said die-nib while at an initial temperature not substantially higher than gives the said elongation and elastic-limit characteristics.

2,350,466
TELEPHONE SYSTEM TROUBLE RECORDER
Gerald V. King, Chatham, N. J., and Oscar Myers, Mount Vernon, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1942, Serial No. 464,074
4 Claims. (Cl. 179—175.2)



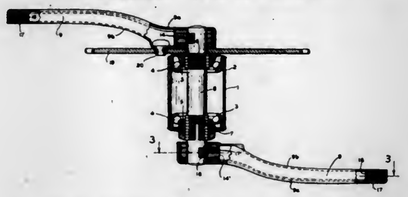
1. In an automatic telephone switching system, incoming lines, outgoing lines, means responsive to a call over an incoming line for selectively combining a plurality of different units of equipment one of which is a marker, for completing a telephone connection to an outgoing line, a trouble-recording device, means in said marker operative when trouble is encountered in the operation of any unit of equipment so combined for connecting leads from all of said units of equipment with said trouble-recording device, a motor-driven printer in said trouble-recording device having a plurality of tripping magnets, electrically operable devices for connecting the leads from successive units of equipment to said tripping magnets, means to simultaneously operate any or all of said plurality of tripping magnets by the association of said tripping magnets with leads to any one unit of equipment to simultaneously print a record of the location of and faults in said equipment unit, and means to successively operate said electrically operable devices for successively connecting the leads of each unit of equipment to said tripping magnets to print an individual record of the electrical condition in each unit of equipment.

2,350,467
RAZOR AND BLADE HOLDER
John Joseph Kowalski, Seattle, Wash.
Application January 12, 1943, Serial No. 472,171
2 Claims. (Cl. 206—16)



1. A safety razor and blade holder comprising a substantially rectangular plate, opposed side walls extending at right angles from the longitudinal edges of the plate, inturned flanges on said side walls, said flanges and side walls constituting means for slidably securing an assembled razor head on one side of the plate, flanges struck from the plate in the opposite direction and extending in the plane of the side walls, said flanges being adapted to receive therebetween a plurality of blades on the other side of the plate, and means for retaining the blades in position between the second-named flanges.

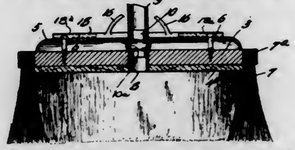
2,350,468
BICYCLE CRANK HANGER ASSEMBLY
Herman L. Kraeft, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 4, 1941, Serial No. 417,799
4 Claims. (Cl. 74—594.1)



1. A pedal hanger for bicycles and the like, said hanger being of hollow light weight construction, and having a bushing within one end thereof and enclosed thereby, said bushing formed of a plurality of laminations of sheet metal having portions extending into the pedal hanger and engaging the walls thereof to prevent turning of the bushing relative to the hanger.

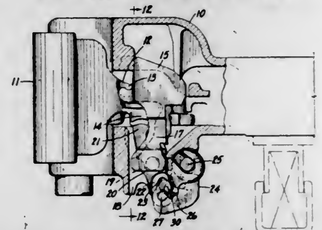
2,350,469
CAR WASHER
William A. Litka, Rialto, Calif.
Application February 9, 1943, Serial No. 475,260
1 Claim. (Cl. 15—128)

A car washer comprising an elongated tubular handle adapted to be coupled at one end to a hose connected with a source of water supply, a T-fitting closing the other end of the handle, said fitting having an upwardly extending branch leading off therefrom, a brush head, bristles projecting from the working face of the brush head in the form of an enclosure, a fork having spring



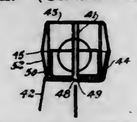
arms projecting forwardly from the fitting and pivotally connected to the brush head, and a stiffly flexible hose section extending in the form of a relatively wide curve from the branch through the brush head and communicating with the enclosed area for supplying water thereto.

2,350,470
CAR COUPLER
William J. Metzger, Euclid, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application November 15, 1941, Serial No. 419,329
21 Claims. (Cl. 213—146)



1. A car coupler having a knuckle, a vertically movable lock for said knuckle, operating means for raising said lock to unlock said knuckle, and means shiftable by said operating means adapted in one position to engage said knuckle to limit undesired upward movement of said lock and in another position to allow upward movement of said lock.

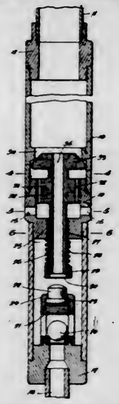
2,350,471
METAL CAR SEAL
William George Newton, Prince Albert, Saskatchewan, Canada, assignor to Albert W. Newton, Biggar, Saskatchewan, Canada
Application January 5, 1942, Serial No. 425,599½
1 Claim. (Cl. 292—324)



A housing and dependent ribbon for the locking mechanism of box car seals, said housing and ribbon being formed from a one-piece patterned blank, one end of said blank being struck into a pair of adjacent dished forms in alignment with the longitudinal axis of the blank to constitute inner and end forms, said end form being provided with two slots extending normal to the said longitudinal axis, the first of said slots being situated medially of the top surface of said form and skewed when viewed in cross-section, the second slot extending along the edge of said top surface, said end form covering said inner form

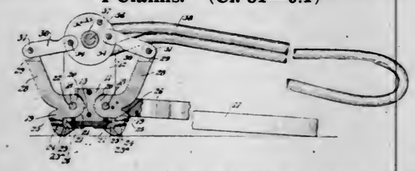
to constitute a hollow housing containing said locking mechanism, said ribbon extending along one side of said end form and also thereover to proceed through said slots, said ribbon being also provided with a slot designed to align and be coincident with said first slot, the free end of said ribbon being designed to extend through said coinciding slots and into the interior of said housing.

2,350,472
INTERMITTER
Charles M. O'Leary, Houston, Tex.
Application February 7, 1942, Serial No. 429,937
8 Claims. (Cl. 103—232)



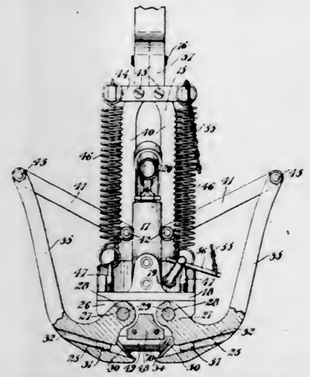
1. In a well flowing device of the bottom hole intermitter type having an eduction passage, a valve housing forming a gas flow passage opening into said eduction passage and having a closed bottom, a unitary valve member having pressure responsive means for shifting said member in one direction in operation by pressure in the gas passage, and having a liquid flow passage therethrough opening into the eduction passage, valve means opening and closing said gas passage, said member also having a portion depending movably through said housing bottom, and valve means cooperating with the said depending portion of the valve member, respectively closing and opening the liquid flow passage as the gas flow passage is opened and closed, the last mentioned valve means being below the bottom of the housing and thereby isolated from the gas passage.

2,350,473
BAND SEALING MACHINE
Walter Lee Owens, Chesterfield, Ind., assignor to Robert W. Shoemaker, Anderson, Ind.
Application November 14, 1941, Serial No. 419,197
4 Claims. (Cl. 81—9.1)



1. A band sealing machine for fixing a seal upon the overlapped ends of a band, said sealing machine including a housing having a lower portion for contacting the longitudinal, central portion of the seal and spaced, lateral extensions for contacting opposite side edges of the seal at the center and at both ends of the seal, a pair of jaws pivotally mounted in the housing and having tapered lips for engaging under opposite side edges of the seal, spaced cutting knives upon the jaws diverging upwardly from the lips and having bevelled outer faces for cutting into opposite side edges of the seal between said lateral extensions on the lower portion of the housing and bending the seal upward at the outer side of each cut and means for simultaneously moving both jaws toward or from each other.

2,350,474
HYDRAULIC SEALING MACHINE
Walter Lee Owens, Chesterfield, Ind., assignor to Robert W. Shoemaker, Anderson, Ind.
Application December 3, 1941, Serial No. 421,465
8 Claims. (Cl. 81—9.1)

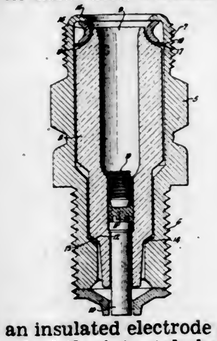


1. A hydraulic sealing machine for fixing a seal upon the overlapped ends of a band, said machine including a hydraulic cylinder, a ram in the cylinder, means for admitting fluid to the cylinder, a pair of jaws pivotally mounted below the cylinder, spaced cutting knives diverging upwardly from the lip of each of the jaws, upwardly disposed lever arms fixed upon the jaws, an inverted U-shape bracket carried by the ram and links pivotally connecting the lever arms to the U-shape bracket.

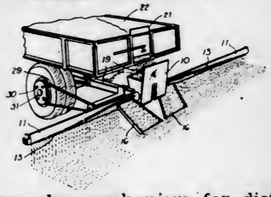
2,350,475
SPARK PLUG
Hector Rabezzana, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich, a corporation of Delaware
Application July 6, 1942, Serial No. 449,896
6 Claims. (Cl. 123—169)

1. In a spark plug of the class described, a hollow metallic shell or casing having externally threaded portions at both its ends; an internal annular supporting ledge within said shell; an insulating member within said shell and supported by said ledge and having an internal chamber within its upper portion, and an external annular shoulder adjacent its upper end; an annular spacing disc supported upon said shoulder and the outer edge of which extends to and contacts with the interior of said shell; an annular holding member within said shell and surrounding the upper extremity of said insulation member, and which holding member rests upon the spacing disc aforesaid; means at the

upper end of said shell and overlaying the upper end of said holding member for holding said several parts in assembled relation with one another; and an insulated electrode extending from the lower end of the internal chamber aforesaid downward through a passage in the lower portion of said insulating member.

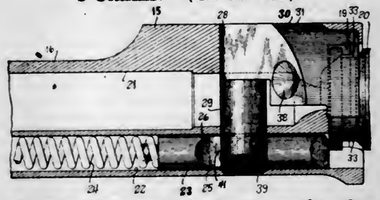


2,350,476
LIME SPREADER
Clarence B. Richey, Columbus, Ohio
Application July 13, 1943, Serial No. 494,481
5 Claims. (Cl. 275—2)



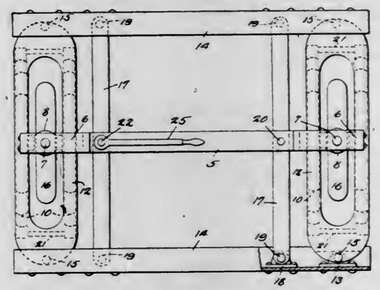
1. In a spreader mechanism for distributing free-flowing solid materials, means for introducing such materials into one end of said conduit, power driven means disposed within said conduit for effecting positive advancement of the materials longitudinally thereof, and a substantially helical outlet for said materials formed in and substantially coextensive with said conduit, the pitch of said outlet being such that at the inner material-receiving end of the conduit, the outlet occupies its highest position and at the other end of the conduit its lowest position.

2,350,477
EXTRACTOR-AND-EJECTOR ASSEMBLY FOR FIREARMS
Arthur A. Rowley, Hamden, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application April 13, 1943, Serial No. 482,837
5 Claims. (Cl. 42—25)



1. An extractor-and-ejector assembly for firearms, including in combination: a breech-bolt having an ejector-receiving passage extending longitudinally in and intersecting the forward end thereof, the said breech-bolt also having an extractor-receiving passage extending vertically transversely of the said breech-bolt and laterally intersecting the said ejector-receiving passage therein; a cartridge-ejector reciprocating in the ejector-receiving passage in the said breech-bolt and provided with a downwardly-facing stop-abutment movable transversely into the extractor-receiving passage in the said breech-bolt when the said cartridge-ejector is retired rearwardly relative to the said breech-bolt; spring-means urging the said cartridge-ejector forwardly with respect to the said receiver; and a cartridge-extractor having a stem extending into and turning in the extractor-receiving passage in the said breech-bolt and formed with an upwardly-facing stop-abutment normally located below the path of movement of the said cartridge-ejector and engageable with the downwardly-facing stop-abutment of the said cartridge-ejector when the latter is moved into its retired position by the engagement of a cartridge-casing therewith, to thereby positively hold the said cartridge-extractor against withdrawal from the said breech-bolt.

2,350,478
MOTOR VEHICLE STEERING GEAR
Michael Joseph Scanlon, Baltimore, Md.
Application May 19, 1943, Serial No. 487,623
5 Claims. (Cl. 280—87)

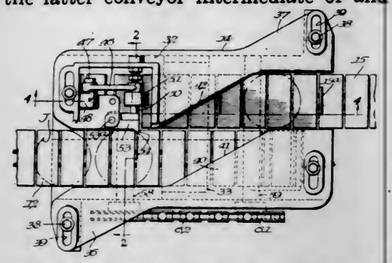


1. Motor vehicle steering gear, comprising a frame embodying parallel front and rear members, end members pivotally connected with the front and rear members, adjacent to the ends thereof, said end members having elongated openings, a rigid cross-bar, the ends of the cross-bar being extended laterally and having openings, motor vehicle wheel forks embodying vertical shafts, extending through the elongated openings, springs mounted between the forks and end members, and adapted to regulate the vertical movement of said wheel forks, brace bars pivotally connected with the front and rear members, and means for moving the brace bars to accomplish the steering of the vehicle wheels.

2,350,479
ARTICLE TIMING DEVICE
Robert J. Stewart, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Original application August 16, 1938, Serial No. 225,230. Divided and this application January 29, 1942, Serial No. 428,797
4 Claims. (Cl. 198—34)

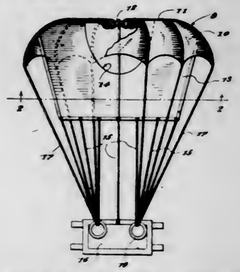
1. In combination, a delivery conveyor, a continuously moving receiving conveyor, means to move said latter conveyor, said receiving con-

veyor having article engaging members spaced along and moving with the same, means operated by said article engaging members to control movement of articles from the delivery conveyor to the receiving conveyor and to place articles on the latter conveyor intermediate of and out



of contact with said article engaging members, and resilient means associated with the receiving conveyor to retard the movement of articles moving therewith so that an article will be held against movement with the receiving conveyor until the article is in engagement with an article engaging member.

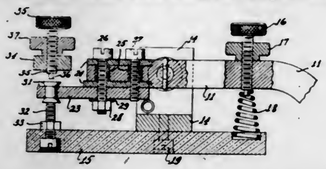
2,350,480
PARACHUTE
Peter J. Swofford, Fort Worth, Tex., assignor of one-sixteenth to Tina Brooker Fite and one-sixteenth to J. B. Hopson, both of Fort Worth, Tex.
Application January 12, 1942, Serial No. 426,531
2 Claims. (Cl. 244—142)



1. A parachute of the class described comprising a canopy having downwardly turned edges, said canopy having a centrally located vent opening, vertical fins depending from and secured to the canopy beyond the vent opening and arranged in cross relation relative to the vent opening, said fins having cut-out portions directly below the vent opening to direct air from between the fins and out through the vent opening at a point close to the under face of the canopy, thereby providing an air equalizer under the center of the canopy, said fins being connected together directly below the cut-out portions in spaced relation to the vent opening, and harness-engaging means suspended from the canopy and fins.

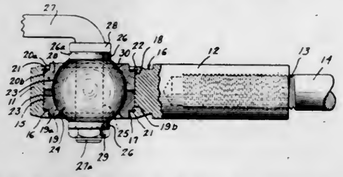
2,350,481
TELEGRAPH KEY
Hans E. Tromholt, Bayside, Long Island, N. Y.
Application October 15, 1942, Serial No. 462,099
2 Claims. (Cl. 178—101)

1. A telegraph key of the character described, comprising a base; a bearing support mounted on said base, a plurality of bearings mounted in said bearing support; an arm pivoted intermediate of its ends in said bearings and having a knob mounted on one end; a contact making member fastened to the other end of said arm, said contacting making member being straight, short and rigid and projecting a small distance from the end of said arm and having a consider-



able cross section as compared to its length, whereby same will have a high natural vibrating frequency, and acoustical insulation placed between said contact making member and said arm, whereby audible vibrations created in said member may be dissipated in same without being transmitted to said arm.

2,350,482
BALL JOINT
Anthony Venditty, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application May 2, 1942, Serial No. 441,509
9 Claims. (Cl. 287—90)

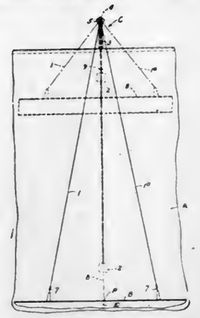


9. A ball and socket joint construction comprising a housing having a laterally extending shank portion adapted to be connected to a rod or the like, and an open ended eye end portion, a pair of opposed bearing rings mounted in said eye end portion of the housing and cooperating with each other to define a ball socket, a ball in said ball socket having a bore therethrough, apertured bosses on opposite sides of said ball projecting beyond the open ends of said eye portion of the housing and having outer abutment faces, said bosses continuing said bore to said abutment faces, and means swivelly mounted in said bore of said ball member having shoulders thereon cooperating with said abutment faces of the bosses to retain said means in said bore.

2,350,483
ANTIROTATIONAL MECHANISM FOR FLOATING TANK ROOFS
John H. Wiggins, Chicago, Ill.
Application May 9, 1942, Serial No. 442,327
1 Claim. (Cl. 220—26)

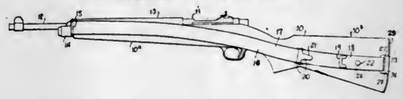
A liquid container provided with a side wall, a vertically-movable floating roof mounted in said container so as to be capable of turning or rotating slightly relatively to the side wall of the container, a horizontally-disposed support at the top edge of the container side wall that projects inwardly and outwardly from said wall, a guide at the inner end of said support, a sheave at the outer end of said support, a pair of oppositely-inclined, flexible members adjustably attached at their lower ends to said roof at widely separated points and leading upwardly therefrom to said

guide, said flexible members after passing over said guide leading outwardly and downwardly over said sheave, and a weight attached to the ends of both of said flexible members to normally



hold said flexible members under approximately the same tension, whereby if the roof starts to rotate, the full force of said weight is applied to only one of said flexible members, thereby causing the roof to be restored to its normal position.

2,350,484
FIREARM WITH SLING STRAP
David M. Williams, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application January 3, 1942, Serial No. 425,502
5 Claims. (Cl. 42—85)



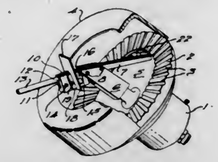
4. A sling-strap firearm-structure including in combination: a stock provided in one of its side-faces with a strap-receiving recess; and a butt-plate unit secured to the rear end of the said stock and provided with a vertical tie-bar unitary therewith and extending vertically across the recess in the said stock in a plane forwardly of the rear face of said stock.

2,350,485
METHOD OF PREPARING DIOLEFINS
Erving Arundale, Colonia, and Louis A. Mikeska, Westfield, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application December 20, 1940, Serial No. 370,980
5 Claims. (Cl. 260—681)

3. A process for the production of conjugated diolefins which comprises reacting an olefin of at least 3 carbons atoms to the molecule, with formaldehyde in the presence of aqueous sulfuric acid having an acid concentration of 5.0–50% at a temperature between 50° and 250° C., and recovering the conjugated diolefins.

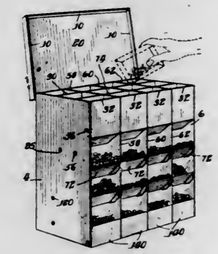
2,350,486
FEEDING DEVICE
Roy W. Bailey, Detroit, Mich., assignor to Detroit Power Screwdriver Company, Detroit, Mich.
Application March 27, 1942, Serial No. 436,453
3 Claims. (Cl. 10—165)

2. In a feeding device, a chute comprising a receiving portion and a delivery portion in substantially axial alinement and spaced apart to form a gap, a connecting member joining said portions in spaced relation, means for delivering articles to said receiving portion, said gap being of such size as to permit articles to fall there-



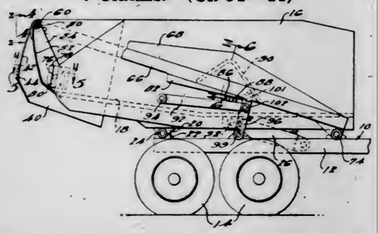
from, said connecting member having a portion lying below said chute and sloping downwardly away from the vertical axial plane of said chute, the end of said delivery portion at said chute being enlarged to facilitate receiving articles from said receiving portion.

2,350,487
HOPPER-TYPE BIN
James E. Bales, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application December 2, 1940, Serial No. 368,115
9 Claims. (Cl. 211—135)



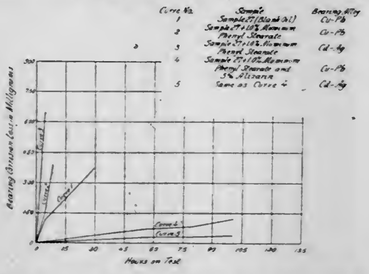
6. A display and supply cabinet comprising a boxlike housing having upstanding side and rear walls, access to the interior being provided at the top, upstanding partition means generally parallel with the rear wall providing vertically extending compartments opening at their upper extremities adjacent the top of said housing, said partition means providing a forwardly and downwardly extending section adjacent the lower extremity thereof merging at its margin with a forwardly and upwardly extending section terminating in a free marginal extremity providing a bin or trough of substantial depth, said forwardly extending section of said partition means being arranged in vertically spaced relation to a member including a forwardly and downwardly extending section merging at its forward margin with a forwardly and upwardly extending section, terminating in a free marginal extremity providing another bin or trough of substantial depth, said member being located adjacent the bottom of the housing and forming a bin for a compartment located at the rear of said housing, said partition means having said merging margin disposed above and rearwardly of the forward free marginal extremity of the member immediately therebelow, and said cabinet having a front upper wall portion extending downwardly to a point spaced above the forward free marginal extremity of the partition means next therebelow.

2,350,488
COMBINATION DUMP BODY AND LEVELER
Edward R. Barrett, Detroit, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application February 27, 1941, Serial No. 380,811
7 Claims. (Cl. 94—44)



1. In combination, a vehicle having a chassis, a body adapted to carry material and having a discharge opening therein, means pivotally mounting said body on said chassis for dumping through said opening, a closure member adapted to be positioned adjacent the opening, and means pivotally mounting said closure member on said chassis, and means operatively connecting said last named means with said body so that when said body is tilted said closure member moves downwardly to a position adjacent said opening to level material discharged through said opening.

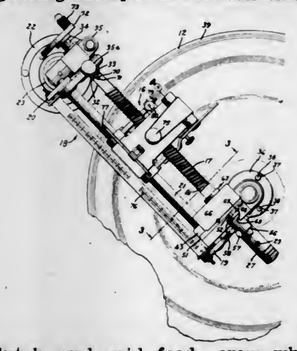
2,350,489
LUBRICATING OIL COMPOSITION
Leonard E. Beare, Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application April 5, 1941, Serial No. 387,014
12 Claims. (Cl. 252—37)



1. An improved lubricating oil compound comprising a petroleum lubricating oil, a metal soap of an aromatic fatty acid in an amount sufficient to impart corrosiveness to said lubricating oil compound and a compound of the group consisting of alizarin and fatty acid esters thereof in an amount sufficient to inhibit said corrosiveness.

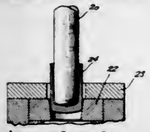
2,350,490
SOUND RECORDING APPARATUS
Herbert S. Berliner, Westmount, Quebec, Canada
Application April 20, 1943, Serial No. 483,712
7 Claims. (Cl. 274—13)

1. In a recording apparatus comprising a turntable, a cutting head carrier having a rotatable flange at its inner end for engaging the center of the turn-table, a feed screw mounted by said carrier, a worm gear, an overrunning clutch mechanism associated with the worm gear, a worm driven from the top of the turntable through said flange and meshing with said worm gear, a crank at the outer end of the carrier arm and connected with said feed screw, and a change speed gearing interposed between said overrun-



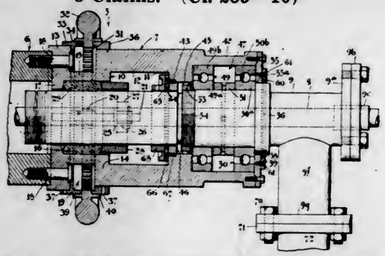
ning clutch and said feed screw whereby the latter is rotatable from the top of the turn-table at a selected one of a plurality of available predetermined speeds.

2,350,491
METAL DRAWING PROCESS
Benjamin F. Butler, Westport, and Edgar A. Hirdler, Bridgeport, Conn., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application September 29, 1943, Serial No. 504,254
17 Claims. (Cl. 205—8)



1. In the drawing of a ferrous metal article, the method comprising the steps of producing an amorphous coating on said article by subjecting said article to hydrogen sulphide, and then shaping said article by drawing.

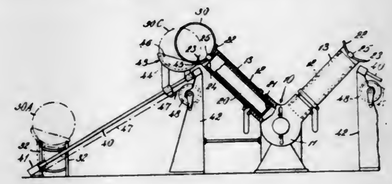
2,350,492
STEAM JOINT
Russell Carpenter, Three Rivers, Quebec, Canada
Application December 2, 1942, Serial No. 467,655
3 Claims. (Cl. 285—10)



1. A steam joint assembly of the character described including a stuffing box having a centrally apertured wall at one end thereof, means for securing said stuffing box to a journal of a rotatable steam heated roll or cylinder whereby said stuffing box is adapted to be rotated with said journal, a stationary steam pipe extending through said stuffing box, a packing gland encircling said pipe and slidably fitted in the end of the stuffing box remote from said centrally

apertured end wall, a ring gear rotatably carried by said stuffing box, pinion shafts rotatably journalled in bearings carried by said stuffing box and equipped with pinions meshing with said ring gear and means connected between said pinion shafts and said packing gland for adjusting the latter in response to rotation of the pinion shafts about their axes.

2,350,493
GUN LOADING MECHANISM
Cecil P. Caulkins, New London, Conn.
Application April 24, 1941, Serial No. 390,083
4 Claims. (Cl. 89—45)



1. In combination with a gun barrel and an arbor having a cylindrical stem fitting the barrel and angularly rotatable therein and a charge receiving tray on the outer end of said stem, said tray having an edge offset from and normal to the axis of the stem, a car adapted to hold a cylindrical charge, said car having an edge parallel to the axis of the charge thereon, means for moving the car to said tray to bring said edge of the car into contact with said edge of the tray whereby the movement of the car is utilized to rotate the stem of the arbor to aline said edges of the car and of the tray.

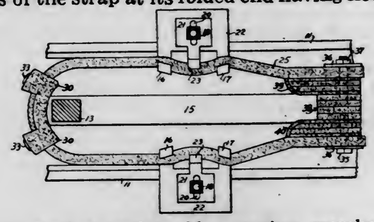
2,350,494
HUNTING KNIFE
John B. F. Champlin and Theodore H. Banton, Little Valley, N. Y., assignors to Cattaraugus Cutlery Company, Little Valley, N. Y., a corporation of New York
Application April 6, 1943, Serial No. 482,044
4 Claims. (Cl. 279—95)



1. A knife including a blade having a tang, a grip carried by the tang provided with a shoulder, and a composite knob at the outer end of the grip cooperating therewith to form a handle for the blade and including a stop plate slipped over the tang and rotated to a position in engagement with said shoulder for sustaining end thrust on the handle, and means locked against rotation on the tang as well as locked to the stop plate for securing the stop plate against retrograde movement.

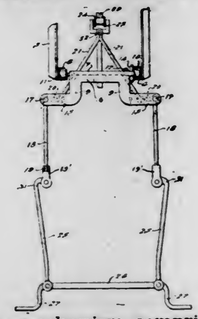
2,350,495
CHECKSTRAP
John C. Crocker, Ware Shoals, S. C.
Application November 15, 1943, Serial No. 510,335
5 Claims. (Cl. 139—165)

1. A check strap for looms comprising a strap folded to cause its ends to be adjacent each other, a bumper block secured to and between the free ends of the strap, the inner upper and lower edges of the strap at its folded end having notches



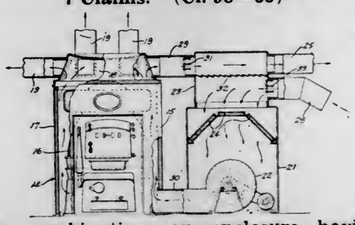
therein and a replaceable wearing member secured around the strap, and disposed in said notches.

2,350,496
DIPPING MECHANISM
John V. Davis, Detroit, Mich.
Application August 19, 1942, Serial No. 455,299
14 Claims. (Cl. 214—17)



1. A dipping mechanism comprising a travelling support, a pair of levers pivotally suspended therefrom, a link pivotally suspended from the lower end of each lever, a cross member pivotally attached to the lower ends of said links, and means for turning said levers on their pivotal axes, whereby to swing said links and raise said cross member in a vertical path.

2,350,497
AIR CONDITIONING APPARATUS
Keith T. Davis, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 14, 1942, Serial No. 468,913
7 Claims. (Cl. 98—33)



1. In combination, an enclosure having a chamber therein to be air conditioned, said enclosure also having associated therewith a forced warm air circulating system provided with separated inlet and outlet chambers and an intermediate air chamber therebetween and in direct communication with both of the aforesaid chambers, air distributing duct work between said outlet chamber and the enclosure chamber, secondary duct work between the enclosure cham-

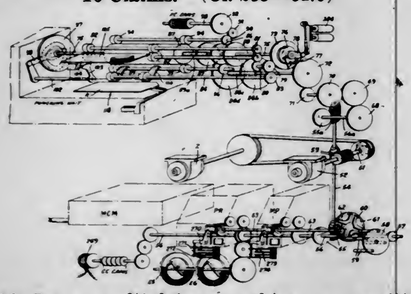
ber and said system inlet chamber, a by-pass connection between said system inlet and outlet chambers, a fan within said inlet chamber, an air supply duct opening into said inlet chamber, a damper controlling air flow through said duct, a damper controlling the by-pass connection between the outlet and inlet chambers, and a third damper within the inlet chamber controlling communication between the secondary duct work and the inlet chamber.

2,350,498
FASTENING DEVICE
Ralph A. Dick, Williamsville, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application July 20, 1942, Serial No. 451,652
11 Claims. (Cl. 24—221)



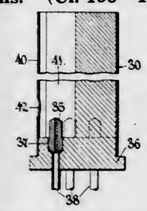
9. A quickly detachable and adjustable fastening means for two plate-like members comprising a collar fixed to one of said members about an opening therein and having oppositely located spiral-like cam surfaces formed at its inner end, opposed axial grooves in said collar terminating adjacent the beginning of said cam surfaces, a stud extending through the other member having an enlarged head at one end and opposed radial projections adjacent the other end, said stud projections being insertable through said collar upon alinement of said projections and grooves and thereafter the stud may be rotated therein to cause the projections to cooperate with the cam surfaces to tightly draw the members together, axial extending serrations arranged about the stud axis at its inner end, and a resilient wire-like member secured relative to said collar and extending diametrically across the inner end of the collar and engageable with said serrations to releasably lock said collar and stud in any one of a plurality of relative rotative positions.

2,350,499
MULTIPLYING MACHINE
Arthur H. Dickinson, Scarsdale, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 24, 1940, Serial No. 371,506
16 Claims. (Cl. 235—61.6)



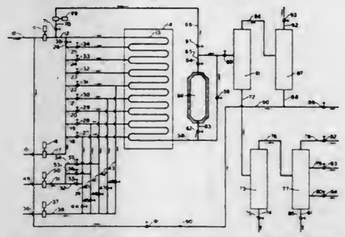
16. In a multiplying machine, an emitting means for emitting a series of impulses representative of the digits, an accumulator responsive to said digital impulses for receiving multidenominational amounts, a circuit network intermediate said emitting means and said accumulator for transmitting the impulses, a multiplicand receiving device, settable to represent an amount, a multiplier receiving device, settable to represent a digit, a first means controlled by the multiplicand receiving device for adjusting said network in accordance with said amount, a second means jointly controlled by both receiving devices for ascertaining the left hand partial product components of the factors and effecting a further adjustment of said network, a third means jointly controlled by both receiving devices for ascertaining the tens carry requirements for the summation of left and right hand partial product components of the factors and effecting a still further adjustment of said network, a fourth means controlled by the multiplier receiving device for adjusting said network in accordance with said digit, said network upon said several adjustments connecting the emitting means and the accumulator for entry of an amount representing the product of the factors.

2,350,500
GAS RANGE
George J. Eltz, Jr., East Aurora, N. Y.
Application March 4, 1941, Serial No. 381,679
4 Claims. (Cl. 158—104)



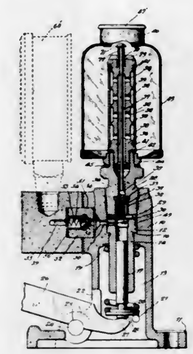
1. A substantially cylindrical tubular gas burner having a plurality of radially extending walls therein forming a plurality of sectoral mixing chambers, and gas inlet means at the bottom of each chamber, said burner having openings in its periphery providing an air admitting opening for entrainment of air with the gas passing upwardly in each of said chambers for ultimate combustion at the upper end of said burner.

2,350,501
PROCESS FOR PRODUCING HYDROCARBONS
Frederick E. Frey and Harold J. Hepp, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Original application October 19, 1936, Serial No. 106,482. Divided and this application April 27, 1940, Serial No. 332,089
8 Claims. (Cl. 260—683.4)



1. A process for producing synthetic, predominantly branched paraffins lying within the motor fuel boiling range from paraffins and olefins of lower molecular weight which comprises maintaining a stream of paraffins of simple composition at a pressure above 1,000 pounds per square inch and a reaction temperature at which cracking proceeds only slightly, dispersing a low boiling olefin hydrocarbon material in said stream at said reaction temperature in such a manner that the concentration of unreacted olefin in the stream does not exceed 10 per cent by weight, subsequently dispersing a second and different low boiling olefin hydrocarbon material in said stream at said reaction temperature in such a manner that the concentration of unreacted olefins in the stream does not exceed 10 per cent by weight, thus effecting reaction of the olefins with the paraffins to form synthetic paraffins, and then separating from the reacted mixture the synthetic paraffins so produced.

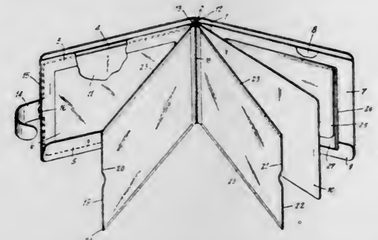
2,350,502
HYDRAULIC PUMP
Louis J. Garday, Glenview, Ill., assignor to Aircraft & Diesel Equipment Corporation, Chicago, Ill., a corporation of Delaware
Application January 30, 1943, Serial No. 474,065
4 Claims. (Cl. 103—203)



1. In a hydraulic pump of the type having a cylinder, a piston reciprocable therein, and normally-closed spring-pressed suction and discharge valves adapted for operation to their respective open positions solely by the pressure differentials produced by reciprocation of said piston, the combination of means for conducting hydraulic medium to the side of said suction valve opposite said cylinder, including a hollow filter unit the interior of which communicates with said valve, priming means for said pump comprising a manually operable member slidably carried by said filter unit, one end of said member being disposed in said filter unit in normal spaced relation to said suction valve and the other end of said member extending outwardly from said filter unit for manipulation to engage said one end of said member with said suction valve and effect opening of said suction valve, and spring means normally maintaining said member in said normal spaced relation to said suction valve.

2,350,503
BILLFOLD
Leah L. Gardner, University City, Mo.
Application August 24, 1942, Serial No. 455,867
2 Claims. (Cl. 150—38)

1. In a bill fold having an elongated outer wall provided with a transverse fold line midway of its ends, two relatively short walls supported at the inner side of one end portion of said outer wall forming a pocket closed along its upper and lower sides and having its inner end open throughout the width of said pocket laterally beyond said fold line, a connection substantially closing the outer end of said pocket and attaching the outer end of one of said short walls to an end of said outer wall, said connection having a slot therethrough, an elongated wall having one end portion insertable in said pocket through said open end to engage the end of said portion against said connection and having another end portion foldable toward and from said first end portion, a hinge device attached to said second



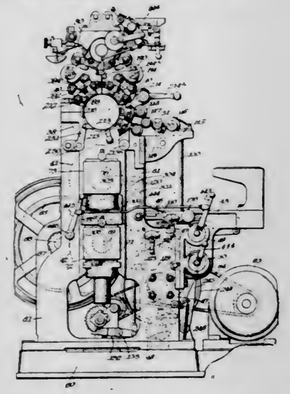
end portion and supported thereby beyond the inner end of said pocket when said first end portion is in said pocket and has its said end abutting against said connection, means forming a pocket having one end attached to said hinge device, a tongue integral with said first end portion of less width than said pocket removably extending through said slot and beyond said connection when said first end portion is wholly within said pocket, and means for attaching said tongue to said second end portion when said first end portion is wholly within said pocket as aforesaid.

2,350,504
YARN
Ernest C. Geir and Rudolph E. Semmler, New York, N. Y.
Application July 16, 1943, Serial No. 494,946
4 Claims. (Cl. 57—139)



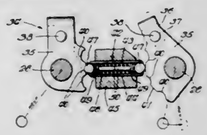
1. A yarn consisting of at least three threads, at least one being a glass thread, at least one other being an asbestos thread, at least two of said threads being identical threads, said identical threads being twisted around one another in a single direction, said twisted identical threads and said remaining thread or threads being twisted around one another in the opposite direction, the number of turns in the first direction and the number of turns in the second direction being in the ratio of 7 to 5.

2,350,505
PRINTING PRESS ROLL STRUCTURE
George Goebel, deceased, late of Baltimore, Md., by Helene Goebel, administratrix, Baltimore, Md., and Elbe A. Wilckens, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Original application October 1, 1936, Serial No. 103,592. Divided and this application May 3, 1940, Serial No. 333,252
12 Claims. (Cl. 101—351)



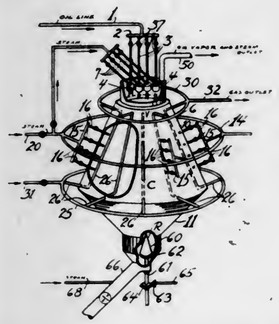
1. The combination in a printing press including a printing couple, of a roll to deliver ink to an element of said couple, and fluid pressure operated means to control the position of said roll with respect to said couple.

2,350,506
TRANSMISSION
Vaughn Haigh, South Bend, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Original application May 31, 1940, Serial No. 338,176, now Patent No. 2,317,761, dated April 27, 1943. Divided and this application March 26, 1943, Serial No. 480,631
5 Claims. (Cl. 74—477)



1. In a transmission having a plurality of torque transmitting members to be shifted, a pair of elements connected with said members for effecting the shift of the members, each of said elements being formed with a plurality of notches, and interlock means adapted to cooperate with said notches and including a poppet device, said poppet device comprising a part provided with a cylindrical cavity, a pair of balls in the end regions of said cavity and adapted to project therefrom for engagement in said notches, a pair of plungers in said cavity each acting on one of said balls, spring means in said cavity adapted to yieldingly urge said plungers and thereby said balls apart for simultaneous seating in notches of both said elements, and abutment means provided on said plungers adapted to bear against each other to allow one of said balls to be moved inwardly of said cavity to ride over a region of one of said elements between two notches therein while the other ball remains seated in its respective notch, and, when the balls are in the positions just described, to form together with the balls an unyieldable column between the elements maintaining the seated ball in engagement with its notch so as to prevent movement of its corresponding element.

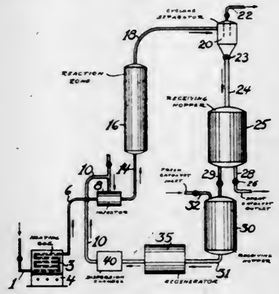
2,350,507
DISTILLATION METHOD
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 9, 1939, Serial No. 308,369
1 Claim. (Cl. 196—85)



The continuous method of distilling and coking a heavy residual hydrocarbon oil which comprises discharging the said oil in heated condition and in the form of droplets into the upper portion of a distillation zone, gravitating the said oil through said zone while contacting the said oil with upflowing superheated steam to cause the rapid release of gas oil and lighter hydrocarbons from said oil without substantial cracking of said gas oil, gravitating the residual oil from the distillation zone into and through a coking zone, the oil encountering progressively increasing cross-sectional areas as it gravitates through the said zones whereby the tendency of oil material and wet coky material to adhere to confining walls of said zones is substantially obviated, supplying additional heat to said oil by burning a gas within said coking zone but out of contact with said oil, injecting direct superheated steam into said oil at a plurality of vertically and circumferentially spaced points along the periphery of the distillation and coking zones as the oil passes through said zones thereby directing said oil away from the said confining walls and also heating it to produce further quantities of gas oil and coke, recovering gas oil and lighter hydrocarbons as an overhead product from both of said zones and coke as a bottoms from said coking zone.

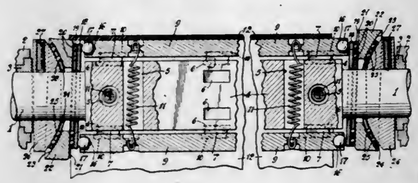
2,350,508
CONVERSION OF HYDROCARBON OILS
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 22, 1940, Serial No. 366,594
3 Claims. (Cl. 196—52)

1. A process for the conversion of hydrocarbon oils which comprises passing the oil to be converted in the vapor phase through a conversion zone, contacting the oil vapors within said conversion zone with a finely divided solid conversion catalyst, keeping said conversion zone at active conversion temperature, maintaining said oil vapors within the conversion zone for a period sufficient to obtain a substantial conversion thereof, continuously removing finely divided conversion catalyst containing carbonaceous deposits from said conversion zone, continuously rejecting a portion of the conversion catalyst so removed, continuously adding a portion of fresh conversion catalyst to the remainder of said finely divided solid conversion catalyst so re-



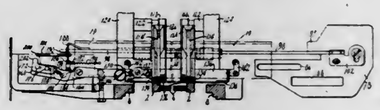
moved, the amounts of that added portion corresponding to the amounts of that rejected portion so as to maintain a constant average conversion activity of the catalyst during an extended period of time, passing the resulting mixture through a regenerating zone containing an oxidizing atmosphere to thereby burn carbonaceous deposits contained on the catalyst removed from said conversion zone, continuously withdrawing the mixture of regenerated catalyst and fresh catalyst from the regenerating zone and continuously returning said mixture to the conversion zone.

2,350,509
SELF-ALIGNING PULLEY
Rudolph F. Hlavaty, Cicero, Ill.
Original application September 15, 1941, Serial No. 410,871. Divided and this application July 15, 1942, Serial No. 451,003
12 Claims. (Cl. 74—241)



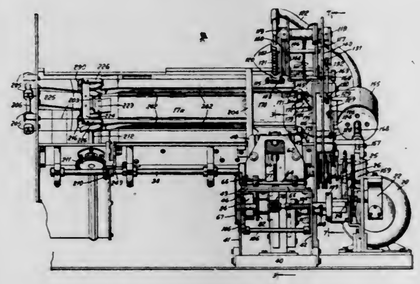
1. In combination in a self-aligning rotor, a rotor body, a plurality of surface members moveably carried thereby, and forming a contacting surface, and a plurality of rocker members positioned between said rotor and each of said surface members, and moveable means supported by said rotor adjacent said surface members and positioned to have contact with a surface with which the self-aligning rotor is in contact, and to be moved by such surface contact, said moveable means being effective, when moved by contact with said surface, to move in the direction opposite to that of misalignment, and thereby to compensate for said misalignment.

2,350,510
TYPEWRITING MACHINE
Jacob N. Hoffman, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 30, 1942, Serial No. 449,045
10 Claims. (Cl. 197—2)



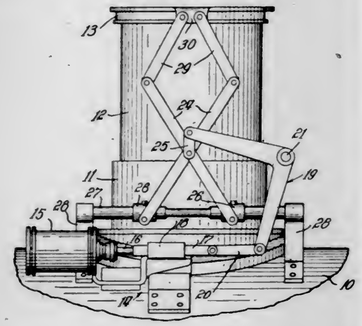
1. A typewriting machine comprising a supporting frame, a substantially flat platen, a line-space frame mounted on said supporting frame for movement forwardly and rearwardly over the platen, a type carriage mounted on the line-space frame for movement in letter-spacing direction and return, mechanism for advancing the carriage to letter space the same, means operated by the movement of the carriage for moving the line-space frame to line space adjacent the end of the carriage-return movement, a normally active brake for the line-space mechanism, and means for releasing said brake as the carriage approaches the end of its return movement and for restoring the brake at the extreme end portion of the line-space movement of the line-space mechanism.

2,350,511
SHEET FEEDING MACHINE
Clair D. Lake, Binghamton, and Francis E. Hamilton, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 15, 1942, Serial No. 454,912
10 Claims. (Cl. 271—11)



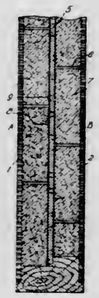
5. In a sheet feeding device for a stack of sheets, the combination of a gripper for feeding from the stack a single sheet to be fed, a movable base plate, a stationary base plate with means for adjustably carrying said movable base plate, adjustable hopper side plates forming with said movable base plate a sheet supply hopper, means for adjustably mounting said hopper side plates on said movable base plate to provide for both longitudinal and transverse movements of said hopper side plates to provide a sheet receiving space of variable widths and lengths, said mounting means having connections to said movable base plate for concurrent longitudinal adjustment of the movable base plate on the stationary base plate as the hopper side plates are adjusted transversely and longitudinally on the movable base plate.

2,350,512
SMOKESTACK
Howard H. Lanning, Topeka, Kans.
Application October 12, 1942, Serial No. 461,827
7 Claims. (Cl. 110—184)



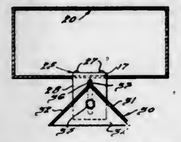
1. A smoke stack comprising a vertically movable section adapted to telescope into an immovable lower section; toggle levers arranged at the side of the lower section with the upper ends operatively connected with the movable section; horizontally arranged guide means on which the lower ends of the toggle levers are slidably mounted; rocker means secured adjacent the stack and operatively connected with said toggle levers so as to induce extending and retracting movements of the toggle levers; and controllable power operated means connected with said rocker means.

2,350,513
SOUND BARRIER WALL OR DOOR CONSTRUCTION
Ralph L. Leadbetter, Wheaton, Ill., assignor, by mesne assignments, to Burgess-Manning Company, Chicago, Ill., a corporation of Illinois
Application December 30, 1940, Serial No. 372,310
9 Claims. (Cl. 20—91)



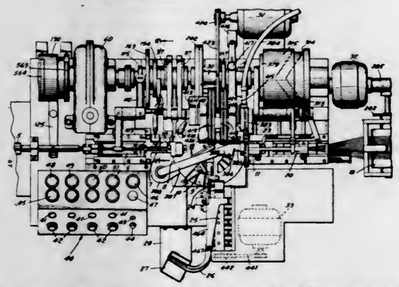
1. A sound barrier wall construction comprising a pair of spaced substantially parallel apertured panels forming the exposed surfaces of said wall construction, an air-impervious diaphragm spaced between said apertured panels in substantial parallelism thereto, a sheet of non-rigid, nonvibratile material adjacent and engaging at least a portion of at least one surface of said diaphragm at a point other than a point of support of said diaphragm, and intersticed masses substantially filling the spaces internally adjacent said apertured panels.

2,350,514
AIR DEFLECTOR FOR AIR DUCTS
Allen P. Livar, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application October 30, 1942, Serial No. 463,871
3 Claims. (Cl. 98—40)



1. An air distribution system comprising an overhead duct having a longitudinally extending slot through its lower wall, a vertical plate extending from the lower wall of said duct at each end of said slot, an opening through each of said plates substantially in a vertical plane through the longitudinal centerline of said slot, an air deflector comprising a pair of sloping sides of substantially the same length as said slot and extending downwardly from a central ridge, means to support said air deflector beneath said slot comprising a pair of longitudinally extending pins adapted to pass through said openings and projecting from the ends of said air deflector in a plane substantially bisecting the angle formed by said sloping sides, the arrangement being such that the plane bisecting said sloping sides may be canted with respect to the vertical whereby to cause more air to be deflected toward one side of the duct than toward the other, and means to hold said deflector in canted positions.

2,350,515
AUTOMATIC MACHINE
Arthur M. Loungway, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 24, 1942, Serial No. 448,328
11 Claims. (Cl. 300—2)



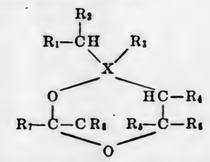
1. In a machine for making brushes composed of a complement of wires bound in a ferrule, a turret comprising a rotary index member having a plurality of ferrule receptacles, means to rotate said index member by steps to successive index positions, ferrule supply means comprising means to feed a tube of ferrule stock intermittently, in the intervals between steps of rotation of said index member, to place a ferrule length of the tube in each receptacle of said index member upon arrival at one index position, means to sever the ferrule length from the tube after each feed of the latter, intermittently operating wire feeding means adapted to feed wires into each ferrule upon arrival at another index position, and means to crimp the ferrules upon the wires.

2,350,516
PHOTOENGRAVING
Walter S. Marx, Jr., Santa Barbara, Calif., assignor to Printing Arts Research Laboratories, Inc., Santa Barbara, Calif., a corporation of Delaware
No Drawing. Application July 29, 1942, Serial No. 452,787
6 Claims. (Cl. 95—5)

1. The method of preparing half-tone negatives which comprises the steps of manually applying transparent color over the half-tone areas of the subject to be reproduced, subjecting a negative element in two registering exposures to light from said subject, one of said exposures being made through a screen to register gradations of the half-tone areas, the other of said exposures being made with the screen effectually removed and with light which is absorbed by said transparent color, said negative element being sensitive to both lights.

2,350,517
PROCESS FOR CONVERTING A CYCLIC ACETAL TO A POLYOLEFIN
Louis A. Mikeska, Westfield, and Erving Arundale, Colonia, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application December 7, 1940, Serial No. 369,134
12 Claims. (Cl. 260—681)

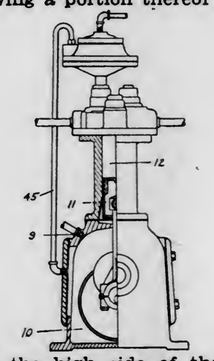
6. A process for the production of conjugated polyolefin which comprises refluxing a cyclic acetal possessing the formula—



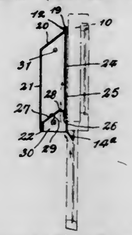
wherein X is a carbon atom selected from the group consisting of secondary and tertiary carbon atoms; R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 are substituents selected from the group consisting of hydrogen and halogen atoms, alkyl, alkenyl, aryl, aralkenyl, alicyclic, aralkyl, alkaryl, halo-alkyl, alkoxy, aryloxy, carbalkoxy and hydroxy alkyl radicals for from 0.1 to 16 hours with an aqueous acid-reacting material having an acid concentration of 0.05–50%, at a temperature between 50° and 150° C. and removing the polyolefin as formed.

2,350,518
COMPRESSOR
Earl Morrison, St. Louis County, Mo., assignor to Curtis Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application October 23, 1942, Serial No. 463,299
10 Claims. (Cl. 230—24)

1. An unloader for compressors comprising an inlet valve, a valve actuator that is spring biased to engage the valve and hold it open, a pressure responsive diaphragm secured to and movable with said valve actuator, said diaphragm being positioned in a chamber and having one side thereof communicating with the atmosphere external of said chamber and having the other side thereof in communication with the crank-case of said compressor, said crank case being provided with valve means operable to cause a reduced pressure in said crank-case upon operation of said compressor, and a second pressure responsive diaphragm positioned in a second chamber, said second chamber having a portion thereof in communication with the high side of the compression system and a valve openable to permit pressure to be exerted in said chamber that will overcome the force exerted on said first diaphragm and cause the valve to be held off of its seat.



2,350,519
FLYTRAP
Ola M. Olson, Rosholt, S. Dak.
Application April 21, 1943, Serial No. 483,943
1 Claim. (Cl. 43—119)



A fly trap constructed and adapted to be suspended within a window having a medial vertical stile and side frame stiles, comprising a housing having a wall provided with an inclined portion at its lower end having cut away portions at each vertical edge and at the medial portion thereof whereby to accommodate the vertical and medial stiles of the window and permit the lower edge of the inclined portion to contact the panes of the window, said wall having a screened opening providing light within the housing, said housing further having an inclined bottom wall positioned inwardly of the lower end of the housing forming a well, and said bottom wall having a plurality of entrance-openings formed in advance of said screened opening, and a bait hock suspended from the bottom wall adjacent the entrance openings.

2,350,520
COATING COMPOSITION AND AZO PIGMENT DYESTUFF THEREFOR
Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 17, 1943, Serial No. 479,493
29 Claims. (Cl. 106—219)

1. In the manufacture of azo pigment dyestuffs, the improvement which comprises inti-

mately associating with an azo pigment dyestuff water-insoluble "rosinic-fatty type acid" metallic soap to effect new physical characteristics in the resulting pigment composition.

2,350,521

FREE-FLOWING POWDERED SOAP MIXTURE AND ITS METHOD OF PREPARATION

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 17, 1943, Serial No. 479,494
18 Claims. (Cl. 106—243)

1. A dry, free-flowing, powdery soap mass consisting of water-insoluble metallic soap of "rosinic acid" and water-insoluble metallic soap of a "fatty type acid," the amount of "rosinic acid" being at least one part by weight to four parts by weight of "fatty type acid," said soaps being in intimate association as a result of one having been formed in the presence of the other.

2,350,522

MANUFACTURE OF AZO PIGMENT DYESTUFFS AND COATING COMPOSITIONS

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 17, 1943, Serial No. 479,495
27 Claims. (Cl. 106—219)

1. The method of forming an azo pigment dyestuff composition which comprises suspending particles of azo pigment dyestuff in an aqueous medium and in their water-wet condition retained from formation, intimately associating with said particles water-insoluble metallic soap derived in part from "rosinic acid" and in part from "fatty type acid" by converting water-soluble soap of said acids to the said water-insoluble form in the presence of said suspended particles, and recovering the pigment with the insoluble soap associated therewith.

2,350,523

SALT-FORM AZO PIGMENT DYESTUFF AND COATING COMPOSITION MADE THEREFROM

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 17, 1943, Serial No. 479,496
37 Claims. (Cl. 106—219)

1. The method of making an azo pigment dyestuff composition which comprises providing in an aqueous liquid a dyestuff strike of a salt-forming type of azo pigment dyestuff in incompleted pigment form, prepared from a diazotized amine and a coupling agent, said aqueous liquid also containing water-soluble soap of soap-forming acid capable of forming water-insoluble metallic soap with precipitating metal cations to be used to convert said incompleted pigment form to completed pigment salt form, adding said aqueous liquid to a liquid solution providing from 10% to 90% of the total amount of the said cations necessary completely to convert said incompleted pigment form to said completed pigment form and completely to convert said soluble soap to water-insoluble metallic soap, while maintaining the temperature of the combined liquids between about 40° C. and the boiling temperature thereof, then adding material providing more of said cations in quantity at least sufficient to complete the pigment conversion and the insoluble-soap formation, and heating the resulting mass to complete the pigment conversion.

2,350,524

AZO PIGMENT DYESTUFF AND COATING COMPOSITION

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 17, 1943, Serial No. 479,497
22 Claims. (Cl. 106—219)

1. The method of making a coating composition which comprises simultaneously dispersing azo pigment dyestuff, water-insoluble metallic soap, and a small amount of salt electrolyte into a non-aqueous liquid vehicle.

2,350,525

MANUFACTURE OF PIGMENTS AND COATING COMPOSITIONS

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 17, 1943, Serial No. 479,498
38 Claims. (Cl. 106—219)

1. The process of making an azo pigment dyestuff composition, suitable for use in coating compositions, which comprises preparing an azo pigment dyestuff powder, separately preparing a water-insoluble, "rosinic-fatty type acid" metallic soap as a free-flowing powder, and physically mixing the two powders.

2,350,526

WATER-INSOLUBLE SOAP OF SOAP-FORMING ACIDS IN POWDERED, FREE-FLOWING FORM

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 17, 1943, Serial No. 479,499
18 Claims. (Cl. 106—243)

1. A dry, free-flowing, powdered, water-insoluble, metallic soap having the complex soap-forming acid radicals of the substance which results from the condensation of resin substance selected from the group consisting of rosin and abietic acid, with material selected from the group consisting of unsaturated aliphatic acids having up to, but not more than, two carboxyl groups, their anhydrides, and their esters.

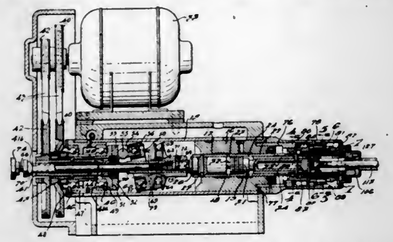
2,350,527

ADJUSTABLE FEED FOR TOOLS

Douglas T. Peden, Ann Arbor, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan

Application November 13, 1940, Serial No. 365,526
18 Claims. (Cl. 51—184.3)

1. In a honing device, a tool, a plurality of radially adjustable honing stones on said tool, cam means for moving said stones radially, means for moving said tool in reciprocation and rotation, fluid means for moving said cam means while said tool is operating, a rotatable sleeve through which said tool is operated, and mechanical means between said fluid and cam means op-



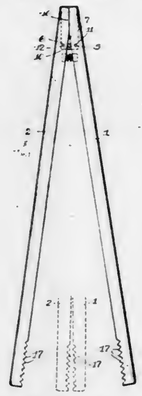
erated by the movement in rotation of said sleeve for additionally moving said cam means while the tool is operating.

2,350,528

LIFTING TONGS

Alfred Petersen, Chicago, Ill.

Application April 8, 1943, Serial No. 482,277
8 Claims. (Cl. 294—8.5)



1. In lifting tongs, a pair of arms, means for pivotally connecting the arms together, said means comprising a plate, a pin in each of said arms passing through the plate, and a third pin in the plate extending laterally therefrom and positioned between adjacent faces of the inner edge of the two arms, said third pin being positioned between the other two pins in a direction laterally of the arms.

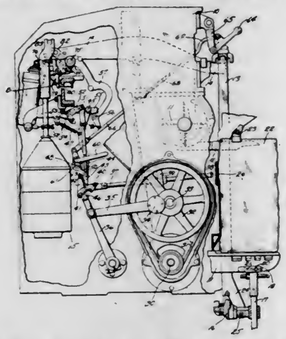
2,350,529

BAG-FILLING APPARATUS WITH POWER DISCHARGE

William R. Peterson, Oswego, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York

Application October 17, 1940, Serial No. 361,609
8 Claims. (Cl. 249—60)

1. In apparatus for filling valve bags comprising a scale beam, a spout mounted on the load end of the scale beam and adapted to enter the valve of a bag, means to feed material to and through said spout, and means operative immediately upon the lowering of the load end of the beam to stop the feed of material from said feeding means, a constantly moving power-driven element, a discharge rod for discharging a filled bag from the spout, a timer rendered effective by the lowering of the load end of the beam, and means rendered operable by the timer to



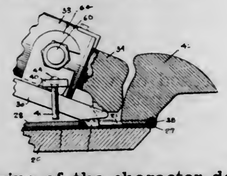
connect the element to the rod for producing discharging movement of the rod a predetermined time after said lowering.

2,350,530

PLATE-BENDING MACHINE

Paul S. Pickard, Lakewood, Colo., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware

Application July 24, 1942, Serial No. 452,127
6 Claims. (Cl. 153—1)



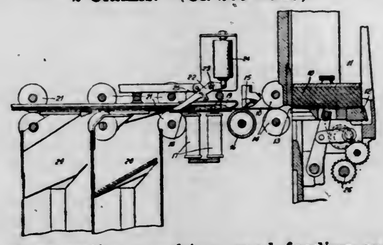
1. In a machine of the character described, a support, pivoted means for clamping a plate on the support, yieldable means mounted on the pivoted means for temporarily holding an article on said plate, means to bend said plate around at least a portion of the article, operating means for said bending means, and a yieldable connection between said operating means and the pivoted means to hold the plate and article thereon when the bending means is operated.

2,350,531

SORTING MACHINE

Edward J. Rabenda, Binghamton, and Harold J. Kistner, Union, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

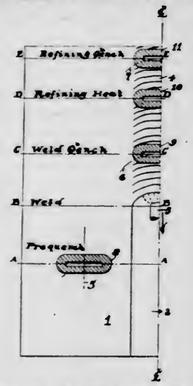
Application September 30, 1943, Serial No. 504,386
2 Claims. (Cl. 209—110)



1. In a sorting machine, card feeding means, sensing means, a plurality of receiving stations, a distributing system comprising a plurality of

blades forming parallel passages for the cards from the sensing means to said stations, means for deflecting the cards from the passages at an angle into said stations, and means controlled by said sensing means upon the deflection of a card into a predetermined one of said stations for maintaining the trailing end of the card parallel to said passages until it has completely fed out of said passages.

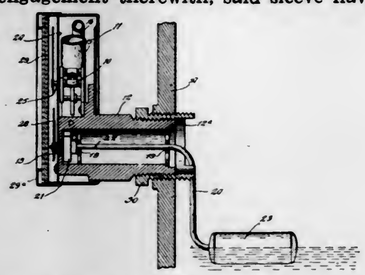
2,350,532
METHOD OF WELDING
Edward A. Richardson, Bethlehem, Pa.
Application June 4, 1941, Serial No. 396,485
8 Claims. (Cl. 148—21.5)



1. The method of welding hardenable materials which comprises establishing a predetermined transformation temperature to yield desired physical properties in at least those portions of the material to be welded which will be heat affected in the welding operation, then making a weld, then, before the weld has cooled substantially, rapidly withdrawing heat from the weld joint and the heat affected regions adjacent thereto so as to bring the temperature thereof to said predetermined transformation temperature as quickly as possible and before transformation at any other temperature can be substantially complete, and maintaining said transformation temperature until transformation is substantially complete.

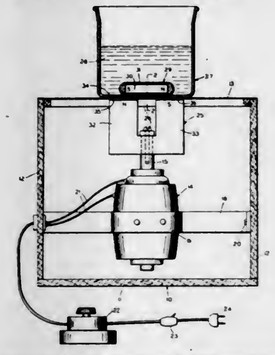
2,350,533
LIQUID LEVEL GAUGE
Alexander D. Rose, Des Plaines, and Hans Seegers, Chicago, Ill., assignors to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application July 6, 1942, Serial No. 449,880
5 Claims. (Cl. 73—317)

2. In a gauge for installation in the wall of a liquid chamber to indicate liquid level, a single hollow supporting nipple threaded for insertion into the wall of said chamber, a liquid level-indicating mechanism comprising a crank-shaped float arm having one end portion for extending within said chamber and the other end portion journaled within said supporting nipple, a permanent magnet mounted interiorly of said nipple for movement with said float arm, and an indicator hand of magnetic permeable material mounted exteriorly of said nipple and within the field of said magnet for rotation therewith, and an adjustable threaded sleeve surrounding the outer end portion of said nipple and having spaced projections extending into the field of movement of said float arm for movement-limiting engagement therewith, said sleeve having a



portion for extending without said chamber whereby said spaced projections may be externally adjusted to limit movement within said chamber.

2,350,534
MAGNETIC STIRRER
Arthur Rosinger, Newark, N. J.
Application October 5, 1942, Serial No. 460,841
6 Claims. (Cl. 259—108)

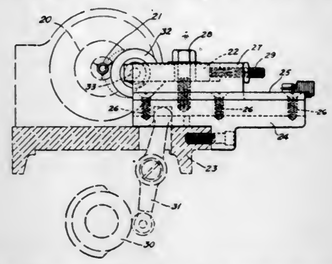


1. In a stirrer for chemical laboratories to be used for a liquid medium, a container of non-magnetic material for said medium, an elongated free moving stirrer element of magnetic material adapted to be dropped to the bottom of the container, a rotary U-shaped magnet vertically placed underneath said bottom with its poles closely thereto, and means to rotate said magnet on its vertical center axis, whereby rotation of the U-shaped magnet will cause said magnet to describe a predetermined movement within said container.

2,350,535
METAL TRIMMING
Charles Sarulla, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application November 14, 1942, Serial No. 465,539
11 Claims. (Cl. 164—60)

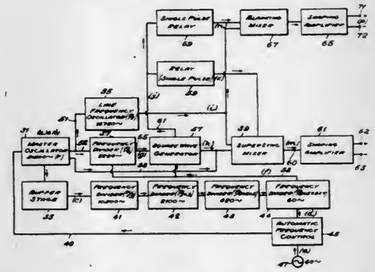
10. Apparatus for trimming tubular ammunition components including means to rotate a component; means to support a rotary tool having a cutting edge; means to move said support in a direction transverse to the axis of rotation of said component; means on said support to hold the cutting edge in a plane located at a small angle relative to said transverse plane; and a rotary tool having a cutting edge and a trailing edge, said trailing edge comprising a frusto-

conical surface adjacent the cutting edge, said surface being at a small angle relative to the



axis of the component, and a frusto-conical surface at a large angle relative to the axis of rotation of the component.

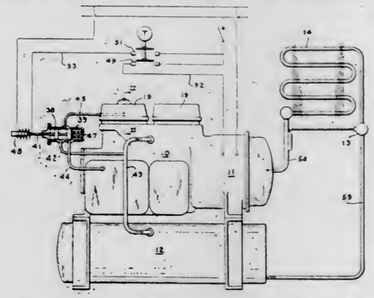
2,350,536
SYNCHRONIZING SIGNAL GENERATOR
Kurt Schlesinger, West Lafayette, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application July 30, 1942, Serial No. 452,921
8 Claims. (Cl. 178—69.5)



1. A television synchronizing signal generator comprising a master oscillator for generating steep front asymmetric impulse energy waves of a predetermined frequency and impulse duration, clipping means for deriving each of a plurality of separate energy waves from the master oscillator by clipping at predetermined separate amplitude levels of the impulse energy waves, frequency reducing means to derive energy from the master oscillator at a sub-harmonic thereof, clipping means for deriving from the reduced frequency waves energy at each of a plurality of predetermined energy levels, and means to combine the several produced energy waves.

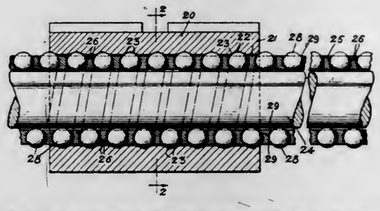
2,350,537
FLUID TRANSLATING APPARATUS
Olav Scott, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1941, Serial No. 374,649
4 Claims. (Cl. 230—31)

1. In a compressor, the combination of a cylinder member having a cylinder formed therein, a valve plate closing one end of said cylinder and having a suction valve port in registry with said cylinder and an unloader valve port out of registry with said cylinder, a movable valve element cooperating with said suction valve port to form a suction valve for the cylinder, a cylinder head disposed against the opposite side of said valve plate and having a suction chamber or passage providing communication between said ports in the valve plate, said cylinder head being formed with a cylinder disposed in alignment with



said unloader port, a piston in said cylinder movable against said valve plate to close said unloader valve port, and means for admitting fluid pressure to said last-mentioned cylinder to move said piston to closing position.

2,350,538
LEAD CONTROL DEVICE
Alf Kristian Selnes, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application November 16, 1942, Serial No. 465,735
11 Claims. (Cl. 74—459)

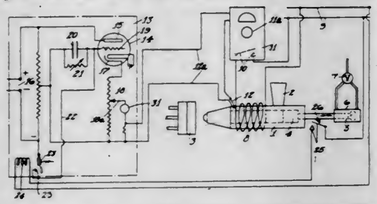


1. A lead control device comprising, in combination, a first member having an opening with an internal cylindrical surface, a second member extending in peripherally spaced relation within said opening and having an external cylindrical surface concentric with said internal surface, one of said surfaces being smooth and uninterrupted, the other of said surfaces being formed with a helical groove of substantially constant lead, and a helical series of balls disposed in said groove and in rolling contact both with the wall of said groove and with said one surface, whereby relative rotation between said members will cause relative axial movement between said members substantially in accordance with said lead.

2,350,539
AUTOMATIC TEMPERATURE CONTROL FOR INJECTION MOLDING MACHINES
Graydon Smith, Cambridge, Mass., assignor to Reed-Prentice Corporation, Worcester, Mass., a corporation of Massachusetts
Application March 14, 1940, Serial No. 323,871
8 Claims. (Cl. 18—30)

1. In combination, die means, an injector adapted to engage said die means, thermostatically controlled means for heating plasticizable material within said injector to a predetermined temperature, means for ejecting plasticized material from said injector into said die means at

regular intervals in accordance with a predetermined operating cycle, with the temperature at which the material is normally maintained being chosen as best suited for the length of



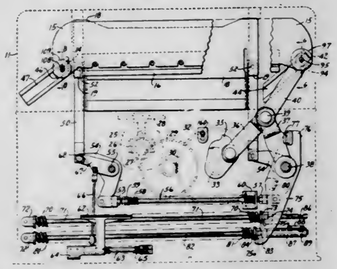
said cycle, and mechanism automatically responsive to any variations in the operating cycle of said injector for determining the temperature to which the plasticized material is actually subjected.

2,350,540

CUTTING MACHINE

William R. Spiller and Leo D. Barley, Dayton, Ohio, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware

Application November 2, 1942, Serial No. 464,216
18 Claims. (Cl. 164—54)



10. A cutting machine comprising a cutting table adapted to receive a pile of work material thereon, a reciprocable knife, drive means for actuating said knife in a working stroke to cut the material on said table, an inclined guide adjacent each end of said knife for causing the respective ends thereof to travel in predetermined paths during said reciprocating movement, a connecting rod secured to one end of said knife means for effecting actuation thereof, an adjustable eccentric connection between said connecting rod and said knife providing for adjusting the level of said knife with respect to said cutting table at the bottom of its stroke of movement, an adjustable eccentric between the other end of said knife and its associated guide for adjusting the angle which the knife means makes with said cutting table, and means on each eccentric connection for effecting adjustment thereof and for retaining the same in predetermined adjusted position.

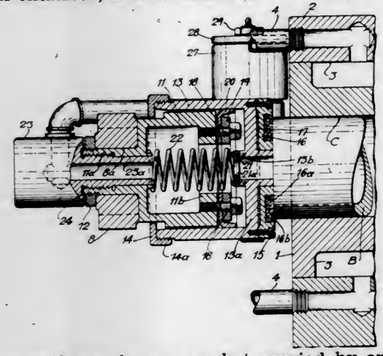
2,350,541

BREECH MECHANISM FOR PROPELLER BLADES

Foster B. Stulen and Lloyd W. Stevenson, Beaver, Pa., assignors to Curtiss-Wright Corporation, a corporation of Delaware

Application October 28, 1942, Serial No. 463,636
14 Claims. (Cl. 113—44)

1. Breech block mechanism for sealing the end of a hollow propeller blank while held in a die press, said mechanism comprising members relatively movable with respect to each other, said members defining chambers, respectively, which communicate with each other to form a main chamber, means forming a sealed joint be-



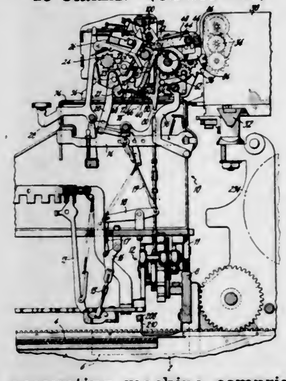
tween said members, a gasket carried by one of said members for sealing engagement with the end of said propeller blank, and means for passing air under pressure into said main chamber and into said propeller blank.

2,350,542

TYPEWRITING AND ACCOUNTING MACHINE

Oscar J. Sundstrand, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application June 29, 1940, Serial No. 343,233
15 Claims. (Cl. 235—59)



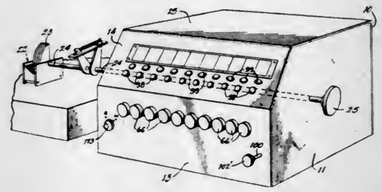
1. An accounting machine comprising power means, a register, selectively operative mechanisms for entering numbers, digit by digit, in the register each including a differential actuator, mechanism driven by the power means and normally disconnected from the actuator, means for connecting the actuator with said mechanism to move the actuator in one direction, a device movable in a corresponding direction, mechanism for operatively connecting said device with the actuator to move the device in said direction from the actuator during the said movement thereof, means for operatively connecting differentially said device with the register to operate the register during a part of the return movement of said device, means for returning said device comprising mechanism driven by the power means for imparting the greater part of the return movement to said device and intermediate driving connections between the latter mechanism and said device.

2,350,543

AUTOMATIC RADIO TUNER

Albert S. Wells, Chicago, Ill., assignor to Wells-Gardner & Co., Chicago, Ill., a corporation of Illinois

Application January 14, 1943, Serial No. 472,371
30 Claims. (Cl. 250—20)



1. In radio tuning mechanism the combination of condenser plates and a movable mounting for the same, a group of selectively actuated transmission elements each adapted to be brought into operative engagement with the movable mounting, a constantly operating movement imparting element, adapted to engage singly with each of the transmission elements, releasing devices for normally holding the transmission elements out of engaging relation with the movement imparting element, timing devices and connections for successively in timed order actuating the releasing devices to permit engagement of a released transmission element by the movement imparting element, and individually adjustable elements for limiting the period of engagement of each transmission element to impart the degree of movement to the mounting required in tuning to the variable frequencies of each of a group of transmitting stations.

2,350,544

GREASE COMPOSITION

John C. Zimmer, Union, and Arnold J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 28, 1942, Serial No. 467,204
8 Claims. (Cl. 252—35)

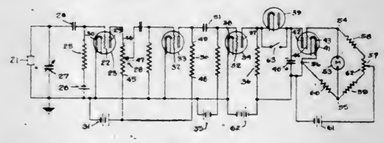
1. A grease composition comprising a mineral lubricating oil and from 6–20% of a mercaptide of a mercaptan having at least 10 carbon atoms to the molecule and a polyvalent metal.

2,350,545

MEASURING INSTRUMENT

Colin Irving Bradford, Fairfield, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware

Application August 30, 1941, Serial No. 408,968
15 Claims. (Cl. 171—95)



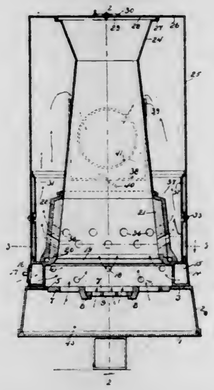
1. An apparatus for measuring pressure including a single transient electrical surge producing means, said surge being proportional to the pressure; a rectifying tube circuit including a capacitor, said capacitor being charged in proportion to the surge at each instant of time; means to retain the maximum voltage produced by said surge including an electronic voltmeter tube having two elements and a third element therebetween, one of said first mentioned elements being connected to said capacitor; and an electronic tube voltmeter bridge circuit responding to linear proportion to the maximum voltage including said last mentioned electronic tube in one leg, resistances in each of the other legs, and an electrical measuring means connected to said bridge and measuring the peak voltage on the capacitor.

2,350,546

COAL-GAS STOVE OR HEATER

Neil H. Cargile, Nashville, Tenn.

Application August 26, 1940, Serial No. 354,312
2 Claims. (Cl. 126—73)



1. In apparatus of the class described, a base casting enclosing an ash pit and having a controlled air-admitting means, said base casting having an upper wall provided with an opening, a grate in said opening, a sub-base comprising a hollow-walled member set on said base casting above and encircling said grate, adjustabe means to admit outside air into the hollow of said wall of said sub-base, said sub-base having at least one annular series of air ports for delivering air to fuel directly above and in proximity to the grate, a magazine for fuel supported by said subbase and including adjacent and above the subbase at least one annular series of upwardly outwardly directed gas ports, a closure having a controlled air-admission means for the upper part of said magazine, an outer casing enclosing said magazine and spaced from the same to comprise a combustion chamber, a smoke outlet from said combustion chamber, and a U-shaped baffle between said magazine and said outer casing below and at the sides of said smoke outlet and having in its bottom portion a damper-controlled opening for direct draft to the smoke outlet.

2,350,547

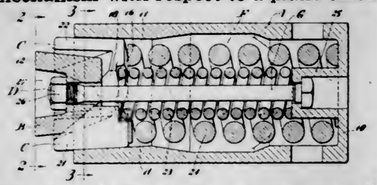
FRICTION SHOCK ABSORBING MECHANISM

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application October 24, 1941, Serial No. 416,288
4 Claims. (Cl. 213—32)

1. In a friction shock absorbing mechanism, the combination with a friction casing having

interior friction surfaces; of a friction clutch slidable in said casing, said clutch including a wedge block and a plurality of friction shoe members surrounding said block, said shoe members being arranged in sets of two adjacent members, said block having a plurality of sets of wedge faces, each set comprising two faces diverging laterally outwardly and rearwardly of the mechanism with respect to a plane embraced

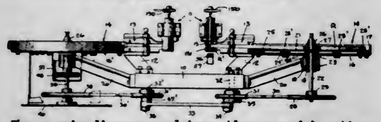


between said faces radial to the longitudinal central axis of said mechanism, the angularity of one of said faces being keener than the other, each of said sets of wedge faces of the wedge engaging respectively with the shoe members of one of said sets to squeeze said members together and force the same outwardly against the friction surfaces of the casing; and spring means opposing movement of said clutch inwardly of the casing.

2,350,548
ASPHALTIC EMULSION
William W. De Laney, Marshallton, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 25, 1940, Serial No. 362,806
7 Claims. (Cl. 252—311.5)

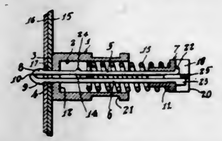
1. An emulsifier for producing intermediate breaking aqueous asphaltic emulsions comprising from about 50 to about 80% by weight of an alkali metal soap of substantially petroleum hydrocarbon-insoluble pine wood resin, and from about 50 to about 20% by weight of an alkali metal soap of a material having a saponifiable acid constituent in the group consisting of resin acid, fatty acid, and resin and fatty acids, said material selected from the group consisting of rosin, animal oils, vegetable oils, and tall oil.

2,350,549
FEED MECHANISM
Nicholas Eslinger, Foster, Ohio, assignor to Remington Arms Company, Inc., a corporation of Delaware
Application January 30, 1942, Serial No. 428,825
5 Claims. (Cl. 242—55)



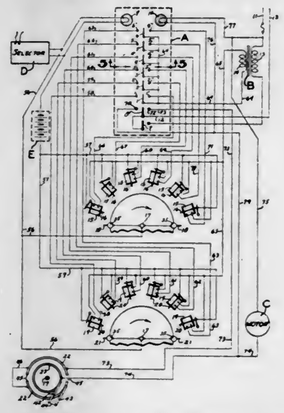
3. In a winding machine, the combination with a winding spindle and means for rotating the spindle; of means for supplying material to said winding spindle comprising a rotatable table for unwinding the material, said table having a substantially vertical axis of rotation; members in the plane of said table for supporting an excess of unwound material produced by a difference between the speed of unwinding and rewinding of said material; and an element circumscribing the supporting members constructed and arranged to limit the radial expansion of said excess unwound material.

2,350,550
CLAMP
Donald H. Finkle, Los Angeles, Calif.
Application May 8, 1942, Serial No. 442,155
6 Claims. (Cl. 85—5)



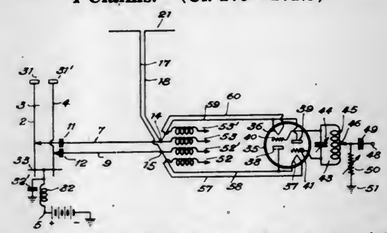
1. In a clamp, a body slidably carrying complementary rods, said rods having projections on their outer ends for engaging one side of the material to be clamped, tension means for compressing said material between said projections and said body, a spreader in said body to spread said complementary rods in the body, and a projection on one of said complementary rods engaging the other of said rods to spread said rods at their ends.

2,350,551
ELECTRIC SWITCH APPARATUS
Edwin L. Fish and Daniel E. Maben, San Francisco, Calif.
Application December 22, 1941, Serial No. 424,034
6 Claims. (Cl. 177—380)



1. In an electric switch apparatus for sending a series of long and short impulse codes, a panel with a plurality of movable switch keys thereon corresponding to the greatest number of pulses to be sent in a complete code, means mounting said keys for moving to positions respectively denoting long and short pulses so as to collectively form a visible representation of all of the successive code pulses to be sent, a rotary contactor adapted for automatically making successive electrical contacts of long and short duration in any desired order, electric circuit means connecting the contactor with the switch keys of the panel determining the order of making said long and short contacts successively in accordance with said visible representation of the code by the setting of said switch keys on said panel, and means for starting and stopping the rotary contactor, said rotary contactor comprising a rotary motor with a timing shaft revolved thereby, contact means carried by said shaft, a plurality of movable contact elements spaced about said shaft each arranged to produce a long contact with the shaft contact means when moved into the path of the same as the shaft revolves and a plurality of movable contact elements similarly spaced about said shaft each arranged to produce a short contact with the shaft contact means when moved into the path of the same, electrically operated means for moving the contact elements individually into the path of the contact means, and said electric circuit means connecting the long and short contact positions of the keys for respectively so moving the long and short contact elements to successively make the contacts in accordance with the code denoted by the switch setting as the contactor is revolved.

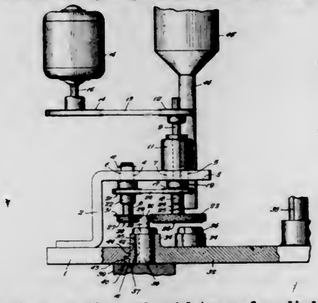
2,350,552
ABSORPTION MODULATION
Roscoe H. George and Richard C. Webb, West Lafayette, Ind., assignors to Radio Corporation of America, a corporation of Delaware
Application March 16, 1942, Serial No. 434,794
4 Claims. (Cl. 179—171.5)



1. A signal transmission system comprising a source of carrier frequency energy, a source of control signals for modulating the said carrier frequency energy, and a signal radiating means, a tank circuit for said carrier frequency energy source including a transmission line connected with the said source, an impedance inverting line having one end connected to receive energy from the said transmission line, a feeder line connecting the said impedance inverting line to the said signal radiating means, a second impedance inverting line connected to the opposite end of the said first impedance inverting line, said second impedance inverting line being adapted to receive energy from the source of control signals, and a modulator means to supply said control signals to said second impedance inverting line, said modulator comprising first and second thermionic tube elements each including at least a cathode, an anode and a control electrode and having the cathode of the first tube element and the anode of the second tube element connected to one side of the said second impedance inverting line, and the cathode of the second tube element and the anode of the first tube element connected to the other side of the second impedance inverting line, and means to supply signals from the source to the pair of control electrodes so that for signal variance between minimum and maximum values the impedance directly across the said second impedance inverting line varies between maximum and minimum values.

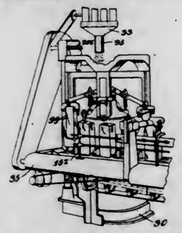
2,350,553
AMMUNITION ABRADING APPARATUS
Harvey J. Hackman, Kings Mills, Ohio, assignor to Remington Arms Company, Inc., a corporation of Delaware
Application March 11, 1941, Serial No. 382,689
3 Claims. (Cl. 51—108)

2. In a shot shell tube abrading machine, a fixed table; a transfer dial rotatably mounted in a horizontal plane above said table, said dial having peripherally spaced apertures provided with bushings for supporting shot shell tubes, the bases of which rest on said table; abrading means comprising rotatable members having spaced surfaces, at least one of said surfaces having abrasive properties; means to rotate said members at different peripheral speeds; and means



to index the rotation of said transfer dial whereby said tubes are moved successively over said table into engagement with the rotating spaced surfaces, said surfaces being constructed and arranged simultaneously to peripherally engage a limited area of a tube rotatably supported in the bushing of said transfer dial and by said engagement to abrade said tube.

2,350,554
APPARATUS FOR OPENING AND FILLING BAGS
Carl H. Hartman, New Rochelle, and Esli A. Marsh and Neill E. Dorrington, Oswego, N. Y., assignors to St. Regis Paper Company, New York, N. Y., a corporation of New York
Original application May 2, 1939, Serial No. 271,372. Divided and this application August 14, 1941, Serial No. 406,828
14 Claims. (Cl. 226—59)

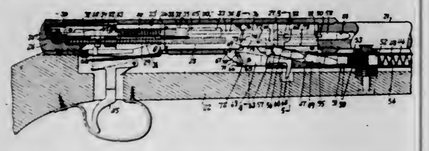


1. Apparatus for opening and filling bags comprising vertical guide members, a bag clamp movable vertically of said guide members and adapted to clamp the top of a bag, bag opener members attached to the clamp at their upper ends, fitting between the guide members, and bent to a common center at their lower ends.

2,350,555
TUBULAR-MAGAZINE REPEATING FIREARM
Timothy F. Horan, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application August 2, 1940, Serial No. 349,435
8 Claims. (Cl. 42—17)

6. In a repeating firearm including a barrel having a cartridge chamber, a receiver at the rear end of said barrel and having a bolt-receiving passage therein extending substantially parallel

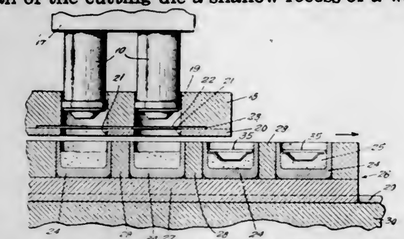
to the longitudinal axis of said barrel, a breech bolt slidable in said bolt-receiving passage, a tubular magazine extending forwardly beneath said barrel and communicating at its rear end with the bolt receiving passage in said receiver in position to feed said cartridge into a position alongside the forward end of said breech bolt when the latter is in its breech closing position, and cartridge elevating means for laterally shifting cartridges from said tubular magazine into position for introduction into the cartridge chamber of said barrel by said breech bolt; said breech bolt being provided with a forwardly-facing abutment, a rearwardly-facing cam disposed forwardly of said abutment and a retaining surface disposed forwardly of said cam and extending substantially parallel with the path of movement of said breech bolt; said cartridge elevating means comprising a pivotal actuator having a shoulder and a finger, the latter being positioned with relation to said breech bolt to be sequentially engaged by the abutment, the cam and the retaining surface thereof, a pivotal cartridge lifter associated with said actuator and engageable



with a cartridge to laterally shift the same from said magazine into position for introduction into the cartridge chamber of said barrel, said lifter being also engageable with said shoulder, and cartridge elevating spring means operatively interconnecting said actuator and said lifter and being constructed and arranged to yieldingly urge said lifter into engagement with said shoulder and into its cartridge elevating position when said actuator finger is engaged in sequence by the cam and the retaining surface of the breech bolt when the breech bolt is moved into its retired position; said cam being located in position to shift said actuator before the front end of said breech bolt is moved rearwardly beyond the rear end of a cartridge positioned alongside the breech bolt, to thereby energize said spring means and cause the latter to move said lifter and hence yieldingly force the cartridge against the lateral face of the breech bolt; said abutment being positioned to engage said actuator finger when the breech bolt is moved forwardly to positively swing said actuator and cause its shoulder to in turn positively swing said lifter downwardly into the retired position.

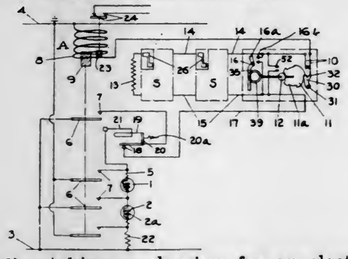
2,350,556
AMMUNITION AND EXPLOSIVE-CHARGE MAKING
Harry D. Hotchkiss, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application April 16, 1941, Serial No. 388,767
1 Claim. (Cl. 86—1)

Apparatus for sealing primer cups with a sealing disk comprising means for supporting a primer cup; a die mounted over said cup and constructed and arranged to support a sheet of sealing disk material; and a punch reciprocably mounted to enter said die and said primer cup for cutting a sealing disk from the sheet of sealing material and securing the cut disk in the primer cup, said punch comprising a frusto-conical point adapted to gather an area of said sheet in excess of the transverse area of said cutting die, a cutting and feeding shoulder of substantially the diameter of said cutting die, and a relatively thin shoulder adjacent said cutting shoulder having a diameter such as to define with the wall of the cutting die a shallow recess of a width



substantially equal to the thickness of said disk, the edge of said thin shoulder being rounded to facilitate gathering the marginal portion of said disk into said recess to form a circumferential crease at the periphery of said disk whereby the edges of said disk are held in sealing engagement with the walls of said cup.

2,350,557
DISPATCHING MECHANISM FOR ALARM SIGNAL SYSTEMS
Ferdinand F. Humphreys, Caldwell, N. J., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Application November 14, 1941, Serial No. 419,097
4 Claims. (Cl. 177—360)



1. A dispatching mechanism for an electrical alarm system, comprising relatively movable contacts normally closed in the non-operating condition of said mechanism, a spring-driven motor adapted to be wound upon actuation of the mechanism, a coding element rotatable by said motor for a predetermined period upon unwinding of said motor to open and close said contacts for the transmission of signal impulses in accordance with the code designation of said element, a switch comprising a blade element carried by a pivoted arm and spaced stationary contacts normally out of engagement with said switch blade, and a cam member rotatable with said coding element for turning said arm to close said switch, in response to turning of said coding element immediately following actuation of said mechanism.

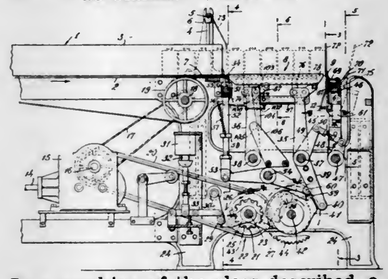
2,350,558
PRODUCTION OF ALCOHOLS
William J. Kerns, Rahway, and Helmuth G. Schneider, Roselle, N. J., assignors to Standard Alcohol Company, a corporation of Delaware
Application January 1, 1942, Serial No. 425,380
4 Claims. (Cl. 260—460)

1. A process for producing saturated acid extracts which comprises absorbing an olefin in an absorption medium consisting of a mixture of sulfuric acid of from 50 to 95% acid concentration with at least equal parts of a paraffinic oil, until the ratio of olefin to absorbent is at least 0.8:1 on a mol per mol basis, removing the paraffinic oil and completely saturating the sulfuric acid with olefin.

2,350,559
CRANKCASE INSULATION
Sidney E. Kienitz, New York, N. Y., assignor to Pentrathane Products, Inc., Long Island City, N. Y., a corporation of New York
No Drawing. Application August 12, 1941, Serial No. 406,517
2 Claims. (Cl. 117—27)

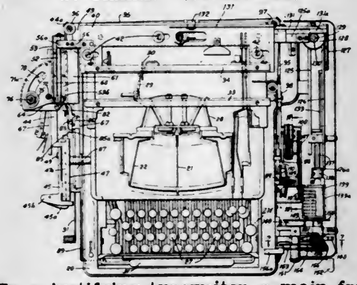
1. The method of forming an adherent, resilient, flexible insulating coating for the surface of a crankcase, comprising the steps of stirring 22 ounces of powdered vermiculite into one-half gallon of a 30% suspension of pre-vulcanized latex, spreading the mass thus formed upon the surface and permitting the mass to dry.

2,350,560
CASE PACKER
Wallace D. Kimball, Jackson Heights, N. Y., assignor to Standard-Knapp Corporation, Portland, Conn., a corporation of New York
Application October 19, 1940, Serial No. 361,905
23 Claims. (Cl. 93—6)



1. In a machine of the class described, a supply table, guiding devices for directing cans in a plurality of parallel lines thereon, a charge-forming table adjacent thereto, means for advancing cans from the supply table onto the charge-forming table, and guides for the cans on said table in alinement with said guiding devices and movable below the surface of said table to permit the cans to move laterally off said table.

2,350,561
TYPEWRITING MACHINE
Clair D. Lake, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 6, 1941, Serial No. 418,017
27 Claims. (Cl. 197—84)

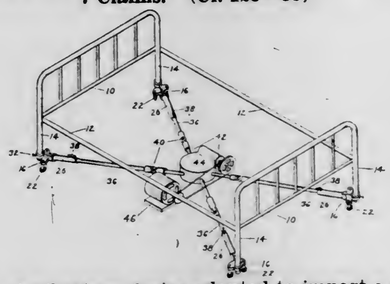


4. In a justifying typewriter, a main frame, a carriage, a carriage guiding rail movably mounted on said frame for movement parallel with the carriage, means mounted on said rail for spacing the carriage, a space bar for controlling the last named means, and means controlled by the space bar for effecting a supplemental movement of the carriage by moving said rail.

2,350,562
LUBRICATING OIL AGENT
Eugene Lieber, West New Brighton, Staten Island, N. Y., and Caleb E. Hodges, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application February 10, 1942, Serial No. 430,192
9 Claims. (Cl. 252—59)

1. The process which comprises reacting a halogenated non-cyclic paraffinic hydrocarbon material with an elemental metal that is at least as electropositive as calcium, and recovering from the reaction mixture a product soluble in petroleum oils and having therein stable viscosity improving effectiveness.

2,350,563
VIBRATORY DEVICE
Hugh B. Logan, St. Louis, Mo.
Application September 18, 1941, Serial No. 411,365
7 Claims. (Cl. 128—33)



7. A vibratory device adapted to impart a controlled vibratory motion to a structure which has a plurality of legs and on which a person may recline, comprising a plurality of supports, a plurality of rotatable shafts, and means that is connected to and serves to rotate the shafts, each of the said supports having a portion that is arranged to receive and engage one of the legs of said structure, each of the supports having a second portion that is arranged to receive and engage one of the rotatable shafts, an eccentric carried by each of the rotatable shafts said device being arranged so the supports and the shafts form a workable unit and the supports will remain substantially stationary during operation of the device and being arranged to cause vertical movement of the legs of said structure.

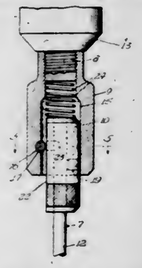
2,350,564
PRINTED ARTICLE
Hugh Menihan, New York, N. Y., assignor to American Bank Note Company, New York, N. Y., a corporation of New York
Original application June 29, 1938, Serial No. 216,527. Divided and this application July 25, 1941, Serial No. 404,017
2 Claims. (Cl. 41—24)



2. A metal object composed of metal powder compressed into a solid and having at least one

face decorated with an ink engraving with some of the ink incorporated with the compressed metal powder.

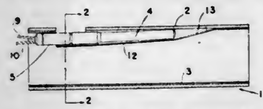
2,350,565
DRILL CHUCK
Harold A. Mills, Nashville, Tenn., assignor, by mesne assignments, to Consolidated Vultee Aircraft Corporation, a corporation of Delaware
Application August 12, 1942, Serial No. 454,517
2 Claims. (Cl. 279—76)



1. As a new article of manufacture, a chuck adapted to couple a bit to an externally threaded power driven shaft and comprising an elongated driving member having a longitudinal internally threaded bore at one end thereof for connection to the shaft and embodying at its other end an open ended cylindrical socket axially aligned and communicating with, and of greater diameter than, the bore, and in addition a crosspin having a portion thereof projecting into one side of the socket, and a readily removable substantially cylindrical adaptor of greater length than the socket, provided with mounting means for the bit, adapted to have one end thereof inserted into the socket and having a full length flat at one side to accommodate the crosspin in connection with insertion of said one end into the socket and also having a notch leading from the flat and adapted to receive said crosspin and form a driving connection therewith when the adaptor after insertion of said one end thereof into the socket is rotated or turned in one direction relatively to the driving member, and a helical spring having one end thereof fitting snugly and secured within the inner end of the bore and its other end projecting into the inner end of the socket, adapted to be engaged directly and compressed by the adaptor when said one end of the adaptor is inserted into the socket and serving yieldingly to hold the adaptor in place when it is rotated in said one direction relatively to the driving member and also to eject the adaptor from the socket when it is reversely rotated relatively to said driving member for removal purposes.

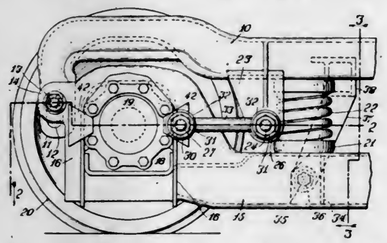
2,350,566
PRIMER TUBE FOR DYNAMITE CARTRIDGES
George R. Mustaparta, Kingston, N. Y., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application March 25, 1941, Serial No. 385,087
6 Claims. (Cl. 102—22)

1. An explosive primer adapted to receive and prime a completed explosive cartridge comprising a shock-resistant substantially tubular member, a firing device, resilient means associated with the tubular member for mounting the firing device adjacent the peripheral portion of the tubular member in a snug non-slipping relationship, a lining member within said tubular member which is at least partially cylindrical and which



forms a ramp over the said detonating end of the firing device whereby an inserted explosive cartridge slips easily over the said detonating end of the firing device and is held in priming contact therewith.

2,350,567
RAILROAD CAR TRUCK
Karl F. Nystrom and Vernon L. Green, Milwaukee, Wis.
Application September 11, 1941, Serial No. 410,354
3 Claims. (Cl. 105—194)



1. In a railroad car truck, the combination of a pedestalless truck frame with longitudinally disposed side members provided with depending brackets; equalizer beams arranged at the truck sides beneath the frame with upstanding journal bearing receiving yokes at their ends provided on their outer sides with bearing housing stop members; a longitudinally extending pull link pivotally connected with one of said yokes of each equalizer beam and said depending bracket, the ends of the link having enlarged conical openings therethrough; outwardly disposed pins secured, respectively, to the yoke and to the depending bracket and disposed through the openings in the ends of the link; resilient bushings arranged in the link-openings and disposed about the pins; and means at the opposite ends of the pins whereby the bushings are placed under compression.

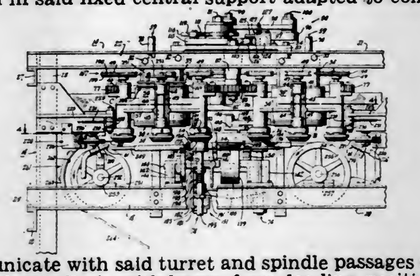
2,350,568

WITHDRAWN

2,350,569
MACHINE
Warren S. Reynolds, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application December 23, 1940, Serial No. 371,288
9 Claims. (Cl. 91—45)

1. A multiple-spindle turret machine comprising a fixed central support, a turret rotatably mounted on said support, means for indexing said turret, means for driving said spindles, means for loading a spindle in loading position comprising a plunger adapted to transfer and yieldably hold a work piece in contact with said spindle, suction means for retaining said work piece on said spindle comprising passages through said

spindle and said turret, and a peripheral channel in said fixed central support adapted to com-



municate with said turret and spindle passages as said spindle is withdrawn from loading position in the indexing movement of said turret.

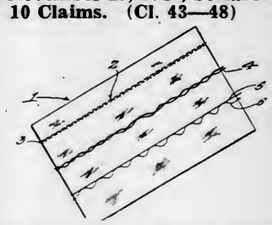
2,350,570
LUBRICANT
Albert A. Schilling, Stratford, and Thomas B. Curran, Bridgeport, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Original application February 15, 1940, Serial No. 319,106, now Patent No. 2,298,844, dated October 13, 1942. Divided and this application April 8, 1942, Serial No. 438,124
3 Claims. (Cl. 252—59)

1. A substantially solid lubricant comprising predominately a mixture of solid fatty alcohols, and not less than about 5% of a microcrystalline petrolatum wax to inhibit running of said lubricant.

2,350,571
LUBRICANT
Albert A. Schilling, Stratford, and Thomas B. Curran, Bridgeport, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Original application February 15, 1940, Serial No. 319,106, now Patent No. 2,298,844, dated October 13, 1942. Divided and this application April 8, 1942, Serial No. 438,125
3 Claims. (Cl. 252—59)

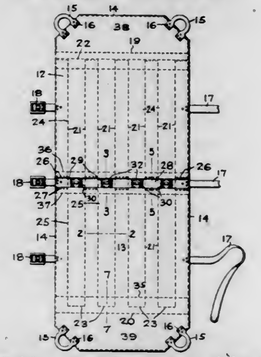
1. A substantially solid lubricant comprising predominately petrolatum and ozokerite; and not less than about 5% of a microcrystalline petrolatum wax to inhibit running of said lubricant.

2,350,572
FISHING LURE AND METHOD OF MAKING SAME
George Deming Schweigert, Denver, Colo.
Application November 18, 1941, Serial No. 419,641
10 Claims. (Cl. 43—48)



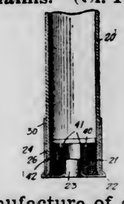
1. A fishing lure having parts formed of laminations of a synthetic material of tough, water impervious character, and elements interposed between said laminations and visible through the same to simulate markings common to natural parts of small insect and animal life.

2,350,573
STRETCHER
John Rudolph Smith, Jr., Haddonfield, N. J., and Frank De la Rosa, Philadelphia, Pa., assignors to A. Smith & Son, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1942, Serial No. 446,712
5 Claims. (Cl. 5—82)



1. A foldable stretcher comprising, an elongated substantially rectangular body, said body formed on one side of a single piece of flexible material, the other side of the body being formed of two sections of flexible material, each said section having its transverse inner edge portion spaced a suitable distance with respect to the transverse mid point of the single piece of material so as to provide a gap arranged crosswise of the stretcher on one side thereof between the two sections of material, a series of alined pockets formed longitudinally in said body by stitching the single piece of flexible material longitudinally on one side with the two sections of flexible material on the other side, said pockets terminating at points spaced a suitable distance from the ends of the body, a slat mounted in each alined pocket, said slats being constructed and arranged in alined relationship in alined pockets with the adjacent ends of each alined pair of slats disposed substantially at the mid point of the body, and a hinge pivotally connecting the adjacent abutting ends of each pair of alined slats at the mid point of said body, said hinges being exposed through the gap between the two said sections of flexible material, said body being constructed and arranged to be folded transversely upon itself along the fold line of the hinges to reduce the length thereof by at least one half.

2,350,574
AMMUNITION
Louis C. Tienken, Jr., Old Greenwich, and Milton B. Vordahl, Milford, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
Application July 2, 1940, Serial No. 343,542
7 Claims. (Cl. 102—43)

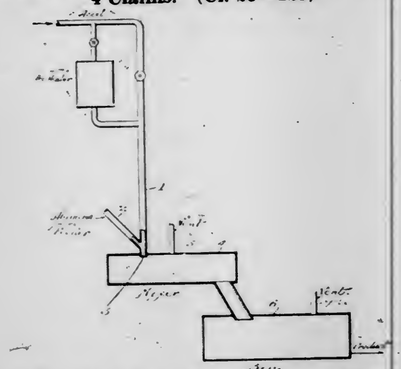


4. In the manufacture of shot shells having a rolled strip paper base wad, the method of par-

tially impregnating substantially the entire base wad with wax comprising impregnating a portion of the wad with wax and then diffusing the wax through the wad.

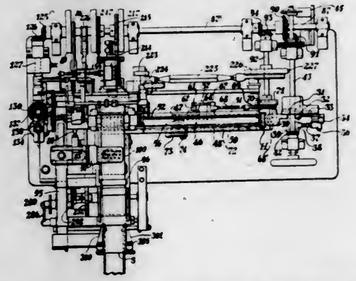
5. A shot shell having a steel head and a rolled paper base wad, substantially all of said base wad having a partial wax impregnation, said impregnation being not over 15% of the weight of the impregnated wad and sufficient so that the wad has the desired resiliency and gas sealing properties.

2,350,575
MANUFACTURE OF ALUMINUM SULPHATE PRODUCTS
Ritner W. Tomlinson, North Wales, and Henry G. Meyer, Philadelphia, Pa., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 11, 1941, Serial No. 382,806
4 Claims. (Cl. 23—123)



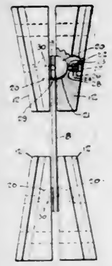
1. The steps in a continuous process for the manufacture of an aluminum sulphate product which comprise continuously feeding a stream of alumina-bearing material and a stream of concentrated sulphuric acid, in substantially reacting proportions to form an aluminum sulphate product under conditions such that water including water of reaction is provided appreciably in excess of 35% calculated on the basis of said product, to that portion of a reaction mixer where previously reacting streams of said reactants have created a hot zone, the concentration and temperature of the sulphuric acid fed to said zone being adjusted to permit the heat of reaction in the mixer to liberate and vaporize water and to form a discontinuous granular aluminum sulphate product containing less than about 35% water and to maintain said hot zone; mixing said streams in said zone to provide wetting of the particles of alumina-bearing material by the corresponding amount of sulphuric acid required for reaction therewith and to initiate reaction therebetween to form said aluminum sulphate product; continuously moving the particles of alumina-bearing material wetted by said sulphuric acid and reacting therewith from the hot zone toward the discharge end of the mixer; during said movement in the mixer permitting free escape of water vapor from the mixer; continuously agitating the material in the mixer during its said movement therethrough until said aluminum sulphate product in discontinuous granular form containing less than about 35% water and at least approximately 90% reacted is obtained; and continuously discharging said granular product from the mixer.

2,350,576
MACHINE FOR PACKAGING GUM
John Van Buren, Brooklyn, N. Y.
Application April 2, 1941, Serial No. 386,420
6 Claims. (Cl. 93—2)



1. In a wrapping machine, a pocket, means for moving a plurality of articles and a wrapper into said pocket with the ends of the wrapper projecting from the pocket, a vertically reciprocating roller adjacent the pocket arranged to apply liquid to one of the projecting ends of the wrapper and to fold said end of the wrapper, means for moving the pocket and means engageable with the other projecting end of the wrapper as the pocket is moved, for folding said other end against said first mentioned folded end.

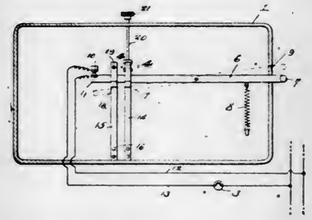
2,350,577
SPECIMEN GRIP FOR TESTING MACHINES
Milton B. Vordahl, Southport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application May 16, 1942, Serial No. 443,184
6 Claims. (Cl. 73—51)



1. In a specimen grip for testing machines, a jaw holder having converging surfaces, jaw members in sliding engagement with said converging surfaces whereby concurrent movement of said jaw members opens or closes them, a complementary gripping member universally mounted in each jaw member and provided with a gripping surface, projecting means on one gripping surface, and means on the adjacent gripping surface adapted to cooperate with said projecting means for locating, on a test specimen, the line of action of the force exerted.

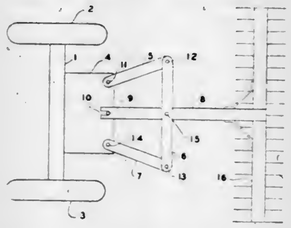
2,350,578
ALARM CLOCK
Oscar F. Beardsley, Endicott, N. Y.
Application October 21, 1943, Serial No. 507,160
2 Claims. (Cl. 58—19)

1. The combination with an alarm clock including a lifting element, of a lever having one end positioned for manual actuation, an electric circuit including a lamp positioned to illuminate a portion of the clock, a contact carried by the lever for closing the lamp circuit when the lever is in one position, yielding means for holding the lever normally in said position, separate resilient latches normally engaging the lever, each of said



latches having an inclined shoulder for holding the lever under restraint and against the action of the spring and for maintaining the circuit normally open, manually operated means for shifting one of the latches for disengagement from the lever, and means operated by the lifting means of the clock for actuating the other latch to release the lever.

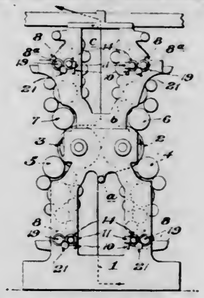
2,350,579
VEHICLE HITCH
Charles Russell Bingham, Davenport, Iowa
Application September 25, 1942, Serial No. 459,878
19 Claims. (Cl. 280—33.44)



1. A hitch for coupling tractors and trailers, comprising a draw-plate or drawbar rigidly united to the tractor at the rear end thereof, a pair of spaced sidebars having their front ends pivotally united to the draw-plate or bar at or near the rear corners thereof respectively, a crossbar having its ends pivotally united to the rear ends of the sidebars, and a tongue united to the trailer and pivotally united to the middle of the crossbar.

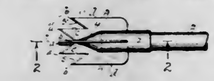
2,350,580
AUTOMATIC DIRECTIONAL INK FOUNTAIN DRIVE
James L. Blackley and William P. V. Ross, Battle Creek, Mich., assignors to The Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan
Application September 19, 1942, Serial No. 458,988
17 Claims. (Cl. 101—350)

1. In a printing press having a printing couple and having an ink fountain roll driven by said couple, a uni-directional drive for said roll, comprising a drive shaft adapted to be driven in opposite directions; a pair of rotatable members; oppositely acting clutch means causing one rotatable member to be driven by the drive shaft when rotating in either direction; and means connecting the rotatable members and fountain



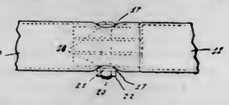
roll whereby the fountain roll will be rotated in one constant direction by either rotatable member.

2,350,581
ARROWHEAD
Elmer S. Boose, Two Rivers, Wis.
Application July 29, 1942, Serial No. 452,710
1 Claim. (Cl. 273—106.5)



An arrow head comprising a pointed ferrule, a plurality of pointed blades extending beyond the ferrule each having a trailing angular cutting edge leading rearwardly and inwardly from its point intersecting the axis of the ferrule to form outwardly flared cutting saw teeth and guiding vanes extending backwardly from the points of the blades having edges paralleling the ferrule axis.

2,350,582
JOINT STRUCTURE FOR METAL TUBING
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application September 27, 1943, Serial No. 503,939
7 Claims. (Cl. 287—119)



5. In combination, a metal tube provided near one end with a circumferential series of coplanar, arcuate slots, the tube metal between each slot and the adjacent tube-end being displaced radially inwardly to form a flute, a second tube, the fluted end of the first tube being telescopically received within the second and the end surface of the latter abutting against the sides of the slots in the former, and means for preventing axial separation of said tubes.

2,350,583
DRYING OILS
Theodore F. Bradley, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 8, 1941, Serial No. 378,060
3 Claims. (Cl. 260—405.6)

1. A method of producing fatty acids capable of forming polyhydric alcohol esters of improved

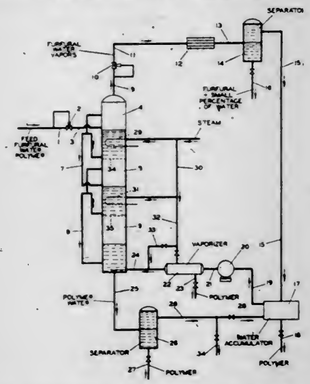
drying properties from a mixture of fatty acids having an iodine number of at least 110 and a substantial content of unsaturated higher fatty acids which contain at least two non-conjugated double bonds, which comprises heating a reaction mixture consisting of a solution of soaps thereof and an excess of alkali in water in the absence of an added alcohol in a closed chamber for several hours at temperatures of 200–250° C. and under the corresponding autogenic pressure, whereby isomerization of said unsaturated higher fatty acids takes place and also a certain amount of polymerization, and then separating the acids of varying boiling points from the polymers by vacuum distillation at pressure not substantially greater than 1 mm. of mercury absolute pressure.

2,350,584

FURFURAL PURIFICATION METHOD

Charles Keith Buell, Bartlesville, Okla., and Carl Major Cooper, Cincinnati, Ohio, assignors to Phillips Petroleum Company, a corporation of Delaware

Application September 28, 1942, Serial No. 460,004
10 Claims. (Cl. 202—73)



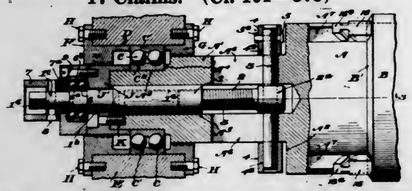
3. The process of recovering furfural from admixture with furfural polymer which comprises passing the mixture into a first fractionating zone and therein volatilizing furfural and removing same overhead in vapor form in admixture with steam, condensing the overhead vapors and separating the condensed furfural phase from the condensed water phase, said condensed furfural phase being essentially free from furfural polymer and constituting the product of the process, passing steam and furfural vapor from a succeeding fractionating zone into said first zone through the liquid therein to aid in separation of furfural therein, passing liquid mixture of furfural and polymer accumulating in the bottom of said first zone and richer in polymer than the liquid feed to the first zone into a succeeding fractionating zone, repeating the operation in at least one succeeding fractionating zone, passing liquid mixture of furfural and polymer from the last of said zones and richer in polymer than the liquid feed to said zone into a final fractionating zone, passing steam and furfural vapor from said final zone into the next preceding zone through the liquid therein, introducing steam directly into said final zone into the liquid therein to strip essentially all of the furfural therefrom, and removing the liquid mixture of polymer and condensed water from said final zone.

2,350,585

PLATE CYLINDER CLAMPING MEANS FOR CYLINDER PRINTING PRESSES

Albert James Carpenter, Jr., Battle Creek, Mich., assignor to The Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan

Application August 20, 1942, Serial No. 455,493
17 Claims. (Cl. 101—378)



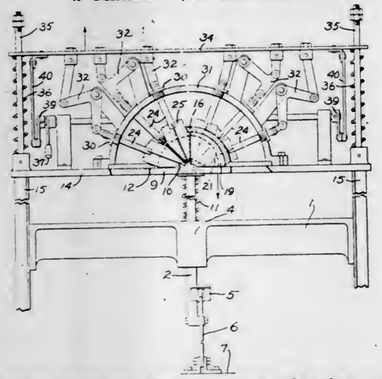
1. In combination, a plate cylinder having a cylindrical plate supporting surface and having an axially disposed reduced portion at one end forming a cylinder journal provided with an axial bore; said reduced portion having a slot communicating with the inner end of said bore; an actuating member rotatably mounted in said bore and having a tool-engaging end projecting beyond the end of said journal; means for preventing axial movement of the member within the bore; an axially movable member in the inner end of said bore actuated by the actuating member and having a cross-rod slidable in said slot; a ring slidably mounted on the reduced portion and engaged by the cross-rod; and axially movable plate clips carried by the cylinder and actuated by the ring.

2,350,586

METHOD OF DICING FRUIT

Ellsworth W. Carroll, San Carlos, Calif., assignor to S & W Fine Foods, Inc., San Francisco, Calif., a corporation of California

Application November 18, 1940, Serial No. 366,031
2 Claims. (Cl. 146—240)



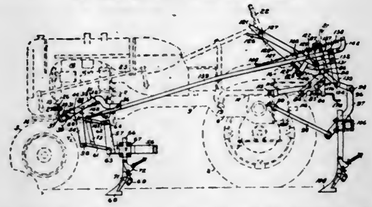
1. The method of dicing stoned substantially spherical shaped fruit with a minimum amount of waste into units of closely related weight, and whereby all of said units can be used without any further screening operation to provide a uniformly diced product, which comprises providing stoned halved fruit, cutting the stoned halved fruit into substantially equal sections and simultaneously making in said sections a plurality of radially directed planar cuts only, which intersect with each other on a plurality of lines within the fruit, the lines of intersection of any two different planes forming a substantial angle with each other, said cuts intersecting to produce a plurality of truncated pyramidal units.

2,350,587

AGRICULTURAL MACHINE

Walter G. Charley, La Crescent, Minn., and August G. Buhr, La Crosse, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 15, 1941, Serial No. 407,032
16 Claims. (Cl. 97—50)



1. In an agricultural machine, a traveling support, an implement unit including a suction producing ground engaging tool, draft means connecting said implement unit with said support for up and down movement relative thereto and including an element transmitting draft from said support to said implement unit in the normal operating position of the latter on a forwardly and upwardly inclined line of draft at such an angle relative to the ground level that the vertical component of the draft force acting upon said implement unit under normal working conditions is overbalanced by the gravitational and suction forces acting upon said implement unit in its normal operating position during advance movement of the machine, and means for raising and lowering said implement unit comprising an actuating element movable from a first to a second position and vice versa, means for holding said actuating element in either of said positions thereof, a thrust member pivoted on said actuating element and having a lost motion connection with said implement unit to permit upward movement of said implement unit from said normal operating position thereof while said actuating element is held in its first position, and operable to raise said implement unit to an inoperative position by movement of said actuating element from its first into its second position, and resilient means connected to said actuating element independently of said thrust member, and reacting between said actuating element and said implement unit to assist movement of said actuating element from said first to said second position, said resilient means being effective, when said actuating element is held in said first position, to supplement said gravitational and suction forces so as to urge said implement unit towards said operating position thereof upon increase of said draft force.

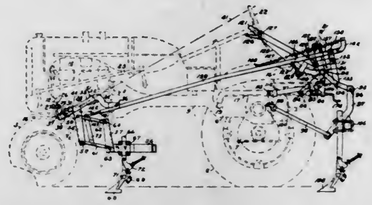
2,350,588

AGRICULTURAL MACHINE

Walter G. Charley, La Crescent, Minn., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original application August 15, 1941, Serial No. 407,031. Divided and this application January 18, 1943, Serial No. 472,671
20 Claims. (Cl. 97—50)

1. In an agricultural machine, a traveling support, an implement movably mounted on said traveling support, and adjusting means for said implement comprising, a lever pivotally adjustable on said traveling support to different positions, a first link having relatively spaced pivot centers, one fixed on said lever at a distance from the pivot axis thereof substantially equal to the spacing between said pivot centers to permit movement of said first link into a registering position in which the other pivot center of said first link substantially coincides with the pivot axis of said lever, a second link pivotally connected with said first link at said other pivot center thereof, a rock arm pivotally connected with



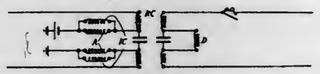
said second link and swingable on said traveling support about a fixed center spaced from the pivot axis of said lever, actuating means operatively connected with said rock arm for moving said first link into and out of said registering position thereof, and means operatively connecting said implement with said links.

2,350,589

TELEPHONE OR LIKE SYSTEM

David Adam Christian and David Langsford Clay, London, England, assignors to Siemens Brothers & Co. Limited, Westminster, London, England, a British company

Application September 18, 1941, Serial No. 411,288
In Great Britain November 1, 1940
14 Claims. (Cl. 179—16)



1. An impulse repeating circuit comprising an incoming impulsing circuit and an outgoing impulsing circuit, a two winding impulse receiving relay in said incoming circuit, means controlled by said relay for repeating impulses, received by said relay, over said outgoing circuit, a pair of inductances, one of said inductances connected in parallel with one winding of said impulse receiving relay and the other of said inductances connected in parallel with the other winding of said impulse receiving relay whereby when the condition of the incoming circuit is changed from a condition for energizing said relay and said inductances to a condition for deenergizing said relay and inductances a voltage impulse is generated in the windings of said inductances to cause the magnetic flux in said relay to rapidly decay.

2,350,590

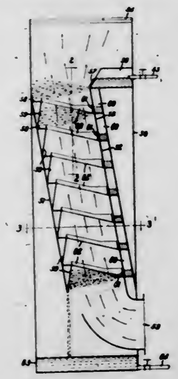
EVAPORATIVE COOLING

Stewart C. Coey, Glen Ridge, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application March 20, 1941, Serial No. 384,403
6 Claims. (Cl. 261—111)

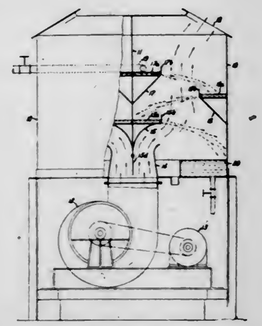
1. A method for contacting gases and liquids which comprises providing a generally upward stream of gas through a substantially unobstructed rectilinear path diverging from the vertical by from 5 to 15 degrees, introducing a stream of liquid into the upper portion of said gas stream at an upper lateral boundary of said path, collecting the liquid deposited from said

gas stream at the lower lateral boundary of said path, and reintroducing said collected liquid into



said gas stream at an upper lateral boundary of said zone of divergence at a level lower than the level of collection thereof.

2,350,591
EVAPORATIVE COOLING
Stewart C. Coey, Glen Ridge, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application July 3, 1942, Serial No. 449,649
2 Claims. (Cl. 261—111)

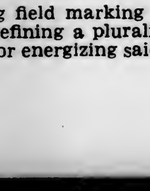


1. Apparatus for contacting gases and liquids comprising means defining a vertical conduit for the flow of gas, fan means for providing a generally upward stream of gas through said conduit, members projecting into said conduit at a plurality of levels alternately from opposite sides of said conduit and each terminating substantially short of the members that project from the opposite side to provide a rectilinearly unobstructed vertical passage of substantial width through said conduit between said members whereby to impart successive oppositely directed horizontal components of flow to said gas stream while maintaining the major upward vertical component of flow thereof, means for supplying a stream of liquid to the upper portion of said passage, liquid collecting means immediately above each of said projecting members including means for reintroducing collected liquid into said gas stream, and means for collecting said liquid at the lower end of said conduit.

2,350,592
ALKALINE CLEANING COMPOSITION
Louis J. Comaschi, Kansas City, Mo., assignor to Campbell - Taggart Research Corporation, Kansas City, Mo., a corporation of Missouri
No Drawing. Application November 23, 1942, Serial No. 466,665
3 Claims. (Cl. 252—135)

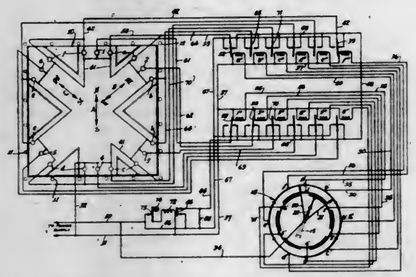
2. A metal oxide corrosion inhibiting composition for forming cleaning baths for metal ware with tin surfaces having tin oxide coatings and with aluminum surfaces having aluminum oxide coatings comprising, sodium metasilicate 50 to 60 parts, sodium silicate (Na_2O:3.22SiO_2) 20 to 30 parts, and 20 to 30 parts of a material selected from the group consisting of sodium acid phosphate, sodium acid sulphate and sodium bicarbonate, all of said parts being by weight.

2,350,593
STEERING WHEEL TRUCK FOR TRACTORS
James E. Cunningham, Littlefield, Tex., assignor of one-third to J. V. McCallister and one-third to J. T. Douglass, both of Littlefield, Tex.
Application April 16, 1943, Serial No. 483,300
2 Claims. (Cl. 280—87)



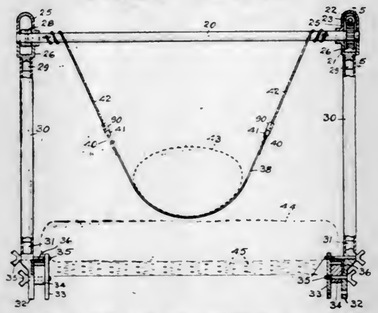
1. The combination with a tractor, of a front wheel steering truck including a steering post, a pair of front steering wheels, and means to mount said wheels on the lower end of the post upon opposite sides thereof, respectively, for adjustment relatively into planes at different angles to the vertical comprising a knuckle joint member fixed to the lower end of said post and having front and rear sides, and a pair of elongated knuckle joint members having inner ends pivoted to opposite sides of said first joint member for independent swinging of said pair of members vertically into different set positions, said pair of wheels being rotatably mounted on the outer ends of the joint members of said pair, respectively.

2,350,594
AIRFIELD TRAFFIC CONTROL
Warren K. Dallas, Los Angeles, Calif.
Application August 12, 1941, Serial No. 406,509
18 Claims. (Cl. 177—352)



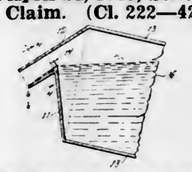
1. A landing field marking system comprising range lights defining a plurality of landing runways, means for energizing said lights from alternate circuits, means for intermittently making and breaking one of said circuits to indicate wind velocity, and means for selecting a particular circuit for energizing said lights in more than one runway to indicate a choice of runways.

2,350,595
APPARATUS FOR LIFTING AND TURNING INVALIDS IN BED
Clarence E. Divine, Puyallup, Wash.
Application July 12, 1941, Serial No. 402,068
3 Claims. (Cl. 5—88)



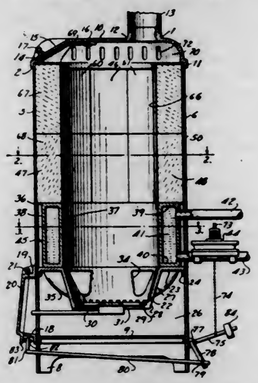
2. A bed sling for handling an invalid in bed comprising a winding tube formed of two independently rotatable parts; means operable to lock said two winding tube parts together and to relatively unlock the same; bearing and support means rotatively supporting said two part winding tube crosswise of the bed and in spaced relation above the bed; two self locking worm devices operatively connected with said two independently rotatable winding tube parts respectively providing an independent power step up and tube rotating and locking means for each winding tube part; means adapted to selectively unmesh either of said self locking worm devices to thereby render said unmeshed worm device inoperative and provide for the operation of both of said winding tube parts when said parts are locked together by the other worm device; an invalid sling; and a flexible lifting member connecting each winding tube part with one end portion of said sling.

2,350,596
DROPPER BOTTLE
William H. Douglass, Prentice, Wis.
Application April 24, 1943, Serial No. 484,329
1 Claim. (Cl. 222—421)



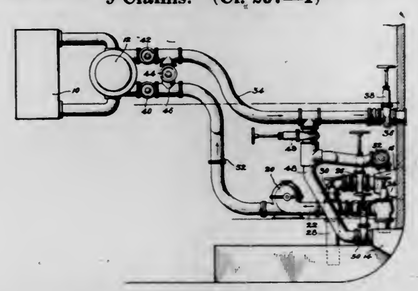
A dropper bottle comprising a substantially flat body including two opposed relatively wide walls and two opposed relatively narrow walls, said bottle having a neck extending from said body from the upper edge of one of said narrow walls at an angle to and intersecting the center line through the body, the intersection of said neck and body adjacent said center line forming a throat, a partition extending across the lower half of said throat and having a V-shaped cut-out therethrough; the apex of said V-shaped cut-out being spaced from the lower wall portion of said throat.

2,350,597
WATER HEATER
Edwin Esson, Kansas City, Mo., assignor to Locke Stove Company, Kansas City, Mo., a corporation of Missouri
Application September 2, 1941, Serial No. 409,158
6 Claims. (Cl. 122—30)



1. A heater of the character described including, a substantially rectangular jacket, a grate basket supported in the jacket including a substantially rectangular plate portion supporting a fire-pot, L-shaped ducts having connection with the fire-pot and opening through the plate portion within the corners of said jacket, a ring supported above the grate basket and spaced from the jacket to form a flue space therearound in connection with said L-shaped ducts, a refractory liner supported on said ring and forming vertical flue ducts in connection with said space, secondary air supply ducts located in heat exchange relation with the flue ducts and discharging at the upper ends of said last named flue ducts, baffles supported above the refractory liner on the respective sides of the fuel magazine, and a flue outlet for the heater having connection between said baffles, said baffles having openings for passing products of combustion from said flue ducts to said flue outlet across the top of the magazine.

2,350,598
MARINE POWER PLANT AND METHOD
Frederick A. Faville, Wilmette, Ill.
Application November 29, 1943, Serial No. 512,265
9 Claims. (Cl. 257—1)

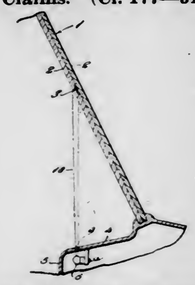


1. The method of operating a marine power plant which comprises: cooling the main prime mover with an intermediate cooling fluid; circulating said intermediate cooling fluid in a closed circuit; cooling said intermediate cooling fluid

with a final cooling fluid in a suitable heat interchanger; and at partial loads, delivering to said heat interchanger fresh final cooling fluid mixed with a varying percentage of spent final cooling fluid recirculated from the discharge from said interchanger; by such recirculation keeping the intake temperature to said interchanger relatively constant compared with variations in the temperature of the fresh final cooling fluid; storing fresh final cooling fluid as raw sea water in a sea chest; deliverying the recirculating final cooling fluid into said sea chest with substantial velocity and in a direction to cause it to impinge on the intake openings of said sea chest; and returning spent final cooling fluid not used for recirculation direct to the sea.

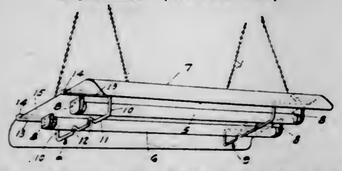
6. In a marine power plant of the type comprising a prime mover, the operation of which entails dissipation in the form of heat of at least a portion of the heat energy supplied thereto; a heat interchanger for dissipating said heat; a plurality of sea chests; each chest having a foraminated outer wall below the water level and in communication with the water in which the vessel floats; connections for taking sea water from any one or more of said chests and delivering it to said interchanger; connections for delivering to any desired sea chest any desired portion of the spent sea water from said interchanger, to preheat the sea water in said chest; and connections for discharging direct to the sea any unused portion of the spent sea water from said interchanger.

2,350,599
HEADLIGHT SIGNAL
Einar F. Feldheim, Minneapolis, Minn.
Application November 4, 1941, Serial No. 417,863
3 Claims. (Cl. 177—311)



1. The combination with a vehicle windshield having a light-diffusing portion, of an electric lamp positioned to project a beam of light on said light diffusing portion of the windshield for illuminating the same.

2,350,600
SAFETY FLUORESCENT LAMP CLIP
Charles E. Foster, Los Angeles, Calif.
Application September 21, 1943, Serial No. 503,245
3 Claims. (Cl. 240—78)



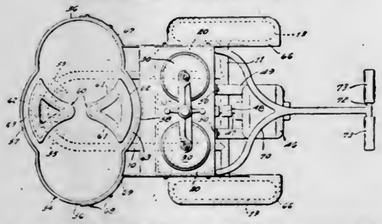
1. In a device of the kind described, the combination, with a reflector having plate-like horizontally extending end portions with tube holders depending therefrom spaced inwardly from the extremities of said end portions and with tubes supported by and between said holders; of two clips each consisting of a wire having a central portion bent to the approximate shape of a broad U, each arm of said U having a right angular extension, both of said extensions being directed toward the same side of the U and each having an extended rebent superjacent end portion thereby providing each clip with loop portions for gripping between them one or the other of the end portions of said reflector, one of said clips having its said loop portion applied to one end portion of said reflector, and the other of said clips being likewise applied to the opposite end portion thereof, said right angular extensions of the clips between each arm of the U and said extended rebent superjacent end portions each being of a sufficient length to position the central part of the U back to a point located inwardly of the aforesaid tube holders and in a position to arrest the fall of the superjacent end portion of tubes supported by said holders as aforesaid.

2,350,601
ELECTRICAL DISTRIBUTION SYSTEM
William H. Frank and Lawrence E. Fisher, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application November 17, 1941, Serial No. 419,506
7 Claims. (Cl. 174—84)



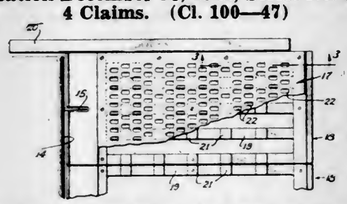
5. A bus bar system comprising lengths, joined end to end, each length comprising a length of housing, and lengths of bus bar therein, adjacent housing ends lapping for forming lap joints, with bolts extending transversely of the run for clamping adjacent housing ends together, and adjacent bus bar ends terminating at and lapping for joining at the housing joints, and being clamped against one another by said housing clamping bolts, the housing lengths being divided longitudinally into sections and transversely extending bolts for intersecuring sections of each housing length to form a unitary housing length, the sections of the housing lengths having outwardly extending flanges through which pass the bolts for intersecuring the sections to form housing lengths, such bolts being outside of the housing lengths.

2,350,602
MILKING MACHINE
Orley R. Frost, Port Huron, Mich.
Application July 22, 1940, Serial No. 346,677
4 Claims. (Cl. 31—73)



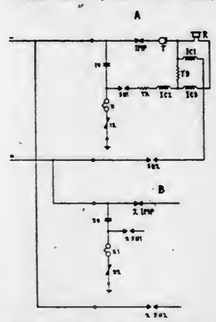
1. A portable milking machine comprising a U-shaped frame portion, a transverse tubular member rigidly secured to the ends of said U-shaped frame portion, rear wheels for said frame and having an axle journaled in said tubular member, a housing mounted on said frame portion forwardly of said tubular member, suction creating mechanism for communication with a source of milk and disposed with its major portion within said housing, a platform mounted on said frame portion in advance of said housing for supporting a milk container to which milk is delivered by said mechanism, and power means operatively connected to said mechanism and carried by said frame rearwardly of said housing.

2,350,603
CITRUS FRUIT JUICE EXTRACTOR
Lawrence A. Fry, Hollywood, Calif., assignor, by mesne assignments, to General Foods Corporation, New York, N. Y., a corporation of Delaware
Application December 16, 1941, Serial No. 423,202
4 Claims. (Cl. 100—47)



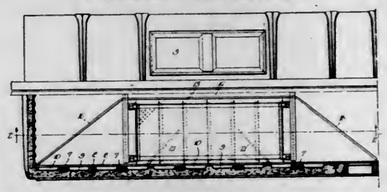
1. A thin plate adapted for use in a citrus fruit juice extractor, having a surface for engaging the cut face of the fruit and over which said fruit is moved under pressure by another member, there being openings through the plate to permit escape of the juice, said openings being substantially unobstructed and extending in a direction generally normal to said surface, whereby a short free passage is provided through the plate, the trailing edge of said openings being defined by a projection extending downwardly from said surface a substantial distance below said surface, whereby any portion of the fruit passing through the opening is prevented from engaging the under surface of the plate.

2,350,604
TELEPHONE INSTRUMENT CIRCUIT
Emanuel Frydman, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 3, 1942, Serial No. 457,119
In Great Britain September 6, 1941
5 Claims. (Cl. 179—81)



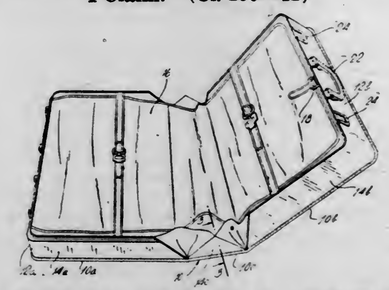
1. In a telephone substation, an incoming line upon which a ringing signal of certain voltage is impressed at times and upon which a lower voltage is impressed at other times, a condenser and a ringer connected in series to said line, a calling device operated at said other times, a charging circuit and a discharging circuit for said condenser completed alternately over said ringer by said calling device, a solid body of non-linear resistance material in series with said ringer presenting a high resistance to the flow of charging and discharging current through said ringer thereby to prevent actuation of said ringer when said calling device is operated, the resistance of said body being effective to decrease responsive to said certain voltage being impressed upon said line, thereby to permit said ringer to respond to said ringing signal.

2,350,605
REFRIGERATOR CAR
Garth G. Gilpin, Chicago, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application June 30, 1943, Serial No. 492,955
7 Claims. (Cl. 62—17)



1. An air cooling system for a railway car having a plurality of vertical flues in one of said walls, and a lading compartment, said system comprising a refrigerant container above the lading compartment and adjacent one of said walls, a structure partially surrounding the container forming an air cooling chamber having an air inlet communicating with said lading compartment, an air outlet communicating with said flues, said inlet being at a higher elevation than said outlet for convective air circulation, the ends of said structure diverging from adjacent said inlet to said side wall flues so that circulating air is discharged into the flues adjacent the container and also flues beyond the container.

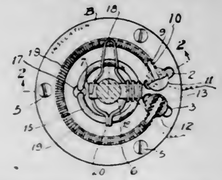
2,350,606
LUGGAGE BAG
Isadore Gold, Brooklyn, N. Y., assignor to Atlantic Products Corporation, Trenton, N. J., a corporation of New Jersey
Application December 17, 1942, Serial No. 469,296
1 Claim. (Cl. 190—41)



A luggage bag comprising, in combination, a bottom side including side panels and a bottom

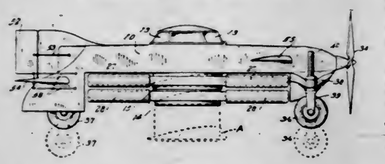
panel hinged to fold along the side edges of the bottom panel, top panels, and ends including rigid main end panels and rigid insert end panels lying in the plane of said main end panels, the oppositely disposed ends of said main end panels being cut away at an angle from the fold lines between the bottom and side panels, said insert end panels having their bases disposed across the width of the bottom panel and having their ends cut away to fit against the cut away ends of the main end panels when said bag is closed, and flexible webs connecting the insert end panels with the main end panels to close the spaces between opposed ends thereof, said web being flexible throughout their entire area so as to be readily deformable to conform to the contents of the bag when closed, and the upper edges of said webs forming a continuation of the upper edges of said main end panels when said bag is open so as to confine the contents of the bag when open.

2,350,607
RHEOSTAT AND THE METHOD OF ITS MANUFACTURE
Robert R. Gonsett and Faust R. Gonsett, Los Angeles, Calif.
Application October 28, 1942, Serial No. 463,710
14 Claims. (Cl. 201—56)



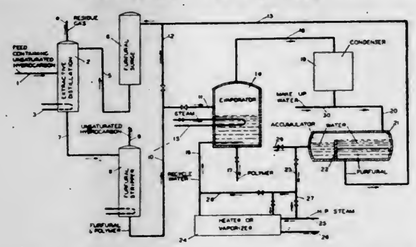
7. In an instrument of the class described, a segment of a circular resistance coil mounted on a disk support, a conductor ring embedded in said disk support, a central shaft vertically arranged to rotate therein, a contact brush assembly mounted on said shaft and adapted to be rotated in contact with said coil and conductor ring, said brush being composed of wire, a portion of which is coiled upon an insulating block and said insulating block being mounted through said central shaft.

2,350,608
COMBINED LAND, AIR, AND WATER VEHICLE
James E. Griffith, Denver, Colo.
Application March 19, 1942, Serial No. 435,434
5 Claims. (Cl. 244—49)



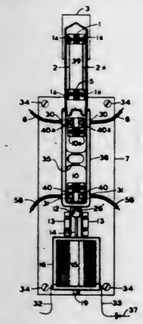
1. An aeroplane comprising: an elongated fuselage; a rotatable member projecting downwardly from the middle of said fuselage; wings projecting oppositely outward from said rotatable member; a second coaxial rotating member at the middle of said plane; a second set of wings projecting oppositely outward from said second rotatable member; and means for moving said second rotatable member downwardly to separate the two sets of wings.

2,350,609
FURFURAL PURIFICATION
Karl H. Hachmuth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 15, 1943, Serial No. 475,959
6 Claims. (Cl. 196—13)



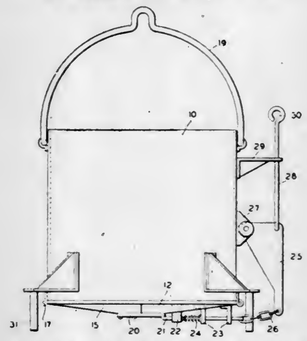
1. The process of recovering polymer-free furfural from stripped lean furfural which has been employed as a selective solvent in the extraction of aliphatic unsaturated hydrocarbons from hydrocarbon mixtures containing the same and has thereby become contaminated with polymer, which comprises steam distilling said polymer-contaminated furfural and thereby driving overhead vapors of polymer-free furfural and water and forming a residual bottom product of polymer, removing said overhead vapors of polymer-free furfural and water, condensing said overhead vapors, causing the liquid condensate to form into an upper layer of water containing dissolved furfural and a lower layer of polymer-free furfural, withdrawing said lower layer of polymer-free furfural for recycle to the extraction system, withdrawing said upper layer of water containing dissolved furfural, and employing said water containing dissolved furfural as the source of steam for said steam distilling step.

2,350,610
AUTOMATIC SECTIONALIZING AND SHORT CIRCUITING SWITCH
Eugene H. Haug, Chicago, Ill., assignor, by direct and mesne assignments, to Hugh E. Young, trustee of Young & Haug Trust Estate
Refiled for abandoned application Serial No. 191,390, February 19, 1938. This application March 29, 1940, Serial No. 326,799
11 Claims. (Cl. 171—242)



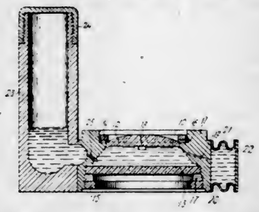
2. In a constant-potential to constant-current electric power system, automatic protecting means comprising a switch connected in series with the power leads, a solenoid connected in series with a high voltage breakdown resistance element across the constant current leads, a plunger operable by said solenoid to sectionalize the circuit into two separate circuits, and means to hold the switch open until restored manually to its closed position, said switch having circuit control blades and terminals therefor respectively at their ends together with means to hold respective pairs of terminals apart when the circuit is operatively closed, which terminals are adapted and arranged to close on each other in pairs to short-circuit corresponding parts of the system when the switch is open.

2,350,611
CHARGING APPARATUS
Almer G. Hicks, Lockwood, Ohio
Application December 20, 1941, Serial No. 423,779
9 Claims. (Cl. 294—69)



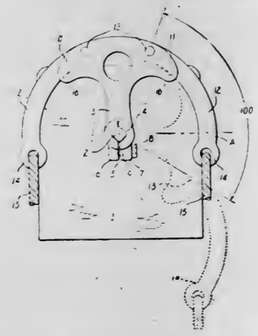
1. A furnace charging bucket comprising in combination a side wall and a bottom composed of a plurality of segmental portions each hinged to the lower end of said side wall, a plate rigidly secured to the bottom face of one of said segments adjacent the apex thereof and having an area adapted to underlie a portion of each of the other segments when the bottom is in closed condition, and a latch secured to and carried with one of said segments which is substantially diametrically opposed to the segment to which said plate is attached to prevent downward movement of the adjacent edge of said plate relative to the segment which carries said latch, and means to release said latch whereby all of said segments may fall to vertical positions.

2,350,612
LIQUID LEVEL
Melvin R. Houseman, Glen Rock, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application October 29, 1942, Serial No. 463,830
6 Claims. (Cl. 33—212)



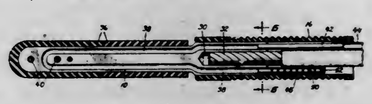
1. A liquid level comprising a bubble chamber, a reservoir having a liquid therein whose level normally exceeds the level of the liquid in the bubble chamber, a capillary passage communicating said reservoir with said bubble chamber and extending into said chamber, said reservoir having an air space above the liquid level therein, a variable volume liquid chamber for pumping an air bubble from said reservoir into said bubble chamber, and means communicating said variable chamber with said bubble chamber.

2,350,613
ROPE-OPERATED MECHANISM FOR CONTROL DRUMS
Richard B. Hunter, Shorewood, and Harold L. Mekelburg, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 30, 1942, Serial No. 452,936
8 Claims. (Cl. 200—156)



1. A rope-operated lever adapted for rigid attachment to the horizontally positioned rotatable shaft of a drum controller, said shaft being biased to a given rotary "off" position wherein the central radius of said lever extends in a substantially vertical plane in line with the axis of said shaft, said lever having attached thereto a pair of link members articulated in the plane of rotation of said lever and arranged symmetrically with respect to said vertical plane, the free ends of said link members being spaced a substantial distance from said vertical plane when the shaft is in "off" position, and individual operating members attached to the free ends of said link members and depending therefrom respectively, each of said operating members when subjected to a substantially vertical downward pull acting through its respective link member upon said lever to effect rotary movement of said shaft from its "off" position through an angular range of the order of one hundred degrees in one direction or the other from said "off" position.

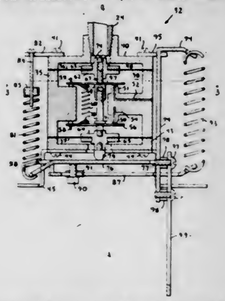
2,350,614
FLUID-COOLED ELECTRODE HOLDER
Honel A. Jackson, Detroit, Mich.
Application June 10, 1942, Serial No. 446,417
18 Claims. (Cl. 219—8)



18. A welding electrode holder comprising, in combination, an electrically conductive member,

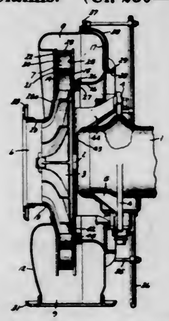
an electric cable connected to one end of said member, the other end of said member adapted to serve as an electrode gripping jaw, insulation material partially enclosing said member and defining therewith a cooling fluid passageway arranged between the insulation material and said member, and means for delivering cooling fluid into said passageway to cool said member and the insulation material.

2,350,615
PNEUMATIC CONTROL DEVICE
Frederick D. Joesting, Oak Park, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 10, 1942, Serial No. 446,462
15 Claims. (Cl. 121—41)



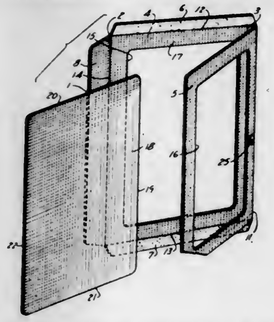
1. In combination, a base member having a chamber therein, a diaphragm covering one end of said chamber, a plunger in said chamber positioned by said diaphragm, a supply valve in said chamber, a vent valve in said chamber, a pair of connecting means moved by said plunger for actuating said valves selectively, and means accessible through said diaphragm from the remote side of said diaphragm for relatively adjusting said connecting means.

2,350,616
SUPERCHARGER
Howard A. Johnson, Melrose, Mass., assignor to General Electric Company, a corporation of New York
Application December 2, 1942, Serial No. 467,569
10 Claims. (Cl. 230—127)



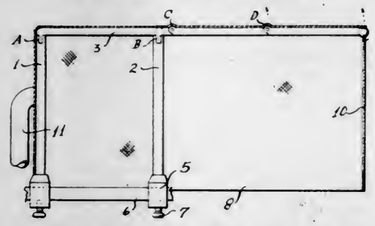
9. In a centrifugal compressor, the combination with a shaft, an impeller on the shaft, a bearing for the shaft, and supporting members on bearing, of a fabricated compressor casing having a plurality of walls united by fuser metal to provide a rigid structure comprising spaced walls which define a diffuser surrounding the impeller, a wall adjacent to which the impeller runs and an axially extending wall having mounting lugs provided with surfaces accurately spaced from the inner surface of the wall adjacent to which the impeller runs, means detachably connecting said surfaces to said supporting members, and walls forming a discharge scroll connected to said rigid structure.

2,350,617
BLACK-OUT DEVICE
Jerome E. Johnson, New York, N. Y., assignor to Tension Envelope Corporation, New York, N. Y., a corporation of New York
Application April 7, 1943, Serial No. 482,201
12 Claims. (Cl. 160—90)



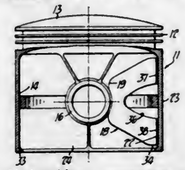
1. A black out device including, a supporting member adapted to be attached in covering relation to a window pane and having an opening therethrough for passing light, and a closure for and in said opening and removable from covering relation with said opening of the supporting member.

2,350,618
AIR-CONDITIONED CANOPY
Leigh E. Johnson, Wichita, Kans.
Application May 14, 1943, Serial No. 486,996
1 Claim. (Cl. 135—5.1)



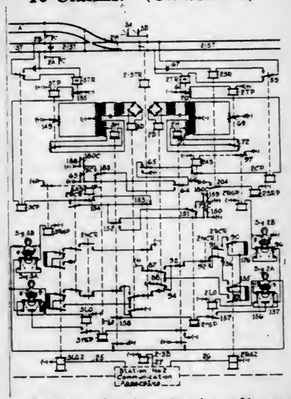
In a canopy for a bed, a plurally rule-jointed rod for each side of the canopy top, a pair of standards for each rod, all being of substantially equal length, said standards at their upper ends being hingedly connected to one end portion of the associated rod in spaced relation therealong, the other ends of said standards each having a clamp secured thereto, the clamps comprising jaws and a threaded bolt to secure the same to the side rail of a bed, a flexible covering to engage over the frame, and extending downward at each side and one end thereof, and detachable means to secure the flexible fabric to the frame, a curtain and means to carry the same at the other end of the frame and extending downward therefrom, all substantially as shown and described.

2,350,619
PISTON EXPANDER AND STABILIZER
Charles F. Johnston, Oakland, Calif.
Application December 16, 1939, Serial No. 309,517
3 Claims. (Cl. 309—12)



1. A piston distorting means comprising, a flat resilient metal member having a generally segmental cylindrical form and adapted for resilient separation of the opposite cylindrical ends of the member for insertion into a piston for engagement of said ends with the piston bosses and formed with a centrally positioned circumferentially extending open portion, the portions of the member at opposite longitudinal sides of said open portion being bowed away from each other.

2,350,620
CODED TRACK CIRCUIT SIGNALING SYSTEM
Thomas J. Judge, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application August 24, 1942, Serial No. 455,922
46 Claims. (Cl. 246—3)



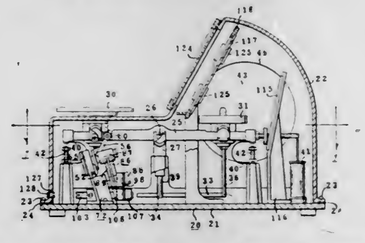
1. In a coded track circuit signaling system for railroads, a track section, a code following track relay and a source of current associated with each end of said track section, a code transmitting relay for each end of said track section operable to connect the corresponding source of current across the track rails of said track section, coding contacts for the opposite ends of said track section intermittently operated at different code rates, and means including said coding contacts for operating said transmitter relays at the opposite ends of said track section at different time intervals, whereby both of said track relays are intermittently energized.

2,350,621
ORCHARD CONDITIONING SYSTEM
Joseph B. Kasser, Roseville, Calif.
Application November 28, 1940, Serial No. 367,484
3 Claims. (Cl. 47—2)

1. The combination with a closed system of conduits below the ground containing a heating medium for heating the soil; of a plurality of spaced radiator elements extended at spaced points from said conduits to the atmosphere, said radiator elements having enlarged inclosed cavities communicated with said conduits and providing an enlarged heat interchange surface to the atmosphere, and means in each of said radiator elements to trap condensed moisture therein.



2,350,622
SCALE OR BALANCE
Maurice Katz, Brooklyn, N. Y., assignor to The Exact Weight Scale Company, Columbus, Ohio, a corporation of Ohio
Application January 2, 1942, Serial No. 425,398
6 Claims. (Cl. 88—24)

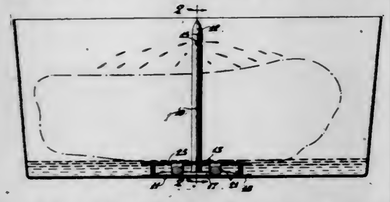


1. A weighing scale comprising in combination, a base extending in a horizontal plane; a beam support mounted on the base; a scale beam fulcrumed on the support and extending horizontally; mechanism for indicating movement of the scale beam including a lens member, an index member in alignment with the lens member, one of said members being movable relative to the other by the beam, and a light source aligned with said members for projecting an image of the index member through the lens, said members and light source being arranged to project the image of said index member upwardly and on an acute angle relative to the plane of the base; and means for moving one of said members in the direction of projection of the image including a movable unit, a guide for directing the movable unit in said direction, a shaft, a bearing for mounting the shaft for rotation about its longitudinal axis, said shaft extending parallel with the plane of the base, a unit threaded on the shaft, and a member extending from one of said units to the other of said units and slidingly engaging one of said units for transmitting movement of the second mentioned unit along said shaft to the first mentioned unit for causing movement of the first mentioned unit along said guide.

2,350,623
COMBINATION BASTING AND SKEWERING DEVICE
Charles H. Kruea, Fort Thomas, Ky.
Application September 5, 1941, Serial No. 409,715
2 Claims. (Cl. 99—346)

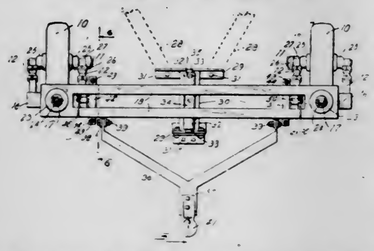
1. A basting device comprising a thin sheet metal element including a base portion and a tube rising from the center thereof, said base

portion including a flat marginal flange lying in a plane at right angles to the axis of the tube and adapted to seat substantially flush on the bottom of the basting pan and a central dome portion, said central dome portion providing in conjunction with the bottom of the basting pan an enclosed thermal chamber for confining the basting juices and accelerating the boiling action,



said tube including a pointed upper end, a plurality of outlet apertures in the sides of the tube radially disposed and positioned directly beneath said pointed end and a deflector element in the tube between the end and the apertures whereby basting juices rising in the tube contact said deflector and are sprayed outwardly through the apertures to provide a uniform basting action over a substantially wide area.

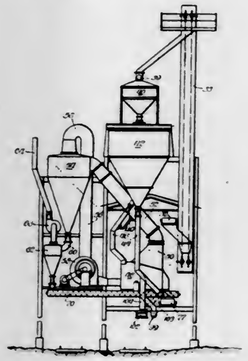
2,350,624
TRAILER DOLLY
Ernest C. McDaniel, Denver, Colo.
Application November 3, 1942, Serial No. 464,405
7 Claims. (Cl. 280—33.4)



1. A trailer dolly comprising: a cross frame member; a longitudinally extending elongated hinge in the middle of said cross frame member for allowing vertical tilting of the latter and for preventing horizontal rotation thereof; means for attaching said hinge to the forward extremity of a trailer; a vertical socket at each extremity of said cross frame member; a vertical post rotatably mounted in each socket; a caster wheel bracket carried on the lower extremity of each post; a caster wheel supported in each bracket, rearwardly of said post; and a tongue member hinged to said frame member on a horizontal axis and extending forwardly thereof.

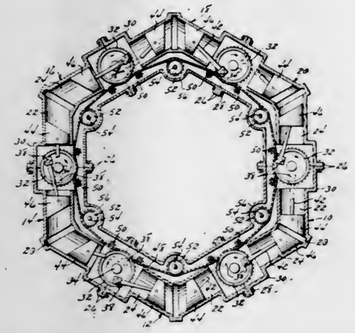
2,350,625
PROCESS AND APPARATUS FOR SEPARATING MATERIAL
Jesse M. McGee, Oak Park, Ill., assignor to Roberts and Schaefer Company, Chicago, Ill., a corporation of Illinois
Application February 2, 1942, Serial No. 429,142
4 Claims. (Cl. 209—502)

4. The process of separating comminuted intermixed raw material comprising the steps of feeding such material together with an amount of air to an air-controlled separator, confining said feed to exclude therefrom ingress of outside air, exhausting spent air from said air-controlled separator, confining said exhaust to exclude therefrom ingress of outside air, cleaning said exhaust air of dust-like matter, venting to the outside part of said cleaned exhaust air, returning the remaining cleaned air to said air-controlled separator for re-use therein, confining



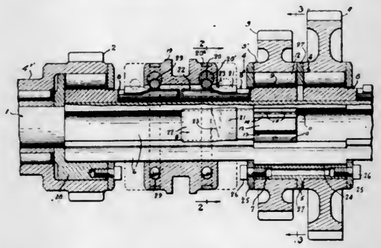
said return of cleaned air to exclude therefrom ingress of outside air, and bleeding air from said confined feed into said confined exhaust to compensate for air vented to the outside, whereby the amount of cleaned air returned to said air-controlled separator is maintained substantially uniform and the temperature thereof is maintained substantially constant regardless of outside temperature conditions.

2,350,626
INTERNAL-COMBUSTION ENGINE
Clarence E. Mahan, Hawthorne, Nev.
Application March 29, 1943, Serial No. 480,983
7 Claims. (Cl. 123—53)



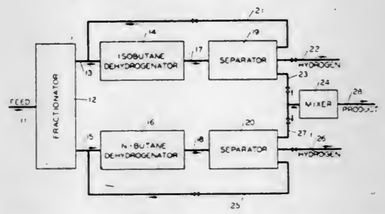
1. An internal combustion engine comprising cylinders of elbow contour connected end to end in the form of a multisided ring, each cylinder having two bores arranged at an angle to each other, pistons in the respective bores, a group of two crank gears between the respective cylinders, one gear in each group having an operating connection with one piston in one cylinder and the other gear in each group having an operating connection with one piston in an adjoining cylinder, and a chain means operatively connected with all said crank gears.

2,350,627
CLUTCH MECHANISM
Bronislaus T. Malachowski, Detroit, Mich.
Application December 24, 1941, Serial No. 424,337
11 Claims. (Cl. 192—74)



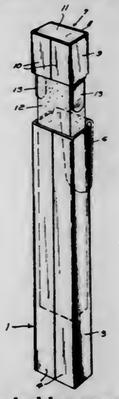
7. In a clutch mechanism, a rotatable shaft having longitudinally extending grooves, a rotatable member encircling said shaft, cam rods extending within the grooves, rolls between and engageable with said rotatable member and the cams of said cam rods, and projections on said cam rods engageable with said rolls to positively hold the same in released position when said cam rods are in neutral position.

2,350,628
CATALYTIC DEHYDROGENATION PROCESS
Maryan P. Matuszak, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 22, 1940, Serial No. 366,773
5 Claims. (Cl. 260—683.3)



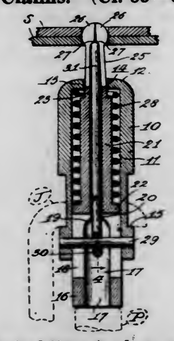
1. The process of catalytically dehydrogenating a hydrocarbon mixture containing at least two paraffin hydrocarbons having at least two carbon atoms per molecule and forming a corresponding olefin mixture which comprises fractionating said mixture into a plurality of separate fractions each consisting substantially of a single paraffin hydrocarbon species, each of said fractions containing substantially only paraffin hydrocarbons of a single molecular weight and species and further containing substantially all of such material present in said mixture, subjecting said fractions separately to catalytic dehydrogenation simultaneously in a corresponding number of catalytic dehydrogenation zones under conditions such as to produce the respective olefins corresponding substantially entirely in number of carbon atoms and in carbon-skeleton to said several paraffin hydrocarbons making up said fractions, separately treating the individual dehydrogenation effluents to recover the the resulting olefins contained therein, and mixing said resulting olefins so recovered with one another in substantially the same relative proportions as the corresponding paraffins from which they were derived had in said original mixture.

2,350,629
SOAPSTONE HOLDER
Emmett Lee Benjamin May, Houston, Tex.
Application March 19, 1943, Serial No. 479,795
3 Claims. (Cl. 120—13)



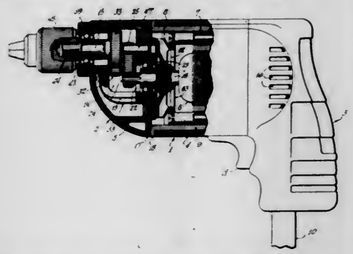
1. A soapstone holder comprising an elongated container for the reception of a stick of soapstone, a cover for the container adapted to be mounted on the soapstone, and means on said cover for clampingly engaging the soapstone, said means fitting with a friction fit in the container.

2,350,630
SHEET HOLDING TOOL
Alfred A. Melcher, Los Angeles, Calif., assignor of one-half to Francis L. Smith, Los Angeles, Calif.
Application August 4, 1942, Serial No. 453,534
4 Claims. (Cl. 85—5)



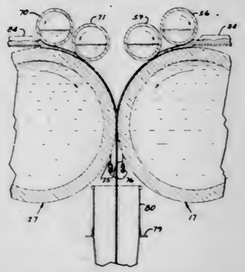
1. In a sheet holding tool, a pair of telescopically associated members, the inner one of which has a normally contracted radially expansible portion which projects from the other member, said expansible portion being provided near its outer end with a shoulder, a plunger arranged for sliding movement in the rear portion of the outer one of said telescopic members and bearing against the rear end of the inner one of said members, an expansive coil spring arranged between said telescopic members, a rod extending lengthwise through the inner one of said telescopic members, the end of which rod is adapted to engage the shoulder on the expansible portion of said inner member, and means connecting the rear end of said rod with the outer one of said telescopic members, which connecting means and the rear end of said rod have sliding engagement with said plunger.

2,350,631
PORTABLE HAND-HELD ELECTRIC TOOL
Walter George Mitchell, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware
Application February 10, 1943, Serial No. 475,367
8 Claims. (Cl. 172—36)



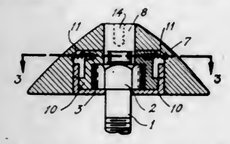
1. A portable hand held power operated tool having a driving motor and a support therefor, a one-piece gear frame having an integrally connected base wall secured to the front end of the motor support and a gear housing on the front side of said base wall, a rotatable spindle journaled in said gear frame within said housing, said motor having a driving shaft extending into the gear housing through said base wall, and a gear train journaled in the gear frame within said housing and providing a drive from the motor shaft to the spindle, said spindle and said gear train being releasably mounted within the gear frame, and said housing having side openings to pass the gears of the gear train in assembling and disassembling the parts.

2,350,632
DENSIFYING MILL
Francis R. Murphy and Ray H. Bebout, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio
Application March 10, 1942, Serial No. 434,074
4 Claims. (Cl. 18—10)



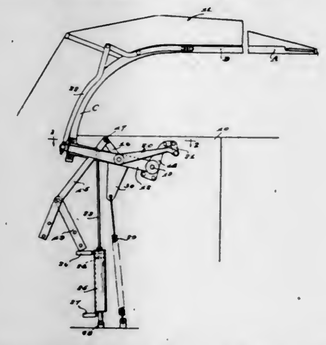
4. An apparatus for preheating and densifying a fusible powdered material comprising, in combination, a pair of substantially horizontal pressure rolls, each having an internal passage supplied with a heating medium, means for rotating the pressure rolls downward toward one another at substantially the same peripheral speed, means for feeding said material at a point adjacent the top of each of said pressure rolls, a fixed auxiliary roll having an internal passage supplied with a cooling medium, located ahead of each of such points for forming said material into a uniform layer on each pressure roll, an auxiliary pressure roll having an internal passage supplied with a cooling medium, located ahead of each of said fixed auxiliary rolls for preliminarily compressing each layer, by its own weight, and means for applying a substantially constant pressure to the pressure rolls to compress into a single layer the two layers so produced.

2,350,633
BOLT LOCK
Harlen Welton Obenauer, Birmingham, Mich.
Application March 19, 1942, Serial No. 435,329
2 Claims. (Cl. 70—232)



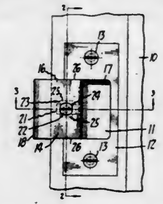
1. A guard for a bolt comprising a circular washer having lateral extensions, said washer having a central opening through which the shaft of the bolt to be guarded is insertable for residence against the head of said bolt, said extensions being integral with and extending radially outwardly from said washer and each terminating in a circumferentially extending keeper, said keepers being substantially normal to said extensions, a guard body overlying said bolt head and said washer, said guard body having a smoothly curved exterior surface of frusto-conical shape and a hollow portion, a lock insertable axially of said body with the key receiving end thereof occupying the small base of said frusto conical body, lock plungers traversable in said hollow portion, said bolt head and said washer with its keepers residing in said hollow portion, said plungers being traversable radially of said guard body into and out of engagement with said keepers, said plungers being adapted for actuation by a removable key for causing traversal of said plungers.

2,350,634
VEHICLE TOP OPERATING MECHANISM
John B. Parsons, Toledo, Ohio
Application July 30, 1942, Serial No. 452,866
3 Claims. (Cl. 296—117)



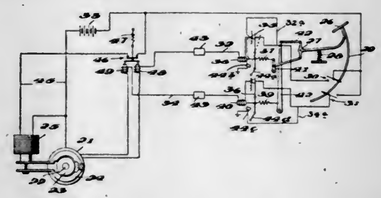
1. Operating means for a folding vehicle top comprising controlling links and levers therefor including a main operating lever pivotally connected at one end to the vehicle body, said main operating lever being adapted to swing about its pivoted connection to the body during raising of the top, a first toggle link pivotally connected to said main operating lever intermediate the ends of the latter, a second toggle link pivoted on the vehicle body at a point spaced from the pivotal connection between said main operating lever and the vehicle body a distance which exceeds the length of either of said toggle links, said first and second toggle links being pivoted together and lying in substantial alignment when the top is in lowered position, and power means for forcing said toggle links out of alignment to thereby swing said main operating lever in a direction to effect raising of the top.

2,350,635
DOOR STRIKE
Ralph I. Pendleton, Palo Alto, Calif., assignor of one-sixth to Sara G. Pendleton
Application March 3, 1941, Serial No. 381,514
4 Claims. (Cl. 292—340)



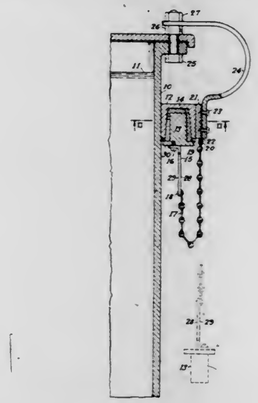
1. An adjustable strike construction including a base plate for mounting on a door jamb, said base plate having a recessed guideway formed transversely thereof adjacent the latch bolt opening therein, and a strike plate mounted in said guideway for limited adjusting movement therealong, a slot in said recessed guideway, and fastening means disposed in said slot and providing means engaging both said base plate and said strike plate for clamping said strike plate in selected adjusted position on said base plate, said fastening means including a nut element formed integrally with said strike plate and having an internally threaded guide extension disposed in said slot and a screw element for threaded engagement with said nut element.

2,350,636
ELECTRIC BRAKING SYSTEM
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application October 15, 1942, Serial No. 462,160
7 Claims. (Cl. 188—173)



1. In a braking system, a brake, a spring having energy stored therein for application of said brake, electrical means comprising a motor and a speed reduction device connected to the shaft of said motor, means connecting the low speed side of said device to said brake, a brake pedal, a circuit including means operated by movement of said pedal in one direction for energizing said motor in a direction to retract the brake, automatic means de-energizing said motor when the current in said circuit reaches a value determined by the extent of movement of the pedal, a circuit including means operated by movement of said pedal in a reverse direction for energizing said motor in a direction to apply the brake, means for automatically de-energizing said motor when the current in said second circuit reaches a value determined by the extent of reverse movement of the pedal, means for preventing rotation of said motor shaft, and means operated by energization of either the first or second circuits for rendering said rotation preventing means inoperative.

2,350,637
TEMPERATURE INDICATOR
Ralph R. Pittman, Pine Bluff, Ark.
Application April 4, 1942, Serial No. 437,629
3 Claims. (Cl. 116—114.5)

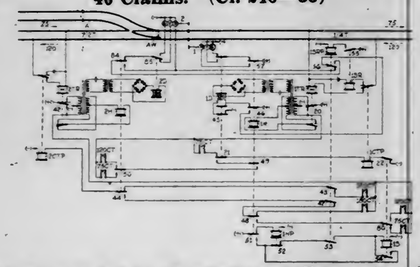


2. A thermally responsive device for indicating when the wall of a container has attained a predetermined temperature comprising at least two separable metal members, one of said members being formed as an inverted cup, means supporting said cup in inverted position in heat-conducting relationship with the wall of said container the hollow of said cup being uniformly tapered from its open end from one diameter to a relatively smaller diameter, and the other of said members extending upwardly into the cup-shaped member in spaced nested relationship and terminating adjacent the upper and closed end of the cup-shaped member, a wall of fusible frozen crystalline material of relatively low heat conductivity filling the space between the nested members and cooperating therewith to mechanically join said members only through frictional engagement therewith, a semaphore rigidly secured to and extending downwardly from the lower end of the other of said members to a first substantially vertically extending position, and means responsive upon the fusing of said frozen material for rotating said semaphore through an arc of 180 degrees from said first position to a second substantially vertically extending position and for holding said semaphore in the rotated position following said rotation, said last-named means including a flexible chain which assumes a predetermined position when suspended from its upper end, means supporting said chain at its upper end, and means fastening said chain to said semaphore at the lower end of the latter.

2,350,638
MANUFACTURE OF ANTIMONY TRIOXIDE PIGMENTS
Ernst Podschus, Leverkusen, and Georg Meder, Cologne-Ostheim, Germany; vested in the Alien Property Custodian
No Drawing. **Application June 29, 1939, Serial No. 281,880. In Germany July 7, 1938**
10 Claims. (Cl. 23—144)

1. Process for preparing an antimony trioxide pigment which comprises hydrolyzing a salt of trivalent antimony in which salt the antimony is present as cation at a temperature between about 0° C. and about 35° C., treating the product obtained with an aqueous alkaline reacting solution, separating the antimony trioxide from the liquid, drying and heating the product obtained to a temperature between about 300° C. and about 450° C. while excluding oxygen.

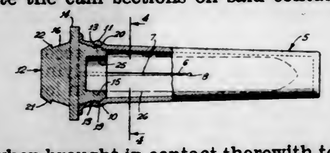
2,350,639
CODED TRACK CIRCUIT SIGNALING SYSTEM
Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application September 29, 1942, Serial No. 460,106
40 Claims. (Cl. 246—33)



1. In a coded track circuit signaling system for railroads, the combination with a track section having a signal at one end governing train movement into said track section, a code following track relay and a transmitter relay for the end of said track section adjacent said signal, means for at times transmitting code pulses toward said signal at a caution or a clear code rate, signal control means initially rendered effective in response to the coding operation of said track relay at a clear code rate only to cause said signal to indicate clear, said signal control means when effective initiating operation of said transmitter relay at a code rate different from said clear code rate to establish heat code conditions, and means for maintaining said signal control means effective so long as said track relay is intermittently energized at recurrent intervals regardless of the particular rate of such energization, whereby beat code conditions normally existing in said track section are not established after said signal has been put to stop until code pulses at the clear code rate have been received without interference to cause said signal to indicate clear, and such clear indication is maintained until all transmission of code pulses toward that signal is stopped.

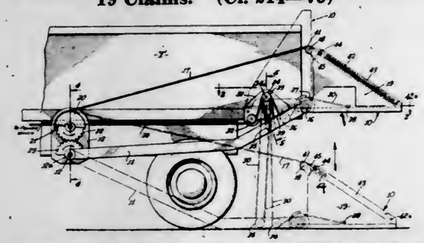
2,350,640
CASE AND FASTENING THEREFOR
Harold B. Rorke, New York, N. Y.
Application April 29, 1942, Serial No. 440,940
7 Claims. (Cl. 206—56)

1. As an article of manufacture, a container portion having a tapered circumferential surface with dual cam sections thereon, and a cover portion with dual cams thereon, said cover portion cam sections being reversed with respect to the cam sections of said container portion to accommodate the cam sections on said container por-



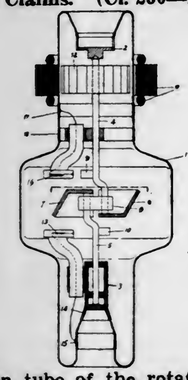
tion when brought in contact therewith to provide a positive lock between said container portion and said cover portion, said respective cam sections being normally disengageable only when one of said portions is rotated with respect to the other.

2,350,641
TRUCK LOADER
William Ruddock, South Pasadena, Calif.
Application April 27, 1942, Serial No. 440,598
19 Claims. (Cl. 214—75)



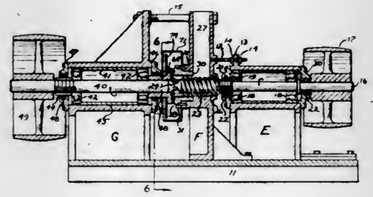
1. In combination with a truck body, an arm connected to said truck body for swinging movement in a substantially vertical plane, a platform, means connecting said platform to said arm for movement with respect thereto, means operating said arm to move said platform between ground level and the level of the truck bed, means connecting a point on said platform above the connection of said platform to said arm, to said truck body and operative to maintain said platform substantially horizontal throughout its path of movement but permitting upward tilting of the platform with respect to said arm.

2,350,642
ROENTGEN TUBE WITH ANODE TURNING ABOUT ITS LONGITUDINAL AXIS
Kurt Schwarzer, Berlin, Germany; vested in the Alien Property Custodian
Application September 27, 1940, Serial No. 358,686
In Germany October 14, 1939
4 Claims. (Cl. 250—148)



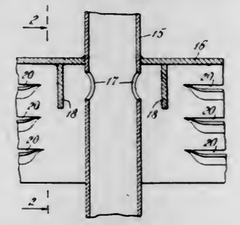
1. Roentgen tube of the rotating anode type, comprising two anodes and two cathodes; the two anodes constructed as semi-rotary bodies of substantially similar form but oppositely directed and each cathode coordinated to each anode, a synchronous drive for both anodes, so that with direct connection of the tube to an alternating current high tension both semi-cycles are utilized for the production of Roentgen rays produced at the same point in the space.

2,350,643
MACHINE FOR PREPARING FOOD PRODUCTS
Clarence J. Schwebke and Frank E. Hoadley, Beloit, Wis., assignors to Flakall Corporation, South Beloit, Ill., a corporation of Delaware
Original application April 27, 1939, Serial No. 270,374. Divided and this application June 10, 1942, Serial No. 446,454
2 Claims. (Cl. 99—238)



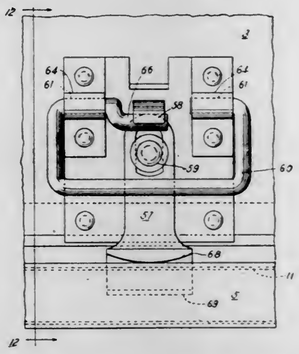
1. A device of the class described, comprising an elongated base plate, having mounted thereon, intermediate its ends, a center unit having a stator with an opening therethrough formed by spaced ribs and a feed duct forming an operating connection to said opening, the closed end of said duct registering with a portion of the stator opening, an opening in said duct in axial alignment with said stator opening and having substantially the same diameter as the inside diameter thereof, a carrying element slidably secured to said base adjacent said duct opening and having a shaft rotatably mounted therein and positioned axially within said openings, a spiral conveyor member secured to said shaft and extending through said last opening and a distance in said stator opening, means for driving said shaft in one direction, said stator having on its outer end and at the outer edge thereof, a relatively narrow substantially smooth annular surface, another carrying member mounted on the opposite end of said base plate, a shaft rotatably mounted in said last carrying member and being in substantially axial alignment with said first shaft and having on its inner end a rotor with a smooth annular surface which registers with said stator annular surface, means for manually adjusting said last shaft longitudinally whereby the space between said annular surfaces may be minutely adjusted, means for driving said last shaft in the opposite direction from said first shaft, projecting ribs on adjacent surfaces of said stator and rotor, the ribs extending inwardly from said annular surfaces and at opposite angles, said spiral conveyor, stator and rotor ribs adapted to urge material fed into said duct toward said annular surfaces and to heat the material by friction and cook it into a viscous mass having a temperature great enough to evaporate the moisture therein at atmospheric pressure but having a pressure high enough to prevent evaporation until after the mass is exuded from between said annular surfaces.

2,350,644
APPARATUS FOR CATALYTIC CONVERSION
Thomas P. Simpson and Charles H. Lechthaler, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application October 28, 1942, Serial No. 463,606
2 Claims. (Cl. 23—288)



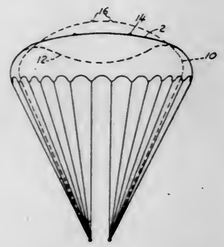
1. In an apparatus of the kind described, the combination of a perforated conduit and an inverted trough, said trough being attached to the perforated conduit so that the apex of the inverted trough is disposed directly above a perforation in the conduit, slots in the inverted trough, and a baffle disposed inside the inverted trough between the perforation in said conduit and the slots in the inverted trough adjacent the said perforation.

2,350,645
RETARDING MEANS FOR RAILWAY CAR DOORS
Arthur E. Small, Porter, Ind., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application September 2, 1941, Serial No. 409,206
5 Claims. (Cl. 292—68)



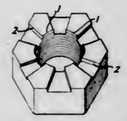
1. Retarding means for a sliding door wherein said door is arranged to move longitudinally of a member having a laterally extending part, a dog, and means to rotatably mount said dog upon said door, said dog including a pair of lugs, one disposed above and the other below said laterally extending part and being spaced apart the proper distance to grip said part upon limited rotation of said dog, and a handle pivotally mounted upon said door and having an offset portion eccentrically engaging said dog, whereby when said handle is swung on its pivot said offset portion raises said dog to a position in which said lugs are clear of said part.

2,350,646
PARACHUTE
Floyd Smith, Manchester, Conn., assignor to Pioneer Parachute Company, Inc., Manchester, Conn., a corporation of Connecticut
Continuation of application Serial No. 293,544, September 6, 1939. This application September 25, 1941, Serial No. 412,207
8 Claims. (Cl. 244—145)



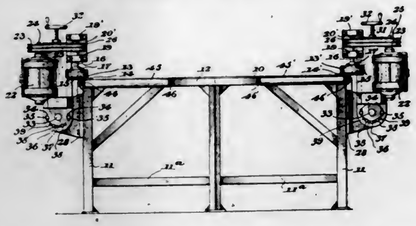
4. A parachute having a canopy with a vent in the top thereof, suspension lines connected to the canopy and tending, when under load, to open the vent to its maximum diameter, and means for controlling the area of said vent, comprising a break cord for preventing said vent from expanding until a predetermined tension, less than that incident to shock loading, is applied to the break cord, and elastic means connected to the canopy adjacent the vent and having a modulus of elasticity, when placed under tension sufficient to expand the vent to its maximum diameter, which modulus is less than the pull of the suspension lines on the canopy when the parachute is subjected to shock loading but is greater than the pull thereof when the parachute is in the static condition of subsequent normal descent whereby the elastic means permit the vent to expand to its maximum diameter on shock loading of the parachute and thereafter reduce the area of the vent to insure slow safe landing of the parachute load.

2,350,647
LOCK NUT
Benjamin Sosnick, San Francisco, Calif.
Application November 17, 1939, Serial No. 304,933
3 Claims. (Cl. 151—37)



1. A lock nut having a threaded opening extending through the center thereof; a burr in the form of a slightly raised edge formed around said opening and projecting axially and outwardly of the body of said nut on the advancing side of the nut toward an object to be engaged by said burr and nut when the latter is screwed on a bolt toward such object; said burr having its radially outwardly facing side tapered in direction from the advancing side of the nut toward the outer edge of said burr, whereby upon tightening said nut against said object, said burr will be impinged between the thread of the bolt and said object to provide a tight engagement between said nut, bolt and object.

2,350,648
MACHINE FOR DRESSING EDGES OF METAL SHEETS AND THE LIKE
William F. Spahr, New Orleans, La.
Application January 2, 1943, Serial No. 471,198
7 Claims. (Cl. 51—128)



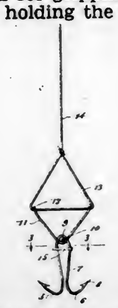
6. In a machine for grinding the edges of metal sheets to condition the latter preparatory to welding and like operations, means providing a supporting surface for the sheets, said means having one or more recesses to accommodate one or more operators a resiliently mounted anvil located adjacent said surface and beneath the plane of travel of the sheets, a radially faced grinding stone disposed over said supporting surface means, and means for adjusting the vertical and arcuate position of said stone with respect to said support.

2,350,649
METHOD FOR ASPHALT SATURATION
Wallace E. Spelshouse, Jamaica Estates, and Arthur H. Boenau, Long Island City, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 2, 1941, Serial No. 400,814
5 Claims. (Cl. 117—168)

1. A method for avoiding excessive foaming in the saturation of moisture-containing fibrous material with asphalt at a temperature at which evaporation of moisture contained in said material normally tends to produce excessive foaming comprising submerging a moisture-containing fibrous material to be saturated in a heated bath of an asphaltic material produced by reducing a petroleum fraction having a viscosity-gravity-constant of at least .890 to an asphalt having a hardness of at least about 5° F. (R. & B. soft point) greater than that desired for the finished saturant, and cutting the asphalt back to desired saturant specifications with a less viscous oil having a viscosity index of at least —50.

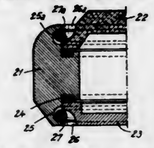
2,350,650
FISHHOOK
Fred E. Titus, Durango, Colo.
Application April 20, 1943, Serial No. 483,769
3 Claims. (Cl. 43—37)

1. A device of the class described comprising pivotally united hooks each including a shank having its lower end provided with an outturned barb and its upper end formed with an actuating arm extending upwardly at an outward incline and adapted for attachment to a fishing line, and a horizontally disposed substantially U-shaped spring latch straddling the shank of one of the hooks transversely thereof with its bridge portion secured thereto and its arms extending from the inner side thereof, free end portions of the arms of the latch being bent to form jaws and terminals lips for guiding the jaws into position for gripping the shank of the mating hook for holding the barbs of the hooks



together, said latch being movable to released position to permit separation of the barbs when a longitudinal pull is exerted on the line.

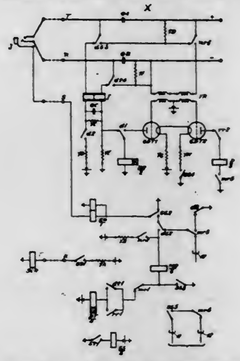
2,350,651
WATCHCASE
Marcel Taubert, Paul Taubert, and Bernard Taubert, Geneva, Switzerland
Application January 9, 1941, Serial No. 373,844
In Switzerland October 25, 1940
1 Claim. (Cl. 58—88)



A watch case of the kind consisting of a case band and a glass resiliently and removably secured thereto, wherein the case band is provided on at least one side with an inset annular shoulder and an annular flange projecting outwardly therefrom, the inner surface of said flange being formed with an annular groove in it of semicircular cross section, the glass is seated against said shoulder within said annular flange so that its outer surface is located in a plane lying outside the plane of said groove, the peripheral surface of said glass being formed with a circumferential groove of arcuate cross-section which forms an annular passage leading from the exterior of said glass to said annular groove, and a split ring being inserted under tension into said annular groove and projecting along its entire circumference from said groove so as to bear upon the wall of said annular passage and thereby press the glass resiliently against said shoulder, thus securing tightness of the assembled watch case.

2,350,652
ELECTRICAL SIGNALING SYSTEM
Reginald Taylor and George Thomas Baker, Liverpool, England, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 13, 1942, Serial No. 446,900
In Great Britain August 9, 1941
26 Claims. (Cl. 179—16)

1. In a signaling system, a transformer having two windings, a source of current connected to one of said windings to cause current to flow over said winding in a certain direction, means for at times reversing the direction of said flow of current and at other times restoring said flow of current to said certain direction, said reversal effective to induce a transitory potential of one polarity in the other winding of said transformer and said restoration effective to induce a transitory potential of the opposite polarity in said other winding, a pair of grid-controlled gas discharge tubes, at least one of said tubes having its grid connected to said other winding whereby said one tube is effective to strike responsive to a transitory potential of one of said two polarities

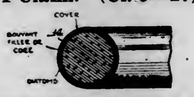


being induced in said other winding, means operated responsive to said one tube striking for conditioning the other of said tubes to strike responsive to a transitory potential of the other of said two polarities being induced in said other winding, and a plate circuit for said other tube thereafter energized responsive to a transitory potential of said other polarity being induced in said other winding.

2,350,653
STARCH COMPOSITION
James F. Walsh, Yonkers, and Frank C. Miller, Brooklyn, N. Y., assignors to American Maize-Products Company, a corporation of Maine
No Drawing. Application November 30, 1940, Serial No. 367,960
4 Claims. (Cl. 106—214)

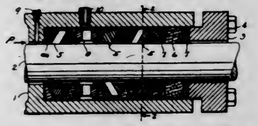
1. A laundry starch composition comprising a major proportion of thin boiling starch of alkali fluidity approximately 30 to 90 and a minor proportion of intimately admixed materials including a fine white pigment predominantly of particle size smaller than about 1 micron and a salt component that when dissolved in water to a 3% solution gives a pH of approximately 8 to 10, the pigment and salt component, on use of the composition on a textile and subsequent ironing of the starched textile, reducing the high lights and the tendency of the composition to adhere to the iron during ironing.

2,350,654
BUOYANT DEVICE
Henry W. Walters, Jacksonville, Fla.
Application February 19, 1940, Serial No. 319,804
1 Claim. (Cl. 9—17)



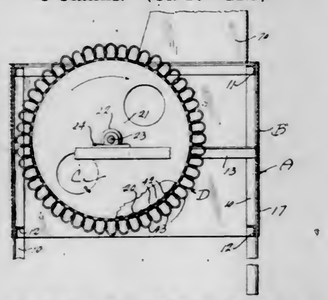
A life preserver comprising a buoyant core, an outer layer of diatoms or diatomaceous material covering said core, and a binder having waterproof and fireproof characteristics adhesively binding the diatomaceous material and securing the same to said core.

2,350,655
ARCH-BOUND POLYSEGMENTAL PACKING RING
Harley T. Wheeler, Dallas, Tex.
Application June 7, 1941, Serial No. 397,049
3 Claims. (Cl. 286—21)



1. A poly-segmental packing assembly including a plurality of segments, stepped edge surfaces on adjacent segments to align the segments circumferentially, substantially parallel inclined faces at the ends of the segments, an arch ring against which the segments abut, each segment having an open channel abutting said ring to provide a channel for sealing fluid, and a jacket of deformable material enclosing said segments and ring so that fluid pressure applied to said jacket tends to confine the segments and feed them against said ring and the member being packed to provide a seal.

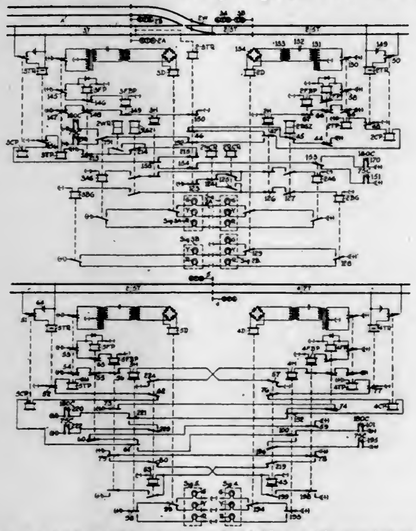
2,350,656
POULTRY DRESSING DEVICE
Clarence Williamson, Garden City, Mich.
Application April 3, 1941, Serial No. 386,706
3 Claims. (Cl. 17—11.1)



1. In apparatus for picking feathers and the like the combination of a rotary drum, means mounting the drum for rotation, means for rotating the drum, and a plurality of continuous strips of flexible feather removing material secured upon the drum in parallelism, with each strip being secured at spaced points circumferentially around the drum; the material of each strip between adjacent points of securement being looped radially outwardly upon the drum to provide convex surfaces.

2,350,657
CODED TRACK CIRCUIT SIGNALING SYSTEM
Harold S. Wynn, Pittsford, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application November 21, 1942, Serial No. 466,406
24 Claims. (Cl. 246—3)

17. In a coded track circuit signaling system for a stretch of single track between the ends of passing sidings divided into a plurality of track sections and having signals governing train movement in opposite directions into and through the stretch, one of said track sections including an outlying track switch, a code following track relay at each end of each track section responsive to code impulses transmitted through the track rails from the opposite end of that track section, self-coding impulse transmitting means normally active at the opposite ends of each track section for transmitting impulses alternately in opposite directions through the track rails of that track section to energize intermittently said track relay at each end of such section, such means being effective to form and transmit each impulse only in response to and upon the termination of an impulse transmitted through the track rails from the opposite end of that track section, driven code impulse transmitting means at each end of each of the track sections effective when rendered active to transmit driven code impulses through the track rails of that track section, code responsive means responsive to the cessation of the coding operation of each track relay except those at the extreme ends of said stretch for rendering ineffective said self-coding impulse transmitting

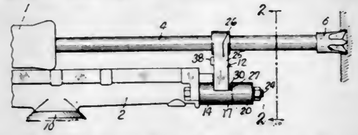


means at the adjacent end of the adjacent track section, means at each end of each of the track sections for rendering active said driven code impulse transmitting means at that end responsive to the cessation of the transmission of code impulses through the track rails from the opposite end of that track section, and signal control means for each of the signals except the signals at the extreme ends of said stretch for causing such signal to indicate proceed when and only when code impulses are transmitted to such signal through the track rails in the track section in advance thereof, whereby the entrance of a train into the stretch from said outlying switch is effective to put the signals governing opposing train movement in both directions toward that switch at stop and permit the signals governing train movement from said switch toward either end of the stretch to be controlled by code impulses to indicate proceed.

2,350,658
DRILL STEEL CENTRALIZER
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application July 21, 1941, Serial No. 403,374
26 Claims. (Cl. 255—51)

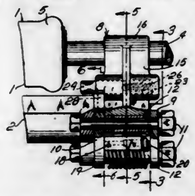
1. In a drill steel centralizer, in combination, a support, a pair of guide members pivotally

mounted on said support on axes parallel to the longitudinal axis of a drill steel to be guided and swingable relative to each other into guiding and non-guiding position, means carried by said guide members and engageable with said support for positively locking said guide members against outward swinging movement from their steel



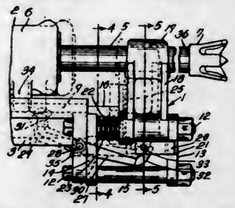
guiding position, and yielding means operatively connected to said guide members for always positively moving said guide members to their non-guiding position whenever said locking means is released, said locking means when in locking position locking said guide members inwardly in steel guiding position against the action of said yielding moving means.

2,350,659
ROCK DRILL
Elmer G. Gartin, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application September 19, 1941, Serial No. 411,524
18 Claims. (Cl. 255—51)



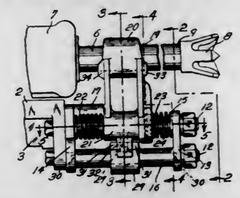
1. In a drill steel guide, a support, guiding elements mounted on said support for movement into and out of steel guiding position, locking means mounted on and movable into locking position relative to said guiding elements and engageable with said support for connecting said elements to said support to hold said elements in steel guiding position, said guiding elements being movable separately or concurrently into guiding relation with a drill steel, and said locking means serving to hold either or both of said elements in such position.

2,350,660
DRILL STEEL CENTRALIZER
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application October 22, 1942, Serial No. 462,931
18 Claims. (Cl. 255—51)



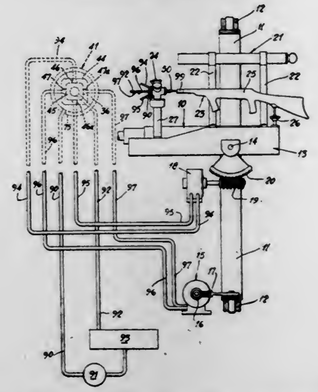
1. In a drill steel centralizer, a support, centralizer means mounted on said support to move translationally relative thereto into and out of steel guiding position, and means movably mounted on said support and engaging said centralizer means for effecting rearward translatory movement of the latter with respect to the drill steel out of steel guiding position.

2,350,661
DRILL STEEL GUIDE
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 30, 1942, Serial No. 470,565
22 Claims. (Cl. 255—51)



1. In a drill steel guide, a support, a steel guiding element mounted on said support and movable relative thereto into and out of steel guiding position, said guiding element also being movable bodily forwardly and rearwardly longitudinally relative to said support, means for yieldingly holding said guiding element in a centrally located position longitudinally of said support, means for locking said guiding element in steel guiding position when in said centrally located position, said locking means being releasable upon bodily movement of said guiding element either forwardly or rearwardly from said centrally located position relative to said support, and means for automatically moving said guiding element out of steel guiding position when said locking means is released.

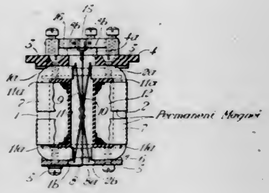
2,350,662
HYDRAULIC SYSTEM AND CONTROL
Harold W. Adams, Santa Monica, and Orville A. Wheelon, Pacific Palisades, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif., a corporation of Delaware
Application February 26, 1940, Serial No. 320,842
17 Claims. (Cl. 89—41)



15. In a gunnery device, the combination of: a gun mount, a gun universally directionally

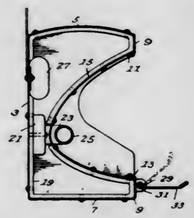
mounted thereon, motivating means for moving said gun in any direction on said mount, a control member universally directionally mounted on said gun for movement with and with respect to said gun and having a normal neutral position with respect thereto, and actuating means operated by relative movement between said gun and said control member adapted to actuate said motivating means in response to said relative movement.

2,350,663
ELECTRICAL RELAY
Norman F. Agnew, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 21, 1942, Serial No. 455,576
5 Claims. (Cl. 200—93)



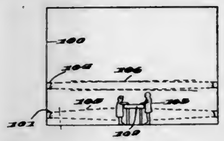
1. An armature assembly for a relay comprising a flexible non-magnetic spring secured at one end in a fixed position, and two magnetizable strips secured intermediate their ends to the opposite sides of said spring intermediate its ends in such positions that the longitudinal axes of said strips and said spring are substantially parallel, said spring serving as a resilient support for said assembly and also serving to provide a non-magnetic gap between said strips, and contact operating means secured to the free end of said spring.

2,350,664
APPARATUS FOR GERMICIDAL TREATMENT OF AIR-BORNE BACTERIA
Horace W. Alexander, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa.
Application March 13, 1942, Serial No. 434,597
6 Claims. (Cl. 250—88)



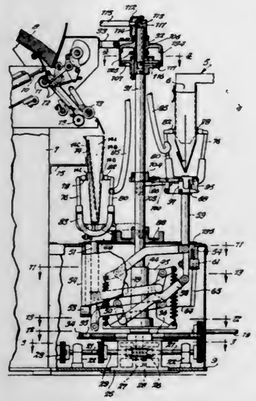
1. An ultraviolet projector for use in projecting a substantially flat horizontal fan shaped beam of ultraviolet radiation across a space including an elongated, horizontal casing having an open front wall; a trough-like, unsymmetrical, parabolic reflector mounted in said open front wall; and a tubular ultraviolet generator positioned adjacent and in spaced relation to the point of inflection of said unsymmetrical reflector.

2,350,665
METHOD FOR GERMICIDAL TREATMENT OF AIR-BORNE BACTERIA
Horace W. Alexander, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa.
Original application March 13, 1942, Serial No. 434,597. Divided and this application March 26, 1943, Serial No. 480,692
6 Claims. (Cl. 250—43)



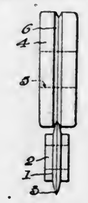
1. The method of forming a germicidal barrier across a space, which comprises projecting a plurality of unobstructed substantially flat beams of oppositely positioned sources of ultraviolet irradiations in such a manner that the outer portions of said beams intermingle in co-planar relation to each other, the said beams having substantially no stray irradiations beyond their normal planes.

2,350,666
BAG FEEDING MACHINE
Howard G. Allen, Niagara Falls, N. Y., assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y., a corporation of New York
Application December 30, 1941, Serial No. 424,879
6 Claims. (Cl. 226—49)



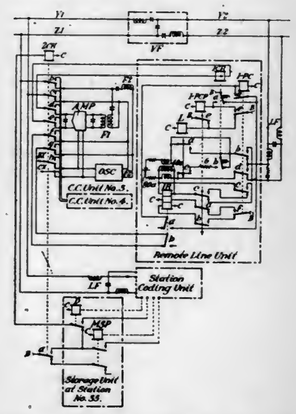
1. In an automatic bag feeding machine adapted to transfer bags individually from a magazine to filling spouts of a filling machine associated therewith, a main supporting frame, a bag retaining magazine mounted on said frame, rotatable bag transfer mechanisms including at least one set of opposed movable bag holding elements, a bag receiver, bag feeding means adapted to feed individual bags from said magazine to said receiver, means for rotating said bag transfer mechanisms to move said bag-holding elements into and out of registry with said bag receiver and into and out of registry with a filling spout of the associated filling machine, means for stopping rotation of said transfer mechanisms each time said bag holding elements are in registry with said bag receiver and to cause movement of said elements into bag engaging position, said rotation stopping means being also effective to stop rotation of said transfer mechanisms each time said bag holding elements are in registry with a filling spout of the associated filling machine, means for imparting a movement of separation to said bag holding elements to thereby open the mouth of the bag held thereby, and means to cause upward projection of said bag holding elements to apply the bag held thereby to a spout of the associated filling machine.

2,350,667
CUTTING TOOL AND MANUFACTURE THEREOF
Alfred O. Bates, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application July 2, 1940, Serial No. 343,661
3 Claims. (Cl. 76—89.2)



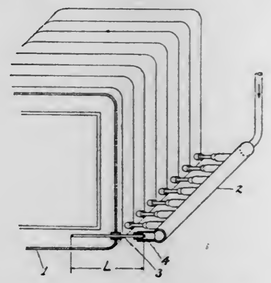
1. The step in a method of making a cutter wheel from a steel blank having a sharp V-shaped peripheral edge, which consists in radially compacting the metal at said peripheral edge and reducing its diameter by cold rolling said edge under pressure in a die block groove having an included angle greater than the included angle at the peripheral edge of the blank and thereby causing the blank peripheral edge to conform to the angle of said groove.

2,350,668
REMOTE CONTROL SYSTEM
George W. Baughman, Swissvale, and Norman F. Agnew, Penn Township, Allegheny County, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 21, 1942, Serial No. 455,577
13 Claims. (Cl. 177—353)



1. In a remote control system, a remote line circuit extending from a control station through a plurality of remote stations, line wires providing a plurality of non-interfering communication channels and extending from said control station to a central office, a stick relay at said control station, a code transmitter at each remote station adapted when initiated to deliver a multiple impulse code to said remote line circuit, means preventing the initiation of any code transmitter except when said stick relay is released, means preventing any code transmitter which has been initiated from completing its code unless said stick relay is energized, a repeating relay at said control station adapted to deliver the codes received from said remote line circuit to one of said channels, means controlled by said repeating relay in response to the first impulse of a code received over said remote line circuit to operate said stick relay, a code receiver at the office responsive to codes received over said one channel, a code transmitter at the office adapted when initiated to deliver multiple impulse codes to another of said channels, a repeating relay at said control station adapted to deliver the codes received over said other channel to said remote line circuit to control code responsive devices at the remote stations, means controlled by said office code receiver for delivering a single impulse to said another channel upon the reception of a predetermined number of impulses constituting a complete code over said one channel, means controlled by the repeating relay at the control station in response to said single impulse for releasing said stick relay, and means preventing the delivery of said single impulse to said remote line circuit when said repeating relay responds to said impulse.

2,350,669
ELECTROLYZER CELL
Wilhelm Boller, Zurich, Switzerland, assignor to Maschinenfabrik Oerlikon, Oerlikon, Switzerland, a corporation of Switzerland
Application April 25, 1940, Serial No. 331,608
In Germany May 5, 1939
2 Claims. (Cl. 204—237)

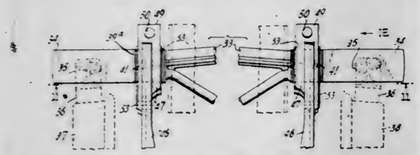


1. An electrolyzer cell for gas separation by water decomposition having the combination of means for externally circulating its electrolyte including a conduit for returning the electrolyte to the cell, said conduit including a tube of electrical insulation material having an extremely narrow bore with proportionately enhanced length for producing sufficiently high electrical resistance to prevent formation of the shunt currents that are responsible for causing gas impurities in the returning electrolyte passing through said tube, and pumping mechanism in said conduit for conveying the electrolyte through said tube to overcome the frictional resistance created by its said narrow bore and enhanced length.

2,350,670
AMMUNITION PRIMING COMPOSITION
Willi Brün and Philip H. Burdett, Bridgeport, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application June 14, 1941, Serial No. 398,116
4 Claims. (Cl. 52—4)

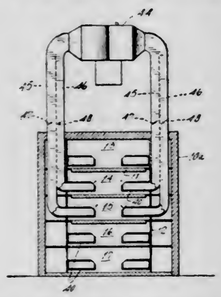
1. A priming mixture for ammunition containing 1% to 15% of the acid lead salt of di-nitroso-resorcinol.

2,350,671
BRAKE BEAM AND GUIDE THEREFOR
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application August 1, 1941, Serial No. 405,045
11 Claims. (Cl. 188—222)



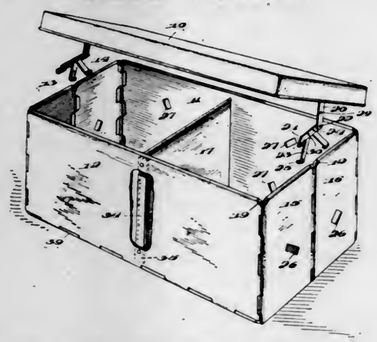
1. A trussed brake beam, whereof the compression-member and the tension-member are terminated beyond their united ends by guiding end-portions which extend along the major longitudinal axis of the beam, each end-portion having a length sufficient to extend beyond the outboard and inboard sides of a car truck wheel and adapted to support and guide the beam at either side of the wheel when the beam is operated.

2,350,672
DRIER
Oscar Byron, New York, and Kenneth H. Jones, Hollis, N. Y., assignors to J. O. Ross Engineering Corporation, New York, N. Y., a corporation of New York
Application August 5, 1942, Serial No. 453,622
7 Claims. (Cl. 34—203)



1. A drier comprising a tunnel oven having a plurality of horizontal partitions forming longitudinal chambers, a conveyor extending longitudinally of each chamber, a duct in each chamber having a discharge aperture for supplying air to materials supported by said conveyor, a plurality of heated air suppliers, conduits for conveying air from each supplier to the ducts of at least a pair of chambers with two suppliers being arranged to furnish air to the same chamber, a damper for each conduit, and means for returning air from at least two chambers to each supplier.

2,350,673
COLLAPSIBLE CRATE
Edward F. Costigan, Milwaukee, Wis.
Application October 26, 1940, Serial No. 363,052
2 Claims. (Cl. 220—55)



1. The combination with a receptacle having a lid, of similar means at each end of the lid for locking the lid in position, each of said means including a metallic strap member pivotally hinged at one end to the lower edge of one end of the lid, a lever member having one end pivotally connected to the other end of the strap member and arranged to swing at right angles to the lid hinge pivot, a hook member pivotally connected to the mid-portion of said lever member, the side of the receptacle having formed therein a pair of notches, said hook member comprising a pair of arms terminating respectively in hooks for engaging said pair of notches, and means for spring latching the strap and lever members together in overlapping relation to hold the arms in retracted position to engage the hooks in the respective notches.

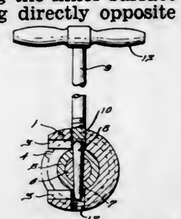
2,350,674
SMOKER'S PIPE CLEANER
George C. Dickey, San Francisco, Calif.
Application May 26, 1943, Serial No. 488,514
7 Claims. (Cl. 131—246)



1. A device for cleaning smokers' pipes comprising a round elongated plug of a size to enter the bowl of the pipe, a flexible sheet of abrasive material around said plug, and clamping means for drawing said sheet taut about said plug and holding it in place, said plug being solid and rounded at its lower end, and said sheet of abrasive material being formed with V shaped serrations along one of its edges of a form and size to fold down over the rounded end of the plug.

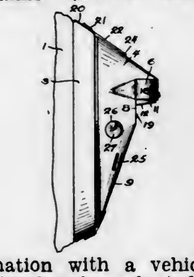
2,350,675
PIN DRIVER AND GAUGE
Max Feldman, Detroit, Mich., assignor of one-third to David M. Miro, Detroit, Mich.
Application December 7, 1942, Serial No. 468,059
2 Claims. (Cl. 29—86.1)

1. A pin driver comprising a substantially U-shaped body adapted to be fitted on a cylinder, said body having a curved bottom and spaced legs, the inner side of the bottom of said body being accurately finished on a radius corresponding to that of the cylinder, said body having a groove along the inner surface of each leg, said grooves being directly opposite each other,



a threaded aperture extending through one leg and into its groove, and a driving member threaded in said aperture, whereby the last named groove permits slipping said body over a partially inserted pin in a cylinder and the other groove determines the driving of the pin.

2,350,676
BLACK-OUT SHIELD FOR VEHICLE HEADLIGHTS
Oscar B. Fetterman, Washington, D. C.
Application September 10, 1942, Serial No. 457,857
7 Claims. (Cl. 240—48.4)

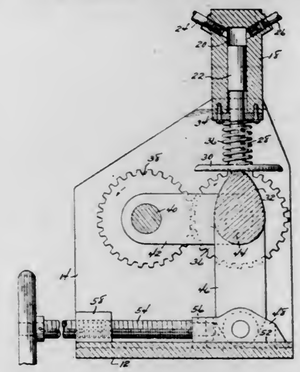


1. In combination with a vehicle headlight having a reflector housing adapted to enclose a light source therein and a lens at the forward end of the housing; a hood mounted in front of the lens, said hood having an opening in the front side thereof through which a beam of light from the light source is emitted, the portion of the hood above the opening extending forwardly and downwardly forming a peaked portion that is open at its bottom, and a light shielding unit arranged within the peaked portion, said light shielding unit projecting through the open bottom of the peaked portion and cooperating with said light emitting opening to regulate the projection of the beam of light therethrough.

2,350,677
PREPARATION OF 2-CHLOR-META-5-XYLENOL
George William Gladden, Oswaldtwistle, England, assignor to William Wiggins Cocker, Accrington, England
No Drawing. Application May 8, 1940, Serial No. 334,089. In Great Britain May 20, 1939
2 Claims. (Cl. 260—623)

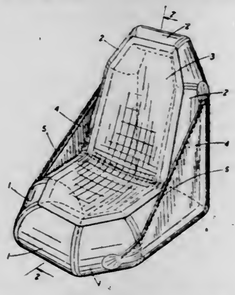
1. The process of preparing 1:3-dimethyl-2-chlor-5-hydroxybenzene which consists in treating a crude metaxylenol tar acid fraction, containing a large proportion of impurities and having a distillation range between 218° C. and 222° C. at 760 mm. Hg. with a chlorinating agent selected from the group consisting of elementary chlorine and sulphuryl chloride capable of producing the 2-chloro derivative and separating said 2-chloro derivative by crystallisation.

2,350,678
VARIABLE STROKE PUMP
Bewley W. Grimsley, Louisville, Ky.
Application July 1, 1943, Serial No. 493,079
5 Claims. (Cl. 103—38)



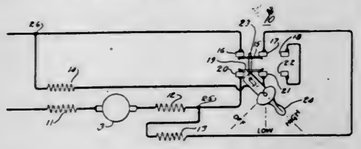
1. A fuel injection pump comprising a body having a bore and an outlet communicating therewith, a rotary cam, a plunger operating in said bore to force fuel through said outlet and yieldingly biased against said cam, a rotary drive means, a rotary driven means operatively engaging said drive means and fixed to said cam, and means for oscillating said driven means about the axis of said drive means to vary the stroke of said plunger.

2,350,679
CHAIR AND LIKE SUPPORTING STRUCTURE
Kenneth Graeme Hann, Cyncoed, Wales, assignor of one-half to Elliot Equipment Limited, Cardiff, Wales, a British Company
Application February 17, 1942, Serial No. 431,221
In Great Britain September 12, 1941
2 Claims. (Cl. 155—179)



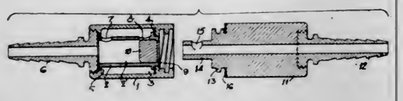
1. An inflatable chair consisting of integrally formed back and seat portions of substantially U-shape and each built up from short straight sided tubes composed of rubberized fabric angled together to give the chair the desired shape when inflated and adhesively united together in end to end relationship, the space contained by the seat and back portions being closed by flexible sheet material secured at its edges to said back and seat portions, the back of the chair being self-supporting when inflated but provided with additional members connecting said back and seat portions for the purpose of taking the weight of the back of an occupant reclining in said chair.

2,350,680
CONTROL SYSTEM
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application February 18, 1943, Serial No. 476,326
4 Claims. (Cl. 172—179)



1. In an energizer for an aircraft inertia starter, a motor, a first set of field windings in said motor, a second set of field windings, switching means for connecting the windings of said second set in series with each other and with said first set for low torque starting of said motor, said switching means being operable to connect the windings of said second set in parallel with each other and in series with said first set for high torque operation of said motor and means operable by establishment of said series connection to temporarily block the establishment of said parallel connection.

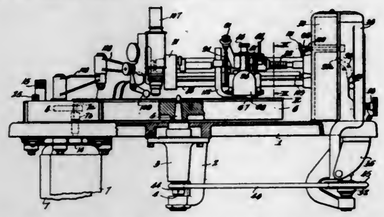
2,350,681
SHUTOFF COUPLING
Frank J. Heywood, Mill Valley, Calif.
Application August 3, 1943, Serial No. 497,253
4 Claims. (Cl. 284—19)



4. A shut-off coupling comprising an outer casing having an axial bore, one end of which is provided with a fluid inlet and its opposite end with a fluid outlet, a channel arranged in the casing alongside the axial bore, fluid outlet means connecting the inlet end of the bore with the channel, fluid inlet means connecting the bore adjacent its outlet end with the channel, a valve seat at the outlet end of the bore, a valve element reciprocably mounted in the bore and arranged to be actuated into engagement with the valve seat by the pressure of fluid entering through the fluid inlet of the bore, whereby fluid is prevented from proceeding through the outlet of the bore, and a tubular body connectable to the casing having means for unseating the valve to open the outlet of the bore.

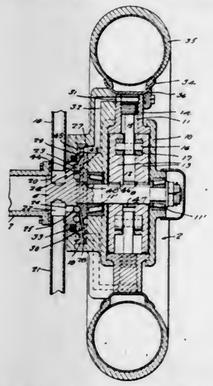
2,350,682
PHONOGRAPHIC APPARATUS
John J. Hoehn and Arthur G. Zimmerman, Indianapolis, Ind., assignors to Radio Corporation of America, a corporation of Delaware
Application July 31, 1940, Serial No. 348,860
13 Claims. (Cl. 274—9)

1. In phonographic apparatus, the combination of means for supporting a record, a sound translating device, means movably supporting said device for movement into and out of operative relation with a record on said supporting means, means including a driving member and a driven member for feeding said device across the record, means for moving said device out of operative relation with the record and means responsive to said last named means after movement



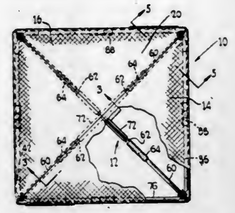
of said device out of operative relation with the record for disconnecting said driving and driven members.

2,350,683
FLUID DRIVE
Leopold Paul Jossim and John Stuart Kellett, Royal Oak, Mich.
Application November 25, 1941, Serial No. 420,440
1 Claim. (Cl. 121—59)



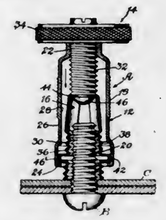
A fluid drive of the character described for vehicles comprising, a tubular housing, a stationary, circular block mounted on one end of said housing, said block having a pair of chambers therein, a spindle projecting from the block, a wheel journaled on said spindle, said wheel comprising a pair of spaced, opposed side plates and a radial cylinder block mounted on said plates, a pair of stationary opposed face cams mounted on the spindle between the side plates and within the confines of the cylinder block, fluid actuated pistons mounted for reciprocation in the cylinder block and operatively connected to the cams, a stationary disk on the spindle between the block and one of the plates, said disk and block having opposed, complemental concentric pairs of channels therein, the inner channels communicating with one of the chambers, the outer channels communicating with the other of said chambers, said disk further having concentric, segmental channels in one face thereof, one of the segmental channels communicating with the innermost of the first-named channels, the other segmental channel communicating with the outermost of the first-named channels, one of the plates having passages therein for connecting the cylinders successively to the segmental channels, a fluid delivery pipe connected to the block and communicating with one of the chambers, and a fluid discharge pipe connected to the block and communicating with the other of said chambers.

2,350,684
TENT
Israel Kantor, Bronx, N. Y.
Application April 22, 1942, Serial No. 439,958
9 Claims. (Cl. 135—1)



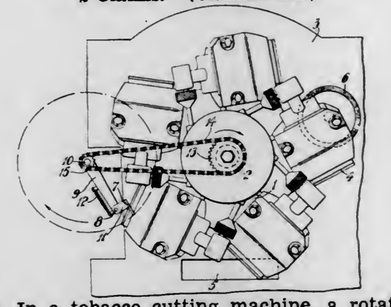
1. A tent comprising a disassemblable skeleton frame including a plurality of stakeposts, each of which has a cornerpost rigidly and frictionally secured thereto, diagonally opposite cornerposts being connected by ridgepoles rigidly and frictionally secured thereto, said ridgepoles being permanently pivotally interconnected, and a covering hood of the same shape as said skeleton frame, said ridgepoles being permanently secured over substantially their entire length to said hood, said hood having a slit therein running from the roof to the bottom thereof, said slit having portions angularly disposed with respect to each other, and means to detachably attach the opposite edges of said slit.

2,350,685
TEMPORARY BOLTING DEVICE
Nathan Kasdan, Plainfield, Conn.
Application June 11, 1943, Serial No. 490,443
4 Claims. (Cl. 85—33)



1. A temporary bolting device for temporarily bolting together metal parts through the medium of a bolt projecting therethrough, comprising a hollow casing, an operating member threadedly mounted at the top end of the casing, the casing being open at its bottom end to receive the bolt, a gripping member in said casing suspendedly mounted from the operating member the latter being rotatable relatively to the former, the gripping member comprising laterally contractable and expandible gripper jaws adapted to engage and disengage the threads of said bolt, means in said casing and on said gripper jaws operative when the gripper member is moved longitudinally in the casing for causing the bolt engaging and disengaging action of the gripper jaws, the said casing forming a finger hold and the bottom of said casing being adapted to engage the surface of the metal part to be bolted, rotation of said operating member in its threaded mounting being effective for moving the gripper member longitudinally in said casing and thereby causing gripping and drawing of the bolt and ungripping and releasing of the bolt.

2,350,686
KNIFE CLEANER FOR ROTARY TOBACCO-LEAF CUTTING MACHINES
Henry William Langrish, Deptford, London, England, assignor to Molins Machine Company, Limited, Deptford, London, England
Application October 2, 1941, Serial No. 413,354
In Great Britain October 7, 1940
2 Claims. (Cl. 146—106)



1. In a tobacco cutting machine, a rotatable knife having a substantially straight cutting edge inclined to the radial in a direction outwardly and rearwardly with respect to the direction of rotation and in a plane normal to the axis of rotation, and a scraper blade driven in timed relationship with the knife and shaped to engage the cutting edge and areas in proximity to the cutting edge of the knife to remove material therefrom, during movement of the knife, and means supporting said blade for movement in a curved path about an axis parallel to and spaced from the knife axis in the same angular direction as the knife and outwardly across the path of the knife in a zone laterally removed from a line connecting the axes of the knife and blade, means driving said knife and blade in such timed relation that during the movement of the blade along the knife, the blade is caused to sweep lengthwise of the whole of said cutting edge with a point on said blade progressively engaged with successive points on said cutting edge, said supporting means retaining said blade against axial displacement during such outward movement.

2,350,687

WITHDRAWN

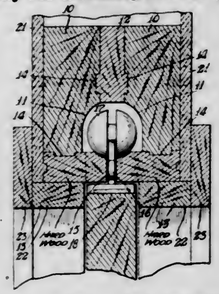
2,350,688
METALLIC SOAP COMPOSITION
Francis J. Licata, New York, N. Y., and Joseph Nothum, Elizabeth, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application August 3, 1940, Serial No. 351,110
16 Claims. (Cl. 106—243)

5. A composition of matter comprising chiefly a solution of a polyvalent metal soap of 12-hydroxy stearic acid in a relatively high boiling lacquer solvent of the polar type.

2,350,689
HEADER CONSTRUCTION FOR SLIDING DOORS
Ralph L. Long, San Diego, Calif.
Application September 29, 1941, Serial No. 412,894
1 Claim. (Cl. 16—96)

A composite wooden track structure consisting of relatively light grained side pieces and a rela-

tively hard grained base strip extending across the lower edges of the side pieces, the lower inside faces of the side pieces spaced apart to form a passageway for a sliding bracket, said base strip



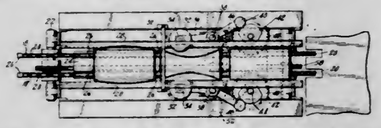
being provided with a longitudinally extending slot through which the bracket shank extends, the upper edges of the base strip adjacent the slot being concaved to jointly form a seat for a ball roller bearing.

2,350,690

MACHINE FOR USE IN THE MANUFACTURE OF CARTONS

William T. Martin, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York

Application January 8, 1942, Serial No. 425,970
4 Claims. (Cl. 93—36)



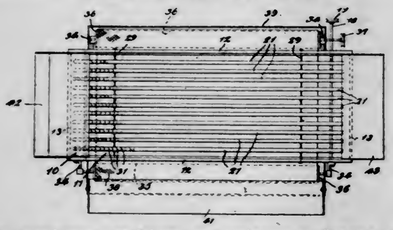
1. In a machine for use in the manufacture of cartons of the class described, each carton comprising a bottom wall and vertical side and end walls, the combination of means for feeding the cartons longitudinally in end to end relation and spaced apart, and devices acting progressively in a direction transversely to the direction of the feeding of the cartons to bend the portions of the side walls extending between the end walls of each carton inwardly on the lines of fold between the side walls and the bottom wall as the cartons are thus fed, said feeding means feeding each carton past said bending device during the bending operation of said device on the carton.

2,350,691

GRADING MACHINE

Curtis Mauroner, Braggs, Okla.

Application September 21, 1942, Serial No. 459,123
1 Claim. (Cl. 209—102)



A grading machine comprising a frame work including an inclined trough, a transverse shaft at each end of the trough, a plurality of pulleys mounted on each shaft and spaced apart, each pulley having a substantially V-shaped peripheral groove, a grader belt trained about aligned pulleys of the shafts, said grader belt having a major cross sectional contour complemental to the peripheral groove of the pulleys and a minor upper semi-circular contour, a support rail beneath the upper reach of each grader belt, means for rotating one of the shafts to effect movement of the grader belts in unison and in parallel relation to each other, a discharge chute for receiving products from the grader belts, an endless conveyor means extending transversely beneath the upper reaches of the grader belts for receiving products passing between the grader belts, and said grader belts having a plurality of longitudinally spaced ribs on the upper semi-circular contour of the belts, said ribs being inclined downwardly upon respective sides of the belts in a direction opposite the line of travel of the belts.

2,350,692

FISHING TOOL

Frank M. Milek, Thermopolis, Wyo., assignor of fifty per cent to Alexander Healy, Jr., Worland, Wyo.

Application December 28, 1943, Serial No. 515,962
3 Claims. (Cl. 294—116)



1. A fishing tool comprising a barrel, a cable slidably extending through the barrel, a rod coupler attached to the upper end of the cable, said barrel and coupler having sliding interfitting engagement, a plurality of cooperating jaws pivotally connected to the barrel and projecting below the barrel into a position for gripping the end of a tool, and a spreader attached to the lower end of the cable and adapted upon an upward movement thereof to close the jaws.

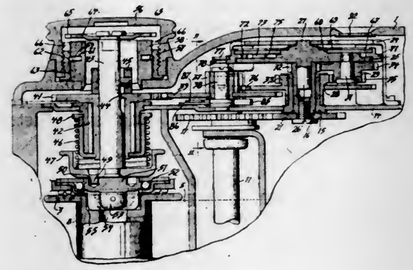
2,350,693

STRIP FEED MECHANISM

Lewis H. Moomaw, Wilmette, and Hugo Bernzott, Chicago, Ill., assignors to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Application August 13, 1943, Serial No. 498,534
19 Claims. (Cl. 242—71)

3. In a device of the character described, the combination with a rotatable strip roll member, of a second rotatable member, of a driving gear train operative between said roll and second members comprising two relatively rotatable coaxial gears respectively connected with said roll and second members and intermediate rotatable gear means meshing with both of said coaxial gears in differential relation therewith and bodily adjustable angularly on the axis of said coaxial gears to vary the angular movement of said roll member relative to that of said second member,



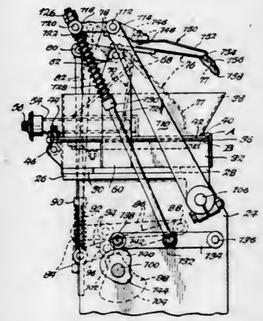
and adjusting means controlled in timed relation with said second member and operative to adjust said intermediate gear means in predetermined progressively varying extents respectively incidental to successive equal angular movements of said second member whereby to effect progressive variation of angular movements of said roll member, corresponding with the varying diameter of a strip roll on said roll member, with said successive movements of said second member.

2,350,694

BAG-CLOSING DEVICE

Marcel A. Nicolas, Buffalo, N. Y., assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y., a corporation of New York

Application November 5, 1942, Serial No. 464,585
9 Claims. (Cl. 91—47)



1. An adhesive-handling apparatus of the class described comprising, a container having a supply of adhesive in flowable condition therein, a plurality of fingers, means to move said fingers through the adhesive contained in said container to agitate the same and to move a predetermined number of said fingers out of said adhesive whereby to carry from said container films of adhesive adhering thereto, applicator means, and means to move said applicator means into contact with a predetermined number of said films of adhesive whereby to transfer adhesive from said fingers to said applicator means.

2,350,695

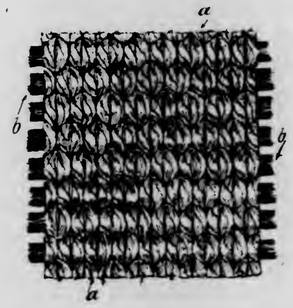
WITHDRAWN

2,350,696

WOVEN STRUCTURE RESISTANT TO PENETRATION BY WATER UNDER PRESSURE

Frederick Thomas Peirce, Manchester, and William Charles Gardiner, Salford, England, assignors to The British Cotton Industry Research Association, Manchester, England, a British association, and F. Reddaway and Company Limited, Salford, England, a British company

Application May 29, 1942, Serial No. 445,068
In Great Britain June 12, 1941
4 Claims. (Cl. 139—420)



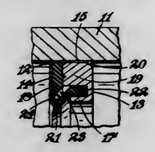
1. A water resistant fabric made from long staple cotton using a singles count of 6½ with twist factor 2.5, the singles doubled with a reverse twist of factor 3.0, the yarns mercerised to regain more than the original length and impreguated with a mould inhibiting agent, the warp being of four fold, the yarn running in pairs in the weaving, the weft being 16 fold cabled 4/4/6½ with cabling twist reverse to the doubling twist, the fabric being woven with 62 warp ends per inch and 12 picks of weft per inch.

2,350,697

OIL SEAL

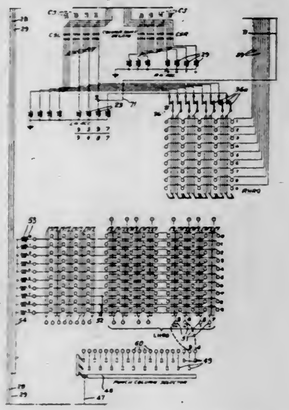
Horace Francis Petch, New Barnet, England

Application January 27, 1941, Serial No. 376,244
In Great Britain January 27, 1940
11 Claims. (Cl. 288—3)



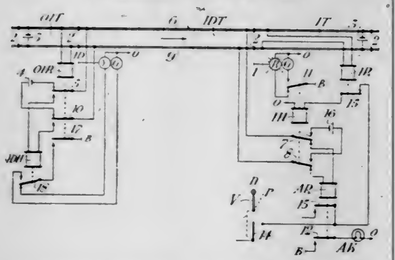
1. As an article of manufacture, an annular sealing element of flexible elastic material and substantially L-shaped in cross section, one flange of the element extending radially of the element and the other extending substantially axially thereof and terminating radially inwardly of the outer end of said first named flange, an annular sealing lip formed upon the element at the external angle at the junction of the flanges and means within the internal angle opposite said lip for pressing the latter against a part to be sealed.

2,350,698
ROUNDING OFF MEANS FOR CALCULATING MACHINES
Richard H. Sampson, Plainfield, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 15, 1943, Serial No. 494,809
3 Claims. (Cl. 235—61.6)



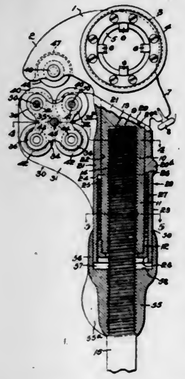
1. An accounting machine in which rounding off is to be effected in a selected order comprising, an accumulator having units carry mechanism for carrying a unit to a higher order element when the next lower order element passes from 9–0, entry determining means, means for causing under control of said entry determining means the entry of a value in said accumulator, and means for effecting the entry in a selected lower order element of said accumulator of the same digit entered by the related order of the aforesaid entry determining means whereby the doubling of the digits 5, 6, 7, 8, or 9 in such selected order element of the accumulator causes the units carry mechanism for the next higher order to operate to augment the digit representation in the next higher order element by "1."

2,350,699
RAILWAY TRAFFIC CONTROLLING APPARATUS
Vene P. Shepardson, Belview Heights, Ala., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 23, 1943, Serial No. 491,880
7 Claims. (Cl. 246—22)



1. In control means for a home signal and for a distant signal for said home signal, including a track section between said home and distant signals, including an approach track relay for an approach track section which adjoins said first track section at a point adjacent said distant signal, including a signal relay for controlling said home signal, the combination comprising, an approach control relay, a track circuit including the rails of said track section between said home and distant signals and including front and back contacts of said approach track relay and said signal relay respectively for controlling said approach control relay, a back contact of said approach control relay included in a circuit for controlling said signal relay, a distant relay for controlling said distant signal, and a circuit including the rails of said track section between said home and distant signals and including front and back contacts of said signal relay and said approach track relay respectively for controlling said distant relay.

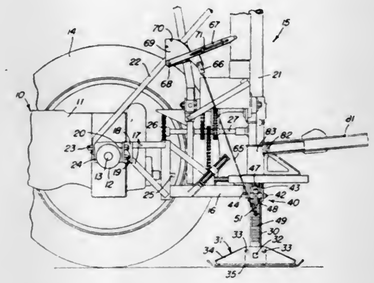
2,350,700
TOOL FOR CUTTING AND THREADING PIPE
Thomas D. Segeberg, Somerville, Mass.
Application February 9, 1943, Serial No. 475,253
11 Claims. (Cl. 30—102)



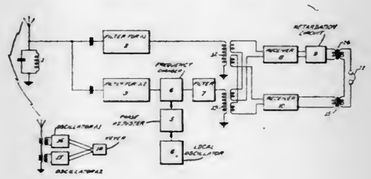
1. In a pipe cutter, in combination, a cutter-disk head or body element and a frame element, one element having an elongated shank and the other a channeled connecting portion adapted to receive the shank and whereby said elements are interengaged for relative sliding movement toward and from each other lengthwise of the shank, said body element having a cutter disk rotatably mounted thereon, said frame element holding a plurality of individually rotatable members symmetrically disposed in opposition to the cutter disk, interengageable means on said elements limiting movement of the frame element toward and from the cutter-disk, and means yieldably urging the frame element toward the cutter-disk.

2,350,701
RETRACTABLE SPUD SUPPORT
Harold M. Stueland, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 25, 1943, Serial No. 477,179
10 Claims. (Cl. 212—38)

3. In a portable hoist, a mobile frame, a mast supported thereon and offset at one side of said frame, a ground support for said mast comprising a standard shiftable vertically relative to said mast, a ground engaging member mounted on said standard and adapted to follow the contour of the ground when the frame advances, one-way clutching means for securing said standard and member against vertical movement in one direction while permitting vertical movement in the opposite direction, and means for optionally reversing the action of said clutching means, whereby during transport said ground support can be retained against dropping downwardly but is free to be moved upward when encountering a high spot in the ground and retained in the higher position, and upon reversal of said clutching means, said ground support can be retained against upward movement but permitted to drop to ground engaging position, thus supporting said mast and movable downwardly relative to said mast as said member settles into soft ground.

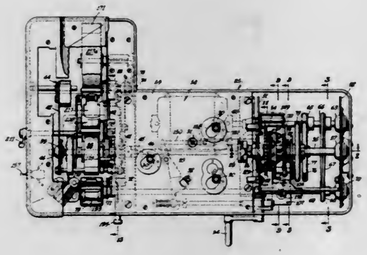


2,350,702
SYSTEM OF RADIO COMMUNICATION
Edward Hill Ullrich, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application November 8, 1941, Serial No. 418,280
In France May 21, 1940
8 Claims. (Cl. 250—6)



1. A radio signalling system comprising a transmitter having means for generating a plurality of carrier waves of different frequencies, means for modulating said carrier waves with the same signals, and means for radiating said modulated carrier waves, and a receiving arrangement comprising means for abstracting energy from said modulated carrier waves means for converting the received waves to the same frequency, a phase adjuster for converting the directly received waves at the different frequencies to the same phase, two receiving branches, means for isolating direct waves in one of said branches and echo waves produced by reflections in the other of said receiving branches, an output circuit for each of said branches coupled to a circuit including an indicating device and a retardation circuit in one of said output circuits whereby the direct signal waves and the echo signal waves are additive in the circuit of said indicating device.

2,350,703
POWER-OPERATED PRINTING MACHINE
Commodore D. Ryan and Edward P. Drake, Los Angeles, Calif., assignors to National Postal Meter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application February 5, 1941, Serial No. 377,418
1 Claim. (Cl. 101—235)

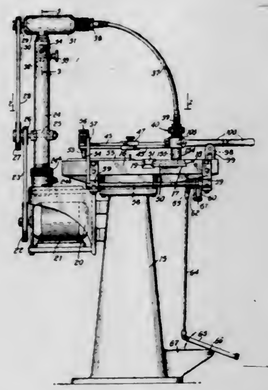


In a mail treating machine wherein a cyclically operable printing mechanism including a rotatable printing head is mounted on a power unit adapted to drive the printing head, the combination of a platen rotatably mounted in said power unit adjacent said printing head and adapted with said printing head to feed an object therefrom and print on it, ejector roller means for receiving objects from said printing head and platen and ejecting them from the machine, an electric motor in said power unit for driving said printing head, said platen and said ejector roller, means permanently coupling said ejector roller to said motor for operation with said motor at all times, clutch means for selectively connecting said printing head and platen to said motor to begin a cycle of operation thereof and for disconnecting it at the end of a cycle to stop the printing head and platen, and control means for closing and opening the motor circuit substantially simultaneously with engagement and disengagement respectively of said clutch, the movable elements of said motor and ejector roller having substantial inertia whereby they continue in motion for an appreciable interval of time following the completion of the cyclical movement of the printing head and platen.

2,350,704
ROUTING MACHINE
Albert E. Schnable, Ocean Grove, N. J.
Application October 4, 1941, Serial No. 413,701
11 Claims. (Cl. 90—13.1)

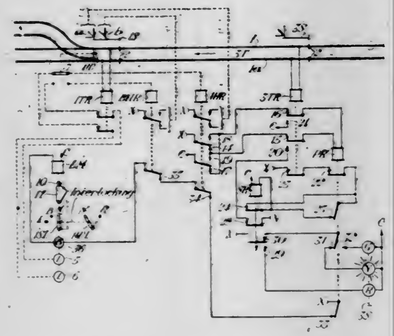
1. A machine of the character described comprising a standard, a table at the upper end of the standard, the upper surface of the table having a transverse recess extending throughout the full length thereof, a plurality of supporting plates adjustable longitudinally of said recess, means adjustably clamping a pattern element in two directions in one of said plates, means adjustably clamping a workpiece in another of said plates, a pantograph linkage comprising two pair of adjustably pivoted arms, means adjustably and pivotedly supporting one end of one of said arms upon the third of said plates, a stylus supporting body, a tool supporting body, said bodies being pivotedly coupled, one with one end of an-

other of said arms and the other with adjacent ends of two other arms, and said bodies having



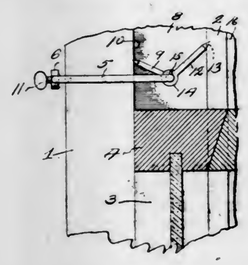
handle members to guide the stylus and tool with respect to said pattern element and said workpiece.

2,350,705
RAILWAY TRAFFIC CONTROLLING APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 5, 1943, Serial No. 471,350
12 Claims. (Cl. 246—219)



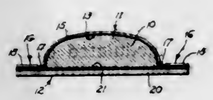
1. In combination with a section of railway track provided with a signal for governing traffic in said section, a polarized relay, means governed by traffic in said section and effective when said section is vacant for supplying current of one relative polarity or the other to said polarized relay for operating the polar armature thereof to the one position or another respectively, a stick relay normally energized over a stick circuit including its own front contact and so governed by traffic conditions in said section as to be completed only when said section is vacant, a pick-up circuit for said stick relay including a polar contact of said polarized relay closed in said one position of its polar armature and governed by traffic conditions in said section to be completed only when said section is vacant, a clear circuit for said signal governed by a front contact of said stick relay and a polar contact of said polarized relay closed in said other position of its polar armature, a caution circuit for said signal governed by a front contact of said stick relay and a polar contact of said polarized relay closed in said one position of its polar armature, and a stop circuit for said signal completed when said stick relay is released.

2,350,706
WINDOW SASH STOPPING DEVICE
Daniel G. Sell, Kansas City, Mo.
Application September 1, 1943, Serial No. 500,815
3 Claims. (Cl. 292—288)



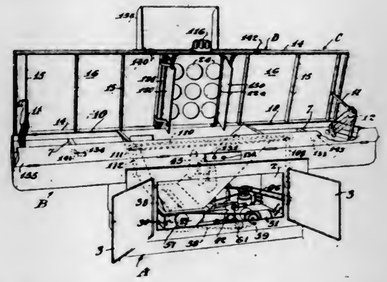
1. A sash limiting device adapted to be attached to the inside strip of a window frame and to limit the movement of a sash in the channel between the inside strip and the parting strip, said device comprising a U-shaped body member arching the inside strip, one arm of said U-shaped member overlying the outer side of the inside strip, the other arm of said body member extending into the sash channel between the inside and parting strips, said last named arm being provided with an integral piercing member adapted to engage the inner side of the inside strip, a set screw carried by the first mentioned arm of the body member and adapted to engage and pierce the inside strip and a hinged piercing member hingedly mounted on the arm between the inside and parting strips and adapted to pierce the parting strip, said piercing members being in the path of the sash.

2,350,707
POWDER PUFF
Albert E. Vaughn, Los Angeles, Calif.
Application October 29, 1941, Serial No. 416,953
6 Claims. (Cl. 15—131.1)



1. A dispensing envelope for powdered material having: a dispensing wall of fabric forming one side of the envelope, said fabric being sufficiently loosely woven to permit the powder particles to filter through, said fabric having an outwardly presented pile of resilient fibers of synthetic material; and a flexible wall of material impervious to the powder particles forming the other side of the envelope, the marginal portions of said two walls combining to form a margin of the envelope for use as a means to spread released powder, said two walls being heavily bonded together along an inner zone of said spreading margin to seal the powdered material in the envelope, said two walls being lightly bonded together in an outer zone of said spreading margin with said pile fibers resiliently standing out in said outer zone to form a powder brush.

2,350,708
PAN GREASING MACHINE
Harold A. Roselund, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application August 27, 1941, Serial No. 408,542
21 Claims. (Cl. 91—44)

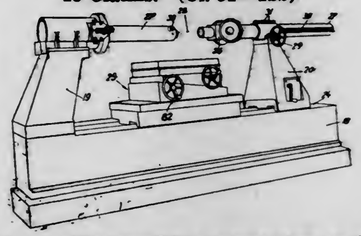


12. In a machine of the class described, the combination with a reciprocably movable pan carriage, a spray gun for spraying a pan with grease during a portion of its movement with the carriage, means for feeding grease to the gun, an air pressure control valve for the gun, and means operable to move the carriage through a predetermined cycle, of scrapers disposed at the spraying side of the carriage and pan to engage and remove grease therefrom during movement of the carriage, said scrapers including electric heaters, two separate electrical controls, one for the grease feeding means and heaters and one for the valve and carriage operating means, the latter control being automatically operable first to close said valve and stop the spraying action of the gun at one point in a cycle of movement of the carriage and then to stop the carriage operating means at another point in such movement.

2,350,709
ABSCISSION RETARDING COMPOSITION AND METHOD FOR USING THE SAME
James F. Adams, Wilmington, Del., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application April 27, 1942, Serial No. 440,756
8 Claims. (Cl. 47—58)

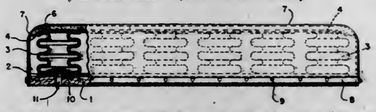
1. The method of retarding abscission of a part of a growing plant comprising treating the plant, shortly before the time abscission of the part is anticipated, with an aqueous solution containing, per 100 gallons thereof, (A) not less than 17 and not more than 45 grams of water-soluble alkyl phenol sulfonate containing 10 to 30 carbon atoms in the alkyl group, and (B) not less than one and not more than 2.5 grams of material of the group consisting of naphthalene acetic acid, the ethyl and methyl esters thereof, and naphthaleneacetamide.

2,350,710
GRINDING MACHINE
Max Ahnert, Aschersleben, Germany; vested in the Alien Property Custodian
Application December 12, 1941, Serial No. 422,615
In Germany June 8, 1940
13 Claims. (Cl. 51—122)



2. A grinding machine comprising a frame, two spaced standards thereon, a horizontal beam carried by and extending between said standards and composed of a grinding head and of two coaxial tubes extending from the opposite ends thereof, a spindle journalled within said head in transverse position, at least one grinding disc fixed to said spindle, a guide-way on said frame extending parallel to said beam, and a reciprocatory work table slidably mounted on said guide-way.

2,350,711
BELLOWS CUSHION FOR UPHOLSTERY
Howard W. Amos, Syracuse, N. Y., assignor of one-third to Timothy B. McCarthy, Syracuse, N. Y., and one-third to James D. Clark, Chicago, Ill.
Application December 12, 1941, Serial No. 422,736
1 Claim. (Cl. 155—179)



A cushion for upholstery including a base layer, a top layer, and a plurality of air tight bellows cylindrical in general form between the layers, each bellows being imperforate, so as to be without holes and hence sealed against inlet and outlet of air, each bellows being also secured at its opposite ends to said layers respectively, each bellows being independent of and with its interior disconnected from the other bellows, at least one of the walls of each bellows being provided with a self-sealing material for sealing up punctures made therein for the purpose of forcing air under pressure thereinto.

2,350,712
FLUID LEVEL GAUGE
Wilhelm Barstles, Berlin, Germany; vested in the Alien Property Custodian
Application March 25, 1941, Serial No. 385,174
In Germany March 1, 1940
4 Claims. (Cl. 73—293)



1. An apparatus for measuring the liquid level in tanks comprising an elongated right-angle prism adapted to be disposed within the tank and extend from the bottom of the tank to a point that is substantially at the top thereof, a source of light adjacent one face of said prism

and extending throughout the length thereof, a strip-like photo-electric cell adjacent another face of said prism and extending the entire length thereof adapted to receive light rays from the light source which are reflected from the hypotenuse face of the prism, said light source, prism and photo-electric cell being so arranged that the liquid in the tank will receive light rays in proportion to the depth of liquid in the tank, and a meter connected to the photo-electric cell whereby to indicate the liquid level in the tank.

2,350,713

SEPARATION AND PURIFICATION OF THE TOCOPHEROLS

James G. Baxter and Julius D. Taylor, Rochester, N. Y., assignors to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application April 20, 1942, Serial No. 439,776

7 Claims. (Cl. 260—333)

1. The process of resolving a mixture of alpha and at least one other tocopherol into its components which comprises subjecting a mixture containing alpha and at least one other tocopherol to an esterification treatment in which the esterifying agent is one which is adapted to form an ester of a carboxylic acid, terminating the esterification reaction when the amount of tocopherol esterified corresponds to about the amount of tocopherol other than alpha present in the mixture, whereby the tocopherol other than α tocopherol present in the starting mixture is largely esterified and the α tocopherol remains substantially unesterfied, and then treating the reaction product to separate esterified tochoperol from unesterified alpha tocopherol.

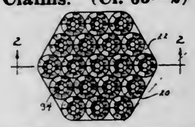
2,350,714

ORNAMENT

Eugene Bazner, Providence, R. I.

Application January 6, 1943, Serial No. 471,391

8 Claims. (Cl. 63—2)



5. An ornament having a gem simulating portion integral with said ornament comprising a center portion consisting of a plurality of similarly inclined facets arranged in frusto-pyramidal formation and a border portion consisting of a plurality of similarly inclined facets arranged in reverse frusto pyramidal formation around said center portion, with the facets of the center and border portions being similar to those of the gem to be simulated and having highly reflective brilliant surfaces whereby the upwardly tilted and downwardly tilted facets may visually cooperate with each other to simulate a gem.

2,350,715

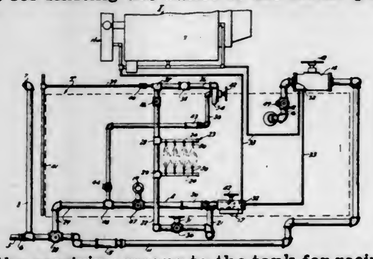
PUMPING AND FEEDING MECHANISM FOR MIXING MACHINES

Egon G. Berg and Melvin Ovestrud, Minneapolis, Minn., assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn., a corporation of Delaware

Application February 16, 1942, Serial No. 431,048

1 Claim. (Cl. 259—95)

In a machine for preparing road building materials and having a liquid storage tank, a liquid receiving means and operative in conjunction with a liquid supply source, a liquid supply system comprising a transfer pump having its inlet normally connected to the liquid supply source and its outlet connected to the tank, a feeder pump having its inlet connected to the tank and its outlet normally connected to the liquid receiving means, means for shifting the outlet of the feeder pump



from the receiving means to the tank for recirculating liquid through the pump, the said tank having an outlet connected to the inlet of the feeder pump, means for connecting said tank outlet also to the inlet of the transfer pump for recirculating liquid through that pump, and means for disconnecting the transfer pump inlet from the liquid supply source while said inlet is connected to the outlet of the tank.

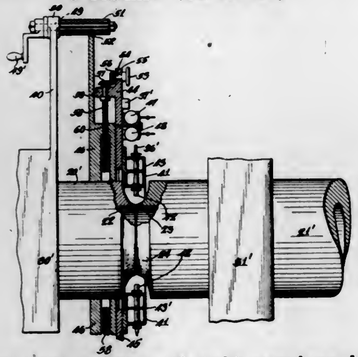
2,350,716

WELDING APPARATUS

Herbert A. Bissout, Merchantville, N. J., and William Y. Borresen, Philadelphia, Pa., assignors to W. K. Mitchell & Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application December 13, 1939, Serial No. 308,974

9 Claims. (Cl. 78—84)



1. In butt welding of weld members having thin opposing lips together forming the bottom of a weld groove between the weld edges of the members, employing means for pressure welding the lips by pressing one member endwise toward the other, the combination of an annular burner having spaced burner outlets whose ends extend into the weld groove and are directed upon the lips and means for withdrawing the ends of the burner outlets from the groove before completing the endwise pressure application.

2,350,717

SIGNALING DEVICE

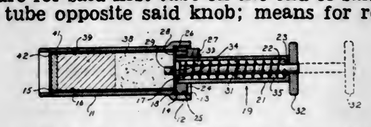
George Blair, Berwyn, Pa.

Application April 25, 1942, Serial No. 440,555

2 Claims. (Cl. 42—1)

1. A signal shell firing device comprising a first tube adapted to receive a standard signal

shell; a second tube smaller than said first tube; a firing pin and a pin actuating compression spring in said second tube, said pin projecting from the rear end of said second tube; a knob on the rear end of said firing pin for manually retracting said pin to compress said spring and for providing an abutment cooperating with the rear end of said second tube to restrain said firing pin against passing through said tube; a closure for said first tube on the end of said second tube opposite said knob; means for releas-



ably locking said tubes together in coaxial end to end relationship with an end of said first tube closed by said closure member on said second tube and the rim of a signal shell clamped between the end of said first tube and said closure; and a releasable safety stop member normally interposed between said knob and the rear end of said second tube to prevent accidental firing of said device, said stop member being manually movable to release said knob for firing said device.

2,350,718

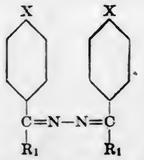
PROCESS OF PREPARING ALPHA, BETA-DIALKYL-ALPHA, BETA-DIARYL-ETHANES

Hermann Bretschneider, Gábor Fodor, and Zoltán Földi, Budapest, Hungary; vested in the Alien Property Custodian

No Drawing. Application December 11, 1939, Serial No. 308,726. In Hungary December 24, 1938

2 Claims. (Cl. 260—619)

1. A process for preparing α,β-dialkyl-α,β-diaryl ethanes consisting in subjecting azines of aliphatic-aromatic ketones having the general formula



where X is a member selected from the group consisting of hydroxyl, alkoxy, and acyloxy radicals and is the same on each benzene ring, and R_1 is an alkyl group, to a catalytic hydrogenation, subjecting the hydrogenation product to oxidation, and subjecting the product thus obtained to a thermal decomposition.

2,350,719

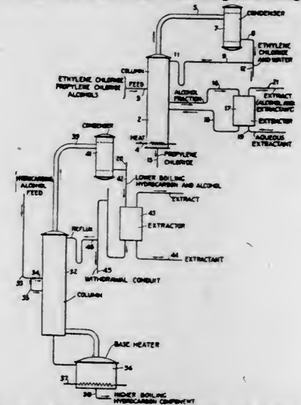
SEPARATION OF SOLVENT MIXTURES

Albert G. Bright and Webster E. Fisher, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 21, 1941, Serial No. 394,530

6 Claims. (Cl. 202—43)

1. A process for separating a feed mixture comprised of ethylene chloride, propylene chloride, and butyl alcohol which comprises distilling the mixture, volatilizing off a distillate essentially comprised of ethylene chloride, withdrawing a residue essentially comprised of propylene chloride, intermittent of the foregoing distillation removing a fraction comprised of ethylene chloride, propylene chloride, and butyl alcohol, the concentration of the butyl alcohol, however, being greater than its concentration in the feed mixture, cooling the withdrawn mixture and subjecting the withdrawn mixture to extraction with an aqueous extractant for separating the butyl



alcohol, said extraction being carried out in the presence of a small content of methyl alcohol whereby the butyl alcohol extraction is facilitated, and returning the residue of the extraction to the distillation step adjacent the point of withdrawal.

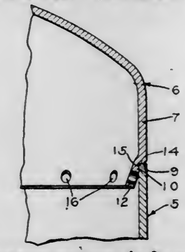
2,350,720

RESERVOIR CONSTRUCTION

Stuart B. Brodie, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application August 28, 1941, Serial No. 408,573

3 Claims. (Cl. 220—67)



1. A fluid pressure reservoir formed of thin sheet steel and comprising at least one dome-shaped head section having a cylindrical wall, said wall terminating in an inwardly inclined annular backing flange having a right angular exterior shoulder formed thereon and providing a flat surface of the same diameter as that of said cylindrical wall, the inner portion of said backing strip having a plurality of drainage apertures formed adjacent said shoulder, and a cylindrical shell section having the same diameter as that of said head section, said shell section being seated on said shoulder outwardly of said backing strip and being welded exteriorly to said head section along the line of contact.

2,350,721

GREENHOUSE

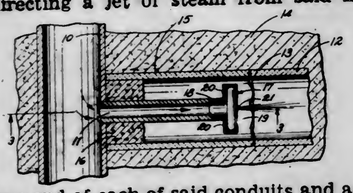
Clifford R. Brown, Berea, Ohio

Application September 19, 1942, Serial No. 458,961

8 Claims. (Cl. 47—17)

1. Means for sterilizing a soil bed comprising a header and a plurality of perforate outlet con-

duits extending therefrom and disposed beneath the soil bed, the sum of the cross sectional areas of said outlet conduits substantially exceeding the cross sectional area of said header, means for directing a jet of steam from said header



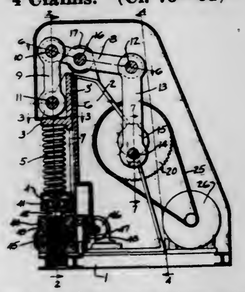
into one end of each of said conduits and against a wall thereof, and means for directing another jet of steam from said header substantially axially into said one end of each of said conduits.

2,350,722

FATIGUE TESTING MACHINE

Francis Buckingham, Franklinville, N. J., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania

Application April 6, 1942, Serial No. 437,821
4 Claims. (Cl. 73—51)



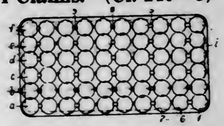
1. A fatigue testing machine comprising, in combination, a load adjusting table adapted to support a specimen, an opposed reciprocating head engageable with the specimen for imposing a repetitive load thereon, means for reciprocating said head with a constant length of stroke, means for moving said table toward said head to control the load on the specimen independently of the stroke of said reciprocating head, power means for actuating said table moving means, and means responsive to the load transmitted to said table for controlling said power means.

2,350,723

PROCESS OF FORMING SPRING FILLERS FOR FURNITURE AND THE LIKE

Hugo Büttner, Wuppertal-Vohwinkel, Germany; vested in the Alien Property Custodian

Application June 4, 1942, Serial No. 445,791
In Germany March 8, 1939
4 Claims. (Cl. 140—3)



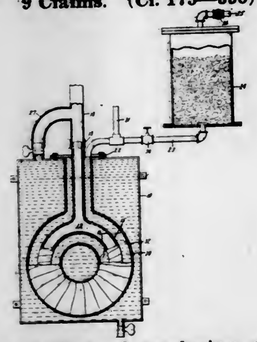
1. That process of forming spring fillers for furniture and the like which consists in producing a series of long wire spirals of equal length, arranging the long spirals side by side with their ends aligned, connecting the convolutions of each spiral with the adjacent spiral, and simultaneously bending in one direction all of said connected long spirals at aligned points equidistant from their several ends, then bending all of said connected spirals at aligned points equidistant from their last bends in the opposite direction, and continuing bending successive lengths of the spirals in alternate directions, the bends being of sufficient angular extent to form parallel spring coils.

2,350,724

INSULATED CONDUCTING MEMBER AND METHOD OF APPLYING THE INSULATION

Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application June 23, 1942, Serial No. 448,118
9 Claims. (Cl. 175—358)



1. In a method of producing an insulated electrical conducting member, the steps of surrounding the member with a permeable screen, surrounding the member and first screen with a second permeable screen and spacing the second screen from the first screen, introducing a fluid having bits of insulating material suspended therein in the space between the screens, creating a higher pressure in the liquid between the two screens than that on the other side of the screens so that the fluid will pass through the two screens and deposit its suspension thereon, and removing the second screen leaving the insulation around the first screen.

2,350,725

PROCESS FOR RECOVERING METALS FROM STEEL SLAGS

Patrick Edgar Cavanagh, Hamilton, Ontario, Canada

No Drawing. Application October 10, 1942, Serial No. 461,594. In Canada September 26, 1942
12 Claims. (Cl. 75—11)

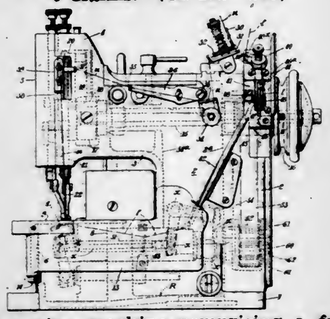
1. A process for the recovery of metal from molen oxidizing slag which has been removed from the steel bath comprising the addition of an exothermic agent to the slag, such exothermic agent being convertible to a basic oxide as it absorbs oxygen in the slag, such basic oxide replacing the particles of metal separating themselves from the slag, whereby the exothermic action in conjunction with the replacement of the metal particles retains fluidity of the slag as the metal is being precipitated, introducing the slag and separated metal into an arc furnace, removing the slag from the metal, and placing a portion of such removed slag into a second furnace, adding coke to the slag in the second furnace to produce an exothermic agent which is convertible into a basic oxide.

2,350,726

SEWING MACHINE

Andrew B. Clayton, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Original application August 29, 1941, Serial No. 408,701. Divided and this application March 24, 1943, Serial No. 480,277
6 Claims. (Cl. 112—248)



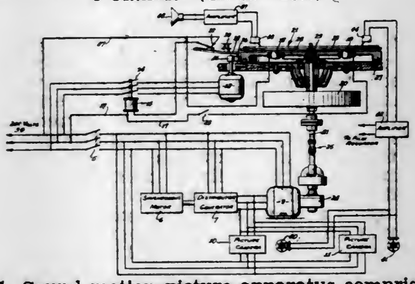
1. A sewing machine comprising a frame; a needle-bar actuating shaft and a loop-taker actuating shaft journaled therein; a driving connection between said shafts including a sprocket secured to each shaft and a belt connecting said sprockets; a thread take-up mechanism comprising a pair of stationary thread-guides and a rotary take-up disk acting on the thread extending between said thread-guides; and means for adjustably securing said take-up disk to one of said sprockets to permit of angular adjustment of the disk relative to its supporting sprocket.

2,350,727

REHEARSAL SYSTEM FOR SOUND MOTION PICTURES

Milford E. Collins, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application September 27, 1941, Serial No. 412,577
8 Claims. (Cl. 88—16.2)



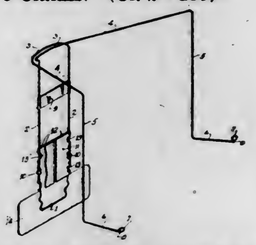
1. Sound motion picture apparatus comprising a motion picture camera, a sound record medium, means for recording on said medium the sound accompanying said picture, means for driving said picture camera and said sound record medium in synchronism, additional means for driving said record medium independently of said first driving means said synchronous driving means being automatically disconnected from said record medium when said additional driving means drives said record medium, and means for mechanically connecting and disconnecting said additional driving means to and from said record and electrically energizing and de-energizing said additional driving means, said connecting and energizing being accomplished simultaneously.

2,350,728

HAT SUPPORTING DEVICE

George B. Conley, Cleveland, Ohio

Application January 26, 1940, Serial No. 315,815
5 Claims. (Cl. 2—185)



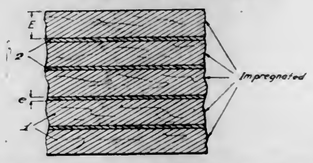
1. A hat crown support comprising a wire frame having a base portion including generally upright stretches of the wire connected together at their lower limits and adapted for insertion between the crown material and inner band of the hat, and spaced generally upright portions extending therefrom and relatively crossed at their upper ends, and arms extending rearwardly from the laterally outward limits of respective crossed portions adapted to reinforce fore and aft folds in the crown material of the hat.

2,350,729

COMPRESSED FOLIATED WOOD

Marcel François Crouet, Beauchamp, France; vested in the Alien Property Custodian

Application May 19, 1942, Serial No. 443,629
In France October 30, 1941
1 Claim. (Cl. 20—91)



A compressed plywood structure comprising alternate impregnated and unimpregnated wood plies, the impregnated plies containing throughout their structure a polymerisable resin, and having a thickness several times greater than that of the unimpregnated plies, thereby increasing the physical resistance and decreasing the mechanical resistance of the structure.

2,350,730

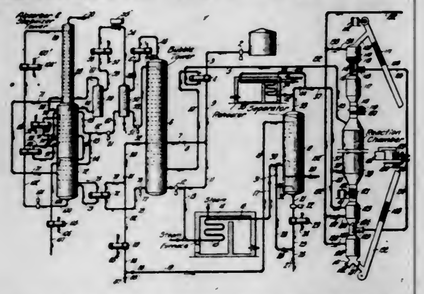
METHOD FOR CONVERTING HYDROCARBON OILS

William J. Degnen, Cranford, Henry M. Nelly, Jr., Jersey City, and Percival C. Keith, Jr., Peapack, N. J., assignors to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware

Application April 2, 1938, Serial No. 199,702
9 Claims. (Cl. 196—52)

1. In a process for the catalytic conversion of hydrocarbons by passing the hydrocarbons in the vapor phase through a reaction zone filled with catalyst granules and maintained at a temperature suitable for the desired conversion, the improvement which consists in withdrawing used catalyst from said zone at suitable intervals during the reaction and replacing catalyst thus withdrawn with active catalyst, thereby maintaining the volume of catalyst in said zone and the average activity thereof substantially constant throughout the reaction, and maintaining a con-

fined zone containing a supply of active catalyst and a similar zone containing an accumulation of used catalyst, each respectively associated with



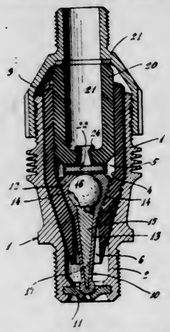
the catalyst replacement and withdrawal portions of the reaction zone, under an inert gas pressure greater than the pressure of said reaction zone.

2,350,731

SPARK PLUG

Slobodan M. Dobrosavljevitch, Belgrade, Yugoslavia; vested in the Alien Property Custodian

Application June 25, 1940, Serial No. 342,325
In Yugoslavia June 30, 1939
7 Claims. (Cl. 123—169)



1. A spark plug comprising a hollow central electrode filled in its interior with a highly thermally conductive material, said electrode having a voluminous head-part and adjacent a tapered end-part, an insulator for said electrode having a seat for the head part of said electrode, and means pressing said head-part of the electrode against the seat of said insulator.

2,350,732

COATING COMPOSITION AND ADHESIVE RESULTING THEREFROM

Richard Gurley Drew, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application June 10, 1933, Serial No. 675,290
1 Claim. (Cl. 106—287)

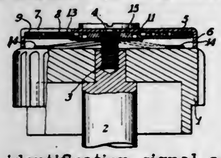
A viscous composition of matter adapted for use as an adhesive comprising an aqueous adhesive composition and a substantial proportion of a water-insoluble, unsaponifiable, readily volatile, organic liquid emulsified with the aqueous adhesive, the said organic liquid being substantially non-reactive with the adhesive composition.

2,350,733

FILM IDENTIFICATION SIGNAL

Henry O. Drotning, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 26, 1942, Serial No. 459,856
2 Claims. (Cl. 116—133)



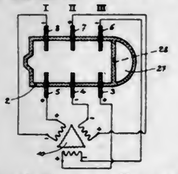
2. A film identification signal adapted to be mounted on a film transport knob of a camera, comprising a shallow housing concentric with and substantially covering the top of said knob and having an opening near its periphery, a stud fixedly securing the housing to the knob, a disk revoluble on the stud within the housing and bearing film-identifying characters visible singly through said opening in the housing upon rotation of said disk to a desired position, and means tending to retain the disk in a selected position, the periphery of the disk being accessible through the opening in the housing so that said disk may be manually rotated.

2,350,734

METHOD AND FURNACE FOR ELECTRICALLY MELTING GLASS

François Dumarest, Lyon, Rhone, France; vested in the Alien Property Custodian

Application April 10, 1942, Serial No. 438,410
In France October 23, 1940
6 Claims. (Cl. 13—6)



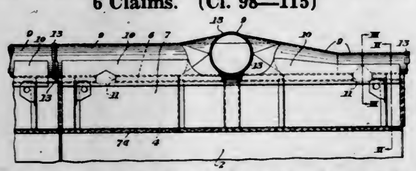
1. A method of electrically melting glass in a tank or basin having pairs of facing electrodes disposed substantially horizontally and inwardly shiftable through opposite walls of its periphery, comprising the step of so feeding current impulses individually from independent similar circuits to said pairs of electrodes by leads arranged substantially horizontally in parallelism thereto and to the surface of the glass that the parallel currents through said leads exert electrodynamically an attractive force promoting the circulation of the glass being melted in the tank.

2,350,735

EXHAUST APPARATUS

Klaus Egge, Mount Lebanon, Pa.

Application April 27, 1942, Serial No. 440,736
6 Claims. (Cl. 98—115)



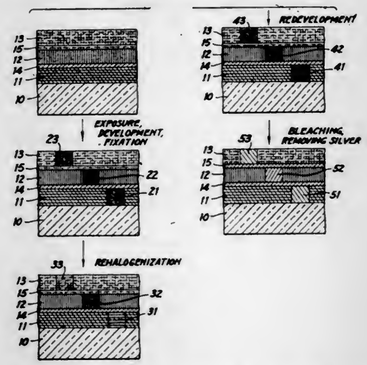
1. Exhaust apparatus for a processing line having a tank or the like comprising a plurality of hoods resting on said tank, a duct disposed within and extending through the ends of one of said hoods, and means at the ends of said duct for connecting it to the adjacent end of the duct of an adjacently disposed hood.

2,350,736

METHOD OF PRODUCING DYE IMAGES

George Ehrenfried, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 10, 1942, Serial No. 450,386
13 Claims. (Cl. 95—88)



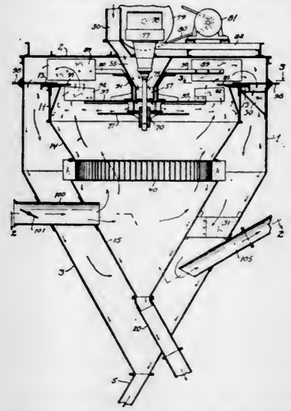
1. The method of forming a colored image in a photographic layer containing uniformly dispersed therein a dye bleachable with a reducing bleach bath under influence of a silver image and a silver image, which comprises rehalogenizing said silver image, converting said rehalogenized image to a silver image, and without intervening treatment, bleaching the dye in the region of the freshly reveloped silver image with a reducing bleach bath.

2,350,737

APPARATUS FOR TREATING CEMENT

Michael A. Eiben, Cleveland, Ohio

Application April 1, 1942, Serial No. 437,181
3 Claims. (Cl. 209—139)



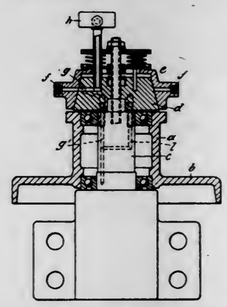
1. In an apparatus of the character described, the combination of two casings one within the other and spaced therefrom to leave an annular space between them, separate discharge conduits from the respective casings, an open tubular conduit extending from the outside across the annular space between the casings into the inner casing and adapted to deliver outside air, a rotary distributing member in the upper portion of the apparatus and means for feeding material into the central region of such upper portion, whereby the material may be thrown outwardly and the heavier materials descend on the inner wall of the inner casing, means for moving the air entering through the open passageway from the outside to cause it to pass upwardly across the stream of outwardly moving materials and then with the entrained lighter materials to pass downwardly into the annular space between the two casings, a discharge conduit for dust-laden air leading from the space between the casings, and a dust collector with which the discharge conduit communicates.

2,350,738

SHOE AND BOOT PASTING PRESS WITH CIRCULATING PRESS MOLDS

Arno Erbe, Freital, near Dresden, Germany; vested in the Alien Property Custodian

Application January 8, 1941, Serial No. 373,679
In Germany March 4, 1940
2 Claims. (Cl. 12—37)



1. A shoe and boot pasting press for use in connection with a plurality of circulating individual pasting devices or molds to be moved from a pasting place to a withdrawal place, comprising, in combination with said devices or molds, means for supplying an agent under pressure to the consecutive pasting devices or molds at the pasting place; means for relieving the said devices from the pressure at the withdrawal place, a pressure gauge for use in connection with all pasting devices or molds and for after-examining the pressure existing in the said devices or molds while these are being moved from the first-mentioned place to the place mentioned in the second case, and means for establishing a communication of the pasting device or mold concerned at the time being with said pressure gauge.

2,350,739

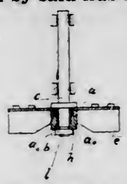
CENTRIFUGAL FAN

Ferdinando Ferré, Milan, Italy; vested in the Alien Property Custodian

Application August 16, 1939, Serial No. 290,346
In Italy August 27, 1938
4 Claims. (Cl. 230—134)

4. In a rotor for a centrifugal fan having hub means secured upon a rotatable shaft and a plurality of spaced fan blades projecting radially from said hub means, the combination of a sheet

metal disk projecting from said hub means in a plane which is perpendicular to the axis of said shaft and said disk having a diameter substantially equal to the extreme extension of said fan blades from the opposite sides of the hub means, the fan blades being substantially plane, symmetrical sheet metal blades extending through elongated radially disposed slots in the disk from both sides of said disk, said elongated slots extending outwardly from an open central area in the disk occupied by said hub means and dividing



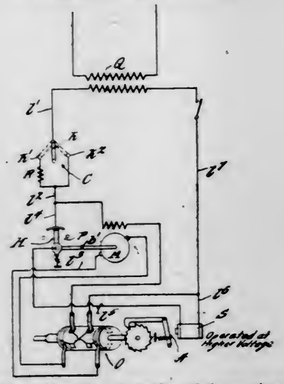
the major portion of the disk into a group of segments each of which has a stamped or bent integral retaining means disposed in the axial direction adjacent to and secured upon said hub means, and there being retaining means disposed upon the inner end of each fan blade at an angle to the general plane thereof for engaging with and being retained by the hub means, said hub means having slotted portions for receiving the retaining means of the disk segments and of the blades.

2,350,740

ELECTRICALLY DRIVEN TOY VEHICLE

Oswald Fischer, Nuremberg, Germany; vested in the Alien Property Custodian

Application October 9, 1940, Serial No. 360,486
In Germany September 4, 1939
1 Claim. (Cl. 172—179)



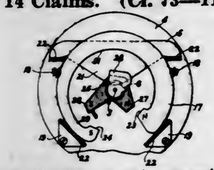
In a system for electrically driven toy vehicles an electric circuit including a driving motor and a switch magnet having an armature, means urging said armature to inoperative position, means for applying relatively high and low voltage to said circuit, said magnet being operable to move said armature to operative position only on application of said high voltage, and means operable when said motor has started for interrupting current through said switch magnet, said last named means including a fixed contact, a shaft movable with the motor, a contact arm frictionally mounted on said shaft and adapted to engage said fixed contact and to be moved by movement of said motor away from said fixed contact, and means urging said arm into engagement with said fixed contact.

2,350,741

INDICATING INSTRUMENT HAVING MAGNETIC BIASING MEANS

George E. Ford, Rochester, N. Y., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y., a corporation of New York

Application December 23, 1942, Serial No. 469,879
14 Claims. (Cl. 73—110)



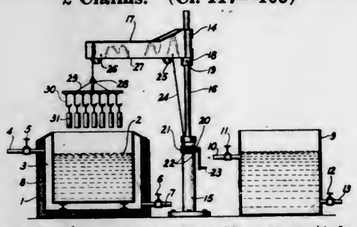
13. In an indicating instrument, the combination with a pressure operated diaphragm, a crank shaft operated thereby, a gear segment mounted for operation by the crank shaft, an oscillatory arbor, a pointer mounted thereon, and a pinion fixed on the arbor and driven by said gear segment, of an arc-shaped stationary magnet extending around the arbor through more than 180° and provided at its forward and rear ends with poles of opposite polarity, and a movable magnet mounted on the arbor and having a plurality of poles of opposite polarity spaced approximately 90° apart, one of said last mentioned poles being movable into proximity to and attracted and repelled respectively by the poles at the forward and rear ends of the stationary magnet and the other of said poles on the movable magnet being movable into proximity to and repelled by the pole at the forward end of the stationary magnet when the pointer reaches the limit of its travel, the outer edge of the stationary magnet being concentrically related to the axis of the arbor, and the inner edge of the stationary magnet being eccentrically related to the axis of the arbor whereby the air gap between the stationary magnet and the poles on the movable magnet increases as the latter travels away from initial position.

2,350,742

GELATION COATING PROCESS

Charles R. Fordyce and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 19, 1940, Serial No. 370,853
2 Claims. (Cl. 117—103)



1. A gelation process of coating an article which comprises preparing a lacquer solution by dissolving cellulose acetate butyrate at a temperature above 50° C. in a volatile organic liquid which is a solvent for the cellulose acetate butyrate only at a temperature above 50° C. and which will give a solution which at a temperature between 10 and 50° C. will form a self-supporting gel, said liquid being composed of a mixture composed of 90–95% by weight of toluene and 10–5% by weight of a monohydric aliphatic alcohol of 2–4 carbon atoms, dipping the article in the solution maintained at a temperature above its gelation temperature,

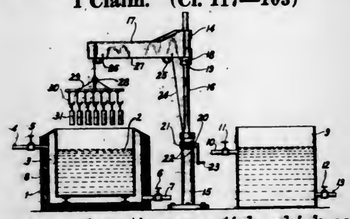
withdrawing the article from the solution, whereby a layer of cellulose acetate butyrate is deposited on the surface of the article, gelling the deposited layer by cooling to a temperature between 10 and 50° C. and removing residual solvent from the layer.

2,350,743

GELATION COATING PROCESS

Charles R. Fordyce and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application December 19, 1940, Serial No. 370,853. Divided and this application December 8, 1943, Serial No. 513,415
1 Claim. (Cl. 117—103)



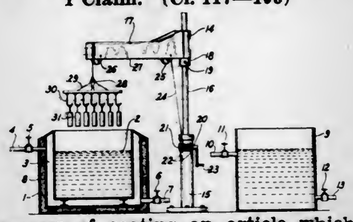
A process of coating an article which comprises preparing a lacquer solution by dissolving a gellable cellulose ester at a temperature above its gelation temperature in a solvent mixture composed of an alkylene dichloride of from 2–4 carbon atoms and an aliphatic alcohol of from 2–4 carbon atoms, coating the article with the solution above its gelation temperature, gelling the coating, and removing the residual solvent.

2,350,744

GELATION COATING PROCESS

Charles R. Fordyce and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application December 19, 1940, Serial No. 370,853. Divided and this application December 8, 1943, Serial No. 513,416
1 Claim. (Cl. 117—103)



A process of coating an article which comprises preparing a lacquer solution by dissolving a gellable cellulose ester at a temperature above its gelation temperature in a solvent composed of alkylene dichlorides of from 2–4 carbon atoms, coating the article with the solution above its gelation temperature, gelling the coating and removing the residual solvent.

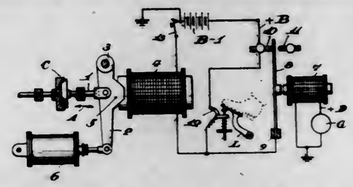
2,350,745

CLUTCH FOR AUTOMOBILES

Rudolf Fuchs, Brunn, Moravia; vested in the Alien Property Custodian

Application January 17, 1941, Serial No. 374,882
In Bohemia and Moravia February 12, 1940
8 Claims. (Cl. 192—.01)

1. In an automobile driven by an engine having an accelerator pedal, a driving mechanism comprising a clutch for the engine; electrical means for disengaging said clutch when said means is electrically energized; means for energizing said disengaging means to keep the clutch normally disengaged; means responsive to the operation of the engine for disconnecting said



energizing means, to cause said clutch to engage when the engine speed rises above a predetermined point; and means, actuated by the operation of said pedal, for disconnecting said energizing means, to cause said clutch to engage, when the pedal is operated.

2,350,746

MINERAL OIL COMPOSITION

Everett W. Fuller, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application November 26, 1941, Serial No. 420,465
4 Claims. (Cl. 252—45)

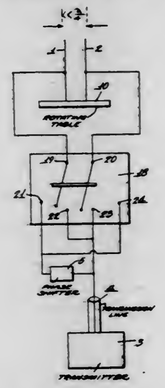
3. An improved mineral oil composition comprising a viscous mineral oil fraction and in admixture therewith a minor proportion, sufficient to inhibit the deleterious effects of oxidation upon the oil, of a compound selected from the group consisting of 4,4'-di-tertiarybutyl-2,2'-diamino diphenyl disulfide and 4,4'-diamyl-2,2'-diamino diphenyl disulfide.

2,350,747

AERIAL SYSTEM FOR RADIO BEACONS

Pierre Paul Gamet, Paris, France; vested in the Alien Property Custodian

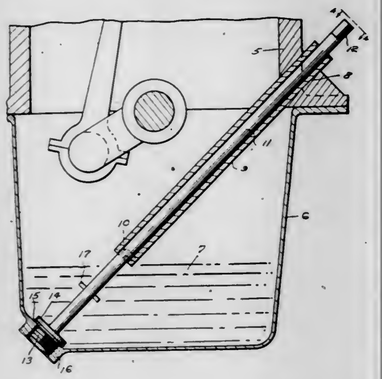
Application May 9, 1942, Serial No. 442,374
In France May 29, 1941
2 Claims. (Cl. 250—11)



1. In an aerial system for radio beacons, a pair of aerials mounted very close together, relative to a quarter wave length, a source of high-frequency oscillations, a first transmission line connected to a first one of said aerials, a second transmission line connected to a second

one of said aerials, a phase shifting impedance unit, and selective connecting means for selectively connecting either the both of said transmission lines to said source without passing through said phase shifting unit, or connecting either one of said transmission lines to said source through said phase shifting unit and at the same time connecting the other one of said transmission lines directly to said source without passing through said phase shifting unit.

2,350,748
DRAIN VALVE
Glen M. Gabel, Le Mars, Iowa
Application December 11, 1941, Serial No. 422,583
1 Claim. (Cl. 137—34)

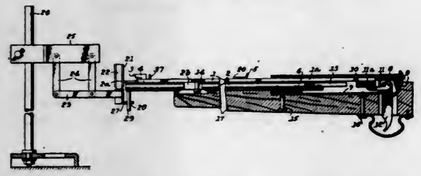


In combination, a receptacle provided with an outstanding burr in one lower corner portion thereof, said burr having a threaded opening therein, an elongated guide tube projecting into the crank case from the upper portion thereof and in alignment with said threaded bore, a shaft disposed through the guide tube and snugly fitting therein, a threaded plug at the lower end of the shaft adapted to be fed into the threaded opening when the shaft is lowered and rotated, said shaft being adapted to project above the upper end of the guide tube when the plug is located within the opening, said shaft being provided with a cross pin adjacent its lower end, said tube being formed with a bayonet slot at its lower end to receive the cross pin for holding the shaft elevated when the plug has been removed from the threaded opening.

2,350,749
PROCESS FOR PREPARING CERAMIC MASSES
Fritz Gareis, Wirges, Westerwald, Germany; vested in the Alien Property Custodian
No Drawing. Application January 9, 1941, Serial No. 373,797. In Germany January 24, 1940
4 Claims. (Cl. 106—72)

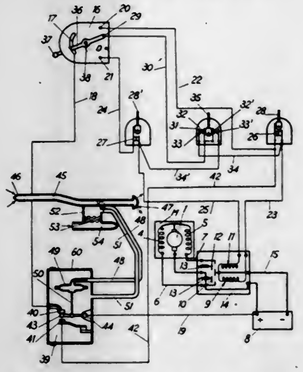
1. The process of preparing moist but not pourable ceramic masses to prevent the formation of gases from contaminations contained therein which process comprises admixing, before molding, water soluble chemical substances to the masses adapted to act in statu nascendi on gaseous products of decomposition originating from said contaminations with the formation of non-gaseous compounds.

2,350,750
AIMING APPARATUS
Albin Gerstenberger, Zella-Mehlis in Thuringia, Germany; vested in the Alien Property Custodian
Application July 7, 1941, Serial No. 401,387
In Germany September 12, 1940
4 Claims. (Cl. 35—25)



1. Aiming apparatus with a marking device to be released through the intermediary of the trigger of the aiming arm comprising a target coupled with said arm, a bar movably mounted on the barrel of the arm, a spring urging said bar in the direction of said target, a front sight and a notched rear sight on said bar, a marking needle movable in the line of sight determined by said front and rear sights, the marking needle being located outside the line of sight when the aiming arm is cocked and turnable at the front end of said bar about a pin mounted in said bar and controlled by a pressure spring mounted in said bar.

2,350,751
CONTROL MEANS FOR AIRCRAFT WING FLAPS
Carlo Gliubich, Milan, Italy; vested in the Alien Property Custodian
Application October 5, 1940, Serial No. 359,941
In Italy October 10, 1939
5 Claims. (Cl. 244—78)



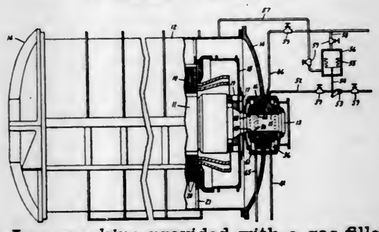
1. An arrangement for automatic control of a wing flap of an aircraft wing comprising means actuating said flap to bring it to either taking off position, normal flight position or landing position selectively from another of said positions, means for energizing said actuating means, hand actuated control means for said energizing means, automatic control means for said energizing means and means responsive to the aircraft speed and operative on said automatic control means, said automatic control means acting under the action of said speed responsive means to make said energizing means operative to bring said flap from its taking off position into its normal flight position on the aircraft speed exceeding a predetermined value and said automatic control means also including means presetting said energizing means for being made operative by said hand actuated control means to bring said flap from its normal flight position into its landing position on the aircraft speed slowing under a predetermined value.

2,350,752
PLATE FOR SECONDARY OR STORAGE BATTERIES
Ernest Graf, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa.
Application December 1, 1941, Serial No. 421,088
9 Claims. (Cl. 136—55)



1. In a storage battery plate or electrode having pencils of active material mounted on spines attached to the plate or electrode and a textile sheath constructed of acid-resisting threads and enclosing a plurality of said pencils, means for securing the sheath to the plate or electrode and the active material to the individual spines, which comprise component threads of the textile fabric interlaced at the spaces between the pencils, the same threads lying around and between a plurality of pencils.

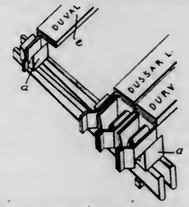
2,350,753
LIQUID SEAL
Lloyd P. Grobel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 8, 1943, Serial No. 478,362
2 Claims. (Cl. 286—9)



1. In a machine provided with a gas filled enclosing casing and a rotatable member having a shaft extending through said casing, means for providing a main liquid seal about said shaft and for substantially preventing the escape of gas from said casing about said shaft, means for supplying sealing liquid under pressure to said seal, and means for providing a second seal about said shaft responsive to failure of sealing liquid pressure supplied to said main seal comprising a liquid seal supply means axially spaced from said first-mentioned seal for substantially preventing gas blowing through said seals from said casing.

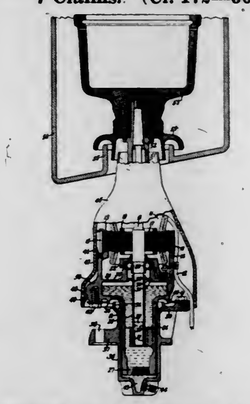
2,350,754
DEVICE FOR FILING DOCUMENTS
Raymond Arthur Eugène Guichard, Paris, France; vested in the Alien Property Custodian
Application May 4, 1940, Serial No. 333,335
In France May 20, 1939
4 Claims. (Cl. 129—16)

1. In a filing device utilizing parallel supporting rails carrying slidable support members serving to support end projections or supporting bars of folders to be suspended between said rails, the combination of two retaining edges spaced apart upon each rail for retaining the support members captive upon said rails, and undercut portions in two opposite sides of each support



member forming clearances allowing the two retaining edges of the rail to extend into said sides, the upper and lower portions of each support member extending out a sufficient distance over and under said retaining edges, respectively, to prevent accidental removal of said support member from its supporting rail.

2,350,755
DYNAMOELECTRIC MACHINE
Clarence L. Hamm, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application August 14, 1942, Serial No. 454,793
7 Claims. (Cl. 172—36)

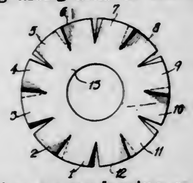


1. A vertical shaft dynamo-electric machine including a rotatable member with a vertically extending shaft and a stationary member including a supporting frame, an acid-resisting housing substantially covering said stationary member, means for supporting said housing on said stationary member, and means including a skirt member of acid-resisting material extending downwardly over the upper end portion of said housing for minimizing the entrance of foreign substances into the upper end of said housing.

2,350,756
LOCK WASHER
Gustav Willy Heinold, Leipzig, Germany; vested in the Alien Property Custodian
Application May 31, 1940, Serial No. 338,173
In Germany April 22, 1939
5 Claims. (Cl. 151—35)

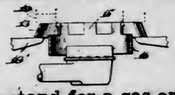
5. As an article of manufacture, a lock washer having a ring-like portion, inclined prongs projecting therefrom and formed into circumferen-

tially spaced groups, each group comprising a prong having radially extending side edges and another prong along side of the first mentioned



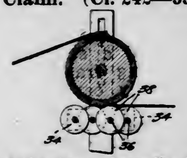
prong, said other prong having a side edge deviating from the radial direction and overlapping an adjacent side edge of the first mentioned prong.

2,350,757
STAND FOR COOKING VESSELS
Margarete Hendel, Leipzig, Germany; vested in the Alien Property Custodian
Application October 24, 1940, Serial No. 362,559½
In Germany October 17, 1938
1 Claim. (Cl. 126—214)



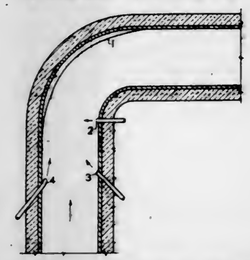
A detachable stand for a gas or similar burner, said stand comprising outer and inner substantially concentrically spaced rings, the upper edge of the outer ring being arranged to supportably engage the bottom of a cooking vessel or the like being heated over the burner, the inner ring having its upper edge depressed below the upper edge of the outer ring, circumferentially spaced angle brackets spacing and connecting the inner and outer rings with lateral arms of the brackets joined to the outer ring adjacent to its upper edge and with the lower extremity of the vertical arms of the brackets joined to the upper edge of the inner ring, the lower part of said inner ring surrounding the burner in a manner to protect the burner from material overflowing from the cooking vessel.

2,350,758
WINDING DEVICE FOR RETRACTABLE ROOFS
Hans H. A. Heuer, St. Petersburg, Fla.
Application June 12, 1942, Serial No. 446,783
1 Claim. (Cl. 242—55)



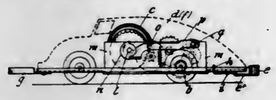
In a device of the type described, the combination of a wind-up roll, roofing attached to the roll and adapted to be wound thereon, said roofing extending laterally from the roll in two directions and being simultaneously wound on the roll through rotation of the latter in one direction, a support for said roll, said support including roller elements engageable with the roll or with the roofing convoluted thereon, and means for guiding the roll toward and away from said roller elements to compensate for variable diameters incident to winding up and unwinding the roofing with respect to the roll, said roller elements comprising a plurality of circular members arranged in partial overlapping relationship end to end.

2,350,759
TRANSPORTATION OF FINELY DIVIDED SOLIDS
Frederick B. Hilmer, Berkeley, and Norman E. Peery, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application December 28, 1942, Serial No. 470,418
10 Claims. (Cl. 196—52)



5. In a catalytic conversion process wherein a finely divided solid catalyst is contacted with vapors in a reaction zone and the partially spent catalyst is regenerated by burning off carbonaceous deposits in a separate regeneration zone and finely divided catalyst is transported to at least one of said zones at an elevated temperature through a curved conduit by means of a stream of gas, the method of reducing erosion of the conduit and reducing contamination of the catalyst which comprises intermittently wetting the conduit surface subjected to erosion while transporting said finely divided solid catalysts with a resinous bonding material whereby a portion of the transported solid material is caused to stick to the surface subjected to erosion and form thereon a protective coating.

2,350,760
TRACK FOR TOY VEHICLES
Ernst Horn, Nuremberg, Germany; vested in the Alien Property Custodian
Application August 23, 1940, Serial No. 353,973
In Germany January 22, 1940
5 Claims. (Cl. 46—201)

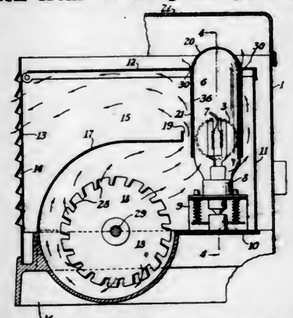


1. A toy vehicle track having two toy vehicles adapted to alternately overtake each other, each having a spring mechanism operatively engaging its driving axle, a switching device adapted to control the speed of rotation of the axle, and automatic means actuated by said spring mechanism to operate said switching device and vary the speed of the vehicle.

2,350,761
SAFETY SHUTTER FOR PROJECTORS
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 16, 1942, Serial No. 451,148
7 Claims. (Cl. 88—24)

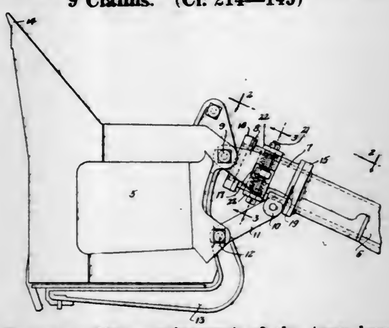
1. A safety shutter for motion picture projectors of the type including an objective, a film gate and a lamp for illuminating the film gate, the combination with said lamp, of a housing for directing air about the lamp including a restricted

area about the bottom of the lamp, a blower for supplying air to the housing through the restricted area, and a cap carried by the lamp and having a sliding fit therewith of a length to prevent illumination from reaching the gate when con-



tacting with the top of the lamp and adapted to be raised to illuminate the film gate when air from the blower passes about the lamp and cap, a stop carried by the projector for limiting upward movement of the cap.

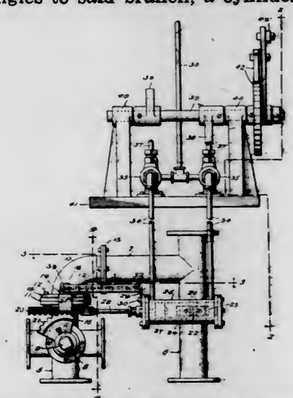
2,350,762
EXCAVATING EQUIPMENT
William M. Huston, Lima, Ohio
Application August 20, 1942, Serial No. 455,398
9 Claims. (Cl. 214—145)



1. In excavating equipment of the type having a boom, a dipper, and a dipper handle or stick, which latter is worked from the boom, a dipper supporting member rotatably mounted on the dipper handle upon an axis generally paralleling the longitudinal axis of the handle, pivot means connecting the dipper to said supporting member for movement about an axis which permits vertical adjustment of the dipper, and rake brace means extending between the dipper and said member and adapted to fix the dipper in adjusted position with respect to said member, said member with the dipper, the dipper pivot and the dipper rake brace being adapted to swivel on said handle so as to yield as a unit relative to the handle under twisting loads set up in digging.

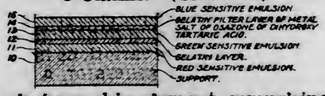
2,350,763
VALVE-ACTUATING MEANS
Stonewall Jackson, Columbus, Ga., assignor to Morton Machine Works, Columbus, Ga., a corporation of Georgia
Application March 11, 1943, Serial No. 478,801
4 Claims. (Cl. 137—78)

1. A hand mechanism of the class described comprising fluid-conducting means including two laterally spaced unidirectional reaches and a branch rigidly connecting said reaches, one of said reaches having an oscillatory valve member at right angles to said branch, one bracket secured to said one of said reaches, a second bracket secured to the other of said reaches, said brackets projecting from said reaches in a direction at right angles to said branch, a cylinder mounted

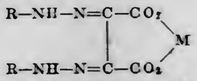


on the outer end of said second bracket and containing a piston, the outer end of said one bracket being provided with a guide substantially in alinement with said cylinder, a reciprocatory member slidably engaged at one end with said guide and connected at its other end with said piston, means operatively connecting said reciprocatory member with said valve member, and actuating-fluid-control means for said cylinder.

2,350,764
PHOTOGRAPHIC SCREENING LAYER
Edwin E. Jelley and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 5, 1943, Serial No. 474,836
8 Claims. (Cl. 95—2)



1. A photographic element comprising a support having thereon at least one light-sensitive emulsion layer, and a dispersion of a metal salt having the formula

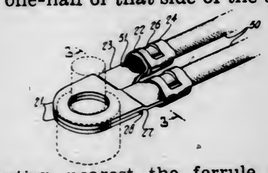


where R is an aryl group and M is a bivalent metal selected from the group consisting of calcium, barium, strontium, and magnesium, in light-transmitting colloidal film-forming material.

2,350,765
ELECTRICAL CONNECTOR
James O. Johnson, Teaneck, N. J., assignor to Aircraft-Marine Products, Inc., Elizabeth, N. J., a corporation of New Jersey
Application February 13, 1943, Serial No. 475,702
2 Claims. (Cl. 173—269)

2. An electrical connector including a terminal contact portion adapted to engage a binding post, a ferrule portion adapted to be attached onto an electrical conductor and an intermediate shoul-

der adapted to act as a stop for holding the connector in a desired alignment, said shoulder being formed between the ferrule portion and approximately one-half of that side of the terminal con-



tact portion nearest the ferrule portion, and the other half of said side presenting an edge adapted to engage and hold in alignment the shoulder of an adjacent, similar electrical connector.

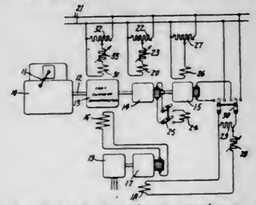
2,350,766

DYNAMOMETER EXCITATION CONTROL SYSTEM

Richard H. Kaufmann, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original application September 4, 1940, Serial No. 355,321. Divided and this application February 2, 1943, Serial No. 474,479

3 Claims. (Cl. 171—223)



1. An electrical testing system including an electric dynamometer for loading the prime mover to be tested, said dynamometer having first and second field exciting windings for controlling the speed-torque characteristics thereof, a first exciter generator having a field exciting winding and an armature member adapted to be driven at a speed proportional to the speed of said dynamometer, means for energizing said first field exciting winding of said dynamometer in accordance with the voltage variations in the armature of said first exciter generator, a second exciter generator having field producing means and an armature adapted to be driven at a speed proportional to the speed of said dynamometer, a substantially constant voltage source of electrical power supply, means for connecting said field exciting winding of said first exciter generator for energization thereof in accordance with the voltage variations in said armature of said second exciter generator and for providing excitation in the same direction as said first field exciting winding of said first exciter, and means for energizing said second field exciting winding of said dynamometer from said constant voltage source of electrical power supply for providing excitation in the same direction as said dynamometer first field exciting winding.

2,350,767

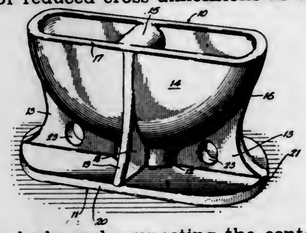
MOORING BLOCK

James P. Keating, Neenah, Wis., assignor to Neenah Foundry Company, Neenah, Wis., a corporation of Wisconsin

Application February 22, 1943, Serial No. 476,734

4 Claims. (Cl. 189—90)

1. A mooring block comprising an elongated bowl-shaped body presenting a rounded contour throughout on its under surface and having a planate rim of uninterrupted exterior contour adapted to lie flush with the surface of a concrete runway or the like, a bridge extending transversely across the upper portion of the body, a flat base spaced below the body and of greater width than the body to expose a substantial surface area below the sides of the body, a neck of reduced cross dimensions as compared



with the body and connecting the center of the body with the base, and having a drain opening through its interior and through the base, and relatively thin webs radiating from the neck and uniting the base, neck, and body, the structure as a whole being configured to permit underflowing of concrete between the bottom of the body and the top surface of the base to afford effective anchorage of the base against a substantial mass of overlying concrete.

2,350,768

PROCESS OF PRODUCING VITAMIN CONCENTRATES

Henry B. Kellog, Union City, N. J., and Harris D. Hineline, Mount Vernon, N. Y.

No Drawing. Application July 2, 1940, Serial No. 343,550

7 Claims. (Cl. 167—81)

1. The process of producing vitamin concentrates comprising in combination the steps of hydrogenating a fish oil at a temperature below 80° C., and a hydrogen pressure below 1000 lbs./sq. in. in the presence of a hydrogenation catalyst for a time sufficient to hydrogenate selectively and partially the taste and odor producing substances to materials which are substantially liquid at room temperature the said liquid being reduced by $\frac{1}{10}$ in value of the original iodine number and thereafter distilling the liquid material under short-path, high-vacuum conditions to produce a tasteless, odorless liquid vitamin concentrate.

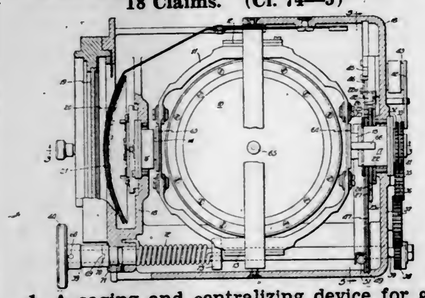
2,350,769

CAGING MEANS FOR GYROSCOPES

Vernon R. Kimball, Maywood, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware

Application April 8, 1942, Serial No. 438,200

18 Claims. (Cl. 74—5)



1. A caging and centralizing device for gyroscopic devices comprising the combination with a gyro rotor provided with a casing and adapted for spinning about one axis and supporting means including a gimbal for mounting said rotor for freedom about two mutually perpendicular axes other than said spin axis, of a member carried by and projecting from said gimbal, a second member projecting from said rotor casing, a plurality of arms pivoted about said first member, a plurality of arms mounted to engage said second member, and means for actuating said first-named arms to engage said first member and subsequently actuating said second-named arms to engage said second member.

2,350,770

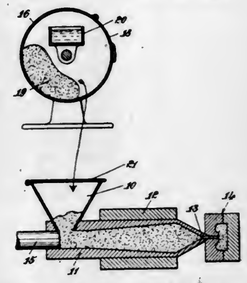
PROCESS OF PRODUCING ARTICLES BY AN INJECTION MOLDING MACHINE

Gerhard Kirchner, Roda, near Ilmenau, Thuringia, Germany; vested in the Alien Property Custodian

Application June 5, 1940, Serial No. 338,886

In Germany April 14, 1939

3 Claims. (Cl. 18—55)



1. In a process of producing injection-molded articles from waste Celluloid material, the step of tumbling the comminuted material in an atmosphere charged with vapors of a low-boiling solvent prior to transferring the mass to a compression chamber and heating the softened material to substantially 120° Centigrade, and injecting it under pressure into a mold.

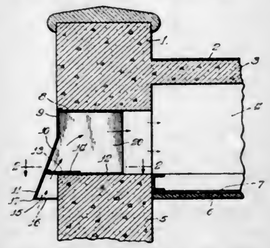
2,350,771

VENTILATOR FOR BUILDINGS

John H. Klunder, Chicago, Ill.

Application June 25, 1940, Serial No. 342,240

3 Claims. (Cl. 98—37)



1. In a ventilator system, the combination of a wall having a transverse opening, an air conduit disposed in said opening, said air conduit comprising a tubular structure having an open end in communication with the interior of the building, and having the opposite end substantially in alignment with the outer edge of the wall, the said last mentioned end provided with a hood extending outwardly and downwardly well below the bottom of said tubular structure, and a screen extending from the bottom of said air conduit in substantially horizontal plane to said hood whereby air is permitted to pass through said conduit without permitting foreign matter to pass therethrough.

2,350,772

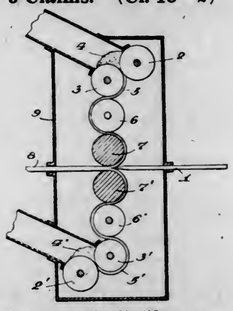
DEVICE FOR COVERING ELECTRIC WIRES

Friedrich Klute and Harry Heering, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian

Application December 10, 1938, Serial No. 245,052

In Germany December 10, 1937

3 Claims. (Cl. 18—2)



1. Device for longitudinally covering electric conductors with artificial plastic and insulating material of great tenacity, comprising two calenders each comprising a plurality of calender rolls, means for supplying the material in the raw state to said calenders respectively, two grooved rolls disposed directly adjoining each other with their grooves in registry so as to form a passage for the conductor to be covered, each of said grooved rolls being arranged in contact with a roll of a different calender to receive the calendered material therefrom, and means for feeding the bare conductor together with said calendered material through said passage between said grooved rolls to apply said material from opposite sides to said conductor.

2,350,773

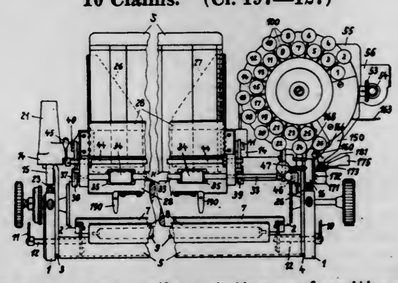
DEVICE FOR AUTOMATICALLY INSERTING AND ADJUSTING SHEETS OF PAPER IN TYPING OR PRINTING MACHINES

Werner Kniehahn and Hans Dietrich Geiser, Chemnitz, Hugo Schüler, Siegmar-Schonau, Rudolf Gerth, Wittgensdorf, near Chemnitz, and Raimund Witt, Chemnitz, Germany; vested in the Alien Property Custodian

Application November 25, 1940, Serial No. 367,134

In Germany November 29, 1939

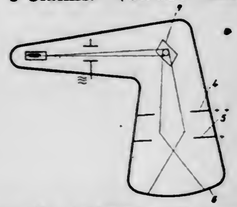
10 Claims. (Cl. 197—127)



3. In a front-strike printing and writing machine, the combination with a platen; of means

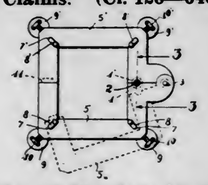
to insert work sheets different extents, downwardly in front of the platen past the printing line thereof, and to eject such sheets upwardly by line spacing increments, or at one continuous operation, irrespective of the platen, including a front feed chute; front feed rolls to which the paper chute leads the work sheets; a motor to drive the front feed rolls in a direction to insert the sheets downwardly in front of the platen; front feed roll driving mechanism interposed between the motor and the front feed rolls, including normally disengaged means to connect the motor and said driving mechanism; selective means to engage said connecting means; means also controlled by the selective means to automatically disengage said connecting means at various times, whereby to determine the extent of insertion of the front fed work sheets; means to reversely rotate the front feed roll driving means; means to latch the front feed roll driving means in the position occupied at the time of disengagement of said connecting means; and means to release the latching means.

2,350,774
IMAGE ENLARGING CATHODE-RAY TUBE
Karl Kohl, Berlin, Germany; vested in the Alien Property Custodian
Application November 26, 1940, Serial No. 367,194
In Germany October 31, 1939
5 Claims. (Cl. 250—150)



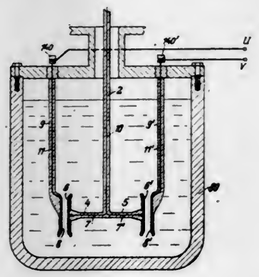
1. A device for enlarging the image produced by the oscillogram of a Braun tube, comprising a receiving screen, an intermediate screen in the shape of thin foil, means for forming an electron ray and causing the same to hit the screen and thereby release from the back an emission of secondary electrons and means for focusing said secondary electrons on said screen to produce an image of the oscillogram.

2,350,775
CANNULA HOLDER
Yoshimitsu Kono, Hiroshima, Japan; vested in the Alien Property Custodian
Application April 28, 1939, Serial No. 270,551
3 Claims. (Cl. 128—348)



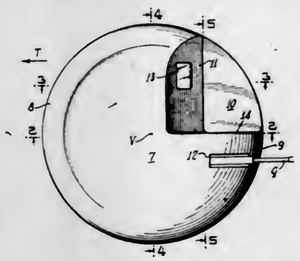
1. In a device of the class described, a frame having hingedly connected portions embodying a guiding tubular member, a locating means on the frame in operative relation to the tubular member for a preliminary contact with the surface upon which the device is to be used, and supporting legs mounted on the frame in downwardly and outwardly inclined positions with their contacting ends spreading about the end of the tubular member.

2,350,776
DEVICE FOR CONVERTING A CONTROLLING IMPULSE INTO AN ALTERNATING CURRENT IMPULSE
Adolf Krüssmann, Berlin-Friedenau, Germany; vested in the Alien Property Custodian
Application September 5, 1939, Serial No. 293,523
3 Claims. (Cl. 201—57)



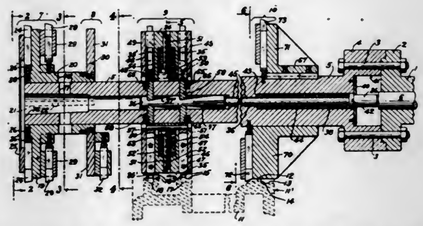
1. A liquid rheostat comprising a container of insulating material, electrode means comprising rods of insulating material having conductors embedded therein and the rods terminating in opposed disks of said material and conducting electrode plates carried on the opposed surfaces of said disks, and in contact respectively with said conductors, the edges of each plate being bent away from the opposite plate and embedded in said insulating material.

2,350,777
AIRCRAFT BACK-TURRET CUPOLA
Ettore Lanciani, Milan, Italy; vested in the Alien Property Custodian
Application September 20, 1940, Serial No. 357,514
In Italy September 25, 1939
3 Claims. (Cl. 89—36)



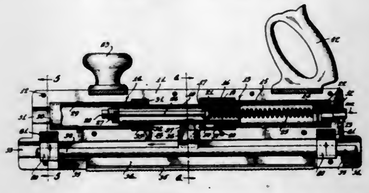
1. A cupola for an aircraft rear gun turret, comprising a walled structure having a generally circular outline adapted to be placed over the turret to cover the gun and the gunner, said cupola structure being characterized in having its wall of generally cambered shape and wherein the wall at one side of its rear portion is shaped into a reentrant depression breaking but merging with the arched general curvature of the cupola, such depression comprising a base and a steeply inclined wall or shield affording effective clear vision, the sections of the cupola in direction of travel of the aircraft, except at said depression, being of air foil contour and its sections transverse thereto except at said depression being convexly arched.

2,350,778
BORING AND GROOVING ATTACHMENT
Charles W. Lang, San Francisco, Calif., assignor to Enterprise Engine & Foundry Company, San Francisco, Calif., a corporation of California
Application April 7, 1943, Serial No. 482,169
5 Claims. (Cl. 77—58)



2. In a boring machine tool including a hollow spindle with a grooving head thereon provided with normally retracted radially slidable grooving tools adapted to be projected for internally grooving a bore, said grooving-tools being arranged in pairs spaced about the grooving-head, the tools of each pair carried in tubular holders radially slidable in sockets formed in the grooving-head, spring means normally retracting the holders and their grooving-tools inwardly to retract the tools, and manually operated means accessible at the grooving-head for positively moving said holders with their tools radially in and out.

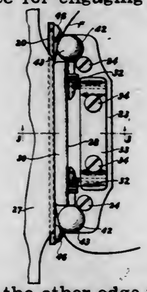
2,350,779
FILING MACHINE
Alexander Lapkoff, Washington, D. C.
Application April 30, 1942, Serial No. 441,192
7 Claims. (Cl. 29—76)



1. A filing machine comprising a housing, bearing surfaces on the underside of the housing adapted to contact the work, a file mounted in said housing and having its filing surface projecting a slight distance below the bearing surfaces, means within the housing for reciprocating said file, means providing limited vertical movement of said file, and spring means urging said file outwardly.

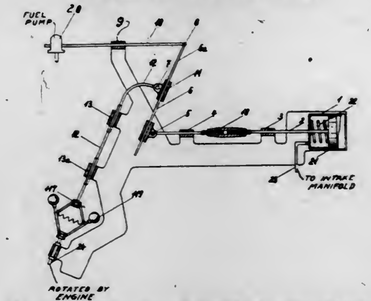
2,350,780
FILM GUIDING ASSEMBLY
Aloysius E. Lechleitner, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 3, 1942, Serial No. 467,815
9 Claims. (Cl. 88—17)

1. In a film handling apparatus, the combination with a casing, a film guideway therein for guiding a film strip in a plane and including a stationary gate member and a movable pressure means including a support having a pair of projections, and edge guiding means at one side of said guideway, of a pair of springs connected between said casing and said support for urging said movable pressure means toward said stationary gate member and having coils within which said projections are journaled, a pair of posts respectively adjacent each end of said guideway and each having a head with an inclined undersurface for engaging one edge of a



film strip to move the other edge thereof against said edge guiding means, and means operative to direct the film at the end of said guideway into edgewise engagement with said edge guiding means and said inclined undersurface whereby the film is laterally located and a snubbing action created upon the film.

2,350,781
GOVERNOR
August Lichte, Dessau-Alten, Germany; vested in the Alien Property Custodian
Application April 1, 1939, Serial No. 265,597
In Germany April 9, 1938
12 Claims. (Cl. 123—140)



1. A device for automatically regulating a fuel injection mechanism for an engine in response to variables consisting of changes in engine speed, and atmospheric and manifold temperatures and pressures which affect the operation of the engine while the engine is operating, comprising a movable control member for said injection mechanism, an element movable in response to one of said variables, means connecting said element and said member to transmit movement therebetween, and means responsive to at least one other of said variables to vary the ratio of transmission of said connecting means.

2,350,782
GREASING AGENT
Gustav Lietz, Chemnitz, Germany; vested in the Alien Property Custodian
No Drawing. Application March 24, 1941, Serial No. 384,803. In Germany March 6, 1940
5 Claims. (Cl. 252—8.7)

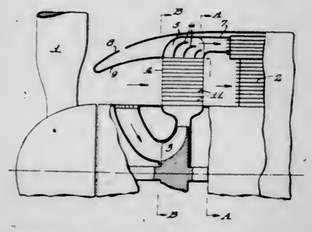
1. In a process for greasing fibers before spinning, the use of a mixture comprising a compound selected from the group consisting of bi-

valent and polyvalent aliphatic alcohols and ether alcohols, water-soluble high boiling hydroaromatic and heterocyclic alcohols, water-soluble salts of cellulose hydroxyparaffin monocarboxylic acids, and water-soluble salts of ligninsulfonic acid.

2,350,783
LUBRICATING OIL
Bert H. Lincoln, Gordon D. Byrkit, and Waldo L. Steiner, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 15, 1941, Serial No. 410,892
17 Claims. (Cl. 252—46)

1. A lubricant for metal surfaces comprising in combination a major proportion of oil of lubricating viscosity and a minor proportion of a metal salt of a partial ester of an inorganic oxygen bearing acid of an element selected from the group consisting of sulfur, selenium, and tellurium.

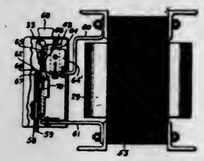
2,350,784
AIR CHARGE COOLING DEVICE
Kurt Löhner and Peter Kappus, Munich, Germany; vested in the Alien Property Custodian
Application September 26, 1939, Serial No. 296,654
In Germany September 23, 1938
9 Claims. (Cl. 123—119)



1. In an internal combustion engine having a plurality of radially positioned cylinders, in combination, a supercharger mounted co-axially in front of and drivably connected to said engine, and means for guiding and cooling the air delivered by said supercharger to the cylinders of said engine, said means being mounted over the entire front of the radially positioned cylinders and provided with a plurality of compressed air passages leading from said supercharger to said cylinders, and a plurality of longitudinal air-cooling passages open at and leading from the front of said means to the rear of said means, exiting against said cylinders, said compressed air passages being positioned in heat-conducting relationship to said cooling air passages, whereby all of the air which would otherwise be blown upon the engine must first pass through said means to cool the compressed air.

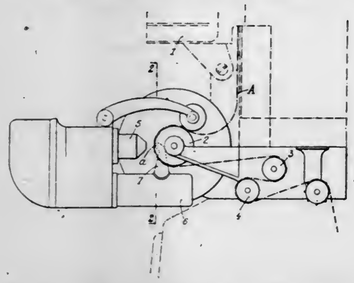
2,350,785
ELECTRIC RELAY MEANS
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application May 31, 1940, Serial No. 338,000. Divided and this application April 1, 1941, Serial No. 386,343
6 Claims. (Cl. 175—337)

1. In combination, an inductive device having a core member and a winding having differentially opposed winding sections for impressing on said core member unidirectional and alternating components of magnetization, a magnetic supporting frame in physical contact with said core structure, an armature mounted on said



frame and arranged to be actuated when the flux in said frame attains a predetermined value, and means associated with said frame including a short-circuited conductor for preventing actuation of said armature in response to alternating components of magnetization in said core.

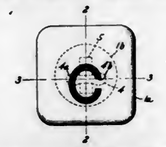
2,350,786
SOUND REPRODUCING UNIT FOR SOUND FILMS
Jacques Louis Joseph Marette, Saint Germain en Laye, and Henri Louis Burnat, Paris, France; vested in the Alien Property Custodian
Application April 22, 1942, Serial No. 440,102
In France April 24, 1941
2 Claims. (Cl. 179—100.3)



1. In a sound reproducing apparatus in combination a projection device having a film gate provided with an exposure aperture, a hollow drum positioned with a radius coinciding with the optical axis of the projection device, guiding means for causing a film having a sound track to pass over said drum with the edge of the film carrying the sound track projecting beyond the edge of the drum, a photo-electric cell spaced from said drum, and a block of transparent material having two terminal faces directed respectively towards the exposure aperture and the photo-electric cell, the terminal face directed towards the exposure aperture being normal to the optical axis and located behind the projecting edge of the film, the lateral faces of the block being provided with bends to direct the light from the inside contour of the drum to the photo-electric cell.

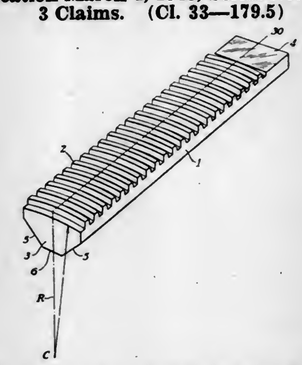
2,350,787
KEY HEAD
Hans Martin and Walter Franz, Erfurt, Germany; vested in the Alien Property Custodian
Application October 22, 1940, Serial No. 362,296
In Germany October 21, 1939
1 Claim. (Cl. 18—59)

A method of forming a key head comprising a body portion of plastic material and a character channel in the upper surface of the body portion filled with a differently colored material, which comprises molding said body portion by pressing plastic material in a mold shaped to form the exterior surface of said body portion and said character channel with a die comprising two longitudinal portions extending laterally at right angles, one of said die portions pene-



trating into communication with said character channel, thereafter inserting a core member corresponding in cross-section to the shank to be inserted in said key head into the space formed by the other of said die portions and injecting differently colored material into said character channel through the remaining space formed by the first-mentioned portion of said die.

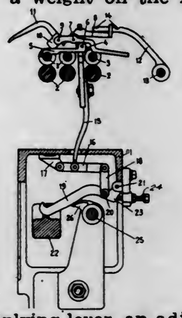
2,350,788
GEAR TESTING TOOL
Louis D. Martin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 4, 1943, Serial No. 478,043
3 Claims. (Cl. 33—179.5)



1. A tool for use in measuring the accuracy of gears comprising an elongated generally rack-shaped bar, including teeth having the form of a worm section with both transverse curvature and lead, said rack-shaped bar including a supporting portion below the teeth substantially V-shaped in cross-section, and a coupling member in the V-shaped portion of the rack-shaped bar.

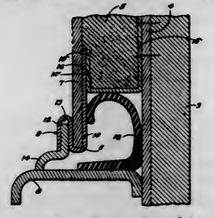
2,350,789
PRESSURE DEVICE FOR DRAWING CYLINDERS FOR FLY FRAMES HAVING THREE, FOUR, OR MORE CYLINDERS
Luigi Marzoli, Palazzolo sull'Oglio, Italy; vested in the Alien Property Custodian
Application May 22, 1941, Serial No. 394,669
In Italy June 3, 1940
4 Claims. (Cl. 19—135)

1. In a fly frame having at least three groups of double top drawing cylinders and cooperating bottom cylinders, a pressure device comprising a saddle adapted to rest on the bushes of each group of double top cylinders and constituted by two members hinged to each other, a lever locking means operated by hand to prevent said members from turning upwards on the hinged connection, a rod hooked on said saddle, a multiplying lever connected to the said rod, a second multiplying lever connected to the first mentioned lever, a weight on the free end of said



second multiplying lever, an adjustable set screw for the weighted lever, on which said lever rests when the locking means is brought into the inoperative position to release the weight pressure from the saddle.

2,350,790
TRIM FOR PLUMBING FIXTURES
J. Clarence McCarthy, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application July 31, 1941, Serial No. 404,798
13 Claims. (Cl. 72—0.5)

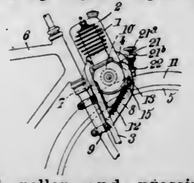


1. A trim member for plumbing fixtures comprising a web extending downwardly, outwardly, and upwardly forming a recess for the reception of the edge of a wall covering, a plate extending downwardly, inwardly and upwardly forming a plaster receiving channel, the downwardly extending portions of said plate and said web being secured to one another, a flange extending outwardly and downwardly from the upwardly extending portion of said web and forming therewith a socket for the reception of a fixture engaging member, and a fixture engaging member frictionally retained in said socket, said member having a convex portion adapted to engage the fixture and being movable to engage the fixture while frictionally held in said socket.

2,350,791
AUXILIARY MOTOR DEVICE FOR DRIVING LIGHT VEHICLES
Marcel Mennesson, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application June 12, 1941, Serial No. 397,812
In France November 12, 1940
3 Claims. (Cl. 180—31)

1. In connection with a vehicle having a frame and at least one wheel journaled in part of said frame, a motor system which comprises in combination a support fixed to said frame, a motor unit mounted on said frame, at least one driven

roller journaled in said motor unit, in frictional driving contact with said wheel, said roller being movable in a direction toward and away from said wheel, a spring interposed between said



support and roller and pressing said roller against said wheel and means preventing movement of said roller out of contact with said wheel and at the same time permitting said spring to press said roller freely against said wheel.

2,350,792

PROCESS FOR THE MANUFACTURE OF DERIVATIVES OF THE SATURATED AND UNSATURATED CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES

Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application July 16, 1938, Serial No. 219,656. In Switzerland July 19, 1937

13 Claims. (Cl. 260—397.3)

1. A process for the manufacture of derivatives of the saturated and unsaturated cyclopentanopolyhydrophenanthrene series, comprising converting an aldehyde of this series into a secondary alcohol, by reaction with an organo metallic compound.

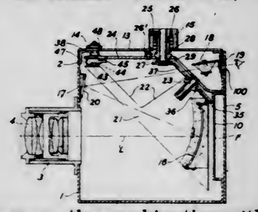
2,350,793

REFLECTING CAMERA

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 6, 1942, Serial No. 425,795

19 Claims. (Cl. 95—42)



1. In a camera, the combination with a camera body of an objective carried thereby, an exposure frame, and a movable member between the exposure frame and the objective and including a curved flange having a generation line movable into a position substantially parallel to the exposure frame, a concave reflector carried by the said flange of the movable member, said movable member being mounted to bring the concave reflector into a position adjacent to but spaced from the exposure frame.

2,350,794

FINISHING TOOL

Edward A. Millonig, Dayton, Ohio

Application December 7, 1942, Serial No. 468,161

7 Claims. (Cl. 77—73.5)

1. A tool of the class described comprising, in combination, a guide sleeve, a working member associated with said sleeve for working movement relative thereto, actuating means for effecting working movement of said working member, said actuating means comprising an actuating member movable within said sleeve on an axis substantially coaxial with the axis of the sleeve, said axes being angularly disposed with respect to the



axis of movement of the working member, said sleeve encompassing a substantial length of said actuating member, the working member extending from the sleeve in a direction laterally of the sleeve axis to a distance not exceeding the greatest dimension of the other elements of the tool in the same direction.

2,350,795

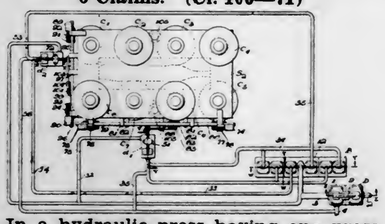
HYDRAULIC PRESS

Marius Adrien Monier, Grillon, by Valreas, France; vested in the Alien Property Custodian

Application October 28, 1942, Serial No. 463,696

In France December 11, 1941

6 Claims. (Cl. 100—71)



1. In a hydraulic press having one press element movable toward another and a plurality of actuating cylinders for said movable element arranged in a plurality of series with the cylinders of each series divided into groups, means for preventing tilting of said movable element about one axis extending between said series and about a second axis extending between said groups comprising a common source of pressure fluid for said cylinders, valve means for distributing said pressure fluid between said series, means responsive to tilting of said movable element about said one axis for actuating said valve means to cut off the supply of pressure fluid to one or the other series, additional valve means between said first valve means and each series for distributing said pressure fluid between the groups of each series, and means responsive to tilting of said movable element about said second axis for actuating said additional valve means to cut off the supply of pressure fluid to groups on one or the other side of said second axis.

2,350,796

PROCESS FOR PLASTICALLY REPRODUCING OBJECTS

Isao Morioka, Tokyo, Japan; vested in the Alien Property Custodian

Application November 20, 1940, Serial No. 366,503

In Japan March 26, 1940

2 Claims. (Cl. 41—25)



1. A method of reproducing objects which consists in arranging a plurality of cameras and projectors in a circle about a fixed, visible vertical line which is at the center of the circle of cameras and projectors, photographing the line on the plate of each camera, positioning a model so that its axis coincides with the position of the line, projecting onto the model a plurality of spaced vertical lines by means of the projectors, photographing the model having the spaced lines thereon on the plate of each camera, positioning plastic material so that its axis coincides with the position of the line, projecting the developed plate of each camera onto the plastic material from the position of the camera with which the plate was made, one series of alternate plates being projected with light of the same color which is different from that projecting the other series of alternate plates, and shaping the material by building up or cutting the material away until the light on the material projected through one series of alternate plates just cuts off that on the material projected through the other series of alternate plates.

2,350,797

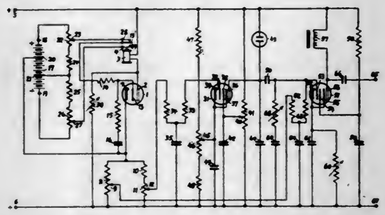
MEANS FOR PRODUCING ELECTRIC IMPULSES

Preben Morland, Gentofte, and Jorgen Adolph Smith, Copenhagen, Denmark; vested in the Alien Property Custodian

Application September 3, 1941, Serial No. 409,384

In Denmark June 21, 1940

7 Claims. (Cl. 250—36)



1. An apparatus for the treatment of nerves and muscles by means of electric impulses, comprising means for producing a succession of electric impulses, a device for generating a rhythmically pulsating current, means controlled by said pulsating current to vary the time intervals between said individual impulses, and independently adjustable means also controlled by said pulsating current to vary the amplitude of said impulses.

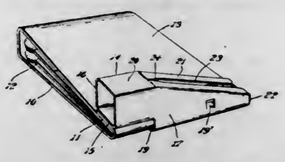
2,350,798

MATCH DEVICE

Claremont Robert Morris, New York, N. Y.

Application January 15, 1942, Serial No. 426,843

3 Claims. (Cl. 206—36)



1. A match device having side walls; a bottom wall having a length in the direction of but less than the over-all length of the device; and a top wall in part sloping from the level of the bottom wall but remote from said bottom wall to a position substantially above said bottom wall and partially overlying said bottom wall with said overlying portion of the top wall, the bottom wall and contiguous portions of the side walls forming a chimney and the sloping portion of the top wall providing means for introducing and striking a match therethrough for enabling the flame to enter and be protected from wind by said chimney.

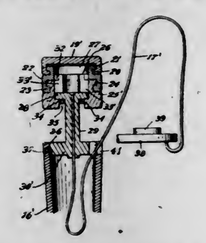
2,350,799

PORTABLE ARTICLE

Claremont Robert Morris, New York, N. Y.

Application January 26, 1942, Serial No. 428,315

2 Claims. (Cl. 70—59)



1. A portable article providing a handle having loop means secured next an end of said handle, said loop means having a discontinuity enabling the loop to be open-ended when desired to apply the same to a temporary holding member, said loop projecting in part beyond the end of said handle, and locking mechanism having a part thereof a permanent part of said loop means, said locking mechanism also having a part thereof constituting an end knob for the handle.

2,350,800

PROCESS OF PRODUCING STABLE AQUEOUS WAX EMULSIONS

Adalbert Müller, Augsburg, Germany; vested in the Alien Property Custodian

No Drawing. Application May 8, 1941, Serial No. 392,534

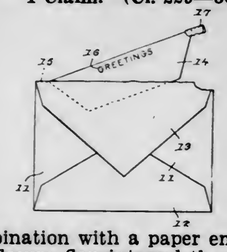
6 Claims. (Cl. 252—311.5)

2. Process for producing an aqueous emulsion which is stable in concentrated and in dilute condition free from protective colloids, which consists in intimately mixing a perchlorethylene solution of a wax having an acid number of from 50 to about 85 and consisting essentially of esters of high molecular fatty acids with at least 22 carbon atoms, with an aqueous solution of a water soluble basic organic salt of aluminum.

2,350,801
SEED CULTIVATION
Béla Németh, Keszthely, Hungary; vested in the Alien Property Custodian
No Drawing. Application March 8, 1941, Serial No. 382,458. In Hungary March 9, 1940
3 Claims. (Cl. 47—58)

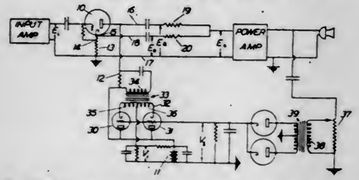
1. The method of growing a winterproof crop directly from beet seeds which comprises obtaining beet seeds characterized by unusually high content of dry substance by selective culture over several generations, sowing the seeds in the late summer in a furrow in the ground sufficiently deep to protect the seed from direct sunlight and cold winds, shielding the resultant seedlings in the autumn before the advent of the winter frost against the effects of the sudden variations in temperature characterizing the wintertime, and retaining the seedlings in the ground throughout the winter and until maturing of the seed crop.

2,350,802
RIP ENVELOPE
Harry I. Nevin, Sr., Anderson, Ind.
Application December 8, 1941, Serial No. 422,165
1 Claim. (Cl. 229—86)



In combination with a paper envelope having a folded closure flap integral therewith along a fold line, an elongated piece of fabric folded longitudinally and having its fold fitted against the inner side of the flap fold, and a line of stitching extending the full length of the flap fold line and the fabric fold to secure the latter to the flap fold so that the fabric and the line of stitching may be pulled through the flap fold to rip the envelope open, the said folded fabric being of trapezoidal shape so that the portion at the fold line can be extended adjacent to the ends of the envelope flap fold and the side portions of the fabric disposed within the envelope.

2,350,803
AUTOMATIC VOLUME CONTROL
Robert D. Newcomb, Los Angeles, Calif.
Application June 18, 1941, Serial No. 398,654
13 Claims. (Cl. 179—171)



1. A volume control circuit which includes: an electron tube having at least three elements; a source of plate voltage; a resistance connected in series with said source of plate voltage and the plate of said tube; a second resistance connected in series with said source of plate voltage and the cathode of said tube, said second resistance being relatively small compared to said first resistance; a third resistance having one of its terminals connected to the plate of said tube; a fourth resistance having one of its terminals connected to the cathode of said tube, and its other terminal connected to the other connection of said third resistor; and means for varying the value of said first resistor whereby the output through said third resistor may be changed, the output through said fourth resistor cancelling a portion of the output through said third resistor.

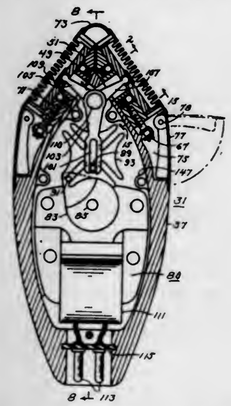
2,350,804
DERIVATIVES OF HESPERIDIN AND PROCESS FOR PREPARING THE SAME
Masaki Ohta, Osaka, Japan; vested in the Alien Property Custodian
No Drawing. Application August 26, 1940, Serial No. 354,330. In Japan July 22, 1939
5 Claims. (Cl. 260—210)

4. The hesperidin compound of the formula

$$C_{28}H_{33}O_{15}.COOR$$

wherein R represents a lower alkyl radical, said compound being readily soluble in water and being useful for therapeutic purposes.

2,350,805
ELECTRIC RAZOR
Bror G. Olving, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application May 24, 1943, Serial No. 488,281
11 Claims. (Cl. 30—43)

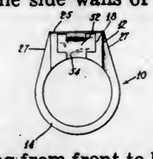


1. An electric razor comprising a handle casing, a driving means in said casing, a pair of shaving heads at one end of said handle at opposite sides thereof extending longitudinally of the handle casing angularly relatively to each other and to the longitudinal axis of the handle casing and mechanical means connecting said driving means and said shaving heads to cause longitudinal reciprocatory movement of parts of said heads.

2,350,806
FINGER RING
Elizabeth Palliser, New York, N. Y.
Application November 19, 1942, Serial No. 466,214
8 Claims. (Cl. 63—15)

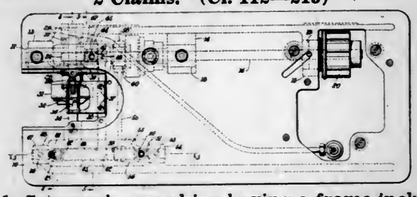
1. A finger ring having an enlarged hollow head, a chamber within said hollow head having

a lateral opening thereinto, and a pair of opposing tracks in the side walls of the chamber, the



tracks extending from front to back of the chamber, being substantially wider at the rear thereof than at the front.

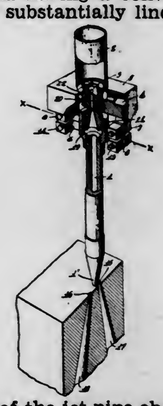
2,350,807
FEEDING MECHANISM FOR SEWING MACHINES
Frank Parry, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 17, 1943, Serial No. 502,731
2 Claims. (Cl. 112—215)



1. In a sewing machine having a frame including a work-support, in combination, a rotary actuating shaft disposed below said work-support, feed-advance and feed-lift actuating eccentrics carried by said shaft, a feed-advance rocker fulcrumed upon an axis substantially parallel to the axis of rotation of said actuating shaft and having arms extending in opposite directions from the fulcrum-axis of said rocker, a feed-bar having one end thereof pivotally connected to one of the arms of said feed-rocker, a work-advancing feed-dog carried by said feed-bar, a feed-advance pitman having one end pivotally connected to the other arm of said feed-rocker, said feed-advance pitman having at its other end a strap embracing said feed-advance eccentric, a feed-lift pitman pivotally connected to the end of said feed-bar remote from said rocker and having a strap embracing said feed-lift eccentric, a rotary loop-taker disposed between said feed-advance rocker and said feed-lift pitman, a loop-taker shaft journaled below said work-support for rotation about an axis substantially parallel to the line of feed and disposed above the level of the axis of rotation of said actuating shaft, and loop-taker driving connections between said rotary actuating shaft and said loop-taker shaft.

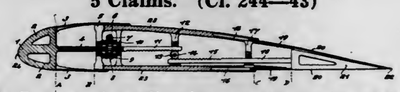
2,350,808
JET-PIPE RELAY
Paul Peglau, Berlin-Steglitz, Germany; vested in the Alien Property Custodian
Application March 1, 1940, Serial No. 321,769
In Germany February 24, 1939
1 Claim. (Cl. 285—92)

In combination in a joint for jet pipe relays, a pressure fluid supply conduit and a swingably mounted jet pipe, a chamber in the outlet end of the supply conduit and a chamber in the input end of the jet pipe, a packing body having a channel for the passage of pressure fluid seated in said chambers and being freely movable therein, said packing body being held in sealing contact with an inner wall of one of said chambers by the pressure of said fluid, said body adjacent the jet pipe end having a convex outer wall to provide only a substantially linear contact with



the inner wall of the jet pipe chamber, the packing body and the chamber against which it is held in sealing contact by the pressure fluid being adjustable relative to the axis of deflection of the swingably mounted jet pipe.

2,350,809
WING FOR AIRCRAFT WITH A VARIABLE SURFACE
Giovanni Pelessoni, Udine, Italy; vested in the Alien Property Custodian
Application September 27, 1940, Serial No. 358,731
In Italy September 16, 1939
5 Claims. (Cl. 244—43)

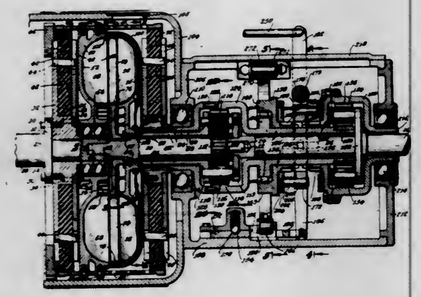


1. In an aircraft wing structure in which a movable leading portion and a movable trailing portion are provided upon a fixed central wing body whereby the wing surface may be varied by extending and retracting the two movable portions, a mechanism for extending the two movable portions mounted on the central wing body and comprising, a shaft extending longitudinally of the wing and carrying a worm gear, a cooperating gear meshing with said worm gear and adapted to be rotated thereby, said cooperating gear having a threaded central opening, means pivotally supporting said cooperating gear, a threaded shaft extending through the threaded opening in said cooperating gear and having a threaded engagement therewith, a rack fixed to said threaded shaft in alignment therewith, an idler gear rotatably mounted on a pivot fixed to the central wing body and meshing with said rack, a second rack meshing with said idler gear and having a longitudinal extension, and means connecting said threaded shaft and its rack with one of the movable portions and said second rack and its longitudinal extension with the other of said movable portions.

2,350,810
FLUID DRIVE TRANSMISSION
Albert D. Pentz, New Brighton, Staten Island, N. Y.
Application December 4, 1941, Serial No. 421,530
34 Claims. (Cl. 74—189.5)

1. In a power transmission, a driving shaft, an impeller, means for securing said impeller to said

shaft for rotation therewith, a drum carried by said impeller, an intermediary shaft coaxially aligned with said driving shaft, a flanged sleeve on said intermediary shaft, an impelled member carried by said sleeve, a runner intermediate said impeller and said impelled member carried by said intermediary shaft and driven by said impeller, a planetary gear assembly having a sun gear mounted on said intermediary shaft for rotation therewith, a driven shaft in prolongation of said driving and said intermediary shafts, a spider carried by said driven shaft, pinions in mesh with said sun gear pivoted in said spider and in the flange of said flanged sleeve, a hollow shaft coaxial with said driven shaft having a portion of extended diameter for housing said



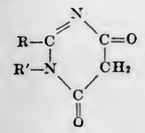
gear assembly, an internal ring gear secured to said hollow shaft within said extended portion in mesh with said pinions, a radially expansible member responsive to centrifugal forces created by the rotation of said driven shaft carried by said hollow shaft and engageable with said drum, an over-running clutch having an outer member and a cooperating inner member, said inner member being secured to said hollow shaft for rotation therewith, a sun gear carried by said hollow shaft, pinions carried by said driven shaft in mesh with the last mentioned sun gear, a housing rotatably mounted on said driven shaft, an internal ring gear on said housing in mesh with said last mentioned pinions, and means for selectively holding said outer clutch member or said last mentioned ring gear against rotation.

2,350,811
PROCESS OF ARTIFICIAL DIGESTION OF ALBUMINOID AND FATTY SUBSTANCES
Maurice Percheron, Paris, France; vested in the Alien Property Custodian
No Drawing. Application March 17, 1939, Serial No. 262,567. In France March 22, 1938
6 Claims. (Cl. 99—14)

1. A process for the production of assimilable substances by the artificial digestion of albuminoid and fatty substances, comprising first comminuting the latter and then subjecting them to the action of a proteolytic enzyme in the presence of means for protecting the substances undergoing the artificial digestion from undesired bacterial actions, said means including a solution of magnesium polysulfide in admixture with a substance having an oxidizing action under the reaction conditions, a phenylamino compound and a member of the group consisting of chloroform and its homologs.

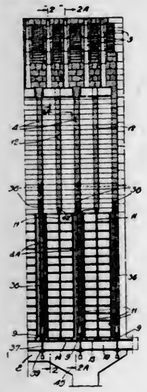
2,350,812
DIKETOPYRIMIDINE COUPLER
Willard D. Peterson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 21, 1942, Serial No. 466,476
8 Claims. (Cl. 95—88)

1. A color-forming photographic developer, comprising a primary aromatic amino developing agent and a coupler compound having the probable formula:



where R and R′ represent substituents in which R is selected from the class consisting of alkyl, aryl, and alkaryl groups, R′ is selected from the class consisting of hydrogen, alkyl, aryl and alkaryl groups, or R and R′ together represent the atoms necessary to complete a pyridine ring.

2,350,813
REGENERATIVE COKE OVEN
Nikolaus M. Philipsen, Tokyo, Japan; vested in the Alien Property Custodian
Application July 3, 1941, Serial No. 400,988
In Japan May 2, 1940
2 Claims. (Cl. 202—142)

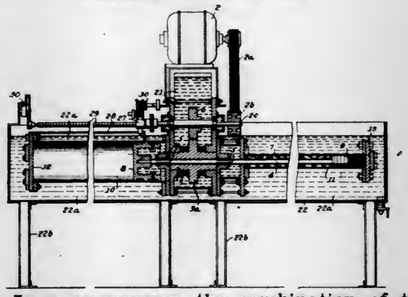


1. An underfired regenerative coke oven battery comprising a brickwork mass formed in its upper portion with coking chambers and heating walls alongside said chamber and each formed with vertical heating flues, small groups of said flues being connected together at their upper ends and said mass being formed in its lower portion with a separate regenerator space for each of said flue groups, a regenerator housing in each such space formed with vertically extending regenerator chambers connected at their upper ends to the flues of the corresponding groups, a metallic structure extending transversely of the battery beneath the lower end of the regenerator housings associated with each heating wall and supporting said housings and formed with a waste heat channel, and reversing valves mounted in said structure and controlling communication between said channel and the regenerator chambers in said housings.

2,350,814
INSECTICIDE
Hans von Philipp, Leipzig, Germany; vested in the Alien Property Custodian
No Drawing. Application July 24, 1940, Serial No. 347,311. In Germany August 2, 1935
8 Claims. (Cl. 167—22)

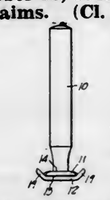
1. The process of increasing the effectiveness of insecticides which consist essentially of hexachlorethane, which comprises activating the said insecticides by adding thereto a relatively small percentage of a chlorinated aromatic compound of the group consisting of parachlorbrombenzene, chloronaphthalene and paradichlorbenzene.

2,350,815
GAS COMPRESSING PLANT
Benjamin René Planche, Villefranche-sur-Saone, France; vested in the Alien Property Custodian
Application January 27, 1942, Serial No. 428,380
In France December 16, 1940
2 Claims. (Cl. 230—183)



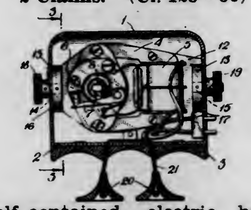
1. In a compressor, the combination of two pressure cylinders, each having an inlet port and an outlet port at one end of the cylinder, the outlet port of one cylinder communicating with the inlet port of the other cylinder; a piston in each cylinder adapted to draw fluid into the cylinder through the inlet port and drive fluid from the cylinder through the outlet port, a reciprocable member on which both pistons are mounted, means to reciprocate said member, and a liquid container so connected with each of said cylinders at the end remote from the inlet and outlet ports that the pistons draw liquid from said container into said cylinders and evacuate the liquid from said cylinders into said container.

2,350,816
SAFETY RAZOR
Joseph F. C. Przybysz, South Bend, Ind.
Application October 18, 1943, Serial No. 506,691
10 Claims. (Cl. 30—70)



3. A safety razor comprising an outer plate having a longitudinal slot defining a U-shaped guard projecting angularly outwardly therefrom, an inner plate, means for clamping said plates together, and a blade clamped between said plates and having an edged portion projecting laterally therefrom through said slot.

2,350,817
VIBRATOR
William F. Purves and Sydney P. Harris, Stamford, Conn., assignors to Schick Incorporated, a corporation of Delaware
Application October 11, 1940, Serial No. 360,736
2 Claims. (Cl. 128—36)



1. A self-contained, electric hand-vibrator comprising a base for attachment to the back of the hand, a vibratory electric motor, means for supporting the motor in various positions of angular adjustment of the plane of vibration of the motor relatively to the plane of the base, and means for locking the motor in any selected position of adjustment.

2,350,818
METHOD OF MAKING CRACKLE FINISH
George E. Rees, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.
No Drawing. Application February 8, 1940, Serial No. 317,901
2 Claims. (Cl. 117—41)

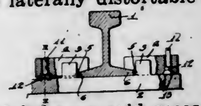
1. The method of giving a crackle finish to an article and emphasizing the crackle effect obtained which comprises applying to the article a crackle lacquer including a volatile solvent medium and starch nitrate in proportion equal at least to 6 parts for 1 part of plasticizer present and adapted to crackle on evaporation of the solvent medium, causing the solvent medium to evaporate, applying over the resulting crackle finish a hardenable glazing material of color different from that of the crackle lacquer, wiping glazing material from high spots of the lacquer, and hardening remaining glazing material in the cracks of the crackled lacquer film.

2. The method of giving a crackle finish to an article which comprises applying to the article a crackle base coat, applying over the base coat a film of crackle lacquer including starch nitrate, a substantially non-volatile plasticizer for starch nitrate and a volatile solvent medium for the starch nitrate and plasticizer, and causing the volatile solvent medium to evaporate from the applied crackle lacquer, the starch nitrate constituting at least 60% of the non-volatile material of the crackle lacquer and the said volatile solvent medium consisting principally of aliphatic acetate and liquid hydrocarbon, having an initial evaporation rate at least as rapid as that of the mixture of 20 parts of butyl acetate, 50 of ethyl acetate and 30 of toluene, and having film smoothing power substantially greater than that of ethyl acetate alone.

2,350,819
RAIL FASTENING
Valentin Retterath, Iversheim, near Munstereifel, Germany; vested in the Alien Property Custodian
Application November 4, 1940, Serial No. 364,319
In Germany December 18, 1939
8 Claims. (Cl. 238—360)

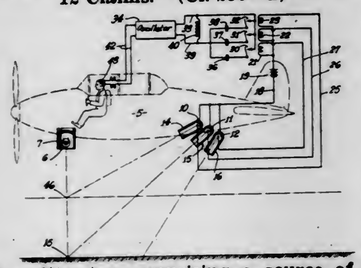
1. A rail fastener comprising a tie upon which a rail is mounted, a locking lever having one end

engaging the base of said rail, fulcrum means fixed to said tie for said lever, said locking lever having a recess at its other end at the underside thereof and a laterally distortable member nor-



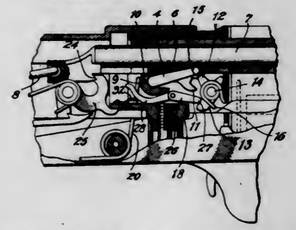
mally disposed between said recess and the tie surface and when distorted flowing between the lever and the tie so as to act upwardly on the lever to lock said rail to said tie and means for distorting said member.

2,350,820
AIRCRAFT ALTITUDE DETERMINING SYSTEM
Michael Rettinger, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application August 10, 1942, Serial No. 454,220
12 Claims. (Cl. 250—1)



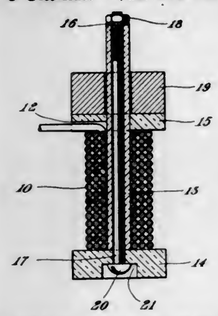
1. An altimeter comprising a source of light fixed with respect to the axis of an aircraft, means for directing said light as a beam, means for detecting said light beam at a certain position along said beam, said means being fixed with respect to said axis, said light beam being projected at a fixed predetermined angle with respect to said axis and detected by said detecting means at a fixed predetermined angle with respect to said axis, means for generating an electrical current of a predetermined frequency when said detecting means is activated, and means connected to said detecting means for audibly reproducing said electrical current at said predetermined constant frequency.

2,350,821
BOLT CLOSER FOR AUTOMATIC ARMS
Gino Revelli, Rome, Italy; vested in the Alien Property Custodian
Application December 12, 1939, Serial No. 308,845
In Italy December 21, 1938
2 Claims. (Cl. 42—4)



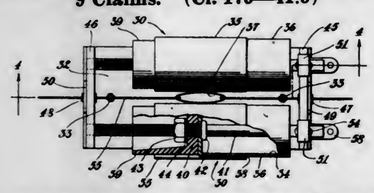
1. An automatic firearm comprising a barrel having a rear extension rigid therewith and formed with a recess, a bolt having a notch in its surface, an oscillating pawl, one end of which is pivotally mounted in said recess, and the other end which is adapted to engage in said notch to lock said extension and bolt together, a bell crank lever pivoted on and movable with said extension, one arm of said lever being constructed and arranged to engage said pawl to lock the same in locked position, a fixed stop adapted to engage the other arm of said lever during recoil movement, said pawl being formed with a downward extension adapted to be engaged by said first named arm when said lever has completed a predetermined angular movement, to remove said pawl from said notch and means biasing said lever and pawl to locking position.

2,350,822
ELECTRICALLY INSULATED ELEMENT
Preston Robinson, Williamstown, Mass., assignor to Sprague Specialties Co., North Adams, Mass., a corporation of Massachusetts
Application December 3, 1941, Serial No. 421,524
5 Claims. (Cl. 175—21)



1. An electrical coil comprising a conductor wound into adjacent turns and superimposed layers, an integral coating of a thermoplastic insulating material on the conductor, a substantially high proportion of discrete non-thermoplastic insulating particles having a melting temperature higher than that of the thermoplastic material uniformly distributed throughout the coating, bonds formed between the adjacent turns and superimposed layers, said bonds consisting of interfused portions of the thermoplastic material and extending over only part of the adjacently positioned portions of said coating.

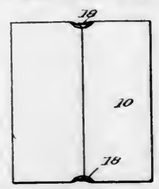
2,350,823
ELECTRICAL CONDENSER
Preston Robinson, Williamstown, Mass., assignor to Sprague Specialties Co., North Adams, Mass., a corporation of Massachusetts
Application February 4, 1942, Serial No. 429,547
9 Claims. (Cl. 175—41.5)



3. An adjustable condenser assembly comprising two condenser units, each of said units comprising a tubular electrode, a dielectric layer having a non-uniform thickness distribution forming a coating on said electrode, a tubular electrode surrounding said coating and contacting the same along a line contact and having its axis eccentrically positioned with respect to the axis of the coated electrode, a second dielectric layer having a non-uniform thickness distribution interposed between the outer electrode and the coating, means to maintain the outer electrode in contact with said coating, means to rotate the inner and outer electrodes relative to each other to vary the portion of the coating in contact with the outer electrode and to individually vary the capacity of each condenser unit, and means common to both condenser units to laterally move the outer electrode of each condenser relative to the inner electrode thereof to simultaneously vary the capacity of the condenser units.

5. An adjustable condenser comprising a tubular electrode, a dielectric layer having a non-uniform thickness distribution forming a coating on the electrode and having an outer surface substantially in the form of a right circular cylinder, a second tubular electrode surrounding said coating and having its axis eccentrically positioned with respect to the axis of the surface of the dielectric coating, a second dielectric layer having a non-uniform thickness distribution interposed between the dielectric coating and the second electrode, and means to rotate said electrodes relative to each other about the axis of the surface of the dielectric coating to vary the capacity of the condenser, said second dielectric layer remaining substantially constant in shape and form during rotation of the electrodes relative to each other.

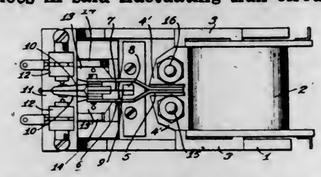
2,350,824
METHOD OF MAKING CAN BODIES
Jesús Miguel Rojo, Habana, Cuba, assignor to Continental Can Company, Inc., a corporation of New York
Application May 18, 1942. Serial No. 443,523
1 Claim. (Cl. 113—120)



The method of forming a sheet metal can body having a solderless side seam including interlocking hooked portions and lapping portions, comprising shaping the can body and engaging the hooked portions, subjecting said engaged hooked portions to pressure for interlocking the same in a tightly-formed seam, simultaneously pressing the lapped portions of the side seams into contact, one with the other, and curving said contacting lapped portions outwardly to form a partial flange and then simultaneously die-shaping the body wall and the partially formed flange into a completed seaming flange extending all away around the end of the can body.

2,350,825
POLARIZED SINGLE-COIL RELAY
Otto Römer, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian
Application February 6, 1941, Serial No. 377,720
In Germany January 13, 1940
5 Claims. (Cl. 175—339)

1. A polarized relay comprising a single-coil magnetic circuit for carrying fluctuating flux, an armature comprising a member which is forked at one end, spring means disposed in said forked end, mounting means forming with said spring means pivot means for rotatably mounting said armature at a point disposed between its ends, pole shoes in said fluctuating flux circuit form-

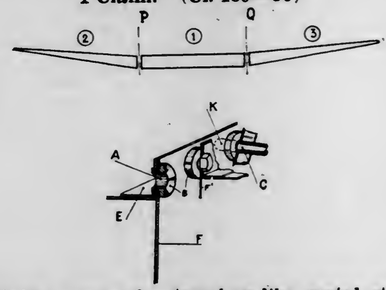


ing an air gap for receiving one end of said armature, and a permanent magnet disposed in parallel with said armature, one end of said magnet being connected with said pole shoes and the other end being disposed adjacent the other end of said armature and separated therefrom by a constant air gap.

2,350,826
ALKAMINE DERIVATIVES OF ETHERS OF p-HYDROXYMETHYL BENZOIC ACID
Victor S. Salvin, Cumberland, Md., and Arthur J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 16, 1942, Serial No. 439,234
16 Claims. (Cl. 260—471)

1. An -ester of p-di-alkylaminoalkoxymethylbenzoic acid.

2,350,827
METHOD OF ASSEMBLY OF TANKS AND THE LIKE
Raymond Saulnier, Paris, France; vested in the Alien Property Custodian
Application February 13, 1942, Serial No. 430,823
In France May 15, 1940
1 Claim. (Cl. 189—36)



Joining means for two box-like metal structures, each having a wall bent outwardly and in facial contact with an adjacent wall, means for joining said walls and said box-like structures comprising, rings each extending through the outwardly bent portion of a wall and the adjacent wall of one of the structures, said rings having flanges between which said outwardly bent portion and adjacent wall are clamped, bolts extending through said rings and through the outwardly bent portion and adjacent wall of the other structure and serving to clamp said structures together, the ring flanges between the two structures being of different thicknesses so as to fully occupy the space between the structures at the bolts.

2,350,828

CONVERSION OF HYDROCARBONS

Louis Schmerling, Chicago, Ill., and Arthur M. Durinski, Brooks Field, Tex., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 17, 1942, Serial No. 447,450
7 Claims. (Cl. 196—53)

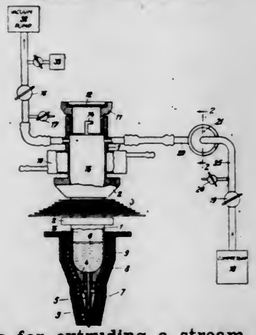
1. A process for the treatment of heavy hydrocarbonaceous materials to produce lower boiling hydrocarbons therefrom which comprises destructively hydrogenating said material in the presence of added hydrogen chloride and alumina.

2,350,829

MOLTEN GLASS EXTRUDING APPARATUS

Rudolf Scharfnagel, Stuttgart, Germany; vested in the Alien Property Custodian

Application June 14, 1940, Serial No. 340,441
In Germany May 25, 1939
1 Claim. (Cl. 49—55)



Apparatus for extruding a stream of molten glass, comprising a closed crucible having an aperture at the bottom thereof, a nozzle joined to said crucible and in communication therewith through said aperture, heating means surrounding the lower portion of said crucible and said nozzle and substantially co-extensive with said nozzle, a transparent viewing means included in an upper wall of said crucible for permitting visual observation of the contents of said crucible, heat accumulating means between said heating means and viewing means and comprising a relatively large mass of heat conducting material affixed to said crucible and in heat-conducting relation thereto, heat radiating means affixed to said crucible, adjacent said heat accumulating means and means for controllably exerting fluid pressure within said crucible for squirting predetermined amounts of molten glass from said nozzle.

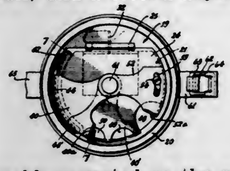
2,350,830

DRAFT REGULATOR FOR ORCHARD HEATERS

William C. Scheu, Upland, Calif.; Henrietta Scheu, W. Leland Scheu, and C. H. Dekker, executors of said William C. Scheu, deceased, assignors to Scheu Products Company, Ltd., a corporation of California

Application November 1, 1940, Serial No. 363,877
5 Claims. (Cl. 158—91)

1. In an orchard heater draft regulator, in combination with a cap provided with air-admitting aperture means, a device for regulating admission of air through said aperture means comprising: a first adjustable closure member movably mounted on the cap and movable to selected positions over a portion of the aperture means to vary the open area of the aperture means in said portion; means holding the first closure member in a selected position; and a second adjustable closure



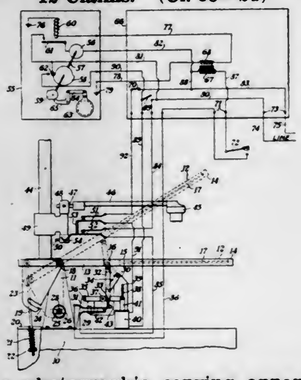
member movably mounted on the cap and movable over another portion of the aperture means to vary the open area of the aperture means in said other portion.

2,350,831

CONTROL FOR PHOTOGRAPHIC COPYING APPARATUS

Alvin E. Schubert, Elmer O. Wangerin, and John F. Egan, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 5, 1943, Serial No. 505,018
12 Claims. (Cl. 88—24)



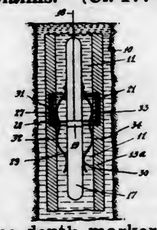
1. In a photographic copying apparatus, the combination with a camera including a motor, a pair of cams driven thereby, a normally open switch closed by one of said cams, and a shutter assembly operated by the other of said cams, a copy holder including a platen member normally in an inoperative position and movable to an operative position, a platen release means including a linkage, a holding member normally engaging said linkage when said platen member is in operative position, and a solenoid adapted when energized to disengage said holding member from said linkage and permit movement of said platen member to its inoperative position, a switch means closed upon movement of said platen member to operative position, a photosensitive device movable to an operative position in the path of movement of said platen member and movable to an inoperative position out of the path of movement of said platen member, a pair of switch assemblies closed upon movement of said photosensitive device to its inoperative position, a camera operating circuit including said motor, a camera control circuit including the platen operated switch means and one of said switch assemblies, a platen control circuit including said solenoid, said normally open switch in the camera and the other of said switch assemblies, and a master switch for closing said camera operating and control circuits.

2,350,832

ELECTRICAL DEPTH MARKER

Francis F. Segesman, Freer, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application February 21, 1941, Serial No. 379,983
4 Claims. (Cl. 177—311)



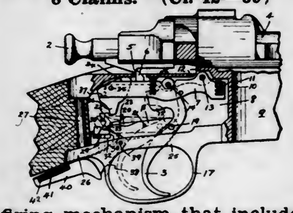
1. A reference depth marker for use in a bore hole having a metallic casing and an electrolyte therein comprising a member electrically insulated from the casing at a predetermined depth therein, said member forming a portion of the wall of the casing and being made of a metal which is dissimilar to the metal of the casing.

2,350,833

FIRING MECHANISM

John G. Seitz, San Francisco, Calif., assignor to Samuel I. Keene, Oakland, Calif.

Application November 28, 1939, Serial No. 306,481
8 Claims. (Cl. 42—69)



1. A firing mechanism that includes a finger retractable trigger, a sear, a cocking piece, a movable safety device and a stock positioned for grasping by a hand of an operator during engagement of the trigger by the trigger finger of said hand; movable means connecting between said sear, trigger, and safety device responsive to movement of said trigger for releasing the engagement between said sear and cocking piece when the latter is releasably held in cocked position by said sear, said means being also responsive to a predetermined movement of said safety device for movement to a position in which the said means is inoperative for releasing said sear from said cocking piece irrespective of said movement of said trigger, means yieldably urging said trigger to a forward position from which it is adapted to be retracted, said movable means being arranged and adapted to cause release of said sear from said cocking piece only upon movement of said trigger from retracted position to said forward position.

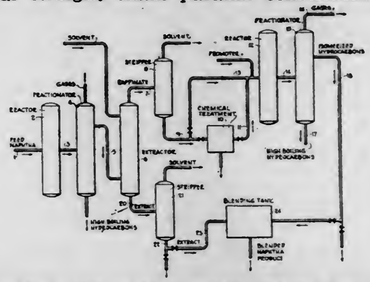
2,350,834

CONVERSION OF HYDROCARBONS

Eugene E. Sensel and Arthur R. Goldsby, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application June 18, 1941, Serial No. 398,531
4 Claims. (Cl. 260—683.5)

2. The method of isomerizing gasoline hydrocarbons present in mixtures of straight chain and cycloparaffin hydrocarbons by the action of an isomerization catalyst selected from the group consisting of aluminum chloride and aluminum bromide in the presence of hydrogen halide promoter at relatively low temperatures, which comprises removing from the feed mixture at least a substantial portion of the cycloparaffin constituents present therein, and then subjecting residual straight chain paraffin constituents to



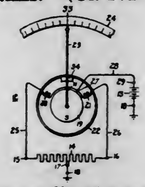
contact with the catalyst under isomerizing conditions in the substantial absence of said cycloparaffin constituents and at a temperature in the range about 100 to 130° F. such that the conversion of normal paraffin constituents to isoparaffins is substantially greater than that obtained under substantially similar conditions of reaction in the presence of said removed cycloparaffin hydrocarbons.

2,350,835

TEMPERATURE COMPENSATION FOR DIRECT CURRENT TELEMETERS

Frederick R. Sias, Marblehead, Mass., assignor to General Electric Company, a corporation of New York

Application November 21, 1942, Serial No. 466,436
2 Claims. (Cl. 171—95)



1. A receiver for a direct current telemetering system in which indications are produced by varying the relative proportions of low-temperature-coefficient resistance in two circuits, said receiver comprising a pair of copper-wire coils angularly disposed, a movable magnetic element in inductive relation to said coils adapted to deflect in response to variations in ratio of currents in said coils, and an ambient temperature compensation member composed of negative-temperature-coefficient-permeability magnetic material mounted between said coils for attracting said movable element toward a mid-position to an extent decreasing with rise in temperature.

2,350,836

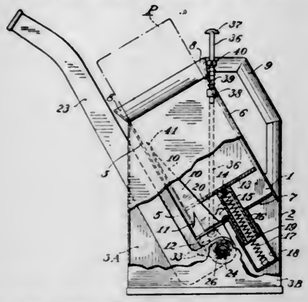
DISPENSING APPARATUS

John R. Sonneborn, Willow Grove, and Ludwig H. Lange, Rockledge, Pa., assignors to Stokes & Smith Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 23, 1941, Serial No. 416,194
10 Claims. (Cl. 222—84)

1. A dispenser comprising a receptacle for receiving a filled container, and a tool within said

receptacle having a tip for puncturing the container as it is pushed toward the bottom of the receptacle and tapered sides for extending the puncture upon further movement of the container toward the bottom of the receptacle,



means for effecting reverse movement of said container when released, and a barb on said tool outwardly tearing said container upon reverse movement thereof to enlarge the puncture to ensure rapid drainage of said container.

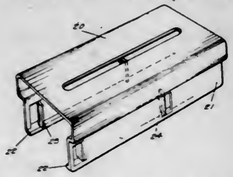
2,350,837

MAGAZINE FOR SAFETY RAZOR BLADES

Samuel C. Stampleman, Cohasset, and Joseph Muros, Cambridge, Mass., assignors to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Original application May 3, 1940, Serial No. 333,166. Divided and this application October 24, 1941, Serial No. 416,306

7 Claims. (Cl. 206—16)



1. A magazine for safety razor blades comprising an elongated enclosure having a restricted entrance defined by spaced longitudinal blade-dulling flanges, and transverse internal projections located above said flanges for engaging end edges of a blade delivered to the magazine by having its sharp edges drawn across said blade-dulling flanges.

2,350,838

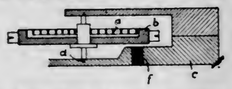
COMPENSATING DEVICE FOR WATCH BALANCES

Reinhard Straumann, Waldenburg, near Basel, Switzerland

Application April 30, 1942, Serial No. 441,194

In Switzerland February 4, 1942

4 Claims. (Cl. 58—108)



1. A device for regulating, by way of magnetic influence, the temperature-coefficient of the oscillating system of a watch movement and the like, of the type having a self-compensating, ferro-magnetic oscillating spring, said device comprising a plate on which said spring is oscillatably journaled, said plate being provided in the neighborhood of said spring with a row of seats for the reception of magnetic elements, and a magnetic element seated in each of at least some of said seats, whereby a correction of the compensating error and therewith the regulation of said oscillating system may be effected.

2,350,839

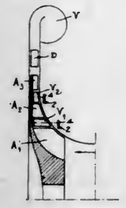
MACHINE FOR COMPRESSING GASES BY CENTRIFUGAL EFFECT

Josef Szydlowski, Saint Pé de Bigorre, France; vested in the Alien Property Custodian

Application March 8, 1941, Serial No. 382,283

In France April 8, 1940

4 Claims. (Cl. 230—114)



1. In a centrifugal turbo-compressor, a casing having an inlet port and an outlet port for the fluid, and a plurality of radially spaced concentric sets of guide blades having substantial axial and radial extent, a rotor mounted in said casing concentric with said sets of guide blades, and having a plurality of radially spaced sets of impeller blades interposed between said radially spaced sets of guide blades, each of said guide blades being adjustable about an axis parallel to the rotor axis.

2,350,840

TRANSFER PROCESS

Giuseppe Tagliabue, Monza, Italy; vested in the Alien Property Custodian

No Drawing. Application April 26, 1940, Serial No. 331,888. In Germany May 27, 1939

1 Claim. (Cl. 41—33)

A process for decorating a porous surface of an article which comprises producing the desired design on a transfer sheet by using a liquid mixture capable of penetrating the pores of the article, said sheet being impermeable to said mixture; moistening the porous surface of the article with a liquid miscible with said mixture; applying the sheet carrying the design directly to the moistened porous surface of the article so that the design is in contact with said porous surface; and applying pressure to said sheet sufficient to cause the mixture to penetrate into the pores of said surface.

2,350,841

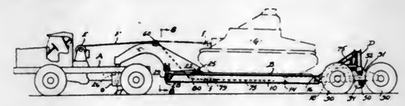
WRECK TRAILER

Herman J. Troche, Cleveland Heights, and James H. Holan, Jr., Lakewood, Ohio, assignors to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio

Application November 12, 1941, Serial No. 418,768

11 Claims. (Cl. 280—33)

5. The combination with a tractor and a trailer pivotally connected thereto of a truck removably mounted at the rear end of the platform, means on the truck to engage the platform at the rear end thereof, and means on the tractor for operating the means on the truck for simultaneously raising the rear end of the platform and pulling the platform and truck toward each other.



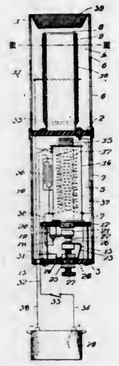
2,350,842

OZONIZER

Shozo Tsuno, Kobe-Shi, Japan; vested in the Alien Property Custodian

Application November 24, 1939, Serial No. 305,982

2 Claims. (Cl. 175—357)



1. In ozone producing apparatus, a cylindrical metal casing, a partition of insulating material dividing the interior of said casing into a first chamber and a second chamber, an end member mounted in the end of said casing and substantially closing said first chamber, a plurality of mounting posts rigidly mounted within said first chamber upon said end member, a mounting member of insulating material rigidly carried by said mounting posts in spaced relationship with respect to said end member, magnetic core means rigidly carried by said mounting member and having a pole face exposed toward said end member at the central portion of said mounting member, armature means resiliently mounted on said mounting member in cooperating relationship with respect to said pole face whereby the magnetization of said core means effects the movement of said armature toward said pole face and the demagnetization of said core means results in the movement of said armature away from said pole face, a pair of cooperating contacts one of which is mounted to move with said armature means and the other of which is mounted upon said member, means adjustably mounting said other contact and providing an electrical contact therewith comprising a threaded stud extending through said end member in alignment with said other contact and an angular leaf spring having a fixed end attached to said end member and a free end to which is rigidly attached said other contact, and induction coil means on said core means electrically connected to be energized by the engagement of said contacts with each other.

2,350,843

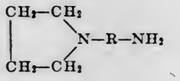
DIAZOTYPE PHOTOGRAPHIC MATERIAL

Waldemar Vanselow, Arnold Weissberger, and Dudley B. Glass, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 5, 1943, Serial No. 497,546

4 Claims. (Cl. 95—7)

1. A light-sensitive diazotype material comprising a light-sensitive diazo derivative of a compound having the general formula:



wherein R represents a benzene nucleus.

2,350,844

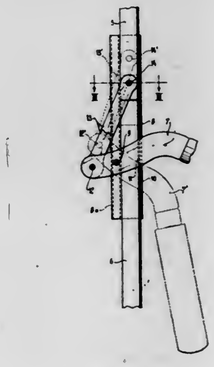
FASTENING DEVICE FOR CASEMENT WINDOWS, DOORS, AND THE LIKE

Cornelis van der Leun, The Hague, Netherlands; vested in the Alien Property Custodian

Application October 6, 1941, Serial No. 413,856

In the Netherlands January 18, 1938

4 Claims. (Cl. 292—36)



1. A latch construction comprising, means defining a latch bolt guideway, two latch bolts mounted in said guideway for sliding reciprocating movement to and from a projected latch effecting position, at least one of said bolts having an aperture therethrough, a bolt operating lever extending through the guideway and freely through the bolt aperture, said lever engaging said bolt only at the defining edges of the aperture therein, means pivotally connecting said lever to said guideway defining means, and means establishing a driving connection between a portion of said lever and said other bolt, the portion of said lever with which said last named means establishes a driving connection being on the opposite side of the pivotal connecting means from the portion which passes through the apertured bolt, whereby one of the bolts is actuated in one direction by the engagement of a portion of the lever with one of its aperture defining walls while the other bolt is actuated in another direction by the means establishing a driving connection.

2,350,845

PROCESS OF CONDITIONING WOOD FOR PRESERVATIVE TREATMENT

Joseph A. Vaughan, Atlanta, Ga., assignor to Southern Wood Preserving Company, Atlanta, Ga., a corporation of Georgia

No Drawing. Application September 19, 1940, Serial No. 357,503
3 Claims. (Cl. 117—59)

1. That method of conditioning partially air-seasoned timber for immediate preservative treatment which comprises subjecting it to a steam and vacuum treatment; then to air under pressure to trap air in and fill the cells of the dry sapwood; maintaining the pressure and also introducing water into the sapwood cells; releasing the pressure to permit the confined air to entrain and expel free moisture from the cell voids; and finally introducing the preservative before the retained fiber saturating moisture dries out.

2,350,846

PREPARATION OF CARBON BLACK

Max R. Vogel, Easton, Pa., and John W. Snyder, Scotch Plains Township, Union County, N. J., assignors to Binney and Smith Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 5, 1941, Serial No. 421,844
18 Claims. (Cl. 106—241)

1. The method of treating carbon black for use as a pigment in coating compositions included within the class consisting of drying oils and resins and containing a drier compound, which comprises applying to the carbon black an aqueous vehicle carrying an inactivating compound for rendering the carbon black less reactive with respect to the drier compound, said inactivating compound comprising an inorganic salt of chromic acid, and then removing excess moisture from the carbon black by drying.

2,350,847

PREPARATION OF CARBON BLACK

Max R. Vogel, Easton, Pa., and John W. Snyder, Scotch Plains Township, Union County, N. J., assignors to Binney and Smith Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 5, 1941, Serial No. 421,845
18 Claims. (Cl. 106—241)

1. The method of treating carbon black for use as a pigment in coating compositions included within the class consisting of drying oils and resins and containing a drier compound, which comprises applying to the carbon black an aqueous solution of an inactivating compound for rendering the carbon black less reactive with respect to the drier compound, said inactivating compound comprising a water-soluble inorganic salt of hydrochloric acid, and then removing excess moisture from the carbon black by drying.

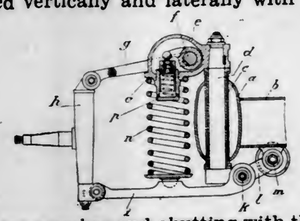
2,350,848

WHEEL SUSPENSION FOR VEHICLES

Max Wagner, Stuttgart, Germany; vested in the Alien Property Custodian

Application October 15, 1941, Serial No. 415,007
In Germany November 18, 1939
1 Claim. (Cl. 267—20)

A wheel suspension for vehicles, comprising a wheel, frame members, two guiding members for the wheel mounted one above the other, a trunnion passing through one of said frame members, a shock absorber casing supporting one guiding member and mounted on the top of the trunnion eccentrically with respect to the latter, a spring mounted vertically and laterally with respect to



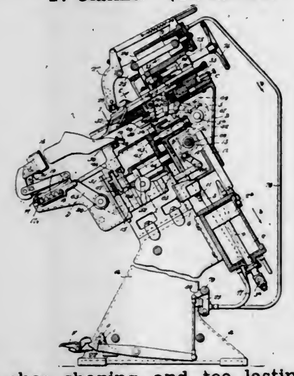
the frame member and abutting with the one end against the lower guiding member and by the other end against the shock absorber casing mounted vertically above the lower supporting surface of the spring.

2,350,849

SHOE FORMING AND TOE LASTING MACHINE

Heinrich Walther, Sr., Frankfort-on-the-Main-Oberrad, Germany; vested in the Alien Property Custodian

Application January 16, 1941, Serial No. 374,645
In Germany January 19, 1940
17 Claims. (Cl. 12—14)



1. A shoe shaping and toe lasting machine performing cementation, stretching and simultaneously toe lasting of uppers of shoes or boots, comprising movable wipers, means connected with said wipers for adjusting the same, divided pincers of similar shape as the wipers, said wipers being disposed over the pincers and adapted to close the pincers for gripping the lip of the uppers stretched on the last, a slide carrying said wipers, another separate slide carrying said pincers, and means actuating said slides.

2,350,850

PROCESS FOR THE PRODUCTION OF NITROGEN-PHOSPHORIC ACID COMPOUNDS

Rudolf Watzel, Mannheim, Germany; vested in the Alien Property Custodian

No Drawing. Application March 13, 1942, Serial No. 434,623. In Germany March 26, 1941
5 Claims. (Cl. 23—106)

1. A process for the production of nitrogen-phosphoric acid compounds which comprises reacting concentrated anhydrous phosphoric acids with urea, slowly heating the reaction mixture to a temperature of about 150° C., adding hydrogen peroxide to the mixture and thoroughly mixing therewith, and then concentrating to dryness at a temperature of about 40° C. under partial vacuum.

2,350,851

POLYAMIDE ARTICLES

Wilhelm Wehr, Eilenburg, Germany; vested in the Alien Property Custodian

No Drawing. Application January 18, 1941, Serial No. 375,092. In Germany December 15, 1939
5 Claims. (Cl. 18—55)

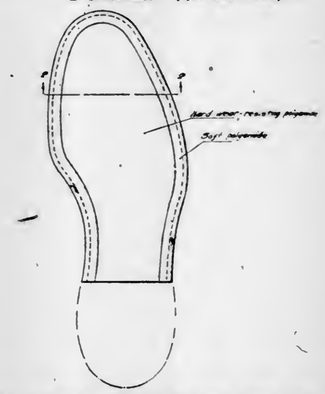
1. A process for producing foils, tubes, rods and the like from polyamides which comprises soaking a polyamide with a low boiling saturated aliphatic alcohol at a temperature of at most about 30° C., then freeing the polyamide thus treated from said alcohol not absorbed by said polyamide, subsequently fusing the alcohol-treated polyamide at raised temperature, but considerably below the melting point of the untreated polyamide, and working up the melt into the desired article.

2,350,852

FOOTWEAR

Wilhelm Wehr, Eilenburg, Germany; vested in the Alien Property Custodian

Application May 27, 1941, Serial No. 395,495
In Germany July 3, 1940
4 Claims. (Cl. 36—30)



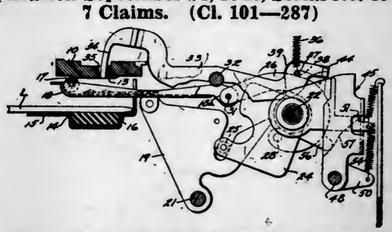
1. An outsole comprising at least two superimposed layers of polyamides which layers have different pliability and are the reaction products of different polymer-forming compositions, the tread layer being composed of a mixture of polyamide and finely divided leather.

2,350,853

VALUE PRINTING DIE PROTECTION DEVICE

Walter H. Wheeler, Jr., Linden A. Thatcher, and Francis J. Rouan, Stamford, Conn., assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware

Application September 24, 1942, Serial No. 459,474
7 Claims. (Cl. 101—287)



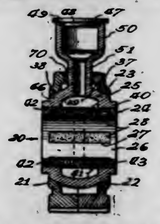
1. In a value printing device having a printing die and platen, means for effecting protection against the taking of impressions fraudulently comprising, inking means normally obstructing the printing die surface, a reciprocating drive, means connecting the inking means with the drive to effect removal of the inking means during a printing cycle of operation and return same after printing, a plunger normally withdrawn from the printing die surface in a non-obstructing position, means controlled by the drive to extend the plunger beyond the die surface before the removal of the inking means therefrom, said plunger being removable from an extended position during a printing cycle of operation and being extensible after printing, and means to prevent the return of the plunger to a non-obstructing position until the inking means returns to an obstructing position.

2,350,854

METHOD OF MAKING BUSHINGS FOR SELF-LUBRICATING BEARINGS

Kenneth E. Whiteley, Oak Park, Ill., assignor to Randall Graphite Products Corporation, Chicago, Ill., a corporation of Delaware

Application October 16, 1941, Serial No. 415,156
1 Claim. (Cl. 29—149.5)



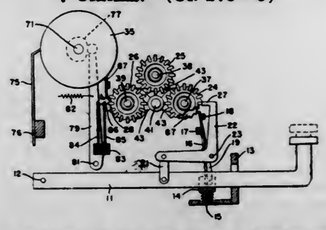
The method of making self-lubricating bearing bushings which comprises casting a substantially cylindrical bushing having a cylindrical bearing surface and an exterior substantially cylindrical surface, said bearing surface being formed with a plurality of grooves of varying depth, said grooves all having a deeper part located between the ends of said bushing, cutting an external groove in the exterior of said bushing and in alignment with the deeper portions of said grooves until apertures are formed at said deeper portions, filling said apertures and the grooves on said bearing surface with an initially plastic carbon lubricating compound and baking said compound to produce a porous lubricant conducting member to conduct lubricant from a reservoir.

2,350,855

KEYBOARD FACSIMILE TRANSMITTER

Kurt Winkelmann, Berlin-Zehlendorf, Germany; vested in the Alien Property Custodian

Application August 8, 1941, Serial No. 405,986
In Germany December 30, 1939
7 Claims. (Cl. 178—5)



1. In a telegraph transmitter, a keyboard mechanism, a storage device having a plurality of sets

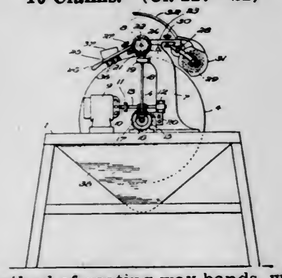
of storage elements, each element corresponding to a letter of the alphabet, means responsive to the actuation of any key to displace one element of one set of storage elements to store the corresponding letter, and means also responsive to the actuation of the key for moving the storage device to bring another set of storage elements into operative relation with said mechanism.

2,350,856

METHOD OF COATING WAX BANDS, BEARING A MECHANICAL SOUND RECORD, WITH GRAPHITE, AND A DEVICE FOR CARRYING OUT THIS METHOD

Arno Woitscheck, Porz, near Cologne, Germany; vested in the Alien Property Custodian

Application May 8, 1941, Serial No. 392,524
In Germany April 29, 1940
10 Claims. (Cl. 117—21)



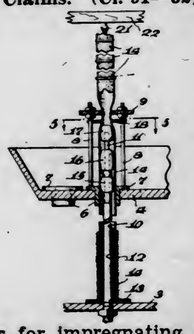
1. A method of coating wax bands, which comprises supplying graphite powder onto the recorded surface of the wax band, and uniformly polishing the said powder into position by uniform strokes each extending substantially parallel to and for the whole length of the band until the band has assumed a glossy, metallic black appearance.

2,350,857

MANUFACTURE OF ARTIFICIAL SAUSAGE SKINS

Julius Wolff, Amstenrade, Netherlands; vested in the Alien Property Custodian

Application December 2, 1941, Serial No. 421,397
In Germany May 3, 1937
13 Claims. (Cl. 91—32)



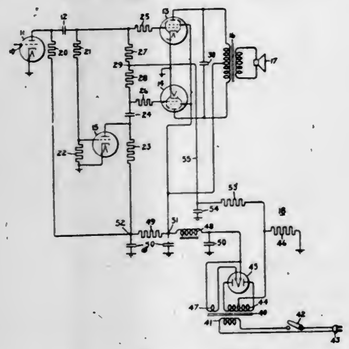
1. Apparatus for impregnating artificial sausage casings and the like comprising a pan, a series of upstanding mandrels mounted in the pan, a sleeve on each mandrel, a trough having apertures through which the mandrels project, and bushings in the apertures around the mandrels cooperating with said mandrels to form annular passageways for the travel of the casings upwardly through the trough.

2,350,858

PUSH-PULL CIRCUIT

Joseph A. Worcester, Jr., Fairfield, Conn., assignor to General Electric Company, a corporation of New York

Application March 27, 1943, Serial No. 480,784
2 Claims. (Cl. 179—171)



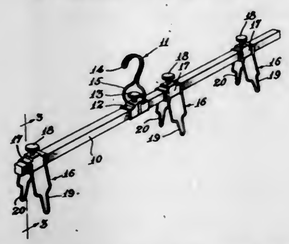
1. In a radio receiver having a source of voltage supply subject to undesired hum voltages, the combination of a pair of series connected resistances across which audio voltages are developed, a pair of amplifiers connected in push-pull, each of said amplifiers having a control electrode and a cathode, both of said resistances being connected between the control electrode and cathode of one of said amplifiers, a phase inverter having input electrodes and an output electrode, one of said resistances being connected between said input electrodes and said output electrode being coupled to the control electrode of the other of said amplifiers, and means supplying a unidirectional bias potential from said voltage source to said control electrodes with like polarity, said resistances being so proportioned that audio voltages are supplied to said control electrodes with substantially equal magnitude and opposite phase and hum voltages are supplied to one of said control electrodes by said phase inverter with opposite phase to that supplied thereto by said bias potential.

2,350,859

GARMENT HANGER

Paul H. Reckow, Chicago, Ill.

Application November 6, 1941, Serial No. 417,974
2 Claims. (Cl. 223—95)



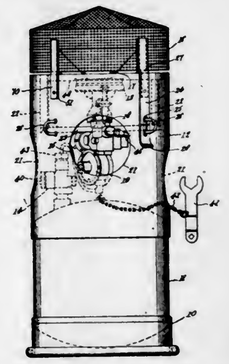
1. A garment hanger comprising, in combination, an elongated crossbar, a plurality of complemental closed sleeve members of like construction mounted on said bar with a snug sliding fit for independent sliding movement longitudinally thereof, a supporting hook on an intermediate one of said members projecting upwardly from the bar, garment engaging elements on the other of said members projecting downwardly at the other side of said bar and comprising button engaging wire loops, said members being held against rotation relative to the bar to maintain a predetermined relationship between the hook and said elements, and screw clamping means carried by each of said members operable manually to clamp the member to said bar in a selected position of adjustment, said clamping means being located on the upper walls of the members to provide access thereto for adjustment and locking of the members while a garment is supported from the garment engaging elements.

2,350,860

PORTABLE CAR HEATER

Peter A. Anderson, Portland, Maine, assignor to Utilities Distributors, Inc., Portland, Maine, a corporation of Maine

Application November 1, 1941, Serial No. 417,555
4 Claims. (Cl. 126—93)



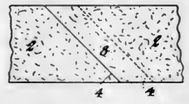
1. A heater unit comprising a fuel container, a hollow casing having one end received over the fuel container, a supporting structure removably disposed on the inside of the casing, a burner assembly carried on said structure and having a detachable connection to the source of fuel in the container, a flame guard positioned above the casing, slotted resilient arms on the guard, and keepers on the casing to detachably receive the slotted portions of said arms.

2,350,861

ABRASIVE BELT JOINT

Richard T. Argy and Carl W. Foss, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application September 24, 1942, Serial No. 459,523
8 Claims. (Cl. 51—188)



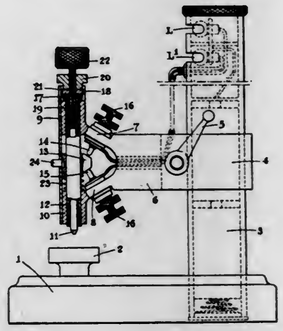
1. An endless abrasive belt of flexible abrasive coated web material having a joint formed by two adhesively joined end portions, the adhesive of said joint comprising the reaction product of a mixture comprising a major proportion of a water-soluble urea aldehyde condensation product and a minor proportion of an alkyd modifier.

2,350,862

LINEAR-DIMENSION GAUGE

Frederick Percival Ayers, Barnstaple, North Devon, England

Application September 30, 1943, Serial No. 504,482
In Great Britain December 8, 1941
5 Claims. (Cl. 33—147)



1. A gauge comprising a work support, a work-engageable feeler member and an electrical contactor member both mounted for movement toward and away from said work support, yieldable means tending constantly to move said contactor member away from said work support and effective to do so when said contactor member is unrestrained against such movement, means tending constantly to move said feeler member toward said work support under a force in excess of the force exerted by said yieldable means, an operative connection between said feeler member and said contactor member whereby the former moves the latter toward said work support when a piece of work interposed between said work support and said feeler member is of lesser than a predetermined dimension and whereby said contactor member is released for movement away from said work support by said yieldable means when said feeler member is moved away from said work support by interposition between the latter and said work support of a piece of work of greater than said predetermined dimension, a pair of spaced apart contacts one to be engaged by said contactor member upon movement of the latter toward the work support by said feeler member when a piece of work interposed between the work support and said feeler member is of lesser than said predetermined dimension and the other to be engaged by said contactor member upon movement of the latter away from the work support when a piece of work interposed between the work support and said feeler member is of greater than said predetermined dimension, separate electrical circuits controlled by engagement and disengagement of said contactor member with and from said contacts, and electrical indicators in said circuits.

2,350,863

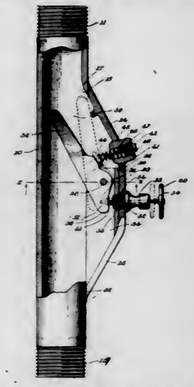
BACKSTOP NIPPLE

Burton E. Bailey, Baton Rouge, La.

Application April 1, 1942, Serial No. 437,267
5 Claims. (Cl. 166—1)

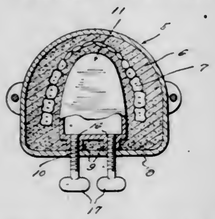
1. A back-stop nipple comprising a hollow body having an elongated opening in the wall thereof, a housing secured to the wall and enclosing the opening, a U-shaped support in the housing, said support and housing having alined and threaded passages, a stuffing box having the inner end threaded into the alined passages and securing

the support to the housing, a pin carried by the support, a latch having a body portion pivoted on the pin and fingers extending from the body at an angle to each other, a resilient



means forcing the fingers across the passage in the hollow body for obstructing said passage to prevent tools from passing through the body and means for manually moving the latch to an inoperative position in said body.

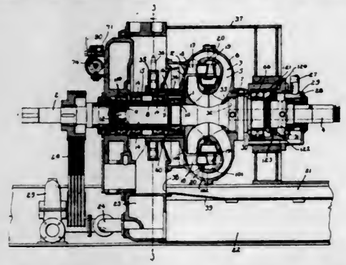
2,350,864
DENTAL FLASK
Fred T. Baldwin, Lakeland, Fla.
Application January 26, 1942, Serial No. 428,279
1 Claim. (Cl. 18—33)



The combination with a dental flask adapted for containing a mold body for an artificial denture embedded in said body for molding by submersion of the flask in heating fluid, of a hollow casing forming a heating chamber and positioned in said flask and adapted to be embedded in said body on the lingual side of said denture, and means to attach said casing in said flask and to subsequently open the same for receiving the heating fluid therein comprising a pair of threaded conduits projecting from said casing and fitting flush against one wall of the flask, said flask having a pair of threaded inlet openings therein for registration with said conduits, and a pair of thumb screws threaded through said openings and into said conduits for turning into and out of said openings and conduits at will.

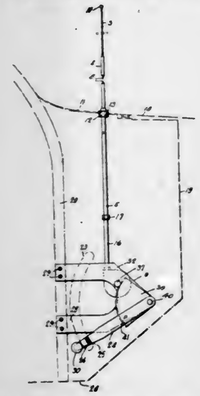
2,350,865
HYDRAULIC TRANSMISSION
Otto A. Banner, Highland Park, N. J.
Application August 22, 1941, Serial No. 407,887
5 Claims. (Cl. 60—54)

5. In a hydraulic power transmission, a hydraulic circuit consising of a primary impeller with primary shafting, a secondary wheel with secondary shafting, a guide-vane system, a cover attached to the secondary wheel and surrounding the primary impeller and the guide-vane system, a sleeve attached to the guide-vane system and having an extension to the outside of the cover, a stationary structure supporting and enclosing said hydraulic circuit and containing a plurality of hydraulic cylinders, a piston for



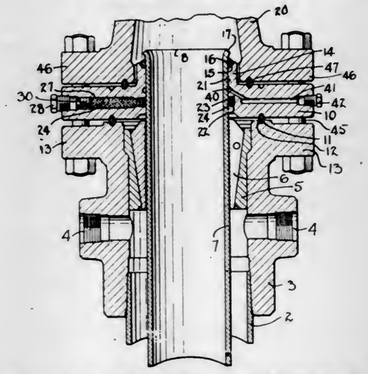
each cylinder, crossheads operatively connected with said pistons, means including a Cardan ring operatively connecting said cross heads with said extension, means supported by said stationary structure to restrain the crossheads from rotation, and means for supplying hydraulic fluid from said hydraulic circuit to said cylinders for operating the pistons.

2,350,866
ADJUSTABLE AUTOMOBILE ANTENNA
Jay E. Barth, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application January 14, 1942, Serial No. 426,755
5 Claims. (Cl. 250—33)



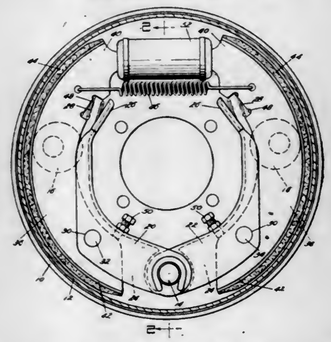
1. An actuating mechanism for an automobile radio antenna, adapted for disposition in the narrow space between the outside wall and the kick-pad adjacent the driver's position, said mechanism comprising a flat support member, the major portion of which resides in a single plane, a reel carrying a flexible driving element for the antenna secured to one side of said support member and having a rotatable shaft extending to the opposite side of said member, a small pinion on said shaft at the said opposite side of said member, a large radius gear element rotatably mounted on said member at its said opposite side and meshing with said pinion, and an operating handle attached to said gear element and adapted to extend through the kick-pad to a position readily accessible to the driver.

2,350,867
SEALING AND TESTING WELL HEAD CONNECTIONS
Ruric N. Bean, James S. Abercrombie, and Herbert Allen, Houston, Tex., assignors to Cameron Iron Works, a corporation
Application May 9, 1939, Serial No. 272,578
7 Claims. (Cl. 166—14)



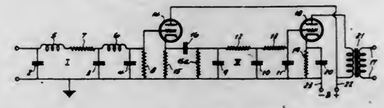
1. A well head assembly including a casing head, a member thereon including a flange, a pipe, a weld affixing said pipe in said member, means in said flange spaced from said weld to apply a pressure seal about the periphery of said pipe, and additional means, independent of said pressure seal applying means, to apply fluid under pressure about said pipe between said weld and said seal to test the weld.

2,350,868
BRAKE
Walter E. Benn, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 2, 1941, Serial No. 405,236
11 Claims. (Cl. 188—78)



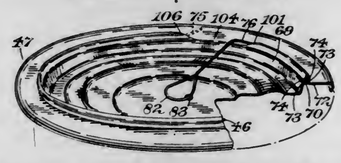
1. A brake comprising a fixed support, a rotatable drum associated therewith, a pair of friction elements for cooperation with the drum, an anchor on the support, a pair of levers pivotally mounted on the anchor, means connecting the levers to the friction elements, means directly applying an actuating force to the friction elements, compression springs interposed between the levers and the actuated ends of the elements, and means intermediate the lever-element connection and the lever anchor for setting the retracted relative position of the levers and elements.

2,350,869
FREQUENCY DEMODULATOR
Warren H. Bliss, Orono, Maine, assignor to Radio Corporation of America, a corporation of Delaware
Application September 24, 1941, Serial No. 412,089
8 Claims. (Cl. 250—27)



1. In a frequency demodulator, a constant K filter and a resistance-capacity filter coupled in series, one of said filters having means for determining the values to cause the voltage-frequency characteristics to depart from linearity in opposite directions and produce a sloping linear characteristic throughout a predetermined range of frequencies.

2,350,870
PROVISION OF RIP WIRES IN CANISTERS
Peter Bogner, Uxbridge, England, assignor to Saml. Hanson & Son Limited, London, England, a British company
Original application March 7, 1940, Serial No. 322,748. Divided and this application August 6, 1940, Serial No. 351,619. In Great Britain December 22, 1938
6 Claims. (Cl. 220—49)

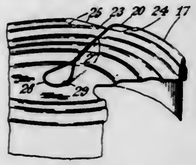


1. A closure for sheet metal containers comprising a sheet metal disc having a marginal flange adapted to be lock-seamed to a container body, said disc also having an upstanding ridge spaced inwardly of said flange, said ridge being provided by a fold in the material of the disc and including side walls, a rip wire disposed between said walls, said walls being in contact with each other on opposite sides of said wire, and said wire biting into the inner surfaces of the walls, thereby forming lines of weakening in said walls and effecting a union of the wire with the closure such as to maintain the assembly thereof during handling and lock-seaming and reinforcing the weakened ridge sufficiently to withstand the stresses incident to such treatment, said ridge being discontinuous and having at least one end sloping downwardly into the general plane of the disc, and an opening in said sloping end above said plane, one end of said wire protruding through said opening.

2,350,871
CANISTER PROVIDED WITH RIP-WIRE OPENING DEVICE
Peter Bogner, Oxford, England, assignor to Saml. Hanson & Son, Limited, London, England, a British company
Application February 15, 1941, Serial No. 379,085
In Great Britain February 13, 1940
12 Claims. (Cl. 220—49)

1. A canister comprising a body, an end-closure secured to said body, a fold extending around the canister and including side-walls

formed in one of the parts constituted by the body and end-closure to define the boundary of a portion of the canister which is to be movable to permit removal of the contents when the



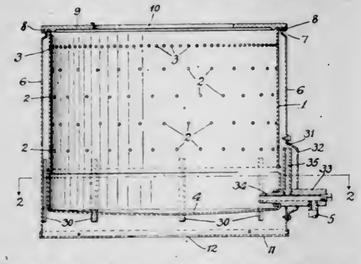
canister is opened, and a rip-wire contained in said fold, with the side-walls of the fold pressed together sufficiently to indent the rip-wire into the material of said side-walls for substantially the length of the rip wire.

2,350,872

POT TYPE BURNER

James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois

Application May 16, 1942, Serial No. 443,263
7 Claims. (Cl. 158—91)



1. In combination, in a pot type burner unit, a burner pot having a side wall provided with a plurality of air inlet apertures located at various levels therein, means for delivering a liquid fuel to the bottom of the pot, a housing surrounding the pot and defining with it a space in communication with said apertures, and vertically extending baffle means in the space between the pot and the housing adapted to constrain the air rising about the pot to a generally vertical direction of flow, the lower ends of said baffle means extending to a level below the bottom of the pot, the upper ends extending upwardly about a lower portion of the pot.

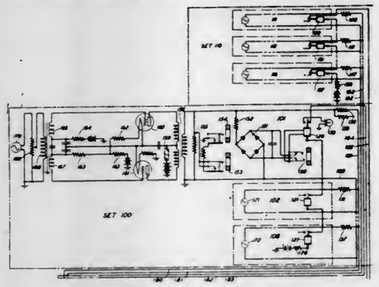
2,350,873

AUTOMATIC SWITCHING TELEPHONE SYSTEM

Aloysius J. Busch, Madison, Israel H. Henry, East Orange, and Charles F. Seibel, Glen Rock, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 26, 1942, Serial No. 470,234
11 Claims. (Cl. 179—27)

1. In an automatic switching telephone office, trunks, switches mounted on a plurality of frames forming a switching system for completing telephone connections, markers for operating said switches, selectively operable switch locating devices in said markers, a multifrequency signaling system comprising duplicate multifrequency current supply sets common to the switches of said office, each set having a plurality of current sources of different frequencies, a plurality of receiving circuits in each marker tuned to the different frequencies of the current sources in said duplicate multifrequency current supply sets, selectively actuated by currents connected thereto from one of said supply sets, a control mechanism, means in said control mechanism for connecting one of said multifrequency current supply sets to said switching system, means in said marker responsive to the selection of trunks connected to switches for connecting current sources from said current supply set to the re-



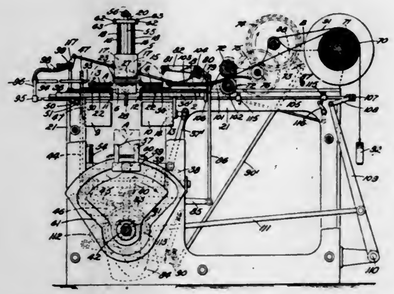
ceiving circuits of said marker for operating switch locating devices to direct the marker in the operation of the switches connected with said trunks for completing a telephone connection, a periodically operating device in said control mechanism, and means automatically responsive to the operation of said device for periodically disconnecting one multifrequency current supply set from said switching system and for connecting the alternate one of said duplicate multifrequency current supply sets thereto.

2,350,874

APPARATUS FOR MANUFACTURING OPEN CONTAINERS MADE OF PLIABLE SHEET MATERIAL

Erich Karl Buxbaum, London, England

Application August 14, 1941, Serial No. 406,780
In Great Britain June 24, 1940
15 Claims. (Cl. 93—51)



1. Apparatus for producing an open container made of flimsy sheet material, comprising an apertured supporting surface for a blank of flimsy sheet material, a forming block of substantially rectangular section, normally supported over the aperture in said surface with its central axis at right angles to the main plane of said supporting surface and spaced therefrom, means for effecting relative movement between said surface and forming block so as to bring said block into contact with the blank and thereafter through the aperture in said surface, means for positioning the blank on said supporting surface

symmetrically with reference to said forming block, movable folding means above said supporting surface operable when the forming block has been brought into contact with the blank, for folding the portions of the blank extending outwardly of two opposite edges of the base of the block, bodily at right angles and into contact with the corresponding faces of the block, while leaving the remaining two portions of the blank extending outwardly of the other two edges of the base of the block substantially in the plane of the base of the block, means for passing said block and blank through said apertured surface whereby the central part of each of the said remaining portions is wiped into contact with the corresponding faces of the block, leaving four ears connecting said parts with the previously folded portions all extending outwardly of the block substantially parallel with said portions, movable folding means beneath said supporting surface for folding opposite pairs of said ears inwardly into overlapping relationship with each other and into contact, respectively, with said wiped parts of the two remaining side portions of the sheet, means for sealing said ears at least to each other to complete the open container on the block, and stripping means associated with the block for exerting pressure on the inner surface of the base of the container to strip it from the block and deliver it axially in open condition.

2,350,875

METHOD OF MANUFACTURING REFRIGERATOR SHELVES

Clifford R. Carney, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application April 25, 1940, Serial No. 331,497. Divided and this application January 14, 1942, Serial No. 426,656
2 Claims. (Cl. 29—160)



1. The method of manufacturing shelves or the like having supporting side rails formed from a hard metal and interconnecting cross members formed from relatively softer metal, which comprises the steps of providing the side rails with a plurality of opposed openings entirely circumscribed by walls and in which the size of the openings is somewhat smaller than the initial size of the end portions of the cross members, assembling the parts with the opposite end portions of the cross members aligned with said openings, moving the parts so aligned in a direction longitudinally of the cross members to bring them into engagement with one another, and thereafter deforming the end portions of said cross members by forcing them into said openings to effect a mechanical union between the side rails and the cross members.

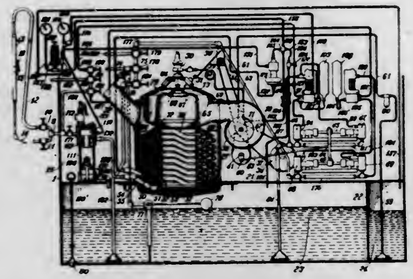
2,350,876

CLEANING APPARATUS

Alick Clarkson, Bloomingdale Township, Du Page County, Ill.

Application December 17, 1938, Serial No. 246,366
5 Claims. (Cl. 299—84)

1. In a cleaning apparatus of the character described, a tank for holding liquid cleanser, a tank for fuel oil, a steam generator comprising a burner, means comprising a fuel pump for delivering oil from the fuel-tank to the burner, means comprising a pump, a feed-pipe leading from the liquid tank to the pump, and a supply pipe leading from the pump to the generator for forcing liquid into the generator, a discharge



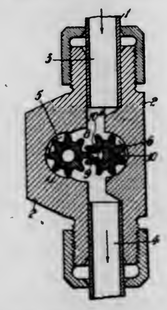
conduit for delivering cleaning fluids from the generator, means for driving the pumps, a pipe-connection leading from the pressure side of the fuel-pump into the feed-pipe to the liquid pump, and a metering valve in the pipe-connection for feeding a restricted amount of oil into the liquid delivered to the generator.

2,350,877

MULTIPOINT LUBRICATION

James Richard Cornelius, Haseley Knob, near Warwick, England

Application November 23, 1942, Serial No. 466,630
In Great Britain August 14, 1942
1 Claim. (Cl. 184—7)



A metering device for supplying oil or lubricant to parts to be lubricated and for use in a system of multi-point lubrication which includes a main pipe line connected with a source of supply of lubricant under pressure and carrying lubricant to a number of different points and through a number of metering devices, said metering device comprising a casing to be interposed in said pipe line and having a metering chamber, an inlet passage leading from said pipe line to said metering chamber, an outlet passage leading from said metering chamber to the said pipe line, and a pair of metering gear pinions in constant mesh and rotated in said chamber by said lubricant moving under pressure, whereby the lubricant will pass without interruption through the pipe line and a metering device interposed therein, said metering device having at least one lateral delivery duct to be connected with a point to be lubricated, and one of said pinions having a passage opening at the periphery thereof and intermittently establishing com-

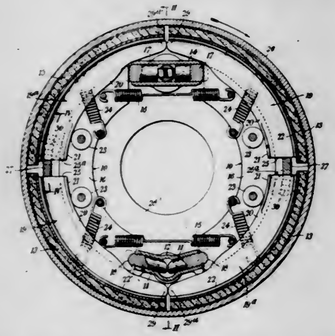
munication between the interior of said chamber and said delivery duct once during each rotation of said pinion, whereby the lubricant will be forced by the pressure to which it is subject through said pinion into and through said delivery duct throughout the period of each such intermittent communication.

2,350,878

INTERNALLY EXPANDING BRAKE

Frederick Raymond Cowell, Leeds, England, assignor to Kirkstall Forge Limited, Leeds, England

Application August 20, 1942, Serial No. 455,489
In Great Britain September 4, 1941
6 Claims. (Cl. 188—79.5)



1. A self-energizing internally expanding brake assembly, comprising a brake drum, a pair of brake-shoe-carriers mounted upon a fixed part of the assembly within the drum, means for retaining the carriers in an inoperative position, an expander for moving the carriers outwardly to apply the brake, at least one brake shoe mounted on each carrier for limited circumferential movement in relation thereto, brake linings on the brake shoes, stop means on said fixed part operative, on circumferential movement of the shoes when contacted by the revolving brake drum, to arrest the shoes and thereby apply an increased braking pressure, and an automatic slack adjuster, constituted by a wedge member carried by said fixed part adjacent the trailing end of a shoe as referred to the movement of the brake drum, and a spring for moving said wedge member progressively forwards and nearer said trailing end, as the linings wear, to take up the resulting clearance.

2,350,879

SHOE

Claude H. Daniels, Greenwich, Conn.

Original application August 24, 1934, Serial No. 741,197. Divided and this application October 27, 1937, Serial No. 171,180
3 Claims. (Cl. 36—45)



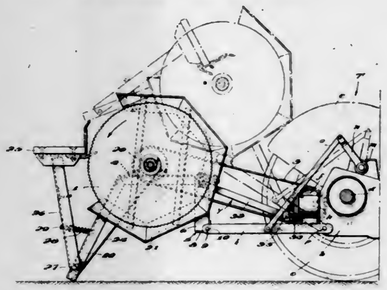
1. As a step process article of manufacture an unclosed shoe upper, comprising a flat leather quarter, a flat lining and a flat counter, said counter being adhesively unified with said quarter and lining throughout substantially their entire areas, said composite assembly being flat.

2,350,880

SAW ATTACHMENT FOR TRACTORS

Paul C. Dellinger and Miles L. Sensenig, Lancaster, Pa., assignors to Dellinger Manufacturing Company, Lancaster, Pa., a corporation of Pennsylvania

Application September 9, 1941, Serial No. 410,220
5 Claims. (Cl. 143—43)



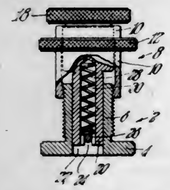
1. A saw attachment for a vehicle having a power take-off drive means including a drive pulley and a drive belt to be disposed about said drive pulley and a driven pulley and equipped with implement lift mechanism including rigid lift lever means having one end portion pivotally mounted on some fixed portion of said vehicle in front of the axis of said power take-off drive pulley for vertical swinging movement upward to raised inoperative position or downward to normal operative position, said attachment comprising a substantially vertically disposed rigid base member, means for pivotally attaching said base member adjacent its lower portion to the free end portions of said lift lever means for swinging movement relative thereto, a saw table rigid with and carried by said base member, a saw shaft rotatably journaled on said table, a saw and a driven saw pulley both mounted on said shaft for rotation therewith, and a rigid link means to be mounted for swinging movement about an axis located rearwardly of the axis of the pivotal mounting of said lift lever means on said vehicle, said link means being of less length than said lift lever means and being pivotally connected to the upper portion of the base member to cause upward swinging movement of said base member and table and the driven pulley as a unit about the axis of the pivotal connection of said base member to said lift lever means when the lift lever means is raised and reverse relative movement of said base member when said lift lever means is lowered.

2,350,881

TOOL

Hubert E. Dickerman, Springfield, Mass.

Application April 12, 1943, Serial No. 482,707
1 Claim. (Cl. 33—163)



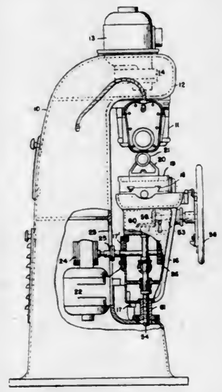
A zero setter comprising in combination, a lower member having an integral base and externally threaded shank portion extending upwardly therefrom and integral therewith, said base and upwardly extending part provided with an axial bore, an upper member having a lower pilot reciprocable in said bore of the shank and base with a relatively larger intermediate externally threaded portion thereabove and a manually engageable part at the upper end of said upper member, said upper member having an axial bore extending upwardly into the pilot having a bottom and a groove at the lower end of the pilot disposed transversely of said bore, an intermediate nut member having an external manually engageable part extending outwardly therefrom and separate internally threaded portions engaging the threaded portions of the upper and lower members, a pin extending transversely of the bore of the lower member disposed in the groove thereof to prevent relative turning of the upper and lower members, and a spring in the bore of the pilot between the bottom thereof and said pin resisting movements of the upper member downwardly relative to the bottom member and urging said members apart, the threaded portions of the upper and lower members being of different pitch whereby rotation of said nut member brings about axial movements of said members.

2,350,882

GEAR CROWNING MACHINE

Robert S. Drummond, Detroit, Mich.

Application December 12, 1938, Serial No. 245,324
19 Claims. (Cl. 90—1.6)



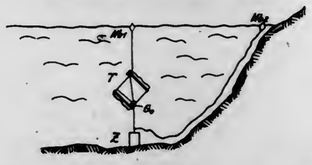
19. A machine for finishing gears comprising a rotary arbor for a gear, a rotary arbor for a gear-like tool, means for supporting said arbors with their axes crossed at an angle less than thirty degrees and with the gear in mesh with the tool, means for rotating one of said arbors, means for relatively translating said arbors to move the contact between the gear and tool teeth lengthwise of the gear teeth, means automatically operable in timed relation to the relative translation for relatively moving said arbors toward each other as the contact moves from mid-position toward either end of the gear teeth and away from each other as the contact moves from either end toward the mid-position of the gear teeth, and means for adjusting said automatic means to select the point in relative translation at which said relative movement of the arbors toward each other is initiated.

2,350,883

METHOD FOR THE STORAGE OF GOODS

Gottlieb Duttweiler, Ruschlikon, Switzerland

Application March 26, 1940, Serial No. 326,114
In Switzerland April 17, 1939
4 Claims. (Cl. 62—170)



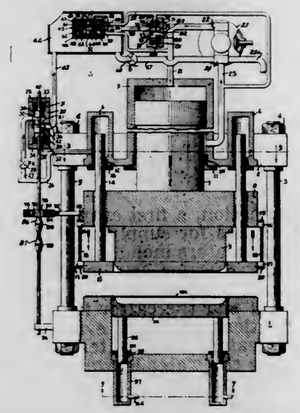
1. A method of storing materials comprising cooling the material to be stored, inserting the cooled material in a container, sealing the container, lowering the sealed container in a body of water, maintaining a pressure within the submerged container substantially equivalent to the outer water pressure to prevent collapsing of the outer walls of the container, and anchoring the sealed container in its submerged position in the water.

2,350,884

BLANK HOLDER AND DIE CUSHION CYLINDER HAVING SEPARATE ADJUSTABLE PRESSURES

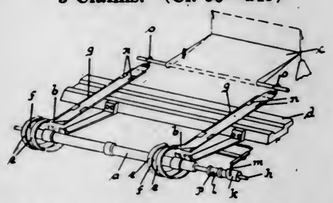
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Mount Gilead, Ohio, a corporation of Delaware

Original application March 29, 1940, Serial No. 326,709. Divided and this application November 27, 1940, Serial No. 367,447
6 Claims. (Cl. 113—45)



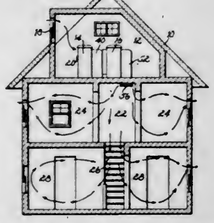
1. A hydraulic press comprising in combination a drawing plunger, means for actuating said drawing plunger, a plurality of clamping members operable by pressure fluid independently of each other for holding a workpiece clamped during the drawing operation of said drawing plunger, a fluid source, and means associated with said clamping members including an individual pump as the source of pressure for each clamping member and means for normally exhausting the discharge from the pump for automatically and independently of the travel of said drawing plunger to control the supply of pressure fluid from said fluid source to said clamping members so as to allow the creation of different predetermined pressures on separate clamping members at one and the same time.

2,350,885
DEVICE FOR DRAWING GOODS FROM FLAT KNITTING MACHINES
Fritz Flämig, Chemnitz, Germany; vested in the Alien Property Custodian
Application July 2, 1941, Serial No. 400,724
In Germany July 8, 1940
5 Claims. (Cl. 66—149)



2. In a flat knitting machine, a fabric take-up mechanism which comprises, a take-up roll, a strap formed of resilient springlike material, one end of said strap being connected to the roll and windable freely into a spiral torsion spring thereabout whereby the spring may expand and contract, and the other end of said strap being connectible to said fabric.

2,350,886
REFRIGERATING APPARATUS
Andrew C. Freimann, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 30, 1941, Serial No. 424,950
10 Claims. (Cl. 62—6)



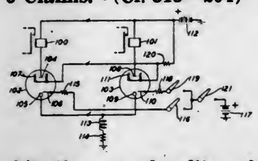
1. In combination, a first evaporator, a second evaporator, means for supplying liquid refrigerant to said evaporators including refrigerant condensing means, a water coil, means for flowing air to be conditioned in thermal exchange with said water coil and thereafter in serial thermal exchange relation with said evaporator, means for supplying water to said water coil, and means for discharging the water leaving said water coil in thermal exchange with said condensing means, and means, responsive to the temperature of the air, for by-passing one of said evaporators with a portion of the air.

2,350,887
METHOD OF MANUFACTURING PARTS FOR ELECTRICAL APPARATUS
Harold W. Goff, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1941, Serial No. 420,763
3 Claims. (Cl. 154—2)



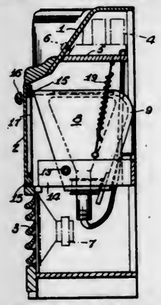
1. The method of manufacturing parts for electrical apparatus consisting of assembling a plurality of interposed alternating metallic and thermoplastic pieces, aligning the edges of said metallic pieces, said metallic pieces lying inwardly of said thermoplastic pieces, and then applying a heated forming tool to said projecting thermoplastic pieces whereby such edges are trimmed, deformed and united locally to seal in and protect the edges of said metallic pieces.

2,350,888
SELECTING SYSTEM
Nathan I. Hall, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 21, 1941, Serial No. 419,879
5 Claims. (Cl. 315—294)



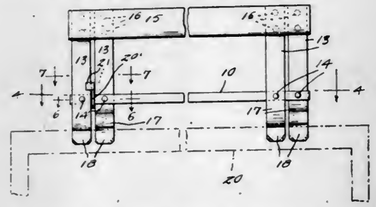
1. In combination, a plurality of discharge tubes, each having main electrodes forming a main discharge gap and a plurality of auxiliary electrodes, circuit means for applying at random a starting potential to one of the auxiliary electrodes of one or more of said tubes to start the ionization of said tubes, an auxiliary discharge circuit common to all of said tubes and including an auxiliary gap of each tube formed by one of the main electrodes and one of the auxiliary electrodes, means for causing the transfer of ionization of any particular one of said tubes to the auxiliary gap thereof and the consequent flow of current in said auxiliary discharge circuit, and a common impedance element for producing a voltage drop in response to the flow of current in said auxiliary discharge circuit, said voltage drop being applied to the auxiliary gaps of said tubes to render inoperative all tubes except said particular tube.

2,350,889
TELEVISION APPARATUS
Emil I. Harman, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 22, 1941, Serial No. 420,118
7 Claims. (Cl. 178—7.5)



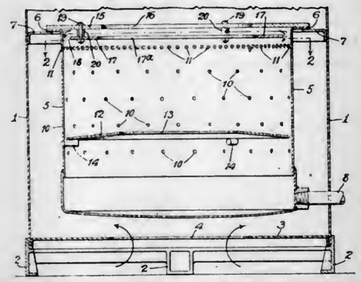
1. In combination, a cabinet for television or like apparatus provided with a panel in the front thereof pivotally mounted at its lower edge and movable outwardly from a closed position to a substantially horizontal open position; television apparatus normally concealed within said cabinet including a picture reproducing element having a viewing face at one end and a longitudinal body portion having an axis extending generally perpendicularly from said end; and pivotally mounted support means for said element comprising a housing having a front panel and an opening therein revealing said viewing face, said housing being slidably attached to said panel whereby movement of said panel from closed to open position will rotate said housing to move said picture reproducing element to viewing position.

2,350,890
HONEYCOMB FRAME LIFTER
Cecil E. Hartley, Utica, Mich.
Application March 9, 1944, Serial No. 525,725
5 Claims. (Cl. 294—106)



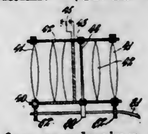
1. A lifter of the class described comprising levers, a fulcrum bar having openings therethrough, jaws on said levers, said bar having elements passing through said openings and relatively small with respect thereto and connected to the levers, whereby the latter are pivotally mounted.

2,350,891
POT-TYPE BURNER AND IMPROVED BAFFLE THEREFOR
Bruce Hayter, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application March 14, 1942, Serial No. 434,661
3 Claims. (Cl. 158—91)



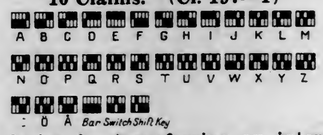
1. In a pot type burner, a burner pot having a circumferential side wall, means for delivering a liquid fuel to the interior thereof, the wall of said pot having a plurality of primary air inlet apertures therein and a plurality of secondary air inlet apertures located above the primary air inlet apertures, a centrally apertured flame ring partially closing the top of the pot, and a supplemental baffle ring located below the flame ring but above the secondary air inlet apertures, the outer edge of said ring being spaced substantially inwardly from the inner face of the circumferential side wall of the pot to form an annular gas recirculating passage, said supplemental baffle having a central aperture axially aligned with the central aperture of the flame ring.

2,350,892
APPARATUS FOR OBTAINING COLORED IMAGES
Bertram Tom Hewson, London, England
Application October 9, 1940, Serial No. 360,354
In Great Britain May 30, 1938
1 Claim. (Cl. 88—16.4)



In a device for producing or reproducing a cinematographic succession of multi-monochromatic images of a multi-colored object on or from a separate image recording element, the combination of two cooperating optical filter elements arranged to be passed successively by a stream of polychromatic light, one of said optical filter elements being a light polarizing unit and the other optical filter element comprising a composite color filter plate consisting of several sets of differently cut small crystal elements, each set passing a different monochromatic color of a polarized stream of polychromatic light, an electrical filter element comprising a Kerr cell disposed adjacent said color filter plate, means to apply a voltage to said Kerr cell, means to vary said voltage between successive images, and means to effect between successive images a movement of at least one of said optical filter elements in a plane at right angles to its optical axis and adapted to cause a relative displacement between the two optical filter elements from image to image.

2,350,893
TYPE FOR TYPEWRITING MACHINES, PERFORATION OR PRINTING AS WELL AS INTERPRETATION SYSTEM FOR CHARACTERS
Rolf Hofgaard, Sondre Hellerud Gaard, Nordstrandshogda, near Oslo, Norway; vested in the Alien Property Custodian
Application April 5, 1940, Serial No. 328,090
In Norway April 24, 1939
10 Claims. (Cl. 197—1)



8. A device for transferring an interpretable character to the surface of a sheet comprising means for simultaneously producing by pressure against said sheet a number of fields following each other in the direction of reading, each field comprising in a direction transverse to the direction of reading not over two sections only, one of which is produced by said means in separate representations, and the said section so produced having distinguishable properties from the other section.

2,350,894
PROCESS OF MAKING ALCOHOL MODIFIED UREA-FORMALDEHYDE RESINS
Herbert Hönel, Vienna, Germany; vested in the Alien Property Custodian
No Drawing. Application January 3, 1941, Serial No. 373,053. In Germany December 9, 1939
13 Claims. (Cl. 260—70)

1. A process for producing resinous products from urea, formaldehyde and alcoholic sub-

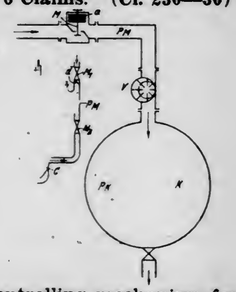
stances, consisting in that urea is first heat-reacted with aqueous formaldehyde in a proportion of 1 to more than 2.5 molecules at a pH between 5 and 10 at a temperature between 60° and 100° C. until nearly the whole formaldehyde is bound prior to the addition of the alcoholic substances, and that the reaction mixture is then subjected to vacuum distillation until at least the main part of water is removed and a syrupy condensation product is obtained, whereupon the condensation product is heat treated with alcoholic substances having alcoholic groups in the molecule.

2,350,895
FOLDING CHAIR
Charles Hoover, Jr., Lexington, N. C.
Application January 1, 1943, Serial No. 471,046
3 Claims. (Cl. 155—142)



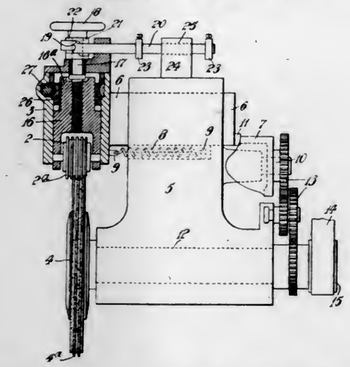
2. A folding chair comprising a pair of rearwardly inclined front legs, a back rest secured between the upper ends of the front legs, a pair of rear legs having their upper ends pivotally secured to the front legs at a point below the back rest and extending downwardly and rearwardly, a seat member pivotally secured at its rear end to an intermediate portion of the rear legs, said front legs having a ledge on their forward edges and the side edges of the seat in front of the front legs being extended laterally to rest on the ledges when the seat is in erected position and means on the front legs releasably penetrating the lower surface of the seat for releasably locking the seat and front legs together when the chair is in erected position.

2,350,896
SUPERCHARGER-REGULATOR FOR AIRPLANE CABINS
Hans Jde, Falkenberg, near Grunau, Germany; vested in the Alien Property Custodian
Application June 25, 1940, Serial No. 342,342
In Germany February 15, 1939
6 Claims. (Cl. 230—30)



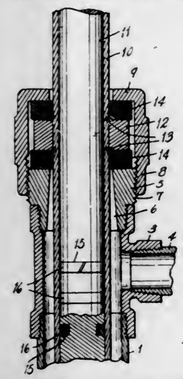
1. In a controlling mechanism for the supply of air to the air tight cabins in aircraft, a compressor supplying air to the cabin, a pressure reducing valve controlling the pressure in the suction line of the compressor, and a partly evacuated spring bellows in said suction line and responsive to the pressure therein and connected to said valve for actuating the same.

2,350,897
MEANS FOR FORMING AND DRESSING GRINDING WHEELS
Morgan Jellis, Peterborough, England, assignor to Coventry Gauge & Tool Company Limited, Coventry, England
Application April 9, 1943, Serial No. 482,454
In Great Britain August 14, 1942
1 Claim. (Cl. 125—37)



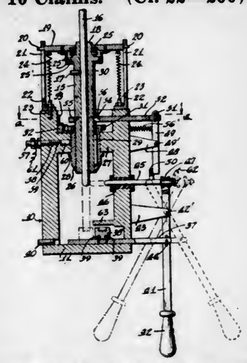
Apparatus for forming and dressing grinding wheels of the kind and for the purposes described comprising a supporting structure carrying the grinding wheel, a head slidably mounted in said structure, an annularly ribbed crushing roller freely rotatable in said head, a cam acting on said head for traversing the crushing roller across and in contact with the operative face of said grinding wheel at a speed correlated with the rotational speed of the latter, and means whereby the crushing roller is automatically moved into and out of engagement with the grinding wheel at the commencement and termination respectively of its traversing motion.

2,350,898
PUMP
Cyrus C. Jetter, Grand Rapids, Mich.
Application September 13, 1943, Serial No. 502,082
8 Claims. (Cl. 103—195)



1. In a pump, the combination of a tubular casing provided with a take-off T-coupling, an adapter threaded into the upper arm of said coupling, a pump rod packing cylinder extending into said casing and provided with an annular supporting flange, annular resilient supporting elements arranged one above and the other below said flange, the lower element being seated on the end of said adapter, a clamping sleeve threaded upon said adapter and having an inturned flange at its outer end engaging the resilient support element, the diameter of said packing cylinder being substantially less than the internal diameters of the casing, the adapter, and of the flange of said clamping sleeve, whereby substantial tilting movement of said cylinder on its said resilient supporting elements is permitted, a pump rod provided with a packing plunger reciprocating within said packing cylinder and having vertically spaced groups of packing ring grooves, and split resilient metallic packing rings arranged in said packing ring grooves.

2,350,899
PROCESS OF PRODUCING CASTINGS
Joseph E. Johnson, Brooklyn, N. Y.
Original application April 18, 1940, Serial No. 330,287. Divided and this application December 28, 1942, Serial No. 470,354
10 Claims. (Cl. 22—200)

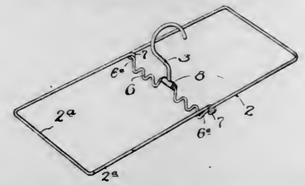


1. The process of producing a metallic casting consisting in providing a solid mass of metal having substantially the same physical properties therethroughout and provided with a free and unsupported portion from which the casting is to be made, heating said unsupported portion of said metal to reduce the same to a molten state, bringing such molten portion of the metal into contact with a cooling die while it remains integral with the unmolten portion of the metal to suddenly chill it and simultaneously compressing the molten portion of the metal against the die by pressure applied by the unmolten portion of the metal to form a "splash" casting integral with said unmolten portion conforming in configuration with the inner configuration of said cooling die.

2,350,900
AMINO DIPHENYL SULPHIDES AND PROCESS OF MAKING THEM
Treat Baldwin Johnson, Bethany, Conn., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application September 11, 1937, Serial No. 163,495
8 Claims. (Cl. 260—578)

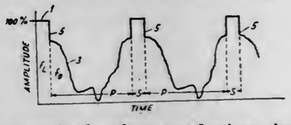
1. The process of preparing amino diphenyl sulphides which comprises rearranging a phenylsulphen-anilide by heating it to a temperature, below that at which pyrolytic decomposition takes place but sufficiently high to cause rearrangement.

2,350,901
GARMENT BAG
James G. Johnston, Chicago, Ill., assignor to The Warren Featherbone Co., Three Oaks, Mich., a corporation of Michigan
Application January 2, 1940, Serial No. 311,971
1 Claim. (Cl. 206—7)



A frame for supporting a garment bag and a plurality of hangers within said bag comprising a rectangular wire frame adapted to fit within the upper end of the bag, two of the opposite sides of said frame intermediate the lengths thereof having loops to form a portion of the pivot, a wire cross bar bent to provide a series of relatively deep undulations the bottom portions of which form pockets for the reception of the hooks of coat hangers and the like, the central portion of said cross bar providing a substantially straight portion to provide a central bearing, the ends of the cross bars being provided with looped portions pivotally embracing the looped portions of the sides of the wire frame whereby to pivotally unite the cross bar with the wire frame and whereby to permit said cross bar to swing so that the plane of its undulations lies relatively close to the plane of the wire frame and likewise to permit said cross bar to swing so that the plane of the undulations lies transverse to the plane of the wire frame in position to support the coat hangers and in which transverse position the lower pocket of each undulation extends substantially below the plane of the wire frame and below the point of pivot of the ends of the cross bar with the sides of the wire frame, whereby the pockets of said undulations are sufficiently deep to maintain therein hooks of coat hangers or the like to depend from the frame, and a sleeve surrounding the central straight portion of the cross bar, said sleeve having an opening in its upper portion and a hook having its lower end inserted through the opening in the bearing and provided with a swivel mounting with respect to said bearing, whereby said cross bar and its undulations may be pivotally collapsed substantially into the plane of the wire frame, and whereby the hook may swivel with respect to its bearing in such collapsed position or when extended vertically with respect to the plane of the wire frame to be shifted to any desired angular position with respect thereto.

2,350,902
TELEVISION SYSTEM
Heinz E. Kallmann, New York, N. Y., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application August 27, 1941, Serial No. 408,579
7 Claims. (Cl. 178—5.6)



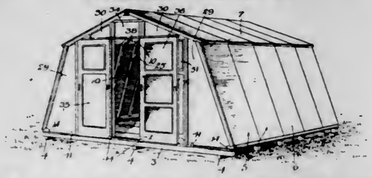
1. The method of reproducing images and sound accompaniments which includes the steps

of producing video signals representative of the image to be reproduced, generating carrier oscillations of a predetermined frequency, modulating the produced carrier oscillations by said video signals, generating line synchronizing pulses and frame synchronizing pulses, generating signal energy representative of the sound accompanying the video signals, interrupting the video signal modulation of the carrier frequency under the control of the line synchronizing pulses, producing a shift in the frequency of the generated carrier to a different value during the intervals of interruption of video signal modulation, frequency-modulating the shifted frequency carrier by the sound signal energy, periodically shifting the predetermined frequency to a second different value under the control of the frame synchronizing signals, transmitting all of said modulated and frequency shifted carrier frequency oscillations, receiving the transmitted carriers, demodulating the received carriers, segregating the video signals from the line synchronizing, frame synchronizing, and audio signals, segregating the line synchronozing signals from the frame synchronizing signals, frequency-demodulating the limited signals, producing sound under the control of the frequency demodulated signals, and synthesizing the image under the control of the segregated video signals and both the line synchronizing and frame synchronizing pulses.

2,350,903
COFFEE EXTRACT
John L. Kellogg, Chicago, Ill., assignor, by mesne assignments, to John L. Kellogg & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application January 3, 1942, Serial No. 425,551
4 Claims. (Cl. 99—71)

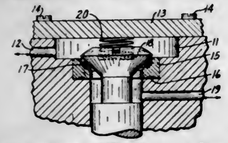
1. Coffee extract containing, by weight, dry substance basis, from 0.125% to 2.0% of added natural coffee oil and a hydrogenated vegetable oil in the proportion of 1 to 16—1 to 4 of the added natural coffee oil.

2,350,904
BUILDING STRUCTURE
Thomas Edward King, Hartsdale, N. Y., assignor to Lord & Burnham Company, Irvington-on-Hudson, N. Y., a corporation of New York
Application June 27, 1942, Serial No. 448,757
3 Claims. (Cl. 20—2)



1. A portable structure comprising a plurality of floor panels cooperable to be arranged in abutting relationship to produce a unitary floor, a plurality of combined side wall and roof sections cooperable to be arranged in abutting relationship, each consisting of a side wall panel and a roof panel hingedly connected together so as to be shiftable from collapsed parallel position to extended position at an angle of more than 90°, means for releasably connecting the lower ends of the side wall panels to the floor panels, and means for releasably connecting together the upper ends of the roof panels in pairs, the said side wall and roof panels each consisting of a relatively flat sheet of material with a longitudinal bracing bar attached a spaced distance from one edge thereof, and with a longitudinal bracing bar projecting a short distance from the other longitudinal edge thereof whereby the sheet of material of one panel overlaps the projecting bracing bar of the adjacent panel.

2,350,905
FLUID VALVE
Gustave J. Koehler, Dayton, Ohio
Application December 11, 1941, Serial No. 422,560
2 Claims. (Cl. 251—167)

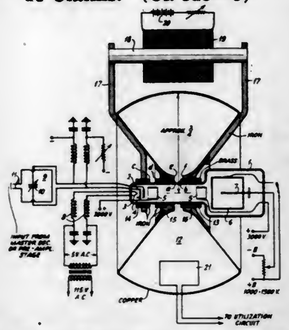


1. A small sensitive dilution valve for use in controlling the flow of a highly volatile fluid, comprising in combination a body portion having a bore and two counter-bores of different diameters, the counter-bore of larger diameter forming a fluid chamber having an inlet port communicating therewith, said bore having an outlet port communicating therewith; an insertable ring adapted to be pressed into the counter-bore of smaller diameter; an annular groove of dove-tailed cross section in the bottom surface of the insertable ring, said groove having molded therein a ring of plastic material, such as synthetic rubber, which extends slightly beyond the bottom surface of said insertable ring and is adapted to be pressed into yielding contact with the bottom surface of the counter-bore of smaller diameter, when the insertable ring is pressed therein, to form a leak-proof seal between the body portion and said insertable ring; an internal conical surface formed on the upper edge of the insertable ring; an annular groove of dove-tailed cross section in the internal conical surface, said groove having molded therein a ring of plastic material, such as synthetic rubber, which extends slightly above said internal conical surface to form a valve seat surface; a valve member having an inverted conical head, the outer surface of which is adapted to cooperate with the valve seat surface on the latter plastic ring, to form a sensitive leak-proof valve; and yieldable means to urge and maintain the valve member in engagement with the plastic seat ring.

2,350,906
LUBRICANT GREASE
Vaman R. Kokatnur, New York, N. Y., and Andrew van Hook, Easton, Pa., assignors, by mesne assignments, to Frank S. Busser, Philadelphia, Pa., and Frederic P. Warfield, New York, N. Y., trustees for Autoxygen, Inc., and Sun Oil Company
No Drawing. Application May 20, 1938, Serial No. 209,092
11 Claims. (Cl. 252—32)

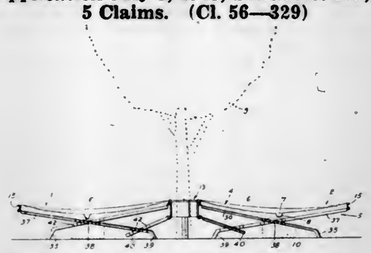
1. A process of making lubricant grease, which comprises mixing a soap-forming substance, at least an equal volume of a hydrocarbon diluent having a boiling point higher than that of water, and a caustic alkali hydroxide, distilling said mixture at a temperature within the boiling range of said diluent until the water combined with or liberatable by the reaction of the ingredients has been eliminated together with most of the diluent, and adding a lubricant oil to the saponified residue.

2,350,907
ULTRA SHORT WAVE APPARATUS
Fred H. Kroger, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 22, 1939, Serial No. 296,045
13 Claims. (Cl. 315—5)



1. An electron discharge device circuit including a cavity resonator in the form of a surface of revolution having a gap, a source of electrons for projecting a stream of electrons across said gap, a magnetic lens having a gap registering with the gap of said cavity resonator, and an adjustable non-magnetic sleeve on one side of said resonator gap and surrounding a portion of the path of said stream for varying the effective width of said resonator gap without moving any part of said cavity resonator and without varying the width of the magnetic lens gap.

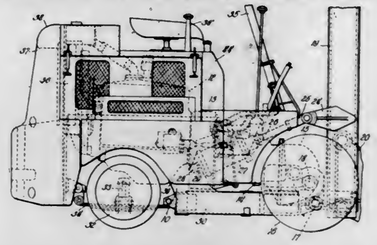
2,350,908
FRUIT COLLECTOR
Walter Langford, Graton, Calif.
Application July 3, 1943, Serial No. 493,475
5 Claims. (Cl. 56—329)



1. A fruit collector comprising a cover circumferentially undulating and radially concave, each concave undulation having an outlet at its lowermost portion; a frame for supporting said covering consisting of an inner ring, an outer ring concentric with the inner ring, plurality of legs radially extending from said inner ring, and plurality of corresponding legs extending inwardly from the outer ring, and means for connecting first mentioned legs with the corresponding second mentioned legs.

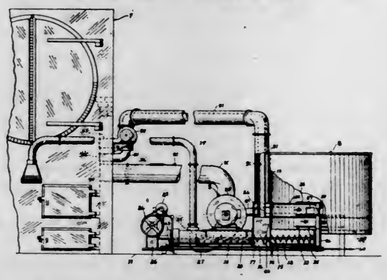
2,350,909
INDUSTRIAL TRUCK
Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application January 27, 1943, Serial No. 474,045
6 Claims. (Cl. 214—113)

1. The combination, in an internal combustion engine-driven vehicle having hydraulic means for handling material, a hydraulic system therefor including a pump for developing fluid pressure, said system including hydraulic cylinders for operating said hydraulic means and a driving train for said truck including a fluid torque converter, of a conduit from said pump to said converter,



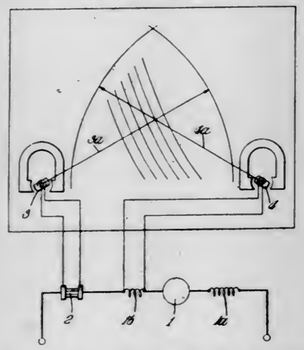
and pressure responsive means between said pump and conduit for directing a portion of the fluid under pressure from said pump through said conduit into said converter only when the fluid pressure in said hydraulic system for operating said cylinders is below a predetermined minimum.

2,350,910
FUEL CONDITIONING AND FEEDING APPARATUS
Nathan M. Lower, Erie, Pa.
Application March 1, 1940, Serial No. 321,747
3 Claims. (Cl. 34—173)



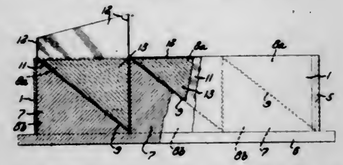
1. In a fuel bin having a floor and an open upper end, a pair of spaced transversely extending partitions in the lower portion of said bin, the upper of said partitions extending only partially across said bin and the lower of said partitions extending completely across said bin, the upper portion of said fuel bin providing a storage space for fuel, the fuel in said storage space covering and being supported on the exposed upper surface of said partitions and forming a seal over the partitioned portion of said bin, a central rotatable shaft extending vertically in said bin, an arm extending radially from said shaft for effecting movement of fuel from the exposed portion of said lower partition through the space between said partitions, said lower partition being formed beneath said upper partition with an opening through which fuel is discharged, a fuel outlet in the floor of said bin out of register with respect to the opening in said lower partition, an arm extending radially from said shaft for effecting movement of fuel over said bin floor to the fuel outlet therein, a port in said bin communicating with the space between said lower partition and the bin floor for admission of a gaseous heating medium, and a port in said bin communicating with the space between said upper and lower partitions for emission of the heating medium.

2,350,911
TEMPERATURE INDICATOR
Paul Lester Mardis, Ilkley, England, assignor to The English Electric Company Limited, London, England, a British company
Application June 18, 1942, Serial No. 447,609
In Great Britain September 25, 1941
5 Claims. (Cl. 73—362)



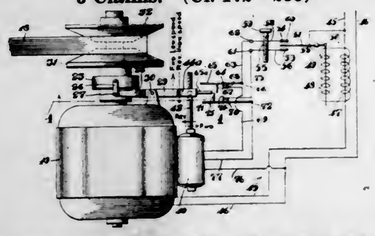
1. A device for indicating the temperature of a winding in a piece of electrical apparatus while the winding is carrying current comprising a quotient meter incorporating means responsive to the potential difference across the winding, means responsive to the current flowing through the winding and an indicator actuated in accordance with the ratio of the potential difference to the current and calibrated to give a direct indication of temperature.

2,350,912
METHOD AND MEANS FOR MOLDING AND PACKAGING MOLDABLE PRODUCTS
Ray W. Marshall, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application November 12, 1941, Serial No. 418,865
16 Claims. (Cl. 99—178)



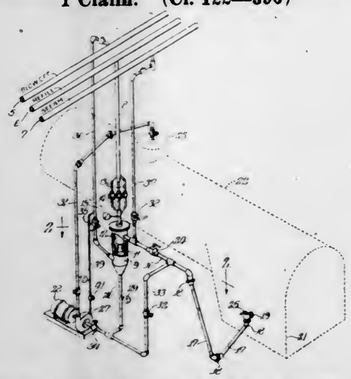
15. In the molding and packaging of cheese and other moldable comestibles, in a plurality of individual components constituting the full package contents, the steps of producing a mold having side walls and divided into a plurality of individual component compartments facing in opposite directions, temporarily filling certain of said compartments then constituting the lower portion of the mold with means removable therefrom, providing each of the thus defined upper compartments with a liner, filling each of said upper compartments within its liner with the product to be molded, closing said liners upon the product thus molded, applying, to said mold, closure means closing the compartments thereof filled with the product, up-ending the mold and removing the removable means therefrom to present the remaining compartments for filling, applying liners to and filling said remaining compartments with the product, and closing the last named liners upon the product thus molded.

2,350,913
MOTOR LOAD CONTROL
John F. Mercer, Globe, Ariz.
Application August 12, 1941, Serial No. 406,567
3 Claims. (Cl. 172—239)



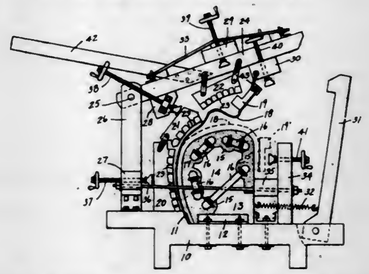
1. In an apparatus of the character described, a driven element, an electric motor for operating the driven element, means for maintaining the load on the motor substantially constant at all times comprising a mechanical transmission between the motor and the driven element, a circuit supplying current to the motor, means operating the transmission for causing an increase or decrease of the speed of said driven element, a reversible motor actuating the operating means, a circuit branching from the first circuit for supplying current to the reversible motor for causing said motor to operate in one direction, a wire connected between the branch circuit and the reversing field of the second motor, a two-way switch actuated by the reversible motor for alternately opening or closing the circuits to the reversible motor, and means operated in accordance with current supplied to the first motor for controlling the supply of current through the two-way switch to the second motor.

2,350,914
METHOD OF RECONDITIONING BOILERS
Frank W. Miller, Chicago, Ill., assignor to Franclare Company, Chicago, Ill., a corporation of Illinois
Application November 29, 1941, Serial No. 420,915
1 Claim. (Cl. 122—396)



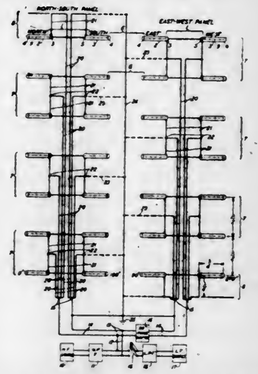
The method of reconditioning steam boilers while under steam pressure, which consists in blowing off a portion of the contaminated boiler water, introducing into a heater refill water adapted to replace said drawn off water, introducing into said heater water from the boiler whereby to heat the refill water to a temperature suitable for introduction into the boiler, then raising the pressure of said heated water to a point above the pressure existent in the boiler and delivering said heated water into the boiler.

2,350,915
APPARATUS FOR FORMING PANELS
John A. Miller, De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application April 13, 1942, Serial No. 438,772
5 Claims. (Cl. 144—266)



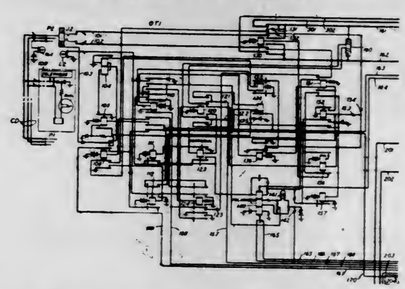
1. An apparatus for forming panels of irregular curvature including a male caul having an effective surface of the desired curvature, a flexible drawing member anchored at one side of said caul arranged to overlie a panel positioned thereon, a plurality of separate and independently operated female cauls positioned about the curved surface of said male caul, each conforming to an adjacent section of its curvature respectively, a positively actuated pressure member operable to force said drawing member against the panel under pressure, and means for independently forcing said female cauls into pressure exerting position progressively from one side of the panel to the other about the curved surface of the male caul.

2,350,916
ULTRA SHORT WAVE ANTENNA SYSTEM
John F. Morrison, Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 17, 1940, Serial No. 335,663
16 Claims. (Cl. 250—11)



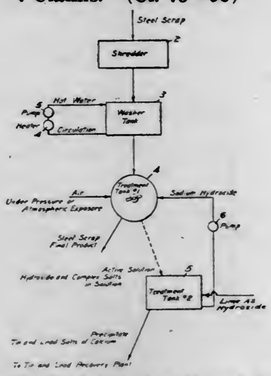
1. In a radio system, an array comprising three similar antenna units spaced along a given direction or axis, each unit comprising two antenna doublets positioned in the same plane and extending in different directions, a first line connecting two corresponding doublets in the central unit and one of the remaining units, a second line connecting the other doublet in the central unit and the corresponding doublet in the other of the remaining units, said lines each having a length equal to a half wave-length or an odd multiple thereof, a translation device, a phase shifting means, and separate transmission lines connecting the mid-point of the first line directly, and the mid-point of the second line through said means, to said device.

2,350,917
SIGNALING SYSTEM
Neal D. Newby, Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 17, 1942, Serial No. 451,304
9 Claims. (Cl. 179—84)



1. In a telephone system, a trunk, means at one end of said trunk for transmitting over said trunk signals of a first type and signals of a second type, signal receiving means at the other end of said trunk for operatively responding to said signals, means at said one end of the trunk for causing the repeated transmission of a signal of said second type over said trunk, and means associated with said signal receiving means responsive to two signals of said second type in succession but non-responsive to two signals of said second type if a signal of said first type is interposed between the two signals of said second type.

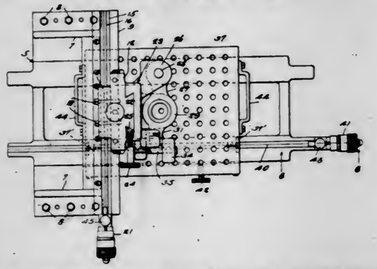
2,350,918
METHOD OF TREATING TINNED STEEL SCRAP
William G. Norlander and Robert L. Alldredge, Denver, Colo., assignors of one-half to Philip Paden, Denver, Colo.
Application July 18, 1941, Serial No. 402,968
7 Claims. (Cl. 75—98)



1. The method of treating tinned steel scrap containing lead, which comprises immersing tinned steel scrap in a solution of sodium hydroxide to coat the metallic surfaces with the

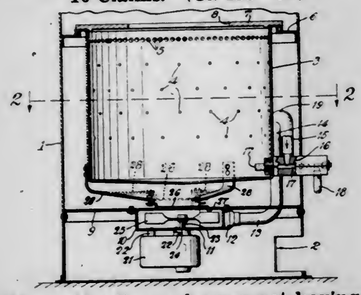
solution, continuously passing air and a foaming agent across the metallic surfaces so coated until a substantial quantity of the tin content of the steel has entered into solution, separating the resulting active solution from the steel scrap, removing the steel scrap from the treatment, then mixing the active solution with an alkaline-earth hydroxide, removing from the treatment the tin and lead salts precipitated by such intermixture, and supplying the metal-coating operation with the sodium hydroxide solution remaining after withdrawal of the precipitate.

2,350,919
WORK HOLDER FOR BORING AND DRILLING MACHINES
Elmer W. Pearson, Red Wing, Minn.
Application March 10, 1943, Serial No. 478,714
4 Claims. (Cl. 77—62)



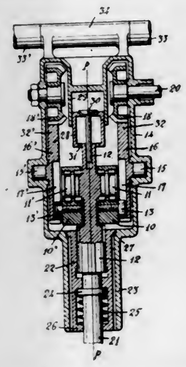
1. A tool guide adapted to be positioned on the work table of a boring and drilling machine, comprising a base plate, a frame rising from the base plate, said frame including a horizontal bar, a supporting plate mounted for movement longitudinally of the horizontal bar, a micrometer at one end of the bar and adapted to adjust said supporting plate, a headstock mounted for vertical adjustment on said supporting plate, bearings on the headstock and through which the tool of the machine with which the guide is used, operates, and a work carriage mounted on the base plate and adapted to be adjusted with respect to the tool whereby the work supported on the carriage is moved directly under the tool.

2,350,920
HEAT RESPONSIVE MEANS FOR CONTROLLING THE AIR SUPPLY TO LIQUID FUEL BURNERS
Stanley Perry, Chicago, Ill., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application January 22, 1941, Serial No. 375,468
10 Claims. (Cl. 158—91)



1. In combination, a burner pot having a plurality of air inlet apertures, a fuel duct extending to the pot, a housing surrounding the pot, a fan casing having an air inlet aperture, a fan in said casing, said fan casing having a peripheral discharge aperture, and an axial discharge aperture, the latter communicating with the space about said pot, an air delivery passage extending from said peripheral aperture to the interior of the fuel duct, the fan having an air delivery capacity greater than the capacity of the peripheral aperture, the aperture in the fan casing in communication with the space about the pot being of greater diameter than the air inlet of the fan casing.

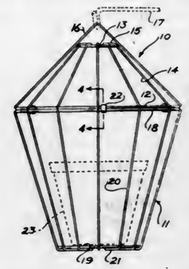
2,350,921
POWER HAMMER
Giosuè Pinazza, Milan, Italy; vested in the Alien Property Custodian
Application January 31, 1940, Serial No. 316,697
In Italy February 18, 1939
5 Claims. (Cl. 125—33)



1. A percussion apparatus including a frame, a striker mounted movably therein, eccentric masses turnably mounted on the striker, a driving shaft journalled in the frame, controlling means between the driving shaft and the striker comprising at least one driving crank arm rotatable in the frame and mechanically connected with the driving shaft and rotatable thereby, at least one driven crank arm rigidly connected with at least one of the masses and rotatable with the said mass around the axis of rotation of the said mass on the striker, a slot and crank drive connection between the free ends of said crank arms so that the arm of lever of at least one of them is automatically and periodically variable, means for maintaining the medium position of the axis of rotation of said driven crank arm in a fixed position with respect to the axis of rotation of the said driving crank arm, and means for securing the uniformity of the rotating motion of said driving crank arm.

2,350,922
SUPPORT
Paul H. Planeta, Linden, N. J., assignor to Anthony Planeta, Linden, N. J.
Application October 16, 1941, Serial No. 415,231
6 Claims. (Cl. 47—35)

1. A support for a container and including top and bottom sections, each section including a pair of spaced rim members, one of said rim members being larger than the other, rod-like elements extending between the rim members of each section, the ends of said rod-like elements extending beyond and inwardly of the smaller rim members, and means comprising releasable fastening members for securing the larger rim members of each section



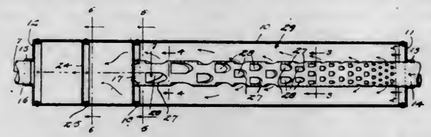
together, the ends of said rod-like elements extending beyond and inwardly of the smaller rim member of the bottom section extending inwardly and radially in a common plane to provide a bottom support for said container.

2,350,923
DOOR LATCH MECHANISM
Bert A. Quinn, St. Paul, Minn.
Application September 10, 1941, Serial No. 410,272
5 Claims. (Cl. 292—167)

1. In a door latch mechanism of the kind described, a casing insertable into a door, a double-ended two section handle structure extended through said casing and made up of reversely projecting sections pivotally connected to said casing for dependent and simultaneous pivotal movements, a yieldingly pressed latch bolt extended laterally from and mounted to slide in said casing, a latch bolt retracting means comprising a slide mounted on said casing and having means for operative engagement by said handle sections, and a retracting link operatively connected with said slide, said link having slide connection to said bolt permitting the latter to be normally projected and causing said bolt to be retracted when said slide is moved by said handle structure.

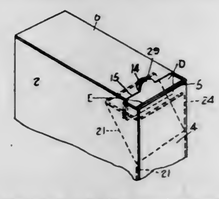
2,350,924
EXHAUST SILENCER
Omer J. Rainville, South Attleboro, Mass.
Application February 17, 1943, Serial No. 476,220
4 Claims. (Cl. 181—58)

1. In an exhaust silencer of the character described, a casing, an exhaust pipe entering one end of the casing and terminating in spaced relation to the other end of the casing, a cross partition in the casing closing the inner end of the exhaust pipe and having openings therein laterally of the pipe, and said pipe having openings gradually increasing in size in a direction toward said partition, and said openings being formed by inwardly struck flutes with the flutes



gradually increasing in length and approaching the longitudinal axis of the exhaust pipe in a direction toward said partition.

2,350,925
CONTAINER
George Alexander Ramsden and George John Russell Ramsden, Lambeth, Ontario, Canada
Application May 14, 1941, Serial No. 393,466
In Canada May 20, 1940
11 Claims. (Cl. 222—456)



1. In a container of the rectangular set up carton type including side and end walls and a top closure, an inwardly and upwardly extending transverse baffle between the side walls having its lower end in abutment with one end wall, and its upper end in spaced relation to the closure whereby a contents receiving pocket is formed between the baffle and such end wall, a flap associated with said baffle and secured to such end wall, and a foldable web extending between one side of the baffle and the corresponding side of the flap, said foldable web and baffle being collapsible with the container when the latter is collapsed, said flap and web causing said baffle to assume an operative set-up position when said container is set up from collapsed position.

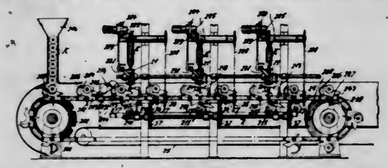
2,350,926
EXOTHERMIC COMPOSITION AND METHOD FOR WAVING HAIR
Raymond E. Reed, St. Paul, Minn., assignor, by mesne assignments, to Raymond E. Lee, doing business as The Leed Company, St. Paul, Minn.
No Drawing. Application April 4, 1941, Serial No. 386,889
8 Claims. (Cl. 44—3)

1. Means for waving hair including a composition capable of generating heat upon the addition of an aqueous activating agent, said composition comprising a hexahydric alcohol and an oxidizing agent which is soluble in said activating agent.

2,350,927
CROSS WINDING FRAME
Wilhelm Reiners, Gladbach-Rheydt, and Gustav Kahlisch, Rheydt, Germany; vested in the Alien Property Custodian
Application March 6, 1941, Serial No. 381,944
In Germany June 7, 1939
6 Claims. (Cl. 242—35.5)

1. In a winding machine, a bank of independently operating winding units each comprising a

supply bobbin support, a series of individual reserve bobbin holders associated with the respective supply bobbin supports for holding reserve bobbins in ready position for mounting on said supports, means for transferring bobbins from said reserve bobbin holders to said supply bobbin supports, a conveyor means adapted to carry a



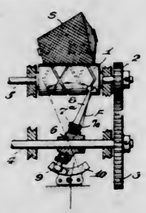
succession of bobbins past said series of reserve bobbin holders, and means whereby each reserve bobbin holder, after giving up a bobbin to its appertaining supply bobbin support is supplied with a bobbin from said conveyor, said conveyor being adapted to retain bobbins passing filled reserve bobbin holders.

2,350,928

YARN GUIDE

Walter Reiners and Stefan Fürst, Gladbach-Rheydt, Germany; vested in the Alien Property Custodian

Application March 14, 1941, Serial No. 383,286
In Germany March 16, 1940
8 Claims. (Cl. 242—158)



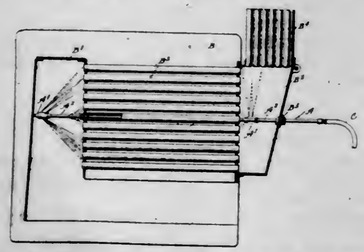
1. In a yarn traversing mechanism, a ring and a wabble plate interconnected by bearing means, said means preventing relative oscillatory movement between said ring and said plate in a direction normal to the plane of said wabble plate, a drive shaft to which said wabble plate is obliquely fixed, guide means to hold said ring against rotary movement about the axis of said drive shaft, and a thread guide fixed to said ring.

2,350,929

SOOT BLOWER

William Davis Ridley, Monkseaton, England

Application December 19, 1942, Serial No. 469,581
7 Claims. (Cl. 122—391)



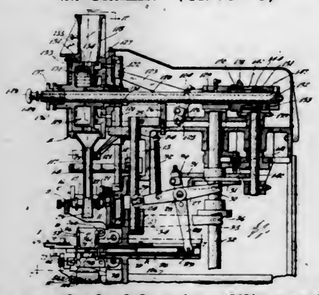
1. A discharge nozzle for a soot blower including, in combination, an inner cylindrical shell closed at one end and open at the other end for connection with the blower pipe and formed at its open end with an annular flange, two series of ports, one series formed in the side wall of the shell and the other in the end wall thereof, an outer cylindrical sleeve snugly fitted to the shell, said sleeve being open at one end to slip over the closed end of the shell and bank against the annular flange thereon and having a head portion for face-contact with the closed end of the shell, two series of jet directing orifices, one series formed in the side wall of the sleeve and the other series in the head portion thereof, a pair of recesses formed in the end of the sleeve at its open end, a stud radiating from the shell and arranged to be engaged in one or the other of said recesses, said sleeve being capable of a combined axial and rotary movement on the shell to effect the engagement of the stud in either selected one of the recesses, the relative location of the stud and recesses being such that in one adjusted position of the sleeve the orifices in the side wall thereof will be brought into registry with the ports in the side wall of the shell and the orifices in the head portion of the sleeve located out of registry with the ports in the end wall of the shell, while in the other adjusted position of the sleeve the orifices in the head portion thereof will be brought into registry with the ports in the end wall of the shell and the orifices in the side wall of the sleeve located out of registry with the ports in the side wall of the shell, and means for clamping the sleeve to the shell in either adjusted position of the sleeve.

2,350,930

MACHINE FOR MAKING AND FILLING PACKAGES

Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware

Application January 1, 1942, Serial No. 425,384
22 Claims. (Cl. 93—3)



1. In a method of forming, filling and attaching a string to packages, which comprises feeding two continuous strips of packaging material into juxtaposition step-by-step, securing said strips together simultaneously along their longitudinal margins and in transverse zones of the strips at the end of each step of movement to form a bag-like container having an open end and simultaneously closing the open end of the next preceding bag-like container that was formed during the preceding step of feeding of said strips and depositing a substance to be packaged through said open end of each container prior to the sealing together of said strips to close said open end of the container, the additional steps of guiding a string to a point at one longitudinal edge of said strips, pulling a portion of said string transversely of and inwardly between said strips in each said transverse zone at the end of each step of movement of the strips and prior to the securing of the strips together in said zones so that said string will be secured between said strips when they are secured together in said transverse zone.

2,350,931

DISPENSING PACKAGE

Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware

Application March 10, 1943, Serial No. 478,612
10 Claims. (Cl. 222—107)



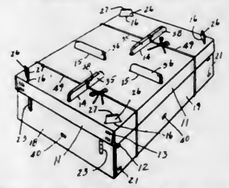
8. A dispensing container comprising a plurality of thicknesses of flexible material secured together in certain zones which form the margins of a compartment whose walls are the spaced portions of certain of said thicknesses between said margins, at least one of said walls being buckled by changes in the linear dimensions of at least one of said thicknesses between at least two opposite margins of said compartment.

2,350,932

CHICK BOX STRUCTURE

Norbert F. Schaefer, Indianapolis, Ind., assignor to Anderson Box Company, Indianapolis, Ind., a corporation

Original application December 15, 1938, Serial No. 245,863. Divided and this application January 31, 1942, Serial No. 429,052
1 Claim. (Cl. 229—32)



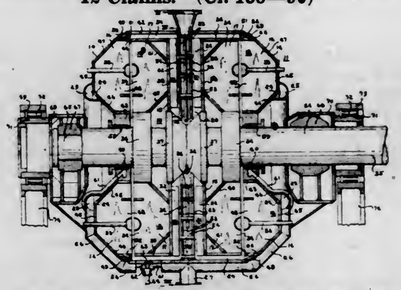
A covered, stickless chick box structure including separable box and cover structures, the cover structure including a top forming body portion and a peripheral depending rim thereabout and depending therefrom, said top forming portion including an elongated slot immediately adjacent each corner thereof and biased to adjacent side edges thereof and extending across the corner, said box structure including a bottom portion and wall portions each integral with the bottom and each positioned transverse thereto and to the adjacent wall portions, the cover structure when seated having the rim peripherally enveloping the upper portions of the wall portions, flap extensions on side edges of certain wall portions being arranged for positioning parallel to and anchorage to the adjacent wall portion, an extension on the free end of each of said flaps and extending angularly thereof and the supporting wall portion, the free end of the extension having interlocking association with the flap supporting extension supporting wall portion, each extension forming a corner block to prevent chick corner huddling, there being a block at each corner, and each extension having an upwardly directed portion projecting above the top level of the wall portions and extending through the registering cover slot when the cover is seated on the wall portions.

2,350,933

HYDRAULIC APPARATUS

Henry F. Schmidt, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 15, 1942, Serial No. 454,887
12 Claims. (Cl. 188—90)



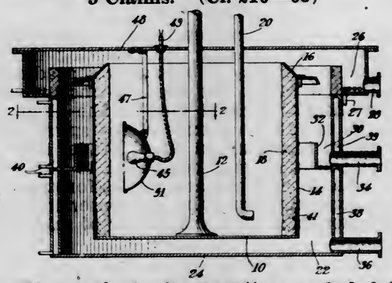
1. In a hydraulic brake, a housing with a pair of spaced and axially-aligned annular structures, a spindle, annular structural means carried by the spindle and arranged between the annular structures, opposed buckets provided on said annular structures and on the structural means and cooperating to define a pair of rows of circulation chambers, means including an inlet conduit and centrifugal devices for supplying liquid to the circulation chambers, said devices including runner vanes carried by the annular structural means, and means providing for discharge of liquid from the circulation chambers.

2,350,934

LIQUID-SOLID SEPARATION

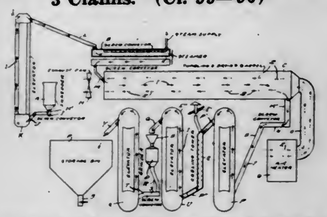
August Henry Schutte, Tuckahoe, N. Y.

Application February 28, 1941, Serial No. 381,054
5 Claims. (Cl. 210—63)



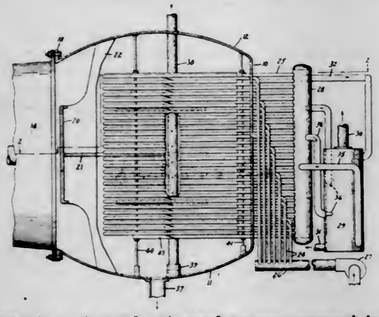
1. The method of separating occluded liquid from an annular hollow cake of porous meltable solid material accumulated in a liquid-solid separating operation, which comprises applying infrared ray heat energy from an infra-red lamp to the inner face of said hollow porous cake, controlling the application of said energy to the porous cake to heat the cake substantially uniformly throughout its depth and to a degree sufficient to soften the solid material of the cake for freeing the occluded liquid within said material and insufficient to liquefy said material, and expelling the freed liquid from said material by application of a differential pressure to the thus heated porous cake.

2,350,935
METHOD OF PRODUCING BREAD CRUMBS
George I. Sipe, Lancaster, Pa.
Application April 9, 1940, Serial No. 328,782
3 Claims. (Cl. 99—90)



1. A method of producing dried bread crumbs which includes initially comminuting the bread, steaming the shredded bread, subjecting the steamed shredded bread to a tumbling or agitating action, passing a hot air current over and through the bread while it is being tumbled and finally grinding the bread to crumb size.

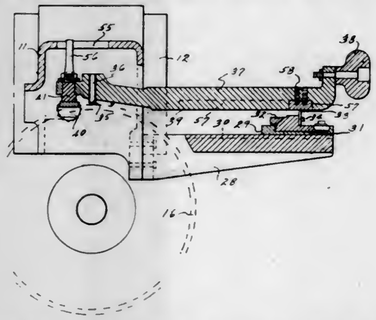
2,350,936
SURFACE TYPE HEAT EXCHANGER
Arthur R. Smith, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 26, 1943, Serial No. 492,427
2 Claims. (Cl. 257—28)



1. Surface type heat exchanger comprising a shell having an opening for receiving fluid to be cooled, a plurality of vertically spaced spiral tubes located within the shell, means including an inlet header located outside the shell and connected to the inner ends of the spiral tubes, other means including an outlet header disposed external the shell and connected to the outer ends of the spiral tubes, and means for removing non-condensables from the condenser including a perforated tube near the center of said spiral tubes.

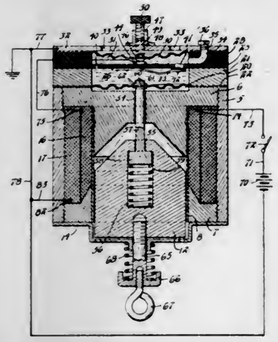
2,350,937
GRINDING WHEEL DRESSER
John Sneed, Huntington Woods, Mich., assignor to William F. Dalzen, Detroit, Mich.
Original application May 12, 1941, Serial No. 393,021, now Patent No. 2,308,317, dated January 12, 1943. Divided and this application December 16, 1942, Serial No. 469,253
16 Claims. (Cl. 125—11)

1. A dressing mechanism for the grinding wheel of a thread grinding machine comprised of a housing with a longitudinally disposed slotted recess therein, adapted to adjustment with respect to said wheel, a follower bar pivotally supported within said housing, a shank member thereon extending above the pivotal support of said bar, with its end disposed within said slotted recess, a diamond carried by said bar, adapted to engage said grinding wheel, a longitudinally and laterally adjustable templet support carried by said housing, a templet carried thereby, and



means for translating said follower bar over the surface of said templet for reproducing its shape by said diamond in the peripheral edge of said grinding wheel, the movement of said diamond with respect to said wheel being limited to horizontal and vertical directions.

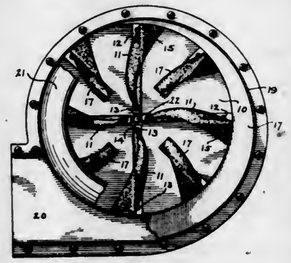
2,350,938
SOLENOID
Hubert T. Sparrow, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 2, 1942, Serial No. 449,461
14 Claims. (Cl. 175—335)



1. In an electromagnetic device, in combination, an electromagnet, an armature, a load operated thereby and means including timing means for decreasing the current flow through the energizing means of the electromagnet at a predetermined period following each initial energization of such means and operation of the armature to its fully attracted position.

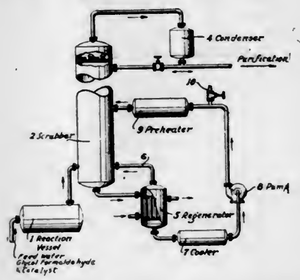
2,350,939
BLOWER
Verner E. Sprouse, Columbus, Ind.
Application April 22, 1943, Serial No. 484,009
3 Claims. (Cl. 230—134)

1. In a blower rotor having a blade mounting member having an intake side surface normally disposed to the rotor axis of rotation, a blade having a straight line inner edge normal to said member and parallel to said axis; a main body portion cupped back from said edge to present a spoon-shaped, concave surface in the direction for rotation of the block; a straight line foot edge normal to said inner edge to contact said mounting member; said concave surface being formed by curving of the blade rearwardly from said inner edge and said foot edge and



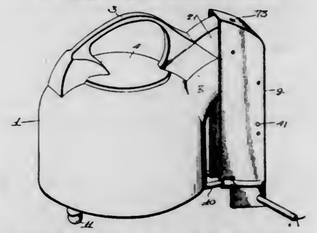
forwardly to an outer discharge portion of the blade to have a deeper portion adjacent said inner edge; a forward lip portion extending in the direction of blade rotation and starting from a forward blade edge curving around from the forward end of said inner edge and sloping rearwardly by a widening, generally triangular planar area to terminate at a forward line spaced from said mounting member.

2,350,940
PREPARATION OF DIOXOLANES
Lombard Squires, Westtown, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 24, 1942, Serial No. 452,249
13 Claims. (Cl. 260—338)



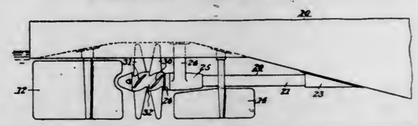
13. In a process for the preparation of 1,3-dioxolane, the steps which comprise effecting a primary reaction by reacting formaldehyde with ethylene glycol in the presence of an acidic catalyst, recovering the formaldehyde from the reaction vapors by a scrubbing operation with a glycol scrubbing liquid containing an acid catalyst, removing a portion of the formaldehyde-containing scrubbing liquid from the scrubbing operation, converting the formaldehyde therein to 1,3-dioxolane and vaporizing from this portion the 1,3-dioxolane made therein, returning the remaining substantially formaldehyde-free glycol to the scrubbing operation, scrubbing the reaction vapors therewith and passing another portion of the formaldehyde containing scrubbing liquid to the primary reaction, separating the catalyst from a portion of the primary reaction mixture, and returning the catalyst-free composition to the reaction mixture.

2,350,941
COOKING APPARATUS
Robert O. Stevenson, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application March 11, 1942, Serial No. 434,279
17 Claims. (Cl. 219—43)



1. In combination, a cooking vessel having electric heating means thereon and an exit for heated vapors, a control apparatus free of attachment to said cooking vessel, said vessel and said control apparatus being adapted to be brought into cooperative physical relation with one another, means on said control apparatus for supplying electrical energy to said heating means, cooperative means on said vessel and said control apparatus for electrically connecting said energy-supply means to said heating means when said vessel and said apparatus are brought into said cooperative relation, and thermostatic means on said control apparatus for controlling said energy-supply means and arranged for activation by heated vapors emitted from said exit while said vessel is in said cooperative relation with the control apparatus.

2,350,942
DUAL PROPELLER
Thomas R. Tarn, Pittsburgh, Pa.
Application October 17, 1940, Serial No. 361,485
3 Claims. (Cl. 170—165)

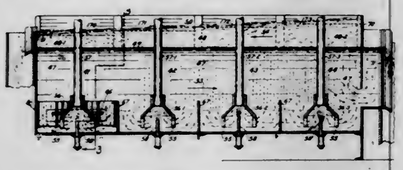


1. A propulsion system for a screw propeller type of craft comprising a pair of propeller blades, each of said blades having the same hand, one of said blades being axially spaced from the other propeller blade, each of said blades having a face of substantially planar outline and a backing face of substantially curvilinear outline, the planar face of one of said blades being positioned in an opposed and facing relationship with respect to the planar face of the other blade in such a manner that one planar face will effect forward movement of the craft and the other planar face will effect aft movement thereof.

2,350,943
COUNTERCURRENT FROTH FLOW FLOTATION SYSTEM
John W. Thompson and Lionel E. Booth, Salt Lake City, Utah, assignors to The Galigher Company, Salt Lake City, Utah, a corporation of Utah
Application March 2, 1940, Serial No. 321,840
11 Claims. (Cl. 209—165)

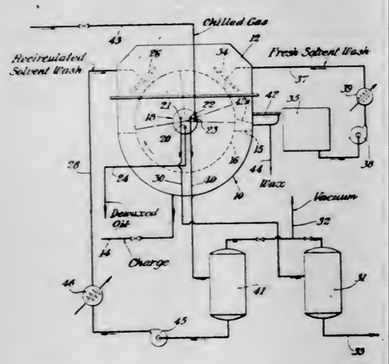
1. A method of counter-current froth-flow flotation, comprising feeding flotation pulp substantially constantly into one end of a normally

static, longitudinally extended body of flotation pulp which has substantially uniform width, thereby imparting a substantially constant, and substantially unidirectional, longitudinal displacement or transition to the pulp body and causing pulp to discharge at the opposite end of the pulp body; introducing air into the transient pulp body in graduated quantities from end to end thereof, the greatest quantity being introduced at the said pulp discharge end; and accumulating



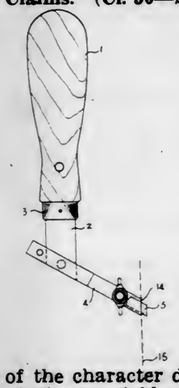
the resulting bubbles in the form of froth on the surface of the pulp body substantially in the proportion of air introduction at corresponding points along the length of the pulp body, thereby forming a hydrostatic head of froth, and causing the said froth to flow by gravity along the surface of the pulp body counter to the direction of transition of the pulp, by confining the said froth against discharge at said pulp discharge end and laterally along the length of the pulp body.

2,350,944
DEWAXING APPARATUS
James F. Thornton, Bronxville, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application May 2, 1941, Serial No. 391,519
3 Claims. (Cl. 196—18)



1. In combination with a continuous separator for separating precipitated wax from a chilled oil-wax slurry and forming a wax cake with some occluded oil, said separator being constructed and arranged to continuously pass said cake along a fixed path to a discharge point, wash spray means at one point along said path to apply wash solvent to said cake to remove a substantial portion of the occluded oil therefrom, a second wash spray means spaced along said path from the first spray means, means to continuously supply said second spray means with fresh wash solvent chilled to the dewaxing temperature to remove more of the occluded oil from the cake, a conduit arranged and connected to conduct wash solvent and the oil removed thereby from said second washing to said first spray means, and means to continuously force said solvent and contained oil through said conduit for continuous discharge by said first spray means simultaneously with the discharge by the second spray means.

2,350,945
TOOL FOR CUTTING LINOLEUM
Olmage Wesley Treadway, Little Rock, Ark.
Application September 10, 1943, Serial No. 501,859
6 Claims. (Cl. 30—294)



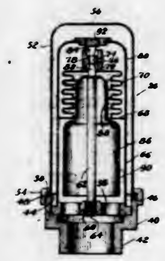
2. A device of the character described including a draw head of appreciable width and thickness having one edge adapted to engage the work, a draw handle for said head, a blade projecting from the work engaging edge of the head, and said edge being transversely beveled to tilt the head and blade laterally to produce a bevel cut.

2,350,946
ORDNANCE
John C. Trotter, Williamsville, and Le Roy F. Maurer, Buffalo, N. Y., assignors to Bell Aircraft Corporation, Buffalo, N. Y.
Application April 10, 1942, Serial No. 438,400
15 Claims. (Cl. 89—41)



1. A mount for a pair of machine guns or the like, comprising a support, a gun cradle adapted to mount therein a pair of guns in parallel side-by-side relation, cross bar means mounting said cradle relative to said support so as to be pivotable relative to said support about a horizontal axis through said cross bar means for gun elevational aiming purposes, said support having a hollow casing portion thereof extending between the positions of the mounted guns and being generally of circular sectional form and disposed concentrically of said axis of rotation and having opposite side wall portions thereof apertured forwardly of said axis of rotation to register with the ammunition belt ejected link ports of the corresponding of said guns so as to be adapted to receive belt links as they are ejected from said guns for transmission thereof through said casing interior and outwardly thereof at the bottom portion thereof, and a vane type fluid pressure motor case of segmental and vertically elongate form mounted upon said support to extend within the rear portion of said casing and having a piston therewithin extending into keyed relation with said cross bar means and adapted to oscillate in vertical direction, and means for introducing fluid under pressure to said motor case in controlled manner alternately at opposite sides of said piston to actuate said piston to cause said cradle to oscillate accordingly in controlled manner about said axis of rotation for elevational adjustments of the gun battery aim.

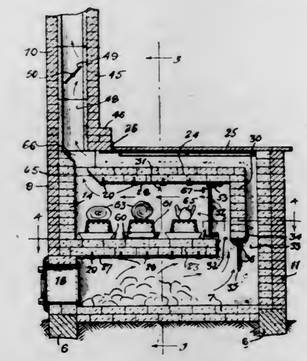
2,350,947
AIR-VENTING VALVE FOR HOT-WATER SYSTEMS
John Upton, Cambridge, and Warren T. Ferguson, Waban, Mass., assignors to Anderson Products, Inc., Cambridge, Mass., a corporation of Massachusetts
Application March 26, 1941, Serial No. 385,234
14 Claims. (Cl. 137—122)



8. A valve for venting compressed air, comprising a casing, a first valve member within said casing, a stop for limiting the downward movement of said first valve member, a second valve member maintained in adjustable relation to said casing, a movable member closing said casing positioned between said first and second valve members having an aperture therethrough, said aperture arranged to be completely closed by either of said valves, the area of said aperture bearing such relationship to said first valve member that the latter will be driven upwardly to close said aperture immediately following the escape of gas from said casing under pressure conditions that normally prevail therein, and that the first valve member will fall away from said closed position when the aperture is closed at its other end by said second valve member.

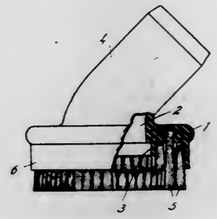
2,350,948
OUTDOOR OR INDOOR BARBECUE OVEN
James E. Walker, Pensacola, Fla.
Application October 10, 1941, Serial No. 414,527
1 Claim. (Cl. 126—25)

A barbecue oven comprising front, rear and side walls having refractory brick linings, a hearth forming the floor of the oven, a metal top wall for the oven, a flue located at the front end of the oven, a horizontal partition mounted above the hearth and terminating at a point adjacent the rear wall of the oven, a second horizontal partition located beneath the top wall of the oven and terminating at points adjacent the front and rear walls of the oven, a depending partition carried by the rear edge of the upper partition and terminating at its lower end a short distance rearwardly of the rear end of the lower partition to form an oven chamber and a hot gas inlet, the upper partition being so arranged within the oven as to provide a hot gas passage between the upper partition and metal top wall of the oven, a screen located at the



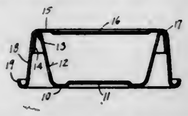
hot gas inlet for preventing cinders from passing through the oven chamber and a damper plate carried by the lower edge of the depending partition for controlling the passage of hot gases through the inlet and over the upper partition adjacent the metal top wall.

2,350,949
SUCTION BRUSH FOR VACUUM CLEANERS
Wilhelm Weimers, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian
Application February 16, 1938, Serial No. 190,794
In Germany February 17, 1937
3 Claims. (Cl. 15—158)



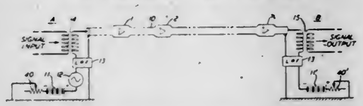
1. A hollow suction brush for vacuum cleaners, comprising a tubular shank for attaching the brush to a suction conduit, a brush body connected with said shank, a set of bristle tufts arranged on said body in concentric rows surrounding the opening of said shank, an inner skirt completely surrounding the opening of said shank and projecting from said brush body within the innermost of said rows of tufts so as to form a suction mouthpiece, and an outer skirt forming a protective sleeve closely and completely surrounding the outermost of said rows of tufts, said shank, said brush body, said inner skirt and said outer skirt consisting of one single piece of soft and flexible material having recesses for receiving the ends of said tufts, and said tufts engaging said recesses and being attached to said piece.

2,350,950
FIBROUS, COVERED CONTAINER
Lee M. Wiley, Marion, Ind.
Application May 21, 1943, Serial No. 487,924
4 Claims. (Cl. 229—43)



1. A covered container structure of molded fibrous material including a container portion having an open mouth defined by a downwardly inclined and outwardly flared rim or skirt of appreciable length, and a cover portion provided with a similar downwardly inclined and outwardly flared skirt, the skirts having the same inclination, the length of the container skirt being shorter than that of the cover skirt, the cover nestingly receiving and locking the container therein solely by frictional engagement between adjacent inner cover skirt and outer container skirt contacting surfaces, the contacting surfaces having sufficient areas when associated together by pressure to effect such locking, skirts flaring relative to the container wall when necessary permitting finger interpositioning to effect release of said cover, the height of the cover being substantially that of the container and the lower end of the cover is defined by an outwardly and upwardly directed rim, the junction thereof forming a smooth surface bearing for the cover.

2,350,951
ELECTRIC WAVE SYSTEM
Manvel K. Zinn, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1941, Serial No. 417,331
24 Claims. (Cl. 178—63)



1. A signaling system comprising a transmission line over which a substantially constant current is supplied from an end of the line to a power consuming device in said line, and means for superimposing on said current an alternating current of wave-length of the order of that of the length of the line for regulating said device.

2,350,952
METHOD OF FABRICATING TORCH TIPS
John L. Acord, Baltimore, Md., assignor of one-half to James H. Levi, Baltimore, Md.
Application December 1, 1943, Serial No. 512,505
9 Claims. (Cl. 29—157)

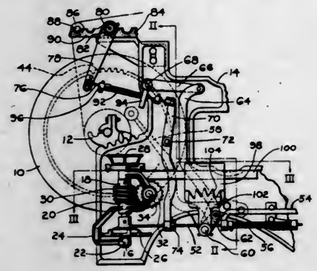


1. The method of fabricating a unitary tip for a torch which comprises turning a piece of metallic bar-stock with an enlarged shoulder at one end thereof and a taper at the other end thereof, drilling a plurality of passages of enlarged diameter at a plurality of angularly equidistant points around the longitudinal axis of the piece in the shouldered end of the piece and simultaneously drilling a plurality of passages of reduced diameter in the opposite end of the piece in axial alignment with said passages of enlarged diameter with the respective passages meeting at an intermediate part of the piece; swaging the shouldered end of the piece to close off the passages of enlarged diameter at said end and simultaneously forming in the end surface of the piece a pair of concentric circular depressions, the inner one corresponding to the locus of the transverse sections of the plurality of passages of reduced diameter, drilling communicating passages of reduced diameter between the closed ends of said first-mentioned passages and the inner circular depression by drilling through the passages of reduced diameter in the end surface at the tapered end of the piece, and drilling an inclined passage from the outer circular depression to each passage communicating with the inner circular depression.

2,350,953
PROCESS OF PREPARING PROTEIN COMPOSITIONS
Walter M. Bain and Arthur W. Neubauer, Oak Park, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application June 8, 1942, Serial No. 446,308
15 Claims. (Cl. 106—146)

15. In the process of preparing a composition suitable for use for coating paper, the steps comprising dissolving a commercially pure alkali soluble protein in an aqueous alkaline medium at a relatively low pH value but sufficiently high to effect substantially complete dispersion of the protein, separately dissolving a proteinaceous vegetable seed flour in an aqueous alkaline medium at a relatively high pH value sufficient to effect substantially complete dispersion of the seed flour and above that necessary for the dispersion of the pure protein, preparing a mixture of the thus prepared solution in such quantities that the pH of the mixture is lower than that required for the separate substantially complete dispersion of the flour but not below a value of about 8.5.

2,350,954
CONSTANT TENSION LETOFF MECHANISM
Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application November 30, 1942, Serial No. 467,331
8 Claims. (Cl. 139—108)

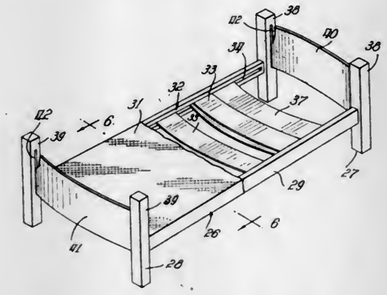


1. In a loom let-off, a warp beam rotatable to let-off warp, means for positively rotating the warp beam intermittently in one direction to let-off warp, means controlled by the diameter of the warp on the warp beam for varying the extent of each rotative let-off movement of the warp beam, and means controlled by said second mentioned means and by the tension of the warp for rotating the warp beam in the other direction to maintain the warp under even and uniform tension.

2,350,955
PIGMENTED RESIN AND METHOD OF MAKING
Folsom E. Drummond, Westfield, N. J., and William A. Waldie, Oakwood, Ohio
No Drawing. Original application August 26, 1940, Serial No. 354,256. Divided and this application October 8, 1942, Serial No. 461,346
8 Claims. (Cl. 260—22)

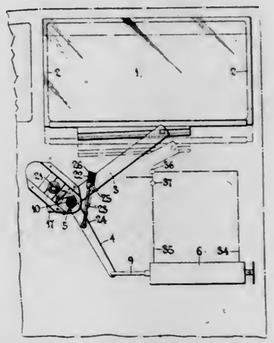
1. The method comprising mixing fatty acids selected from the group consisting of drying oil fatty acids, semidrying oil fatty acids and mixtures thereof with pigment, adding hydrocarbon solvent, refluxing the mixture several hours, removing the solvent by distillation, adding to the residue polycarboxylic acid and polyhydric alcohol, and heating the mixture with constant stirring for several hours, whereby there is formed a homogeneous resinous paste in which the pigment is finely and uniformly dispersed adapted for incorporating in enamels, lacquers, inks, and the like.

2,350,956
FURNITURE
David M. Pope, Streator, Ill., assignor to Streator Mfg. Co., Streator, Ill., a corporation of Illinois
Application October 27, 1942, Serial No. 463,485
8 Claims. (Cl. 5—237)



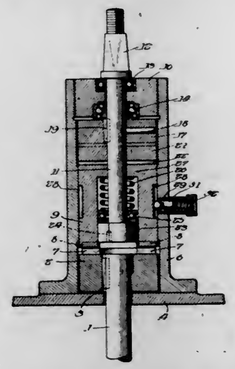
1. An article of furniture including a pair of upright side structures, foldable means connected to said side structures and extended therebetween to form a body supporting portion, means cooperating with said foldable means to yieldably retain said side structures in said oppositely disposed relation including flat bendable members arranged in a bowed position between said side structures to urge the same apart, and other flat bendable members bowed between said side structures and having the ends thereof in abutting engagement with said side structures and of a size to normally prevent movement of said side structures out of a plane substantially normal to said first named members, with the support of a body on said supporting portion yieldably depressing the same against the pressure exerted on said side structures by said first named members.

2,350,957
WINDOW OPERATOR
Anton Rappl, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application November 5, 1940, Serial No. 364,421
14 Claims. (Cl. 268—125)



1. Window operating mechanism including a window lifting member operable to slide a connected window vertically, a power member detachably connected to the lifting member, a motor operatively connected to the power member, a spring connecting the two members under tension and operable to impart window actuating movement to the lifting member independently of the other when the two members are detached from each other, and means for detaching the lifting member from the power member.

2,350,958
AUTOMATIC HANDWHEEL CLUTCH
Corwin W. Bryant, Downers Grove, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 15, 1942, Serial No. 462,445
4 Claims. (Cl. 192—54)



2. In a valve actuating mechanism or the like, a housing, a drive shaft, an operating block mounted for axial and rotational movement in said housing, a clutch interposed between the drive shaft and the operating block, a handwheel shaft journaled for rotational movement in the housing, cam means operable by the handwheel for imparting axial and rotational movement to the operating block, and friction means engag-

ing the operating block to yieldably resist rotational movement thereof and cause the cam means to move the operating block axially toward the drive shaft to engage the clutch.

2,350,959

LUBRICATING OIL AND ADDITIVE THEREFOR

Elmer W. Cook, New York, N. Y., and William D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 17, 1942, Serial No. 462,416
11 Claims. (Cl. 252—33)

1. A lubricating oil composition containing a major proportion of a lubricating oil and at least 0.1% by weight of the product obtained upon heating an oil-soluble petroleum sulfonate with P_2S_5 until the evolution of H_2S has substantially ceased.

2,350,960

PRODUCTION AND ACID TREATMENT OF HYDROUS CHROMIC OXIDE

Marc Darrin, Baltimore, Md., assignor to Mutual Chemical Company of America, New York, N. Y., a corporation of New Jersey

No Drawing. Original application June 7, 1938, Serial No. 212,392. Divided and this application May 9, 1940, Serial No. 334,283
4 Claims. (Cl. 23—145)

2. The improved method of reducing alkali chromate and of producing hydrous chromic oxide which comprises gradually adding a solution of an alkali chromate to a boiling alkaline emulsion of sulfur in a sodium sulfide solution and regulating the alkalinity so as to maintain it substantially uniform throughout the process.

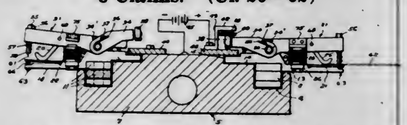
4. The method of treating a hydrous chromic oxide resulting from the reduction of an alkali chromate with an aqueous alkaline emulsion of sulphur which includes the step of digesting the hydrous chromic oxide with a heated acid liquor, the pH of which, during digestive contact with the hydrous chromic oxide, is maintained between approximately 3 and 5.

2,350,961

ELECTROMAGNETIC TENTER CLIP

Allen F. Haskins, Cranston, R. I.

Application August 26, 1941, Serial No. 408,374
8 Claims. (Cl. 26—62)



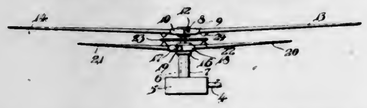
1. Cloth tentering apparatus comprising a tenter frame including continuous chains working in oblong channel tracks formed in said tenter frame, means moving the chains along the tracks, tenter clips having bases consisting of chain link elements forming parts of the chains, vertically swingable jaws mounted on said bases, electro-magnets on said bases, magnetizable portions on said upper jaws overlying said electro-magnets, one end of the windings of said electro-magnets being connected to one side of a source of current with the remaining sides of the windings of the electro-magnets connected to a spring positioned contactor, means movably mounting the contactors on said tenter clips, a conductive rail connected to the remaining side of said source and with which the contactors engage to energize the magnets and attract said magnetizable portions to close the jaws, said rail being discontinuous to permit the contactors to move out of contact therewith to deenergize the magnets, and spring means for swinging said swingable jaws to open position upon deenergization of said electro-magnets.

2,350,962

IRROTATIONAL ROTOR

Russell R. Hays, Lawrence, Kans.

Substituted for abandoned application Serial No. 190,817, February 16, 1938. This application July 12, 1943, Serial No. 494,424
7 Claims. (Cl. 244—17)



1. In aircraft having rotative sustaining surfaces, co-axial shafts, a hub on each of said shafts, self aligning rotor blades mounted on said hubs, a baffle plate between said hubs, and projections on said blades spaced to contact said baffle plate with departure from the normal path of said blades.

2,350,963

MEANS FOR SUPPORTING COMB FOUNDATIONS IN HONEY FRAMES

Wiley A. Hinson, Jacksonville, Fla.

Application July 19, 1943, Serial No. 495,328
2 Claims. (Cl. 6—10)



1. In a device of the character described, the combination with the upper bar of a super frame, said bar having a narrow longitudinal slot therein, of an artificial foundation for honeycomb, said foundation being of a thickness to be easily received into said slot to pass downwardly therein, and having near its upper edge and substantially parallel therewith, a flexible cord rigidly secured thereto, said cord being of a diameter too great to permit its passage through said slot, whereby the foundation depends from the upper bar of the frame in a substantially vertical position.

2,350,964

ESTERS

Donald J. Loder, Wilmington, and Wilber O. Teeters, Roselle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 14, 1940, Serial No. 340,473
13 Claims. (Cl. 260—484)

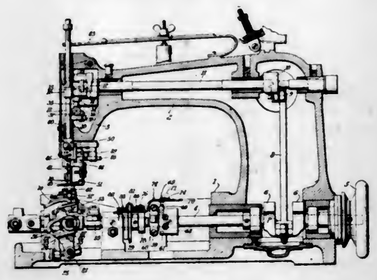
1. A process which comprises alcoholysis of a lower (alkyl) ester of acetic acid having the empirical formula, $ROCH_2COOH$, in which R is a radical selected from the group consisting of hydrogen, alkyl, and alkoxy-alkylene groups, with a compound selected from the group consisting of glycerol and alkyl ethers thereof.

2,350,965

LOOPER THREAD CONTROLLING MECHANISM FOR SEWING MACHINES

Edward Muecke, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application April 30, 1943, Serial No. 485,148
8 Claims. (Cl. 112—242)



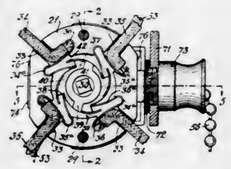
1. The combination with stitch-forming mechanism including an oscillating thread-carrying looper, of a nipper for the looper-thread, a stripper having a thread-receiving slot, thread-guides disposed upon either side of said stripper, and a rotary thread pull-off cooperating with said stripper and thread-guides for drawing looper-thread from the supply.

2,350,966

ELECTRIC SWITCH

John S. Nunes, New York, N. Y., assignor to Elizabeth Lefkowitz, doing business as Fulton Electric Mfg. Co., New York, N. Y.

Application January 7, 1941, Serial No. 373,393
3 Claims. (Cl. 200—64)



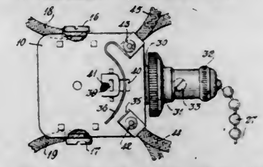
1. In an electric switch, a bridge member comprising a wheel made of insulating material and provided with a plurality of cam teeth upon its periphery, the cam surfaces increasing in radial dimension along their peripheral extension measured from the center of the wheel, and contact members upon only the portion of the cam surfaces of larger radius of at least certain of the teeth and projecting beyond such portions so as to overhang at least a portion of the adjacent insulating surface of smaller radius of the adjoining tooth, stationary contacts whose free ends are arranged to engage the insulating and conducting surfaces of said certain teeth in alternation, means for rotating said member through a limited angle smaller than the angle subtended by one of said certain teeth and the projecting portion of its contact member, and means for returning said bridge member to its initial position, each stationary contact thus playing permanently over the insulating and conducting surfaces of only one of the cam teeth of said member, and said projecting portions of the contact members insuring against dropping of a stationary contact onto the next tooth.

2,350,967

MANUALLY CONTROLLED TIME SWITCH

John S. Nunes, New York, N. Y., assignor to Elizabeth Lefkowitz, conducting business as Fulton Electric Mfg. Co., New York, N. Y.

Application February 21, 1941, Serial No. 379,921
3 Claims. (Cl. 200—5)



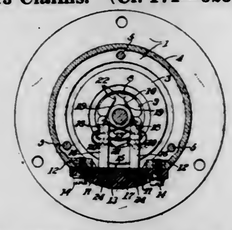
1. A switch for controlling the starting and operating circuits of fluorescent lamps and similarly controlled apparatus, comprising a housing, stationary contacts therein adapted to be connected in the operating circuit of the control apparatus, and to be connected and disconnected only upon successive actuations of the switch, a rotary member including bridging means for said stationary contacts and insulating areas adapted to be brought into active position with reference to the stationary contacts in predetermined sequence, mechanism for operating the rotary member and including a linearly reciprocable element for effecting a stepwise rotation of the rotary member during each complete reciprocation, contacts adapted to be connected with the starting circuit of the controlled apparatus and normally biased to the open position, a rigid member moving with the linearly reciprocable element and engaging one of the last mentioned contacts upon actuation of such element, whereby said last mentioned contacts are forced into engagement by the force applied to the reciprocable element as the latter is moved in one direction, and a spring for returning the said element into its normal position and at the same time causing release of the said last mentioned contacts by said rigid member, whereupon said contacts are disengaged from each other and the starting circuit is opened.

2,350,968

BRUSH ASSEMBLY FOR DYNAMOELECTRIC MACHINES

Leonard C. Pratt, Baldwin, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application July 10, 1942, Serial No. 450,416
13 Claims. (Cl. 171—323)



1. A brush assembly for rotating dynamo electric machines having slip rings, comprising, in combination, a block structure having a platform portion, rigid current-conducting post members secured at one end to said block structure and extending in a direction substantially perpendicular to and away from said platform portion, spring wire brush members supported from said post members and having divergent limbs angularly spaced apart to embrace said slip rings in resilient tangential contacting relation.

ing the operating block to yieldably resist rotational movement thereof and cause the cam means to move the operating block axially toward the drive shaft to engage the clutch.

2,350,959

LUBRICATING OIL AND ADDITIVE THEREFOR

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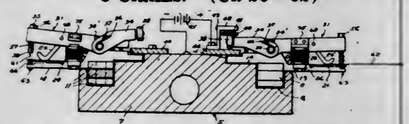
4. The method of treating a hydrous chromic oxide resulting from the reduction of an alkali chromate with an aqueous alkaline emulsion of sulphur which includes the step of digesting the hydrous chromic oxide with a heated acid liquor, the pH of which, during digestive contact with the hydrous chromic oxide, is maintained between approximately 3 and 5.

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Allen F. Haskins, Cranston, R. I.

Application August 26, 1941, Serial No. 408,374
8 Claims. (Cl. 26—62)



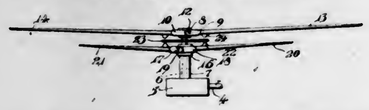
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Application July 19, 1943, Serial No. 495,328
2 Claims. (Cl. 6—10)



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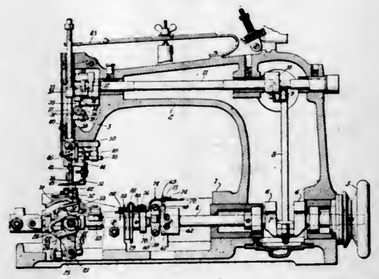
1. A process which comprises alcoholysis of a lower (alkyl) ester of acetic acid having the empirical formula, $ROCH_2COOH$, in which R is a radical selected from the group consisting of hydrogen, alkyl, and alkoxy-alkylene groups, with a compound selected from the group consisting of glycerol and alkyl ethers thereof.

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LOOPER THREAD CONTROLLING MECHANISM FOR SEWING MACHINES

Edward Muecke, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application April 30, 1943, Serial No. 485,148
8 Claims. (Cl. 112—242)



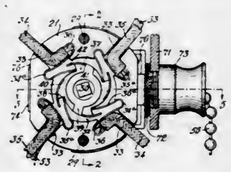
1. The combination with stitch-forming mechanism including an oscillating thread-carrying looper, of a nipper for the looper-thread, a stripper having a thread-receiving slot, thread-guides disposed upon either side of said stripper, and a rotary thread pull-off cooperating with said stripper and thread-guides for drawing looper-thread from the supply.

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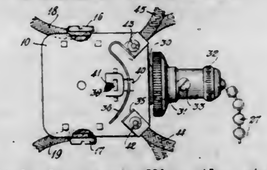
1. In an electric switch, a bridge member comprising a wheel made of insulating material and provided with a plurality of cam teeth upon its periphery, the cam surfaces increasing in radial dimension along their peripheral extension measured from the center of the wheel, and contact members upon only the portion of the cam surfaces of larger radius of at least certain of the teeth and projecting beyond such portions so as to overhang at least a portion of the adjacent insulating surface of smaller radius of the adjoining tooth, stationary contacts whose free ends are arranged to engage the insulating and conducting surfaces of said certain teeth in alternation, means for rotating said member through a limited angle smaller than the angle subtended by one of said certain teeth and the projecting portion of its contact member, and means for returning said bridge member to its initial position, each stationary contact thus playing permanently over the insulating and conducting surfaces of only one of the cam teeth of said member, and said projecting portions of the contact members insuring against dropping of a stationary contact onto the next tooth.

2,350,967

MANUALLY CONTROLLED TIME SWITCH

John S. Nunes, New York, N. Y., assignor to Elizabeth Lefkowitz, conducting business as Fulton Electric Mfg. Co., New York, N. Y.

Application February 21, 1941, Serial No. 379,921
3 Claims. (Cl. 200—5)



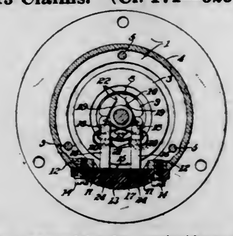
1. A switch for controlling the starting and operating circuits of fluorescent lamps and similarly controlled apparatus, comprising a housing, stationary contacts therein adapted to be connected in the operating circuit of the control apparatus, and to be connected and disconnected only upon successive actuations of the switch, a rotary member including bridging means for said stationary contacts and insulating areas adapted to be brought into active position with reference to the stationary contacts in predetermined sequence, mechanism for operating the rotary member and including a linearly reciprocable element for effecting a stepwise rotation of the rotary member during each complete reciprocation, contacts adapted to be connected with the starting circuit of the controlled apparatus and normally biased to the open position, a rigid member moving with the linearly reciprocable element and engaging one of the last mentioned contacts upon actuation of such element, whereby said last mentioned contacts are forced into engagement by the force applied to the reciprocable element as the latter is moved in one direction, and a spring for returning the said element into its normal position and at the same time causing release of the said last mentioned contacts by said rigid member, whereupon said contacts are disengaged from each other and the starting circuit is opened.

2,350,968

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Application July 10, 1942, Serial No. 450,416
13 Claims. (Cl. 171—323)



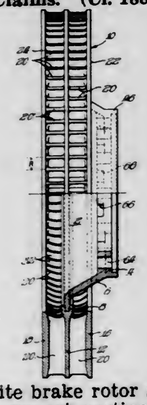
1. A brush assembly for rotating dynamo electric machines having slip rings, comprising, in combination, a block structure having a platform portion, rigid current-conducting post members secured at one end to said block structure and extending in a direction substantially perpendicular to and away from said platform portion, spring wire brush members supported from said post members and having divergent limbs angularly spaced apart to embrace said slip rings in resilient tangential contacting relation.

2,350,969
HONING ARBOR
Joseph Sunnen, Clayton, Mo.
Application January 21, 1942, Serial No. 427,654
10 Claims. (Cl. 51—184.3)



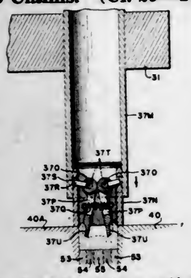
9. A hone arbor comprising a generally cylindrical shaft member, a longitudinal groove having parallel side walls cut in said arbor, a hone mounted in said groove in contact with one of said side walls, an adjusting bar mounted in said groove having one of its side faces in substantially co-extensive contact with the other side wall of said groove, the opposite face of said bar engaging the adjacent hone face and the adjacent parts of said bar and hone including interengaging means responsive to relative longitudinal movement of the hone and adjusting bar to cause axial movement of said hone, said hone and adjusting bar together snugly filling the space between the opposite sides of said groove, whereby the shaft, the adjusting bar and the hone cooperate to form a rigid assembly with the individual parts incapable of distortion.

2,350,970
ROTOR
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 8, 1941, Serial No. 409,999
14 Claims. (Cl. 188—218)



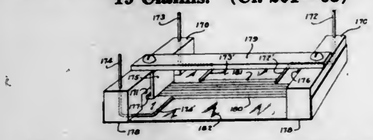
1. A composite brake rotor structure comprising a central support casting of bell-like form with wheel connecting means at one side thereof, and a serrated perimeter at the opposite side thereof, a rotor-blower element cast on said serrated perimeter, said element comprising spaced annular friction plates, and blades equiangularly arranged around the perimeter of said rotor and integrally formed with said plates, each of said blades forming a column between the opposed friction plates for resistance of pressures applied thereto, and a central ring-like support member integrally formed with said plates and blades and having imbedded therein said serrated perimeter, said ring-like support member having a radial depth substantially equal to the radial depth of said friction plates whereby said rotor is divided into independent blower portions, one of said blower portions being operative to discharge air from one side of said rotor structure and the other of said blower portions operative to discharge air from the opposite side thereof.

2,350,971
METHOD FOR FORMING PRESSED ARTICLES FROM POWDERS
Joseph S. Pecker and Henry A. Simpson, Philadelphia, Pa., assignors, by mesne assignments, to Joseph S. Pecker, New York, N. Y.
Application October 18, 1940, Serial No. 361,656
6 Claims. (Cl. 29—160.5)



1. A method of forming articles of powder in layers which comprises successively supplying predetermined component quantities of powder to a molding space, applying forming pressure to the powder in said molding space to form a pressure weld after the introduction of the powder of each of said layers to compact and weld by a pressure operation said layers into an unitary article, and hilling up the powder and increasing the concentration of powder in areas of the mold cavity to strengthen the points of union during the pressure weld.

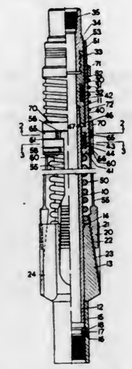
2,350,972
STRAIN GAUGE
Arthur C. Ruge, Cambridge, Mass.
Application September 16, 1939, Serial No. 295,207
19 Claims. (Cl. 201—63)



10. A strain gauge comprising a membrane, and a filament of continuous solid electrical conducting material whose electrical resistance varies in accordance with its strain mounted on and secured throughout its effective length to one side of said membrane which is adapted to have its other side cemented throughout said effective length to the surface of a member to be subjected to strain.

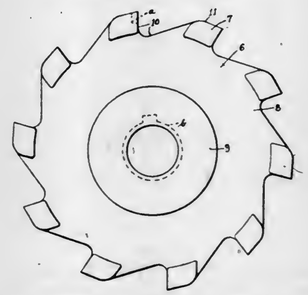
2,350,973
PRESSURE-ACTUATED TUBING ANCHOR
Edward C. Brumleu and Walton E. Gilbert, Los Angeles, Calif.; said Gilbert assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 30, 1943, Serial No. 508,364
11 Claims. (Cl. 103—219)

1. In a well-pumping installation for a cased well, a string of tubing, a pump at the lower end thereof for raising a column of liquid in said tubing, a plunger sleeve surrounding said tubing above the pump, said tubing and sleeve defining therebetween a pressure chamber, port means in said tubing, whereby said plunger sleeve is moved by applying thereto the hydrostatic pressure of the liquid raised by the pump within the tubing, spring means adapted to oppose said motion, gripping means attached to said sleeve, a taper element carried by said tubing, said gripping means being adapted to be guided by said



taper element into engagement with the well casing upon a pressure-responsive motion of said sleeve, and out of engagement therewith upon a spring-responsive motion of said sleeve.

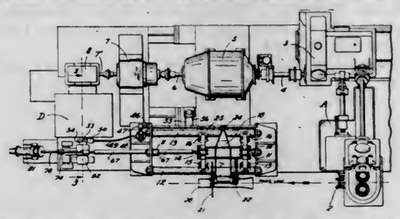
2,350,974
MILLING CUTTER
John H. Grayson, Monrovia, Calif.
Application September 7, 1942, Serial No. 457,538
6 Claims. (Cl. 29—103)



1. A milling cutter comprising a one-piece disk body of a cast metal having high tensile strength to make the same suitable for use in the cutter body, said body being formed to provide, with minimum machining, a hub portion and an annular web portion of reduced thickness integral therewith, the outer periphery of the web portion being formed to provide circumferentially spaced radially projecting portions of increased thickness conformed peripherally with the ultimate rake and clearance angles as though said projecting portions were intended to be cutter teeth, said projections each having a seat formed on the front face for metal-cutting members, and separate, relatively small, hard metal-cutting members fastened to said body, one on each of said seats, formed to provide cutting edges on the outermost portions thereof.

2,350,975
CUTOFF APPARATUS
William Rodder, Youngstown, and Edgar H. Kendall, Alliance, Ohio, assignors to The Aetna-Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio
Application March 28, 1941, Serial No. 385,739
12 Claims. (Cl. 29—69)

1. In a flying cut-off of the type described, a carriage, means for supporting said carriage for



advancing and retracting movement, means carried by said carriage for severing a moving article, means for moving said carriage in advancing direction including a cam adapted to move said carriage at a substantially constant rate of travel during a portion of its advancing movement and means for driving said cam, means for causing said severing means to operate to sever the moving article during said constant speed portion of said advancing stroke, and means for retracting said carriage, the speed of said retracting means being controllable independently of the speed of the driving means for said cam.

2,350,976
HEAT EXCHANGER
George A. Worn, Greenwich, Conn.
Application January 16, 1943, Serial No. 472,577
7 Claims. (Cl. 257—262)



5. In a heat-exchanger tube bundle comprising a circular series of parallel tubes spaced around a central space within the bundle, heat-conducting fins including a pair of external radial fins borne by each of said tubes and extending longitudinally thereof and diverging from each other relatively widely but at an angle of less than 180° and in a direction toward the next succeeding tube around the series, one of said fins of each pair projecting into said space, the crests of said fins upon each tube lying upon a plane intermediate the tube and the next succeeding tube and the said fins upon the latter tube being circumferentially positioned thereon to space their crests from said plane, to provide inter-tube and interfin clearances around and within the bundle for straight insertion of a scraping tool transversely of the bundle and into contact with all of the tube surfaces and the fin surfaces exposed within the bundle and for operation of the inserted tool for complete scraping of said surfaces.

DESIGNS

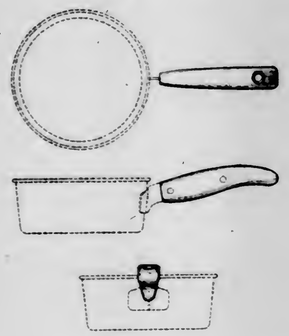
JUNE 6, 1944

138,010
DESIGN FOR AN ALPHABET FOR FORMING MONOGRAMS OR SIMILAR ARTICLE
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application March 16, 1944, Serial No. 112,915
Term of patent 14 years
(Cl. D64—1)



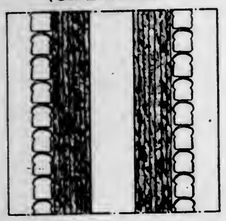
The ornamental design for an alphabet for forming monograms or similar article, substantially as shown.

138,011
DESIGN FOR A COOKING UTENSIL
Dave Chapman, Chicago, and James Harvey Chandler, Oak Park, Ill., assignors to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application November 22, 1943, Serial No. 111,764
Term of patent 14 years
(Cl. D44—1)



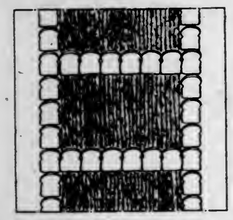
The ornamental design for a cooking utensil, as shown and described.

138,012
DESIGN FOR WRAPPING PAPER
John W. Elder, Chicago, Ill.
Application April 5, 1944, Serial No. 113,139
Term of patent 14 years
(Cl. D59—2)



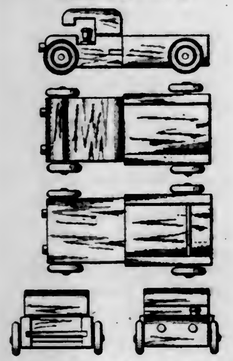
The ornamental design for wrapping paper, as shown.

138,013
DESIGN FOR WRAPPING PAPER
John W. Elder, Chicago, Ill.
Application April 5, 1944, Serial No. 113,140
Term of patent 14 years
(Cl. D59—2)



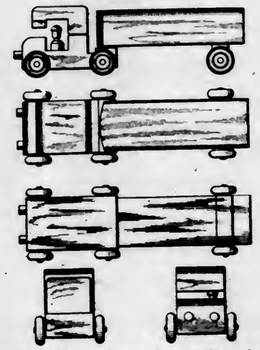
The ornamental design for wrapping paper, as shown.

138,014
DESIGN FOR A TOY TRUCK
James E. Gibson, Jr., High Point, N. C.
Application March 15, 1944, Serial No. 112,902
Term of patent 3½ years
(Cl. D34—15)



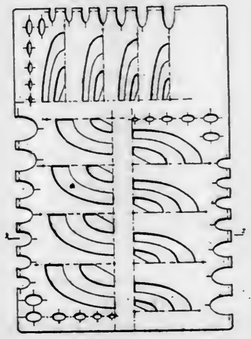
The ornamental design for a toy truck, as shown.

138,015
DESIGN FOR A TOY TRAILER TRUCK
James E. Gibson, Jr., High Point, N. C.
Application March 15, 1944, Serial No. 112,903
Term of patent 7 years
(Cl. D34—15)



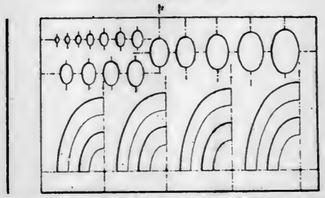
The ornamental design for a toy trailer truck, as shown.

138,016
DESIGN FOR A TEMPLET FOR CONSTRUCTING ELLIPSES
Adrian J. Gilardi, Seattle, Wash.
Application March 13, 1944, Serial No. 112,894
Term of patent 7 years
(Cl. D52—1)



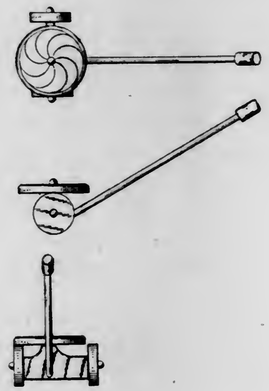
The ornamental design for a templet for constructing ellipses, substantially as shown.

138,017
DESIGN FOR A TEMPLET FOR DRAWING ELLIPSES
Adrian J. Gilardi, Seattle, Wash.
Application March 13, 1944, Serial No. 112,895
Term of patent 7 years
(Cl. D52—1)



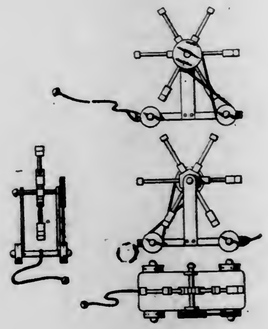
The ornamental design for a templet for drawing ellipses, substantially as shown.

138,018
DESIGN FOR A PULL TOY
Henry Gold, Chicago, Ill.
Application March 22, 1944, Serial No. 112,993
Term of patent 7 years
(Cl. D34—15)



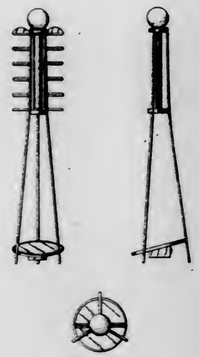
The ornamental design for a pull toy, substantially as shown.

138,019
DESIGN FOR A PULL TOY
Henry Gold, Chicago, Ill.
Application March 22, 1944, Serial No. 112,994
Term of patent 7 years
(Cl. D34—15)



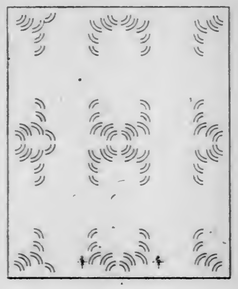
The ornamental design for a pull toy, substantially as shown.

138,020
DESIGN FOR A COMBINED FLOOR LAMP AND DISPLAY DEVICE
Ignazio Latella, Port Chester, N. Y.
Application March 1, 1944, Serial No. 112,758
Term of patent 14 years
(Cl. D80—9)



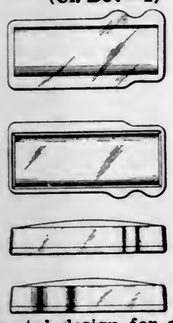
The ornamental design for a combined floor lamp and display device, as shown.

138,021
DESIGN FOR A PHOTOGRAPH ALBUM PAGE OR SIMILAR ARTICLE
Carl Pollak, Forest Hills, N. Y
Application September 28, 1943, Serial No. 111,225
Term of patent 14 years
(Cl. D61—1)



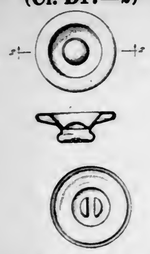
The ornamental design for a photograph album page or similar article, as shown.

138,022
DESIGN FOR A MAGNIFIER READING GLASS
Harold A. Stoltz, Cleveland, Ohio
Application March 16, 1944, Serial No. 112,931
Term of patent 7 years
(Cl. D57—1)



The ornamental design for a magnifier reading glass, as shown.

138,023
DESIGN FOR A BUTTON
William L. Walker, Detroit, Mich.
Application October 18, 1943, Serial No. 111,417
Term of patent 14 years
(Cl. D17—2)



The ornamental design for a button, as shown and described.

138,024
DESIGN FOR A PENDANT OR SIMILAR ARTICLE
Lonnie Barber, Danville, Va., assignor of fifty per cent to Irene Pritchett, Danville, Va.
Application March 20, 1944, Serial No. 112,967
Term of patent 7 years
(Cl. D45—15)



The ornamental design for a pendant or similar article, as shown.

138,025
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Fred J. Diamant, New York, N. Y.
Application April 5, 1944, Serial No. 113,153
Term of patent 14 years
(Cl. D7—7)



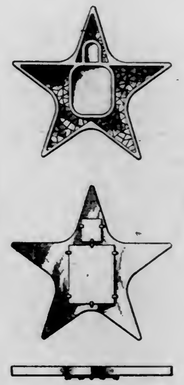
The ornamental design for a shoe or similar article, substantially as shown and described.

138,026
DESIGN FOR A DOLL
Barbara J. Donahue, Kalamazoo, Mich.
Application March 16, 1944, Serial No. 112,918
Term of patent 7 years
(Cl. D34—4)



The ornamental design for a doll, as shown.

138,027
DESIGN FOR A PICTURE FRAME
Alvin Frilot, Baton Rouge, La.
Application October 27, 1943, Serial No. 111,511
Term of patent 14 years
(Cl. D29—20)



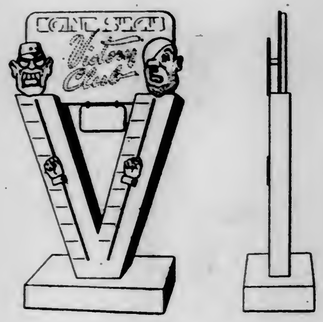
The ornamental design for a picture frame, as shown.

138,028
DESIGN FOR AN INFANT'S SHOE
William H. Hinson, Webster Groves, Mo.
Application March 20, 1944, Serial No. 112,970
Term of patent 7 years
(Cl. D7—7)



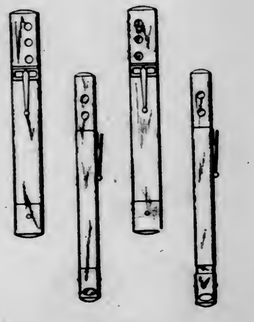
The ornamental design for an infant's shoe, substantially as shown.

138,029
DESIGN FOR A QUOTA CHART
George A. Lasko, Toledo, Ohio
Application September 26, 1942, Serial No. 108,239
Term of patent 3½ years
(Cl. D1—12)



The ornamental design for a quota chart, as shown.

138,030
DESIGN FOR A COMBINED TOOTH POWDER AND TOOTHBRUSH CASE
James E. Mathews, Albuquerque, N. Mex.
Application January 27, 1944, Serial No. 112,350
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a combined tooth powder and toothbrush case, as shown.

138,031
DESIGN FOR A VANITY BOX
Le Roy P. Root, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 27, 1943, Serial No. 112,097
Term of patent 14 years
(Cl. D86—10)



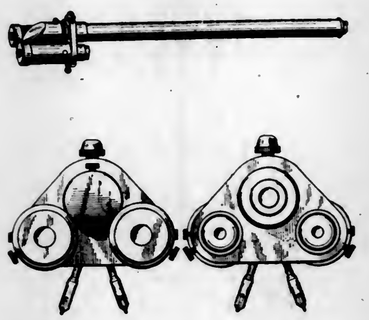
The ornamental design for a vanity box, substantially as shown.

138,032
DESIGN FOR AN ADJUSTABLE NIB FOUNTAIN PEN
Victor H. Severy, Atlanta, Ga., assignor to Scripto Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application April 10, 1944, Serial No. 113,197
Term of patent 14 years
(Cl. D74—17)



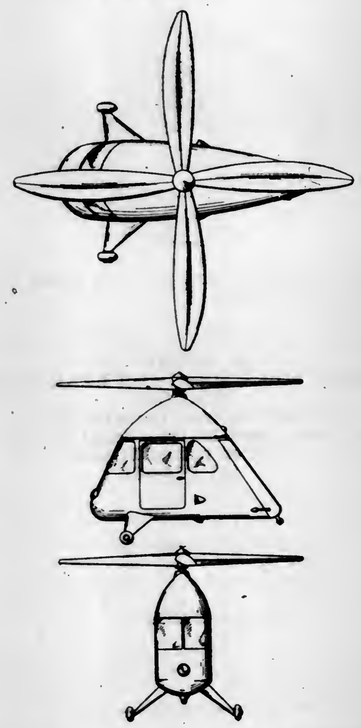
The ornamental design for an adjustable nib fountain pen, as shown and described.

138,033
DESIGN FOR AN INTERNAL SURFACE PROJECTOR
Oscar F. Soetbeer, Massapequa Park, N. Y.
Application March 14, 1944, Serial No. 112,900
Term of patent 14 years
(Cl. D57—1)



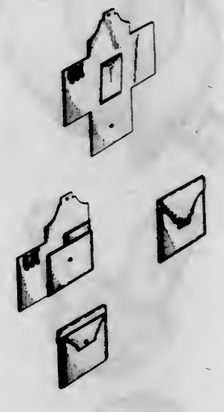
The ornamental design for an internal surface projector, as shown.

138,034
DESIGN FOR A HELICOPTER
Stanley A. Barshefski, Grand Rapids, Mich.
Application September 15, 1943, Serial No. 111,129
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a helicopter, as shown and described.

138,035
DESIGN FOR A COMBINED BILLFOLD, KEY CASE, AND TOKEN PURSE
Milton Becker, Passaic, N. J.
Application March 3, 1944, Serial No. 112,779
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a combined billfold, key case and token purse, as shown.

138,036
DESIGN FOR AN AVIATOR'S OXYGEN MASK
Arthur H. Bulbulian, Rochester, Minn.
Application July 19, 1943, Serial No. 110,698
Term of patent 14 years
(Cl. D63—1)

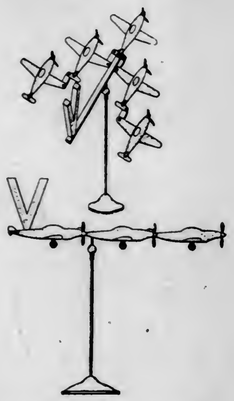


138,036—Continued



The ornamental design for an aviator's oxygen mask or similar article, substantially as shown.

138,037
DESIGN FOR A ROTARY TOY
Joseph Cuomo, New York, N. Y.
Application February 26, 1944, Serial No. 112,724
Term of patent 7 years
(Cl. D34—15)



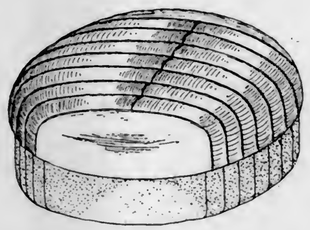
The ornamental design for a rotary toy, as shown.

138,038
DESIGN FOR A JACKET
Simon Etkin, New York, N. Y.
Application May 4, 1944, Serial No. 113,453
Term of patent 3½ years
(Cl. D3—4)



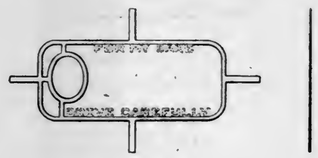
The ornamental design for a jacket, substantially as shown and described.

138,039
DESIGN FOR A BREAD LOAF
Charton C. Frantz, Pittsburgh, Pa.
Application April 30, 1943, Serial No. 110,088
Term of patent 3½ years
(Cl. D8—1)



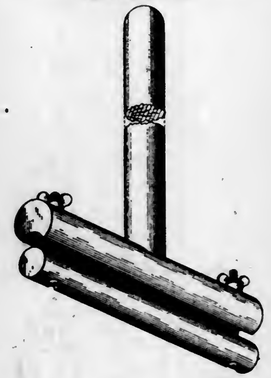
The ornamental design for a bread loaf, as shown and described.

138,040
DESIGN FOR A MASK FOR REAR-VISION MIRRORS
Samuel Gardner, Brooklyn, N. Y.
Application April 15, 1944, Serial No. 113,260
Term of patent 14 years
(Cl. D14—6)



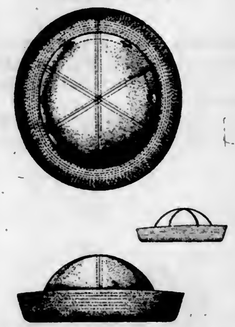
The ornamental design for a mask for rear-vision mirrors, as shown.

138,041
DESIGN FOR A MOP STICK
William E. Kautenberg, Freeport, Ill.
Application June 21, 1943, Serial No. 110,495
Term of patent 7 years
(Cl. D9—2)



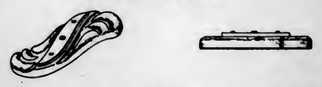
The ornamental design for a mop stick, as shown.

138,042
DESIGN FOR A HAT
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application May 4, 1943, Serial No. 110,112
Term of patent 7 years
(Cl. D3—13)



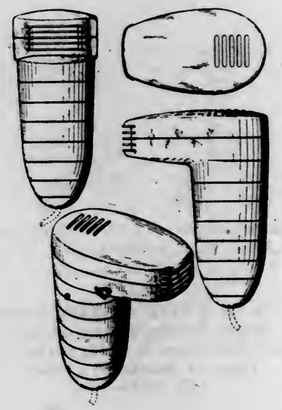
The ornamental design for a hat, as shown and described.

138,043
DESIGN FOR A LINK FOR AN EXPANSIBLE BRACELET OR SIMILAR ARTICLE
Lewis C. Page, Wakefield, Mass., assignor to Bugbee and Niles Company, North Attleboro, Mass., a corporation of Massachusetts
Application March 25, 1944, Serial No. 113,044
Term of patent 14 years
(Cl. D45—4)



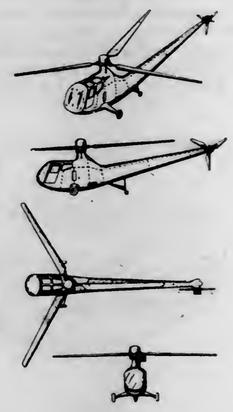
The ornamental design for a link for an expansible bracelet, substantially as shown.

138,044
DESIGN FOR A HAIR DRIER OR THE LIKE
Harry S. Preble, Jr., New York, N. Y., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application March 29, 1944, Serial No. 113,068
Term of patent 14 years
(Cl. D86—10)



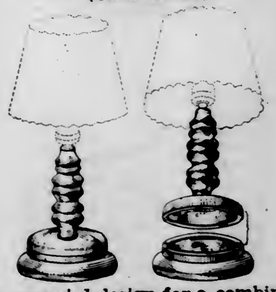
The ornamental design for a hair drier or the like, substantially as shown.

138,045
DESIGN FOR A HELICOPTER
Igor I. Sikorsky, Long Hill, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 26, 1942, Serial No. 109,143
Term of patent 7 years
(Cl. D71—1)



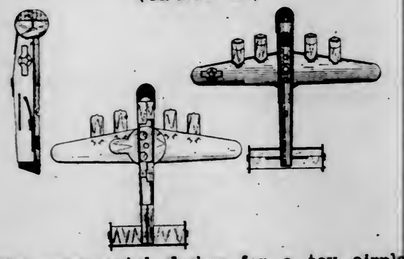
The ornamental design for a helicopter, as shown.

138,046
DESIGN FOR A COMBINED BOUDOIR LAMP AND JEWEL CASE
Ernest M. Barry, Maywood, Calif.
Application January 3, 1944, Serial No. 112,152
Term of patent 14 years
(Cl. D48—20)



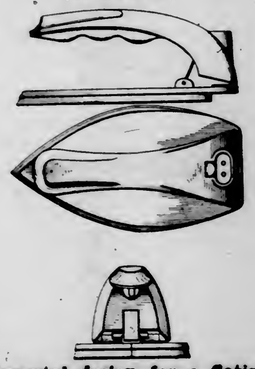
The ornamental design for a combined boudoir lamp and jewel case, substantially as shown.

138,047
DESIGN FOR A TOY AIRPLANE BOMBER
Henry Einzig, Evanston, Ill.
Application September 6, 1943, Serial No. 111,073
Term of patent 3½ years
(Cl. D34—15)



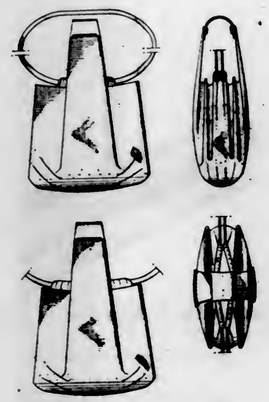
The ornamental design for a toy airplane bomber, as shown.

138,048
DESIGN FOR A FLATIRON OR THE LIKE
Edward J. Fitzgerald, Winsted, Conn., assignor to Son-Chief Electrics, Incorporated, Winsted, Conn., a corporation of Connecticut
Application November 18, 1943, Serial No. 111,718
Term of patent 14 years
(Cl. D49—6)



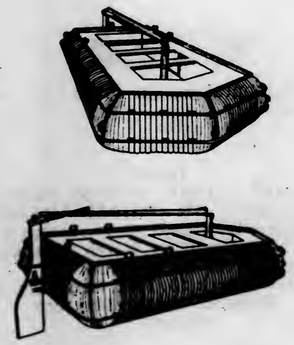
The ornamental design for a flatiron or the like, substantially as shown.

138,049
DESIGN FOR A HANDBAG
Nathan Sloane and Max Sloane, Brooklyn, N. Y.
Application December 20, 1943, Serial No. 112,064
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown and described.

138,050
DESIGN FOR A LIFE RAFT
Alvin G. Sherman, Grosse Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind., a corporation
Application June 11, 1943, Serial No. 110,432
Term of patent 14 years
(Cl. D71—1)



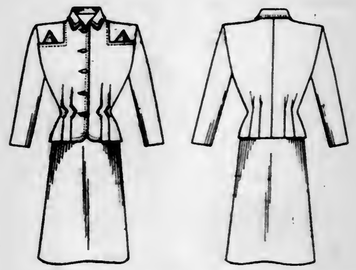
The ornamental design for a life raft, substantially as shown and described.

138,051
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 4, 1944, Serial No. 113,461
Term of patent 3½ years
(Cl. D3—4)



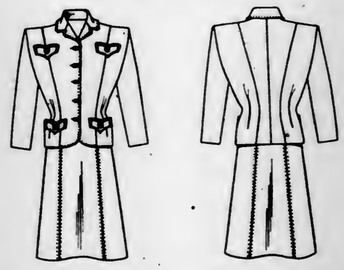
The ornamental design for a suit, substantially as shown.

138,052
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 4, 1944, Serial No. 113,462
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

138,053
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 4, 1944, Serial No. 113,463
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

138,054
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 4, 1944, Serial No. 113,464
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

138,055
DESIGN FOR A FLOWER URN OR SIMILAR ARTICLE
Nicolo V. Cristontello, Elmira, N. Y.
Application April 22, 1944, Serial No. 113,338
Term of patent 14 years
(Cl. D29—28)



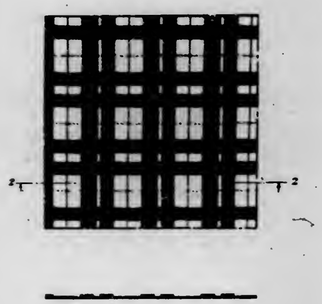
The ornamental design for a flower urn or similar article, as shown.

138,056
DESIGN FOR A PIN OR SIMILAR ARTICLE
Lester L. Hess, New York, N. Y.
Original design application May 13, 1943, Serial No. 110,202, now Design Patent No. 136,741, dated November 30, 1943. Divided and this application September 10, 1943, Serial No. 111,094
Term of patent 3½ years
(Cl. D45—19)



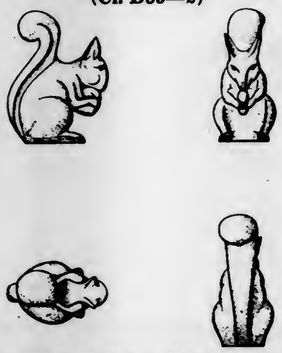
The ornamental design for a pin or similar article, as shown.

138,057
DESIGN FOR A TEXTILE FABRIC
Adolph M. Kemper, Larchmont, N. Y.
Application March 16, 1944. Serial No. 112,925
Term of patent 7 years
(Cl. D92—1)



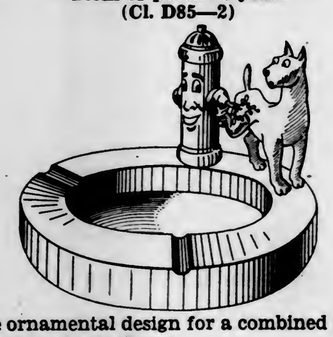
The ornamental design for a textile fabric, substantially as shown and described.

138,058
DESIGN FOR A CIGAR AND CIGARETTE REST FOR ASH TRAYS
Edward F. McDonald, Buffalo, N. Y.
Application October 15, 1942, Serial No. 108,531
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a cigar and cigarette rest for ash trays, as shown.

138,059
DESIGN FOR A COMBINED ASH TRAY AND STATUETTE
Ronald K. Pohl, White Plains, N. Y.
Application February 29, 1944, Serial No. 112,745
Term of patent 7 years
(Cl. D85—2)



The ornamental design for a combined ash tray and statuette, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott, Donald B., Mamaroneck, N. Y. Sail boats and sails therefor. Serial No. 467,216; June 6. Class 19.
Abbott, Donald B., Mamaroneck, N. Y. Sail boats and sails therefor. Serial No. 467,638; June 6. Class 19.
Abbott, Donald B., Mamaroneck, N. Y. Row boats, sail boats, and motor boats. Serial No. 467,639; June 6. Class 19.
Abbott, Donald B., Mamaroneck, N. Y. Sail boats and sails therefor. Serial No. 467,778; June 6. Class 19.
Abbott, Donald B., Mamaroneck, N. Y. Sail boats and sails therefor. Serial No. 467,835; June 6. Class 19.
Amphibian Car Corporation, Buffalo, N. Y. Amphibious automotive vehicles. Serial Nos. 467,744–5; June 6. Class 19.
Ams, Max, Inc., New York, N. Y. Fruit jam. Serial No. 466,374; June 6. Class 46.
Associated Distributors, Chicago, Ill. Toilet soaps. Serial No. 467,868; June 6. Class 4.
Astlett, H. A., Co., New York, N. Y. Lubricating oils. Serial No. 469,105; June 6. Class 15.
Astlett, H. A., & Co., New York, N. Y. Men's and ladies' hosiery. Serial No. 469,112; June 6. Class 39.
Baebi, Joseph, doing business as The Hilton Paint and Varnish Works, Hilton, N. J. Ready-mixed paints; prepared shellacs; washable wall paint, etc. Serial No. 467,838; June 6. Class 16.
Barth-Feinberg, Inc., New York, N. Y. Musical string instruments, musical band instruments, etc. Serial No. 445,912; June 6. Class 36.
Barth-Feinberg, Inc., New York, N. Y. String instruments, band instruments, etc. Serial No. 452,121; June 6. Class 36.
Bauman-Massa Jewelry Company, St. Louis, Mo. Wedding rings, engagement rings, and diamond rings. Serial No. 468,657; June 6. Class 28.
Beacon Importing Co., Boston, Mass. Canned fish. Serial No. 468,995; June 6. Class 46.
Bell Aircraft Corporation, Buffalo, N. Y. Airplanes and structural parts thereof. Serial No. 467,013; June 6. Class 19.
Bendel, Henri, Inc., New York, N. Y. Lipstick. Serial No. 469,144; June 6. Class 6.
Blackman, Julius, Corporation, doing business as Supreme Pharmaceutical Company, New York, N. Y. Vitamin capsules and tablets. Serial No. 467,643; June 6. Class 6.
Bowers Bros. Inc., Richmond, Va. Coffee. Serial No. 468,944; June 6. Class 46.
Bragg, Paul C., doing business as Burbank Kitchens. Burbank, Calif. Powdered ingredients. Serial No. 468,063; June 6. Class 46.
Brandwen, Paul E., doing business as Paul E. Brandwen Mfg. Co., Scranton, Pa. Foldable combination seat tables. Serial No. 459,395; June 6. Class 32.
Brandwen, Paul E., Mfg. Co. (See Brandwen, Paul E.)
Bray Chemical Co., Inc., Chicago, Ill. Cleaning, scouring and polishing compound. Serial No. 462,902; June 6. Class 4.
Bray Chemical Co., Inc., Chicago, Ill. Cleansing powder. Serial No. 467,182; June 6. Class 4.
Bray Chemical Co., Inc., Chicago, Ill. Toilet bowl cleansing powder. Serial No. 467,183; June 6. Class 4.
Brooks, Betty, Co., Huntington Park, Calif. Men's outer shirts, women's shirts. Serial No. 468,912; June 6. Class 39.
Bryant Paper Company, Kalamazoo, Mich. Coated and uncoated printing paper. Serial No. 468,695; June 6. Class 37.
Bryant Paper Company, Kalamazoo, Mich. Printing paper. Serial No. 468,696; June 6. Class 37.
Bryant Paper Company, Kalamazoo, Mich. Coated printing paper. Serial Nos. 468,697–8; June 6. Class 37.
Burbank Kitchens. (See Bragg, Paul C.)
Ciba Pharmaceutical Products, Inc., Summit, N. J. Antiseptic, bactericidal, and fungicidal ointment. Serial No. 468,502; June 6. Class 6.
Codo Manufacturing Corp., Coraopolis, Pa., and Chicago, Ill. Carbon paper and typewriter ribbons. Serial No. 457,381; June 6. Class 11.
Columbian Rope Company, Auburn, N. Y. Molded needled felted vegetable fibre materials. Serial No. 466,636; June 6. Class 50.
Columbian Rope Company, Auburn, N. Y. Resin-impregnated vegetable fiber material. Serial No. 468,437; June 6. Class 1.
Conde Nast Publications, Inc., The, New York, N. Y. Paper dress patterns. Serial No. 469,035; June 6. Class 26.
Corn Products Refining Company, New York, N. Y. Starch. Serial No. 466,302; June 6. Class 46.
Daneluzzi, Libero J., Bridgeton, N. J. Lithographed and printed labels. Serial No. 462,908; June 6. Class 38.
Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Pneumatic tires. Serial No. 468,781; June 6. Class 35.
Dellaria, Guy T., doing business as The Rheumatkill Co., New York, N. Y. Liniment. Serial No. 462,179; June 6. Class 6.
Distribution and Warehousing Publications, Inc., New York, N. Y. Section of a periodical appearing at irregular intervals. Serial No. 464,813; June 6. Class 38.
Eaton Brothers Corp., Hamburg, N. Y. Artificial grass mats or sets. Serial Nos. 468,231–2; June 6. Class 50.
Eutectic Welding Alloys Company. (See Wasserman, Rene D.)
Exeter Manufacturing Company, Exeter, N. H. Cotton fabrics in the piece. Serial No. 468,234; June 6. Class 42.
Federal Razor Blade Co. Inc., Newark, N. J. Razor blades. Serial No. 468,484; June 6. Class 23.
Firth-Sterling Steel Company, McKeesport, Pa. Tool and die steels. Serial No. 459,221; June 6. Class 14.
Fischer, Albert C., doing business as Servicised Products Company, Chicago, Ill. Flower pots. Serial No. 459,925; June 6. Class 2.
Flaishman, M., & Co., Philadelphia, Pa. Ladies' hosiery. Serial No. 468,786; June 6. Class 39.
Garco Products, Inc., Conoquenessing, Pa. Comminuted mixture of silica and glass. Serial No. 468,788; June 6. Class 1.
Gem Products, Inc., Milwaukee, Wis. Floor mops. Serial No. 468,252; June 6. Class 29.
Goodwin Preserving Co., Louisville, Ky. Fruit jam. Serial No. 469,123; June 6. Class 46.
Hagopian, Charles H., doing business under the name of C. H. Hagopian Co., New York, N. Y. Bubble making devices. Serial No. 464,920; June 6. Class 22.
Hagopian, C. H., Co. (See Hagopian, Charles H.)
Henry Valve Company, Chicago, Ill. Pipeline valves. Serial No. 464,340; June 6. Class 13.
Higgins Industries, Inc., New Orleans, La. Landing boats, motor torpedo boats, and steel and wood tugboats and barges. Serial No. 468,959; June 6. Class 19.
Hilton Paint and Varnish Works, The. (See Baebi, Joseph.)
Huber, J. M., Inc., New York, N. Y. Carbon black. Serial No. 468,032; June 6. Class 1.
Hulsh, R. R., doing business as Nabs-Oyle Co., Chicago, Ill. Drying-up and absorbent mineral compound. Serial No. 463,517; June 6. Class 4.
Hyman Bros., Philadelphia, Pa. Ladies' and misses' dresses. Serial No. 469,049; June 6. Class 39.
International Cellucotton Products Co., Chicago, Ill. Paper articles. Serial No. 465,505; June 6. Class 37.
James Manufacturing Company, Fort Atkinson, Wis. Watering cups, watering pans, and feeders. Serial No. 452,447; June 6. Class 50.
K. P. Chemical Co., Stamford, Conn. Sulphonated synthetic detergents. Serial No. 463,397; June 6. Class 4.
Kelley-Clarke Co., Seattle, Wash. Canned fish. Serial No. 468,960; June 6. Class 46.
King Brothers, Inc., Portland, Oreg. Steel fuel oil tanks. Serial No. 460,703; June 6. Class 2.
Kingsway Press, Inc., The, New York, N. Y. Column in a magazine. Serial No. 458,940; June 6. Class 38.
Kingsway Press, Inc., The, New York, N. Y. Magazine. Serial No. 458,941; June 6. Class 38.
Knight Leather Products Co., Inc., Boston, Mass. Billfolds, fitted and unfitted toilet cases, and pocket books. Serial No. 459,841; June 6. Class 3.
Krause, Ernest W., doing business as Krause Stamping Company, Wheeling, W. Va. Thread protectors for pipe, metal protectors, etc. Serial No. 464,510; June 6. Class 13.
Krause Stamping Company. (See Krause, Ernest W.)
L. & H. Stern, Inc., Brooklyn, N. Y. Smokers' pipes. Serial No. 468,822; June 6. Class 8.
Lehmann & Naegeli, New York, N. Y. Schiffli embroidered trimmings. Serial No. 466,450; June 6. Class 40.
Licata, Joseph, Chicago, Ill. Hair tonic. Serial No. 468,456; June 6. Class 6.
Lilee Products Company, Chicago, Ill. Vitamin capsules. Serial No. 468,518; June 6. Class 6.
MacAdam, A. E., & Co., Inc., Brooklyn, N. Y. Reverse tuck folding cardboard cartons. Serial No. 464,975; June 6. Class 2.
Marwyn Dairy Products Corporation, Chicago, Ill. Composition containing whey, soya and buttermilk solids. Serial No. 466,094; June 6. Class 46.
Mason Blouse and Sportswear, New York, N. Y. Toddlers', girls', junior misses' and misses' playsuits, pinafores and blouses. Serial No. 469,163; June 6. Class 39.

Meehanite Metal Corporation, New Rochelle, N. Y. Metallurgical cupolas. Serial No. 467,284; June 6. Class 34.
Michaels, Stern & Company, Inc., Rochester, N. Y. Men's suits, vests, trousers, etc. Serial No. 468,894; June 6. Class 39.
Mid-Way Produce. (See Villanueva, E.)
Millo, Louis R., Baltimore, Md. Newspaper articles. Serial No. 461,892; June 6. Class 38.
Mueller, L. J., Furnace Company, Milwaukee, Wis. Gas furnaces. Serial No. 466,332; June 6. Class 34.
Nabs-Oyle Co. (See Hulsh, R. R.)
Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and dolls' clothes. Serial No. 468,716; June 6. Class 22.
National Paper Box Co. Inc., West Springfield, Mass. Knock-down toy furniture. Serial No. 459,125; June 6. Class 22.
National Plastic Products Company, Odenton, Md. Plastic electrical circuit elements. Serial No. 466,355; June 6. Class 21.
National Ronzite Industries, Chicago, Ill. Placques. Serial No. 464,370; June 6. Class 50.
Nyanza Color & Chemical Co., Inc., New York, N. Y. Dyestuffs, aniline colors, and chemicals. Serial No. 463,794; June 6. Class 6.
Ohio Leather Company, The, Girard, Ohio. Leather. Serial No. 468,680; June 6. Class 1.
1-7-8 Company, San Francisco, Calif. Lemon flavored beverage base. Serial No. 468,088; June 6. Class 45.
Oxford Manufacturing Co., New York, N. Y. Smoking pipes. Serial No. 468,330; June 6. Class 8.
Peek Bros. and Superior Flour Company. (See Peek, Robert M.)
Peek, Robert M., doing business as Peek Bros. and Superior Flour Company, Little Rock, Ark. Wheat flour. Serial No. 464,497; June 6. Class 46.
Plastodent, Inc., New York, N. Y. Denture material. Serial Nos. 465,402–3; June 6. Class 44.
Pro-phy-lac-tic Brush Company, Northampton Mass. Hair brushes. Serial No. 468,473; June 6. Class 29.
Quaker Chemical Products Corporation, Conshohocken, Pa. Oils. Serial No. 467,862; June 6. Class 15.
Rainbow Children Dress Co., New York, N. Y. Girls' and children's dresses, pinafores, blouses, skirts, etc. Serial No. 469,168; June 6. Class 39.
Ralston Purina Company, St. Louis, Mo. Turkey poults. Serial No. 469,578; June 6. Class 46.
Rheumatkill Co., The. (See Dellaria, Guy T.)
Risvold, Anna, Chicago, Ill. Woven rugs. Serial No. 466,806; June 6. Class 42.
Rodman, Harry, New York, N. Y. Watches and watch movements. Serial No. 468,816; June 6. Class 27.
Rubber and Plastics Compound Co. Inc., New York, N. Y. Compound used as a base in the manufacture of rubber cement. Serial No. 468,162; June 6. Class 6.
Rystan Company, New York, N. Y. Therapeutic chlorophyll and chlorophyll derivatives preparations in various forms. Serial No. 467,539; June 6. Class 6.
S & S Chemical Company, Newark, N. J. Water-repellent preparation. Serial No. 467,898; June 6. Class 6.
Schreiber, A. H., Co. (See Schrieber, A. H., Co., Inc., assignor.)
Schreiber, A. H., Co., Inc., assignor to A. H. Schreiber Co., New York, N. Y. Ladies' panties. Serial No. 454,042; June 6. Class 39.
Selby Shoe Company, The, Portsmouth, Ohio. Shoes. Serial No. 467,899; June 6. Class 39.
Servicised Products Company. (See Fischer, Albert C.)
Shiva Food Products Co., New York, N. Y. Fruit chutney. Serial No. 466,864; June 6. Class 46.
Siegel Bros. Garment Corp., New York, N. Y. Woolen and worsted fabrics. Serial Nos. 468,638–9; June 6. Class 42.
Siegel Bros. Garment Corp., New York, N. Y. Woolen and worsted fabrics. Serial No. 468,983; June 6. Class 42.
Siegel, Jacob, Company, Philadelphia, Pa. Men's and young men's topcoats and overcoats. Serial No. 468,818; June 6. Class 39.
Sinclair, Max, Los Angeles, Calif. Shellac applying brushes and shellac applying mops. Serial No. 467,584; June 6. Class 29.
Smith, Bryan S., doing business as Bryan Smith Farms, Bakersfield, Calif. Fresh vegetables. Serial No. 468,478; June 6. Class 46.
Smith, Bryan, Farms. (See Smith, Bryan S.)
Stein, Hall Manufacturing Company, Chicago, Ill. Dextrinized or modified starch product. Serial No. 467,902; June 6. Class 5.
Stipp, Earnest V., Waterloo, Iowa. Games. Serial No. 464,592; July 6. Class 22.
Street & Smith Publications, Inc., New York, N. Y. Magazine. Serial No. 465,854; June 6. Class 38.
Supreme Pharmaceutical Company. (See Blackman, Julius, Corporation.)
Tailor Made Belt Co. (See Zakarin, Louis.)
Teen-Timers Inc., New York, N. Y. Children's dresses. Serial No. 467,385; June 6. Class 39.
Trans-American Development Corporation, New York, N. Y. Mechanics' files and rasps. Serial No. 468,271; June 6. Class 23.
Tremco Manufacturing Company, The, Cleveland, Ohio. Ready-mixed paint. Serial No. 469,173; June 6. Class 16.
Trosept Company, The, Huntington Park, Calif. Pharmaceutical preparation. Serial No. 467,361; June 6. Class 6.
Union Aircraft Products Corporation, New York, N. Y. Shielding conduit fittings for electrical wiring. Serial Nos. 466,960–3; June 6. Class 21.
United States Rubber Company, New York, N. Y. Sound damping laminated impregnated paper. Serial No. 466,964; June 6. Class 12.
Villanueva, E., doing business as Mid-Way Produce, Los Angeles, Calif. Fresh vegetables. Serial No. 468,654; June 6. Class 46.
Wasserman, Rene D., doing business as Eutectic Welding Alloys Company, New York, N. Y. Welding electrodes. Serial No. 469,028; June 6. Class 14.
Wilson's Leading Jewelers, Inc., Syracuse, N. Y. Diamond rings. Serial No. 468,652; June 6. Class 28.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning, cleansing and detergent material. Serial No. 464,843; June 6. Class 4.
Zakarin, Louis, doing business as Tailor Made Belt Co., New York, N. Y. Toy gun belts and holsters. Serial No. 467,507; June 6. Class 22.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Bacteriostatic sulfone compound. 407,420; June 6; Serial No. 462,609; published Oct. 12, 1943. Class 6.
Agua Imperial, Sociedad Anónima, Barcelona, Spain. Mineral waters, gases, powders, and salts for mineral waters, etc. 190,149; renewed Oct. 7, 1944.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J. Mattresses, box springs, and pillows. 407,542–3; June 6. Class 32.
Alt, William, doing business as Three Star Products, Chicago, Ill. Cleaning crystals. 407,448; June 6; Serial No. 465,351; published Mar. 28. 1944. Class 4.
American Aircraft Industries Publishing Corporation, New York, N. Y. Periodical. 407,551; June 6. Class 38.
American Smelting and Refining Company. (See Lissberger, Marks, & Son, Inc., assignor.)
America's Own Match Company, New York, N. Y. Matches. 407,427–8; June 6; Serial Nos. 463,369–70; published Mar. 21, 1944. Class 9.
America's Own Match Company, New York, N. Y. Matches. 407,429; June 6; Serial No. 463,372; published Mar. 21, 1944; Class 9.
Ames Baldwin Wyoming Co. (See Baldwin Tool Works, assignor.)
Ams, Max, Inc., New York, N. Y. Noodles. 407,442; June 6; Serial No. 464,772; published Mar. 28, 1944. Class 46.
Anderson Fire Fighting Equipment Company, Inc., New York, N. Y. Metal hose couplings. 407,461; June 6; Serial No. 465,752; published Mar. 28, 1944. Class 13.
Arcade File Works, Anderson, Ind., assignor to Nicholson File Company, Providence, R. I. Files and rasps. 186,935; renewed July 22, 1944.
Arnold, Charles, doing business as Arnold's and Chas. Arnold & Sons, to Louis Arnold, Peru, Ind., successor. Candy. 188,703; renewed Sept. 2, 1944.
Arnold, Louis. (See Arnold, Charles.)
Arnold's and Chas. Arnold & Sons. (See Arnold, Charles.)
Atlas Color & Chemical Co. (See Collins, P. Joseph.)
Aurora Equipment Company, Aurora, Ill. Store display fixtures. 407,445; June 6; Serial No. 464,935; published Mar. 28, 1944. Class 32.
Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Champagne and sparkling burgundy wine. 407,540; June 6. Class 47.
Baldwin Tool Works, assignor, by mesne assignments, to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, scoops, etc. 186,094; renewed July 1, 1944.
Ballard, W. P., & Company, Birmingham, Ala. Cleaning compound for linen, silk, and other textiles, etc. 407,416; June 6; Serial No. 461,993; published Mar. 28, 1944. Class 4.
Bardach & Schoene Co., Inc., Chicago, Ill. Artificial legs. 407,567; June 6. Class 44.

Barnett, G. & H., Company, Philadelphia, Pa., assignor to Nicholson File Company, Providence, R. I. Files and rasps. 186,114; renewed July 1, 1944.
Barnett, J. R., Harlingen, Tex. Fresh vegetables. 407,527; June 6; Serial No. 466,971; published Mar. 28, 1944. Class 46.
Barth-Feinberg, Inc., New York, N. Y. Musical string instruments, musical band instruments, etc. 407,538; June 6. Class 36.
Beiersdorf, P., & Co. Inc., New York, N. Y. to P. Beiersdorf & Co. Inc., Stamford, Conn. Wound dressing. 187,623; renewed Aug 5, 1944.
Berger Bros. Company, Philadelphia, Pa. Conductor pipe, conductor-pipe straps, conductor-pipe heads, etc. 188,106; renewed Aug. 19, 1944.
Betsy Bag Co. (See Eastern Mfg. Co.)
Bon Marche, The. (See Allied Stores Corporation.)
Boston & Lockport Block Company, Boston, to Boston & Lockport Block Company, East Boston, Mass. Pulleys or blocks. 185,205; renewed June 10, 1944.
Boston & Lockport Block Company, Boston, to Boston & Lockport Block Company, East Boston, Mass. Pulleys or blocks. 186,092; renewed July 1, 1944.
Botany Worsted Mills, Passaic, N. J. Woolen piece goods. 407,405; June 6; Serial No. 459,651; published Mar. 21, 1944. Class 42.
Bradford Dyeing Association (U. S. A.), Bradford, R. I. Cotton, wool, and silk fabrics. 188,786; renewed Sept. 2, 1944.
Brooks, E. J., Company, Newark, N. J. Base-metal truck-car and shipping-case seals, etc. 407,528; June 6; Serial No. 466,972; published Mar. 28, 1944. Class 25.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alley bed and gutter brushes. 407,460; June 6; Serial No. 465,730; published Mar. 28, 1944. Class 29.
Bugler Brand and Agencies Ltd, The, Vancouver, British Columbia, Canada. Cigarettes and smoking tobacco. 407,407; June 6. Serial No. 460,249; published Mar. 28, 1944. Class 17.
Burrell Technical Supply Company, Pittsburgh, Pa. Gas analysis apparatus. 407,562; June 6. Class 26.
Camp, Erwin, doing business as Camp Hosiery Mills, New York, N. Y. Men's, women's, and children's hosiery. 407,497; June 6; Serial No. 466,321; published Mar. 28, 1944. Class 39.
Camp Hosiery Mills. (See Camp, Erwin.)
Campana Sales Company, Batavia, Ill. Toilet soaps. 407,494; June 6; Serial No. 466,251; published Mar. 28, 1944. Class 6.
Campana Sales Company, Batavia, Ill. Colognes and perfumery. 407,495; June 6; Serial No. 466,252; published Mar. 21, 1944. Class 6.
Campus Sweater Company, The. (See Pontiac Knitting Mills Company, assignor.)
Cappell, MacDonald and Company, Dayton, Ohio. Toy blocks. 407,563; June 6. Class 22.
Carbide & Carbon Chemicals Corporation, New York, N. Y. Solvents for gums, resins, cellulose esters, etc. 190,229; renewed Oct. 7, 1944.
Carto-Pack Company, The. (See Phillips, Henry.)
Carvacrol Mfg. Co., The. (See Steinhauf, E. Martin.)
Charles of the Ritz, Inc., New York, N. Y. Perfumes, toilet waters, and bath salts. 407,503; June 6; Serial No. 466,404; published Mar. 21, 1944. Class 6.
Chief Press, Apopka, Fla. Magazine. 407,550; June 6. Class 38.
Chlorine Solutions, Inc., Los Angeles, Calif. Liquid and solid deodorants. 407,451; June 6; Serial No. 465,526; published Mar. 14, 1944. Class 6.
Chlorine Solutions, Inc., Los Angeles, Calif. Liquid and solid deodorants. 407,452; June 6; Serial No. 465,527; published Mar. 21, 1944. Class 6.
Clark, J. R., Company, The, Minneapolis, Minn. Ladders. 407,408; June 6; Serial No. 460,288; published Mar. 28, 1944. Class 50.
Cleveland Electro Metals Company, Cleveland, Ohio. Uniform unfinished castings of aluminum. 407,552; June 6. Class 1.
Cluett, Peabody & Co., Inc., Troy, N. Y. Negilee and dress shirts. 182,440; renewed Apr. 8, 1944.
Colcombet Cellars. (See Colcombet, Inc.)
Colcombet, Inc., doing business as Colcombet Cellars, San Francisco, Calif. Brandy. 407,547; June 6. Class 49.
Collin County Mill & Elevator Co., McKinney, assignor to Tex-O-Kan Flour Mills Company, Dallas, Tex. Wheat flour. 182,035; renewed Apr. 1, 1944.
Collin County Mill & Elevator Co., McKinney, assignor to Tex-O-Kan Flour Mills Company, Dallas, Tex. Wheat flour. 182,644; renewed Apr. 15, 1944.
Collins, Ashton B., doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Circulars, booklets, and printed advertising material. 407,504–5; June 6. Serial Nos. 466,430–1; published Mar. 21, 1944. Class 38.
Collins, P. Joseph, doing business as Atlas Color & Chemical Co., Boston, Mass. Agents acting as a resist for wool and used in a dye bath. 407,455; June 6; Serial No. 465,646; published Mar. 14, 1944. Class 6.
Colonial Mfg. Co. Inc., New York, N. Y. Finger-rings and brooches made of precious metalware. 407,484; June 6; Serial No. 465,974; published Mar. 28, 1944. Class 28.
Colonial Process Supply Co., New York, N. Y. Non-sensitized photographic film. 407,424; June 6; Serial No. 463,227; published Mar. 14, 1944. Class 50.
Colonial Process Supply Co., New York, N. Y. Paints in paste form, varnishes, and lacquers. 407,425; June 6; Serial No. 463,228; published Mar. 21, 1944. Class 16.
Columbia Tool Steel Company, Chicago Heights, to Columbia Tool Steel Company, Chicago and Chicago Heights, Ill., Detroit, Mich., Cincinnati and Cleveland, Ohio, and Milwaukee, Wis. Tool steel. 190,241; renewed Oct. 7, 1944.
Commercial Chemical Company, The, Los Angeles, Calif. Insecticides, germicides, deodorants, etc. 407,560; June 6. Class 6.
Conde Nast Publications, Inc., The, New York, N. Y. Monthly magazine. 407,439; June 6; Serial No. 464,645; published Mar. 28, 1944. Class 38.
Consolidated Textile Co., Inc., New York, N. Y. Cotton piece goods, white, dyed, and printed. 407,399; June 6; Serial No. 455,723; published Jan. 5, 1943. Class 42.
Cotnam, Truman P., doing business as The National Rat and Mouse Exterminator Co., Milwaukee, Wis. Rodent poison. 407,565; June 6. Class 6.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 407,469; June 6; Serial No. 465,894; published Mar. 21, 1944. Class 6.
Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, blouses, suits, etc. 407,409; June 6; Serial No. 460,690; published Mar. 28, 1944. Class 39.
Cuesta, Rey & Company, Tampa, Fla. Cigars. 190,154; renewed Oct. 7, 1944.
Dare, Virginia, Extract Company, Inc., Brooklyn, N. Y. Food flavoring preparation. 407,536; June 6. Class 46.
Davidson Manufacturing Corporation, Chicago, Ill. Duplicating machines. 407,537; June 6. Class 23.
Dawe's Products Co., Chicago, Ill. Soluble supplement used in combination with animal and poultry feeds. 407,392; June 6; Serial No. 424,909; published Apr. 2, 1940. Class 46.
Dean, Oliver W., doing business as Saf-Kil Company, Benton Harbor, Mich. Red squill rat and rodent bait. 407,548; June 6. Class 6.
Dearborn Chemical Company, Chicago, Ill. Cleaner and other certain named cleaners, etc. 188,806; renewed Sept. 2, 1944.
De Metz, Louis Hirsch, Company, New York, N. Y. Watches, watch-movements, watchcases, etc. 407,491; June 6; Serial No. 466,194; published Mar. 28, 1944. Class 27.
Denville Silk Co., assignor to Denville Silk Company, New York, N. Y. Silk goods and silk shirtings. 189,107; renewed Sept. 9, 1944.
Detroit Steel Products Company, Detroit, Mich. Vehicle springs. 184,870; renewed June 3, 1944.
Dey Brothers & Company. (See Allied Stores Corporation.)
Diaz, Manuel Fernandez, Mexico City, Mexico. Fabrication of aquardiente and wine. 407,421; June 6; Serial No. 462,795; published Feb. 22, 1944. Class 49.
Distillers Agency Limited, The, Edinburgh, Scotland. Scotch whisky. 407,434; June 6; Serial No. 464,082; published Feb. 29, 1944. Class 49.
Earnshaw Publications, Inc. (See Earnshaw Sales Company.)
Earnshaw Sales Company, Chicago, Ill., by change of name to Earnshaw Publications, Inc., Newton, Mass. Magazine. 189,930–1; renewed Sept. 30, 1944.
Eastern Mfg. Co., doing business as Betsy Bag Co., Boston, Mass. Handbags. 407,521; June 6; Serial No. 466,755; published Mar. 28, 1944. Class 3.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 407,481; June 6; Serial No. 465,945; published Mar. 21, 1944. Class 6.
Eaton, Charles A., Company, Brockton, Mass. Boots and shoes. 407,499; June 6; Serial No. 466,347; published Mar. 28, 1944. Class 39.
Electric Game Co., Inc., The, Holyoke, Mass. Board games. 407,555–6; June 6. Class 22.
Electronic Specialty Co. (See Marcus, David A.)
Elsworth, W., Co., The, assignor to William E. Pelcher, New Haven, Conn. Foot ointment. 407,463; June 6; Serial No. 465,796; published Mar. 21, 1944. Class 6.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. 407,470; June 6; Serial No. 465,901; published Mar. 21, 1944. Class 38.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. 407,471–4; June 6; Serial Nos. 465,905–8; published Mar. 21, 1944. Class 38.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. 407,475–6; June 6; Serial Nos. 465,910–11; published Mar. 21, 1944. Class 38.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. 407,477; June 6; Serial No. 465,913; published Mar. 21, 1944. Class 38.
Famous Lubricants, Inc., assignor to Famous Lubricants, Chicago, Ill. Lubricating fluid. 407,393; June 6; Serial No. 432,813; published Aug. 6, 1940. Class 15.

Forest City Products, Inc., Cleveland, Ohio. Medicated corn pads, medicated corn plaster, etc. 407,404; June 6; Serial No. 459,539; published Mar. 21, 1944. Class 6.

Forstmann Woolen Co. (See Forstmann & Huffmann Company, assignor.)

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 183,810; renewed May 6, 1944.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 185,700–1; renewed June 24, 1944.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 185,703; renewed June 24, 1944.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 185,706–7; renewed June 24, 1944.

Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 185,734; renewed June 24, 1944.

Fries Bros., Inc., New York, N. Y. 1-methyl-3-dimethylcyclohexanol-(5) used as a substitute for menthol. 407,446; June 6; Serial No. 465,105; published Jan. 18, 1944. Class 6.

Fuld Bros., also doing business as George Stuart Timesavers, Baltimore, Md. Dish washing compound. 407,450; June 6; Serial No. 465,473; published Mar. 28, 1944. Class 4.

Gallowhur Chemical Corporation, Windsor, Vt. Cough drops. 407,500; June 6; Serial No. 466,376; published Mar. 21, 1944. Class 6.

Geigy Company, Inc., New York, N. Y. Organic chemotherapeutic products for the treatment of infections, etc. 407,464; June 6; Serial No. 465,803; published Mar. 14, 1944. Class 6.

General Shoe Corporation, Nashville, Tenn. Shoe and boot polish. 407,519; June 6; Serial No. 466,695; published Mar. 288, 1944. Class 4.

Glove Corporation, The, Alexandria, Ind. Gloves. 189,363; renewed Sept. 16, 1944.

Good Eatin' Dog Food. (See Rosenberg, Pearl.)

Goodman, Bessie, doing business as The Nomayde Company, Brooklyn, N. Y. Dry cleaners and soaps. 407,454; June 6; Serial No. 465,624; published Mar. 28, 1944. Class 4.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Polyvinyl resins useful for conversion into finished products. 407,523; June 6; Serial No. 466,791; published Mar. 28, 1944. Class 1.

Gould, William M., Houston, Tex. Roach insecticide. 407,430; June 6; Serial No. 463,516; published Mar. 21, 1944. Class 6.

Green Thumb Gardens, Arcanum, Ohio. Nursery products. 407,413; June 6; Serial No. 461,889; published Mar. 28, 1944. Class 1.

Guth, Edwin F., Company, The, St. Louis, Mo. Electric lighting fixtures for fluorescent lamps. 407,485; June 6; Serial No. 466,040; published Mar. 28, 1944. Class 21.

Haering, D. W., & Co., Inc., Chicago, Ill. Chemical product. 407,465; June 6; Serial No. 465,805; published Mar. 21, 1944. Class 6.

Hamilton Manufacturing Company, Two Rivers, Wis., and Rahway, N. J. Laboratory and special professional furniture. 407,400; June 6; Serial No. 457,934; published Mar. 28, 1944. Class 32.

Hardtmuth, L. & C., Inc. (See Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis, assignor.)

Hoover, Geo. D., Manufacturing Pharmacist. (See Hoover, Georgia L.)

Hoover, Georgia L., doing business as Geo. D. Hoover Manufacturing Pharmacist, Des Moines, Iowa. Pharmaceutical preparations. 407,541; June 6. Class 6.

Hospital Liquids, Inc., Chicago, Ill. Suspensoids, emulsions and medicament vehicles for treatment of the skin. 407,432; June 6; Serial No. 463,783; published Dec. 7, 1943. Class 6.

Hubinger Co., The., Keokuk, Iowa. Laundry starch. 407,431; June 6; Serial No. 463,542; published Nov. 30, 1943. Class 6.

Illinois Remedial Company. (See McCauley, Wallace G.)

Indian Arts and Crafts Board, Washington, D. C. Paintings (both oil and watercolor) and drawings. 407,502; June 6; Serial No. 466,392; published Mar. 14, 1944. Class 38.

Indian Arts and Crafts Board, Washington, D. C. Bead necklaces. 407,507; June 6; Serial No. 466,496; published Mar. 28, 1944. Class 28.

Indian Arts and Crafts Board, Washington, D. C. Canoes. 407,508; June 6; Serial No. 466,498; published Mar. 28, 1944. Class 50.

Indian Arts and Crafts Board, Washington, D. C. Dolls. 407,531; June 6; Serial No. 467,080; published Mar. 28, 1944. Class 22.

Indian Arts and Crafts Board, Washington, D. C. Leather baskets, leather wastepaper baskets. 407,532; June 6; Serial No. 467,079; published Mar. 28, 1944. Class 2.

Indian Arts and Crafts Board, Washington, D. C. Willow bed-ends. 407,533; June 6; Serial No. 467,082; published Mar. 28, 1944. Class 32.

International Braid Company, Providence, R. I. Shoe lacings, corset lacings, underwear lacings, etc. 188,605; renewed Sept. 2, 1944.

International Braid Company, Providence, R. I. Shoe lacings, corset lacings, underwear lacings, etc. 188,847; renewed Sept. 2, 1944.

International Braid Company, Providence, R. I. Shoe lacings, corset lacings, underwear lacings, etc. 188,850; renewed Sept. 2, 1944.

International Distributors, Inc., New York, N. Y. Rum. 407,554; June 6. Class 49.

James Manufacturing Company, Fort Atkinson, Wis. Chick brooders. 407,535; June 6. Class 50.

Just Born, Inc., New York, N. Y., to Just Born, Inc., Bethlehem, Pa. Candies and chocolates. 184,647; renewed May 27, 1944.

Katz & Ogush, Inc., New York, N. Y., by change of name to William B. Ogush, Inc. Watches, watch movements and watchcases. 188,761; renewed Sept. 2, 1944.

Kearney & Foot Company, Paterson, N. J., assignor to Nicholson File Company, Providence, R. I. Files and rasps. 184,754; renewed June 3, 1944.

Keeve, Frank, New York, N. Y. Tooth powder. 407,456; June 6; Serial No. 465,682; published Mar. 21, 1944. Class 6.

Kelco Company, San Diego, Calif. Algin product. 407,419; June 6; Serial No. 462,316; published Sept. 28, 1943. Class 16.

KelRay Knitting Mills. (See Krumholz & Lichtblau.)

Kendrick & Lindblad, Aurora and Alton, Ill. Ophthalmic lenses, spectacle frames, and spectacle cases. 407,534; June 6. Class 26.

Keystone Manufacturing Co., The, Buffalo, N. Y. Kits of socket wrenches. 190,109; renewed Oct. 7, 1944.

Kirkpatrick, L. H., Walsenburg, Colo. Nonalcoholic, noncereal, maltless beverages. 190,136; renewed Oct. 7, 1944.

Kitchen Maid Corporation, The, Andrews, Ind. Kitchen cabinet base units, wall units, storage units, etc. 407,449; June 6; Serial No. 465,363; published Mar. 28, 1944. Class 32.

Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis, Budweis, Czechoslovakia, assignor, by mesne assignments, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Writing pencils. 184,578; renewed May 27, 1944.

Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis, Budweis, Czechoslovakia, assignor, by mesne assignments, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Copying-ink pencils. 185,023; renewed June 3, 1944.

Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis, Budweis, Czechoslovakia, assignor, by mesne assignments, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Copying pencils, colored-chalk pencils, propelling pencils, etc. 185,024–5; renewed June 3, 1944.

Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis, Budweis, Czechoslovakia, assignor, by mesne assignments, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Copying lead pencils, copying ink pencils, pencil leads, etc. 185,406; renewed June 17, 1944.

Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis, Budweis, Czechoslovakia, assignor, by mesne assignments, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Fountain pens, pen nibs, fountain-pen clips, etc. 185,448; renewed June 17, 1944.

Kops Bros., Inc., New York, N. Y. Elastic webbing. 183,065; renewed Apr. 22, 1944.

Kops Bros., Inc., New York, N. Y. Elastic webbing. 185,006; renewed June 3, 1944.

Kops Bros., Inc., New York, N. Y. Corsets, brassières, bust supporters, etc. 186,513; renewed July 22, 1944.

Krumholz & Lichtblau, doing business as KelRay Knitting Mills, New York, N. Y. Ladies', misses', and children's panties, step-in underdrawers, bandeaux, etc. 407,418; June 6; Serial No. 462,256; published Mar. 28, 1944. Class 39.

Lawrence, A. C., Leather Company, Peabody, Mass. Leather. 407,511; June 6; Serial No. 466,534; published Mar. 28, 1944. Class 1.

Lawrence, Stephen, Co. (See Reich, Leonard.)

Laxamin Laboratories, Richmond Hill, N. Y. Laxative. 184,360; renewed May 20, 1944.

Lee Uniform Cap Manufacturing Company, Baltimore, Md. Uniform caps and hats. 407,414; June 6; Serial No. 461,891; published Mar. 28, 1944. Class 39.

Lelong, Lucien, Inc., Chicago, Ill. Toilet water. 407,478; June 6; Serial No. 465,924; published Mar. 14, 1944. Class 6.

Lilley-Ames Company, The, Columbus, Ohio. Men's apparel. 407,401; June 6; Serial No. 458,103; published Mar. 28, 1944. Class 39.

Lissberger, Marks, & Son, Inc., Long Island City, assignor to American Smelting and Refining Company, New York, N. Y. Babbitt metal. 184,372; renewed May 20, 1944.

Lister & Company, Limited, Bradford, England, and New York, N. Y., to Lister & Company Limited, Bradford, England. Mohair pile fabrics. 24,776; re-renewed May 29, 1944.

Lotte Chemical Company, Inc., Paterson, N. J. Chemical compositions for the control of acid pickling baths for metals. 407,467; June 6; Serial No. 465,845; published Mar. 14, 1944. Class 6.

Lush, C. E., assignor to Lush's Luscious Honey, Orange, Calif. Honey. 407,539; June 6. Class 46.

Lush's Luscious Honey. (See Lush, C. E., assignor.)

Lusterol Manufacturing Company, The. (See Selkow, Irving.)

Magill-Weinsheimer Company, assignor to Transo Envelope Company, Chicago, Ill. Window envelopes. 185,393; renewed June 17, 1944.

Magill-Weinsheimer Company, assignor to Transo Envelope Company, Chicago, Ill. Window envelopes. 189,511–12; renewed Sept. 23, 1944.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. 407,522; June 6; Serial No. 466,761; published Mar. 28, 1944. Class 39.

Manufacturers Supplies Company, St. Louis, Mo. Threads. 407,516; June 6; Serial No. 466,617; published Mar. 28, 1944. Class 43.

Maple Grove Candies, Inc., St. Johnsbury, Vt., by change of name to Maple Grove, Incorporated. Maple cream, maple sirup, maple sugar in bulk, etc. 182,475; renewed Apr. 8, 1944.

Maple Grove, Incorporated. (See Maple Grove Candies, Inc.)

Marcus, David A., doing business as Electronic Specialty Co., Los Angeles, Calif. Electronic device for rectifying A. C. current into D. C. current. 407,433; June 6; Serial No. 464,003; published Mar. 28, 1944. Class 21.

Marrus, Isaac I., New York, N. Y. Combs, bobby pins, and hair pins. 407,436; June 6; Serial No. 464,440; published Mar. 28, 1944. Class 40.

Martin, Henry G., Buenos Aires, Argentina. Fountain pens. 407,462; June 6; Serial No. 465,781; published Mar. 28, 1944. Class 37.

Martin, W. P., & Sons, Lubbock, Tex. Grain seeds. 407,557–8; June 6. Class 1.

McCauley, Wallace G., doing business as Illinois Remedial Company, Chicago, Ill. Nasal prophylactic. 407,447; June 6; Serial No. 465,349; published Mar. 14, 1944. Class 6.

McClellan Stores Company, New York, N. Y. Children's and infants' overalls. 407,479; June 6; Serial No. 465,925; published Mar. 28, 1944. Class 39.

McNair, Louise R., Warsaw, to Louise R. McNair, Arcade, N. Y. Knitted diapers. 188,946; renewed Sept. 9, 1944.

Meeker, Roy J., Los Angeles, Calif. Women's, misses', and children's girdles, panty girdles, corsets, etc. 407,482; June 6; Serial No. 465,953; published Mar. 28, 1944. Class 39.

Metasap Chemical Company, Harrison, N. J. Metallic soap composition. 407,440; June 6; Serial No. 464,656; published Mar. 14, 1944. Class 6.

Miklas, Agnes, South Fork, Pa. Medicine for the treatment of cancer. 407,423; June 6; Serial No. 463,026; published Oct. 26, 1943. Class 6.

Millville Manufacturing Company, The, Philadelphia, Pa. Cotton piece goods. 189,913; renewed Sept. 30, 1944.

Minot, Hooper & Co., New York, N. Y. Cotton piece goods. 188,386; renewed Aug. 26, 1944.

Molloy, Thos. J., & Co., Inc., New York, N. Y. Gin. 407,544; June 6. Class 49.

Morris White Fashions, Inc., New York, N. Y. Ladies' handbags. 407,568; June 6. Class 3.

Motloid Co., Inc., The, Chicago, Ill. Acrylic denture base material. 407,529; June 6; Serial No. 467,042; published Mar. 28, 1944. Class 44.

Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Calif. Fresh vegetables. 407,410; June 6; Serial No. 461,148; published Mar. 28, 1944. Class 46.

National Parks Association, The, Washington, D. C. Magazine. 407,566; June 6. Class 38.

National Publishing Company, Philadelphia, Pa. Bibles, testaments, prayer and similar books. 407,506; June 6; Serial No. 466,455; published Mar. 21, 1944. Class 38.

National Rat and Mouse Exterminator Co., The. (See Cotnam, Truman P.)

National Silver Company, New York, N. Y. Ladies' compacts of plastic or composition, etc., containing powder puffs. 407,520; June 6; Serial No. 466,738; published Mar. 28, 1944. Class 2.

Newby, General Tyler, Paterson, N. J. Medicine for use in the treatment of rheumatism. 407,545; June 6. Class 6.

New Haven Quilt & Pad Company, The, New Haven, Conn. Comfortables. 407,438; June 6; Serial No. 464,582; published Mar. 28, 1944. Class 42.

Nicholson File Company. (See Arcade File Works, assignor.)

Nicholson File Company. (See Barnett, G. & H., Company, assignor.)

Nicholson File Company. (See Kearney & Foot Company, assignor.)

Nicholson File Company, Providence, R. I. Files and rasps. 185,282; renewed June 10, 1944.

Nicholson File Company, Providence, R. I. Files and rasps. 187,276; renewed July 29, 1944.

Niser Ice Cream Company, The, Cincinnati, Ohio. Ice cream. 190,227; renewed Oct. 7, 1944.

Nomayde Company, The. (See Goodman, Bessie.)

North American Aviation, Inc., Inglewood, Calif. Shop bulletin issued periodically. 407,517; June 6; Serial No. 466,619; published Mar. 14, 1944. Class 38.

Norton Company, Worcester, Mass. Grinding machines and attachments thereto. 190,250; renewed Oct. 7, 1944.

Norton Company, Worcester, Mass. Abrasive products. 407,512–13; June 6; Serial Nos. 466,537–8; published Mar. 28, 1944. Class 4.

Nyal Company. (See Frederick Stearns & Company, assignor.)

Nyal Company, Detroit, Mich. Foot powder. 407,398; June 6; Serial No. 455,671; published Mar. 21, 1944. Class 6.

Ogden Manufacturing Company, Chicago, Ill. Electric heating elements. 187,905; renewed Aug. 12, 1944.

Ogush, William B., Inc. (See Katz & Ogush, Inc.)

Ohio Match Company, The, Wadsworth, Ohio, assignor, by mesne assignments, to The Ohio Match Company, New York, N. Y., and Wadsworth, Ohio. Matches. 187,700; renewed Aug. 12, 1944.

Once Lifetime Starch Co., Not Inc., Chicago, Ill. Laundry starch. 407,501; June 6; Serial No. 466,383; published Mar. 14, 1944. Class 6.

Onyx Oil & Chemical Company, Jersey City, N. J. Quaternary ammonium antiseptic compound. 407,496; June 6; Serial No. 466,308; published Mar. 14, 1944. Class 6.

Pangburn Company, Inc., Fort Worth, Tex. Candy. 407,530; June 6; Serial No. 467,045; published Mar. 28, 1944. Class 46.

Parfums Renel. (See Reich, Leonard.)

Parker Appliance Company, The, Cleveland, Ohio. Printed publication. 407,487; June 6; Serial No. 466,100; published Mar. 21, 1944. Class 38.

Parfums Blanchard, New York, N. Y. Perfumes, toilet waters, bath powders and lotions. 407,514; June 6; Serial No. 466 539; published Mar. 21, 1944. Class 6.

Pelcher, William E. (See Elsworth, W., Co., assignor.)

Peters, Leo, Oklahoma City, Okla. Nonalcoholic maltless beverages, etc. 407,457; June 6; Serial No. 465,690; published Mar. 14, 1944. Class 45.

Phillips, Henry, doing business as The Carto-Pack Company, Grand Rapids, Mich. Mailing cartons with adjustable dividers, etc. 407,492; June 6; Serial No. 466,229; published Mar. 28, 1944. Class 2.

Pickrodt Cheese Company, Inc., Brooklyn, N. Y. Cheese. 407,549; June 6. Class 46.

Pig'n Whistle Corporation, San Francisco, Calif. Confectionery, and bakery products. 407,394; June 6; Serial No. 433,624; published Oct. 12, 1943. Class 46.

Plee-Zing, Inc., Chicago, Ill. Cleansing preparation consisting principally of tri-sodium phosphate, etc. 407,417; June 6; Serial No. 462,211; published Mar. 28, 1944. Class 4.

Polin Chemical Co. (See Poling, Guy H.)

Poling, Guy H., doing business as Poling Chemical Co., Minneapolis, Minn. Liquid antiseptic. 407,422; June 6; Serial No. 463,001; published Mar. 21, 1944. Class 6.

Pons, Helene, New York, N. Y. Ladies' and misses' vestees. 407,525; June 6; Serial No. 466,928; published Mar. 28, 1944. Class 39.

Pontiac Knitting Mills Company, The, assignor to The Campus Sweater Company, Cleveland, Ohio. Sweaters. 189,503; renewed Sept. 23, 1944.

Porzellanfabrik Ph. Rosenthal & Co. A. G., Berlin, Germany, assignor to The Rosenthal China Corporation, New York, N. Y. Crockery, earthenware and porcelain. 185,795; renewed June 24, 1944.

Quackenbush Company. (See Allied Stores Corporation.)

Queen Anne Candy Company, assignor to Queen Anne Candy Corporation, Seattle, Wash. Candy and nut confections. 186,771; renewed July 22, 1944.

Queen Anne Candy Corporation. (See Queen Anne Candy Company, assignor.)

Ralston Purina Company, St. Louis, Mo. Baby turkeys. 407,402; June 6; Serial No. 458,249; published Mar. 28, 1944. Class 46.

Reco Sales Co., Inc., New York, N. Y. Nonintoxicating, nonalcoholic, noncereal maltless fruit beverages. 407,553; June 6. Class 45.

Reddy Kilowatt. (See Collins, Ashton B.)

Reich, Leonard, doing business as Stephen Lawrence Co. and Parfums Renel, Mount Vernon, N. Y. Perfumes. 407,483; June 6; Serial No. 465,956; published Mar. 21, 1944. Class 6.

Reine, Inc., New York, N. Y. Perfumes and cosmetics. 407,412; June 6; Serial No. 461,809; published Mar. 21, 1944. Class 6.

Rice-Stix Dry Goods Company, St. Louis, Mo. Dolls. 190,153; renewed Oct. 7, 1944.

Robinson, Alice G., Washington, D. C. Periodical publication. 407,564; June 6. Class 38.

Robinson, Jesse L., New Orleans, La. Nonalcoholic, noncereal, maltless beverage. 189,184; renewed Sept. 16, 1944.

Robinson & Sverdlik, New York, N. Y. Semiprecious and precious stones. 407,569; June 6. Class 28.

Rogers Peet Company, New York, N. Y. Men's and boys' hats, caps, outer shirts, etc. 407,403; June 6; Serial No. 459,376; published Mar. 28, 1944. Class 39.

Romano, R., & Son, (See Romano, Tully.)

Romano, R., & Son, Inc. (See Romano, Tully, assignor.)

Romano, Tully, doing business as R. Romano & Son, assignor to R. Romano & Son, Inc., New York, N. Y. Olive oil. 184,397; renewed May 20, 1944.

Root, Charles S., doing business as Charles S. Root Mfg. Co., Springfield, Mass. Ornaments. 407,559; June 6. Class 50.
Root, Charles S., Mfg. Co. (See Root, Charles S.)
Rosenberg, Pearl, doing business as Good Eatin' Dog Food Co., Philadelphia, Pa. Dog food. 407,570; June 6. Class 46.
Rosenbolz, J., Inc., New York, N. Y. Rayon piece goods. 407,526; June 6; Serial No. 466,952; published Mar. 28, 1944. Class 42.
Rosenthal China Corporation, The. (See Rosenthal-Porzellanfabrik vorm. Jac. Zeidler & Co.)
Rosenthal-Porzellanfabrik vorm. Jac. Zeidler & Co., Bahnhof Selb, Germany, assignor to The Rosenthal China Corporation, New York, N. Y. China. 182,977; renewed Apr. 22, 1924.
Rothkopf, Samuel. (See State Textile Corporation, as signor.)
Rourke, Robert U., Dudley, Mass. Seed and plant information chart. 407,546; June 6. Class 38.
Saf-Kil Company. (See Dean, Oliver W.)
Saginaw Salt Products Company, Saginaw, Mich. Salt. 187,261; renewed July 29, 1944.
Savoy Watch Co. Inc., New York, N. Y. Watches, watch-cases, watch movements, and parts thereof. 188,608–9; renewed Sept. 2, 1944.
Scarlett, Wm. G., doing business as Wm. G. Scarlett & Company, Baltimore, Md. Clover, grass, field, and forage seeds. 189,943; renewed Sept. 30, 1944.
Schultz, Baujan & Co., to Schultz, Baujan & Co., Boardstown, Ill., successor. Wheat flour. 186,769; renewed July 22, 1944.
Security Mills, Knoxville, Tenn., by change of name to Security Mills, Inc. Horse feed, dairy feed, and scratch feed. 189,892; renewed Sept. 30, 1944.
Security Mills, Inc. (See Security Mills.)
Selkow, Irving, doing business as Washington Barber Supply Co., New York, to Irving Selkow, doing business as The Lusterol Manufacturing Company, Niagara Falls, N. Y. Hair dressing preparation. 184,824; renewed June 3, 1944.
Sherman Bros. Manufacturing Co. Inc., South Norwalk, Conn. Ladies' and misses' shoes and slippers, etc. 407,443; June 6; Serial No. 464,799; published Mar. 21, 1944. Class 39.
Shirley Fabrics Corp., New York, N. Y. Textile fabrics. 407,509; June 6; Serial No. 466,514; published Mar. 28, 1944. Class 42.
Sica Bros., New York, N. Y. Ladies' and misses' blouses, vestees and jackets. 407,524; June 6; Serial No. 466,865; published Mar. 28, 1944. Class 39.
Simpson, Wesley, Inc., New York, N. Y. Rayon, cotton, wool, worsted, and silk piece goods. 407,466; June 6; Serial No. 465,832; published Mar. 21, 1944. Class 42.
Smith, Isidore, New York, N. Y. Woolen and worsted fabrics in the piece. 407,489; June 6; Serial No. 466,178; published Mar. 28, 1944. Class 42.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Insecticide. 407,510; June 6; Serial No. 466,517; published Mar. 21, 1944. Class 6.
Solvay Process Company, The, Solvay, to The Solvay Process Company, New York, N. Y. Chemical cleansing and washing compounds. 189,925; renewed Sept. 30, 1944.
Solvay Process Company, Solvay, to The Solvay Process Company, New York, N. Y. Soda ash (sodium carbonate). 189,968; renewed Sept. 30, 1944.
Speare Supply Company, The, Chicago, Ill. Laundry sour. 407,518; June 6; Serial No. 466,625; published Mar. 21, 1944. Class 6.
Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Compass repeaters, compass controlled directional gyroscopes, etc. 407,437; June 6; Serial No. 464,449; published Mar. 28, 1944. Class 26.
Standard Brands Incorporated, New York, N. Y. Non-irradiated dried yeast; irradiated dried yeast; ergosterol, etc. 407,459; June 6; Serial No. 465,720; published Mar. 21, 1944. Class 6.
State Textile Corporation, assignor to Samuel Rothkopf, New York, N. Y. Hosiery. 182,700; renewed Apr. 15, 1944.
Stearns, Frederick, & Company, Detroit, Mich. Perfume, toilet water, face powder, etc. 182,796; renewed Apr. 15, 1944.
Stearns, Frederick, & Company, assignor to Nyal Company, Detroit, Mich. Flavorings for food. 183,503; renewed Apr. 29, 1944.
Steinlauf, E. Martin, doing business as The Carvacrol Mfg. Co., Norwalk, Conn. Preparation for alleviating pain. 407,468; June 6; Serial No. 465,853; published Mar. 14, 1944. Class 6.
Stickless Corporation, The, New York, N. Y. Stationery. 407,396; June 6; Serial No. 450,818; published Mar. 28, 1944. Class 37.
Stuart, George, Timesavers. (See Fuld Bros.)
Studios, Inc., Watham, Mass. Lounge chairs. 407,486; June 6; Serial No. 466,054; published Mar. 28, 1944. Class 32.
Sunset Incorporated, Chicago, Ill. Rum. 407,561; June 6. Class 49.
Tanglefoot Company, The. (See Thum, O. & W., Company.)
Terhune, Yereance & Wolff, Inc., New York, N. Y. Woolen fabrics. 407,488; June 6; Serial No. 466,131; published Mar. 28, 1944. Class 42.
Tex-O-Kan Flour Mills Company. (See Collin County Mill & Elevator Co., assignor.)
Thoma, Arthur J., Springfield, Mass. Periodical published from time to time. 407,415; June 6; Serial No. 461,938; published Mar. 21, 1944. Class 38.
Thompson, W. S., Products, Inc., Washington, D. C. Vitamin capsules. 407,441; June 6; Serial No. 464,768; published Jan. 11, 1944. Class 6.
Three Star Products. (See Alt, William.)
Thum, O. & W., Company, Grand Rapids, Mich., by change of name to The Tanglefoot Company. Insecticide. 187,918; renewed Aug. 12, 1944.
Toledo Blade Company, The, Toledo, Ohio. Newspaper published periodically. 407,444; June 6; Serial No. 464,905; published Mar. 28, 1944. Class 38.
Transo Envelope Company. (See Magill-Weinsheimer Company, assignor.)
Tresco & Associates, Incorporated, Detroit, Mich. Bar mixer for alcoholic drinks. 407,453; June 6; Serial No. 465,589; published Feb. 29, 1944. Class 49.
Trojan Products & Mfg. Co., Chicago, Ill. Oil absorbing mineral compound. 407,426; June 6; Serial No. 463,339; published Mar. 14, 1944. Class 6.
Turner & Walls, assignor, by mesne assignments, to Albert H. Vandam Co., Inc., New York, N. Y. Cotton piece goods. 189,045; renewed Sept. 9, 1944.
Turner & Walls, assignor, by mesne assignments, to Albert H. Vandam Co., Inc., New York, N. Y. Shirtings. 189,529; renewed Sept. 23, 1944.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils and fuel oils. 183,032–3; renewed Apr. 22, 1944.
United Shoe Machinery Corporation, Boston, Mass. Adhesives containing natural gums, animal or fish glue, etc. 407,406; June 6; Serial No. 460,164; published Mar. 28, 1944. Class 5.
Valley Evaporating Company, Yakima, Wash. Dehydrated fruits and vegetables. 407,411; June 6; Serial No. 461,725; published Jan. 11, 1944. Class 46.
Vandam, Albert H., Co., Inc. (See Turner & Walls, assignor.)
Varniton Company, The, Los Angeles, Calif. Filter cloth. 407,490; June 6; Serial No. 466,184; published Mar. 28, 1944. Class 42.
Vejin, Inc., Cincinnati, Ohio. Lanolin substitute. 407,515; June 6; Serial No. 466,598; published Mar. 21, 1944. Class 6.
Venus Corporation, The, New York, N. Y. Sanitary napkins, compressed sanitary napkins, sanitary aprons, etc. 187,935; renewed Aug. 12, 1944.
Ward Baking Company, New York, N. Y. Bread and cake. 190,174; renewed Oct. 7, 1944.
Wasco Oilsilk Products Company, New York, N. Y. Piece goods. 407,458; June 6; Serial No. 465,701; published Mar. 28, 1944. Class 42.
Washington Barber Supply Co., See Selkow, Irving.)
Wechsler, Jacob, & Sons, New York, N. Y. Suspenders, belts, garters, etc. 407,480; June 6; Serial No. 465,934; published Mar. 21, 1944. Class 39.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric laundry washers. 407,395; June 6; Serial No. 439,677; published Mar. 14, 1944. Class 24.
Whipple Company, The, Natick, Mass. Sirups for making soft drinks. 407,493; June 6; Serial No. 466,244; published Mar. 14, 1944. Class 45.
Wilmar Manufacturing Company, Inc., Philadelphia, Pa. Peanut butter. 189,982; renewed Sept. 30, 1944.
Wolf, Jacques, & Co., Passaic, N. J. Starch for the decomposition of starches. 181,285; renewed Mar. 18, 1944.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Product comprising dry soluble alkaline powders for cleaning, etc. 407,435; June 6; Serial No. 464,152; published Mar. 28, 1944. Class 4.
Your Health Publications, Inc., New York, N. Y. Magazine. 407,397; June 6; Serial No. 454,818; published Mar. 21, 1944. Class 38.
Zinsser, Wm., & Co. Inc., New York, N. Y. Granular resinous material. 407,498; June 6; Serial No. 466,338; published Mar. 28, 1944. Class 1.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather. A. C. Lawrence Leather Company. 407,511; June 6; Serial No. 466,534; published Mar. 28, 1944.
Nursery products. Green Thumb Gardens. 407,413; June 6; Serial No. 461,889; published Mar. 28, 1944.
Resinous material, Granular. Wm. Zinsser & Co. Inc. 407,498; June 6; Serial No. 466,338; published Mar. 28, 1944.
Resins useful for conversion into finished products, Polyvinyl. B. F. Goodrich Company. 407,523; June 6; Serial No. 466,791; published Mar. 28, 1944.
Seeds, Clover, grass, field and forage. Wm. G. Scarlett. 189,943; renewed Sept. 30, 1944.
Seeds, Grain. W. P. Martin & Sons. 407,557–8; June 6.

CLASS 2

Baskets, leather wastepaper baskets, Leather. Indian Arts and Crafts Board. 407,532; June 6; Serial No. 467,079; published Mar. 28, 1944.
Cartons with adjustable dividers, etc., Mailing. H. Phillips. 407,492; June 6; Serial No. 466,229; published Mar. 28, 1944.
Compacts of plastic or composition, etc., containing powder puffs, Ladies'. National Silver Company. 407,520; June 6; Serial No. 466,738; published Mar. 28, 1944.

CLASS 3

Handbags. Eastern Mfg. Co. 407,521; June 6; Serial No. 466,755; published Mar. 28, 1944.
Handbags, Ladies'. Morris White Fashions, Inc. 407,568; June 6.

CLASS 4

Abrasive products. Norton Company. 407,512–13; June 6; Serial Nos. 466,537–8; published Mar. 28, 1944.
Cleaner and other certain named cleaners, etc. Dearborn Chemical Company. 188,806; renewed Sept. 2, 1944.
Cleaners and soaps, Dry. B. Goodman. 407,454; June 6; Serial No. 465,624; published Mar. 28, 1944.
Cleaning compound for linen, silk, and other textiles, etc. W. P. Ballard & Company. 407,416; June 6; Serial No. 461,993; published Mar. 28, 1944.
Cleaning crystals. W. Alt. 407,448; June 6; Serial No. 465,351; published Mar. 28, 1944.
Cleansing and washing compounds, Chemical. Solvay Process Company. 189,925; renewed Sept. 30, 1944.
Cleansing preparation consisting principally of trisodium phosphate, etc. Plee-Zing, Inc. 407,417; June 6; Serial No. 462,211; published Mar. 28, 1944.
Polish, Shoe and boot. General Shoe Corporation. 407,519; June 6; Serial No. 466,695; published Mar. 28, 1944.
Powders for cleaning, etc., Product comprising dry soluble alkaline. Wyandotte Chemicals Corporation. 407,435; June 6; Serial No. 464,152; published Mar. 28, 1944.
Toilet soaps. Compana Sales Company. 407,494; June 6; Serial No. 466,251; published Mar. 28, 1944.
Washing compound, Dish. Fuld Bros. 407,450; June 6; Serial No. 465,473; published Mar. 28, 1944.

CLASS 5

Adhesives containing natural gums, animal or fish glue, etc. United Shoe Machinery Corporation. 407,406; June 6; Serial No. 460,164; published Mar. 28, 1944.

CLASS 6

Agents acting as a resist for wool and used in a dye bath. P. J. Collins. 407,455; June 6; Serial No. 465,646; published Mar. 14, 1944.
Ammonium antiseptic compound, Quaternary. Onyx Oil & Chemical Company. 407,496; June 6; Serial No. 466,308; published Mar. 14, 1944.
Antiseptic, Liquid. G. H. Poling. 407,422; June 6; Serial No. 463,001; published Mar. 21, 1944.
Chemical compositions for the control of acid pickling baths for metals. Lotte Chemical Company. 407,467; June 6; Serial No. 465,845; published Mar. 14, 1944.
Chemical product. D. W. Haering & Co. 407,465; June 6; Serial No. 465,805; published Mar. 21, 1944.
Colognes and perfumery. Campana Sales Company. 407,495; June 6; Serial No. 466,252; published Mar. 21, 1944.
Cough drops. Gallowhur Chemical Corporation. 407,500; June 6; Serial No. 466,376; published Mar. 21, 1944.
Deodorants, Liquid and solid. Chlorine Solutions, Inc. 407,452; June 6; Serial No. 465,527; published Mar. 21, 1944.
Deodorants, Liquid and solid. Chlorine Solutions, Inc. 407,451; June 6; Serial No. 465,526; published Mar. 14, 1944.
Hair dressing preparation. I. Selkow. 184,824; renewed June 3, 1944.
Insecticide. O. & W. Thum Company. 187,918; renewed Aug. 12, 1944.
Insecticide. Socony-Vacuum Oil Company. 407,510; June 6; Serial No. 466,517; published Mar. 21, 1944.
Insecticide, Roach. W. M. Gould. 407,430; June 6; Serial No. 463,516; published Mar. 21, 1944.
Insecticides, germicides, deodorants, etc. Commercial Chemical Company. 407,560; June 6.
Lanolin substitute. Vejin, Inc. 407,515; June 6; Serial No. 466,598; published Mar. 21, 1944.
Laundry sour. Speare Supply Company. 407,518; June 6; Serial No. 466,625; published Mar. 21, 1944.
Laxative. Laxamin Laboratories. 184,360; renewed May 20, 1944.
Medicated corn pads, medicated corn plaster, etc. Forest City Products, Inc. 407,404; June 6; Serial No. 459,539; published Mar. 21, 1944.
Medicine for the treatment of cancer. A. Miklas. 407,423; June 6; Serial No. 463,026; published Oct. 26, 1943.
Medicine for use in the treatment of rheumatism. G. T. Newby. 407,545; June 6.
Nasal prophylactic. W. G. McCauley. 407,447; June 6; Serial No. 465,349; published Mar. 14, 1944.
Oil absorbing mineral compound. Trojan Products & Mfg. Co. 407,426; June 6; Serial No. 463,339; published Mar. 14, 1944.
Ointment, Foot. W. Elsworth Co. 407,463; June 6; Serial No. 465,796; published Mar. 21, 1944.
1-methyl-3-dimethyl-cyclohexanol-(5), used as a substitute for menthol. Fries Bros., Inc. 407,446; June 6; Serial No. 465,105; published Jan. 18, 1944.
Organic chemotherapeutic products for the treatment of infections, etc. Geigy Company. 407,464; June 6; Serial No. 465,803; published Mar. 14, 1944.
Perfume, toilet water, face powder, etc. Frederick Stearns & Company. 182,796; renewed Apr. 15, 1944.
Perfumes. L. Reich. 407,483; June 6; Serial No. 465,956; published Mar. 21, 1944.
Perfumes and cosmetics. Reine, Inc. 407,412; June 6; Serial No. 461,809; published Mar. 21, 1944.
Perfumes, toilet waters, and bath salts. Charles of the Ritz, Inc. 407,503; June 6; Serial No. 466,404; published Mar. 21, 1944.
Perfumes, toilet waters, bath powders, and lotions. Parfums Blanchard. 407,514; June 6; Serial No. 466,539; published Mar. 21, 1944.
Pharmaceutical preparations. G. L. Hoover. 407,541; June 6.
Photographic chemicals. Eastman Kodak Company. 407,481; June 6; Serial No. 465,945; published Mar. 21, 1944.
Poison, Rodent. T. P. Cotnam. 407,565; June 6.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 407,469; June 6; Serial No. 465,894; published Mar. 21, 1944.
Powder, Foot. Nyal Company. 407,398; June 6; Serial No. 455,671; published Mar. 21, 1944.
Powder, Tooth. F. Keeve. 407,456; June 6; Serial No. 465,682; published Mar. 21, 1944.
Preparation for alleviating pain. E. Martin Steinlauf. 407,468; June 6; Serial No. 465,853; published Mar. 14, 1944.
Rat and rodent bait, Red squill. O. W. Dean. 407,548; June 6.
Soap composition, Metallic. Metasap Chemical Company. 407,440; June 6; Serial No. 464,656; published Mar. 14, 1944.
Soda ash (sodium carbonate). Solvay Process Company. 189,968; renewed Sept. 30, 1944.
Solvents for gums, resins, cellulose esters, etc. Carbide & Carbon Chemicals Corporation. 190,229; renewed Oct. 7, 1944.
Starch for the decomposition of starches. Jacques Wolf & Co. 181,285; renewed Mar. 18, 1944.
Starch, Laundry. Hubinger Co. 407,431; June 6; Serial No. 463,542; published Nov. 30, 1943.
Starch, Laundry. Once Lifetime Starch Co. Not Inc. 407,501; June 6; Serial No. 466,383; published Mar. 14, 1944.
Sulfone compound, Bacteriostatic. Abbott Laboratories. 407,420; June 6; Serial No. 462,609; published Oct. 12, 1943.
Suspensoids, emulsions and medicament vehicles for treatment of the skin. Hospital Liquids, Inc. 407,432; June 6; Serial No. 463,783; published Dec. 7, 1943.
Toilet water. Lucien Lelong, Inc. 407,478; June 6; Serial No. 465,924; published Mar. 14, 1944.
Vitamin capsules. W. S. Thompson Products, Inc. 407,441; June 6; Serial No. 464,768; published Jan. 11, 1944.
Wound dressing. P. Beiersdorf & Co. Inc. 187,623; renewed Aug. 5, 1944.
Yeast; irradiated dried yeast; ergosterol, etc., Non-irradiated dried. Standard Brands Incorporated. 407,459; June 6; Serial No. 465,720; published Mar. 21, 1944.

CLASS 9

Matches. Ohio Match Company. 187,700; renewed Aug. 12, 1944.
Matches. America's Own Match Company. 407,427–8; June 6; Serial Nos. 463,369–70; published Mar. 21, 1944.
Matches. America's Own Match Company. 407,429; June 6; Serial No. 463,372; published Mar. 21, 1944.

CLASS 13

Conductor-pipe, conductor-pipe straps, conductor-pipe heads, etc. Berger Bros. Company. 188,105; renewed Aug. 19, 1944.
Couplings, Metal hose. Anderson Fire Fighting Equipment Company. 407,461; June 6; Serial No. 465,752; published Mar. 28, 1944.

CLASS 14

Aluminum, Uniform unfinished castings of. Cleveland Electro Metals Company. 407,552; June 6.
Metal, Babbitt. Marks Lissberger & Son, Inc. 184,372; renewed May 20, 1944.
Steel, Tool. Columbia Tool Steel Company. 190,241; renewed Oct. 7, 1944.

CLASS 15

Fluid, Lubricating. Famous Lubricants, Inc. 407,393; June 6; Serial No. 432,813; published Aug. 6, 1940.
Oils and fuel oils, Lubricating. Union Oil Company of California. 183,032–3; renewed Apr. 22, 1944.

CLASS 16

Algin product. Kelco Company. 407,419; June 6; Serial No. 462,316; published Sept. 28, 1943.
Paints in paste form, varnishes, and lacquers. Colonial Process Supply Co. 407,425; June 6; Serial No. 463,228; published Mar. 21, 1944.

CLASS 17

Cigarettes and smoking tobacco. Bugler Brand and Agencies Ltd. 407,407; June 6; Serial No. 460,249; published Mar. 28, 1944.
Cigars. Cuesta, Rey & Company. 190,154; renewed Oct. 7, 1944.

CLASS 19

Springs, Vehicle. Detroit Steel Products Company. 184,870; renewed June 3, 1944.

CLASS 21

Electric heating elements. Ogden Manufacturing Company. 187,905; renewed Aug. 12, 1944.
Electric lighting fixtures for fluorescent lamps. Edwin F. Guth Company. 407,485; June 6; Serial No. 466,040; published Mar. 28, 1944.
Electronic device for rectifying A. C. current into D. C. current. D. A. Marcus. 407,433; June 6; Serial No. 464,003; published Mar. 28, 1944.

CLASS 22

Dolls. Indian Arts and Crafts Board. 407,531; June 6; Serial No. 467,080; published Mar. 28, 1944.
Dolls. Rice-Stix Dry Goods Company. 190,153; renewed Oct. 7, 1944.
Games, Board. Electric Game Co. 407,555–6; June 6.
Toy blocks. Cappel, MacDonald and Company. 407,563; June 6.

CLASS 23

Duplicating machines. Davidson Manufacturing Corporation. 407,537; June 6.
Files and rasps. Arcade File Works. 186,935; renewed July 22, 1944.
Files and rasps. G. & H. Barnett Company. 186,114; renewed July 1, 1944.
Files and rasps. Kearney & Foot Company. 184,754; renewed June 3, 1944.
Files and rasps. Nicholson File Company. 185,282; renewed June 10, 1944.
Files and rasps. Nicholson File Company. 187,276; renewed July 29, 1944.
Grinding machines and attachments thereto. Norton Company. 190,250; renewed Oct. 7, 1944.
Kits of socket wrenches. Keystone Manufacturing Co. 190,109; renewed Oct. 7, 1944.
Pulleys or blocks. Boston & Lockport Block Company. 185,205; renewed June 10, 1944.
Pulleys or blocks. Boston & Lockport Block Company. 186,092; renewed July 1, 1944.
Shovels, spades, scoops, etc. Baldwin Tool Works. 186,094; renewed July 1, 1944.

CLASS 24

Laundry washers, Electric. Westinghouse Electric & Manufacturing Company. 407,395; June 6; Serial No. 439,677; published Mar. 14, 1944.

CLASS 25

Truck-car and shipping-case seals, etc., Base-metal. E. J. Brooks Company. 407,528; June 6; Serial No. 466,972; published Mar. 28, 1944.

CLASS 26

Compass repeaters, compass controlled directional gyroscopes, etc. Sperry Gyroscope Company, Inc. 407,437; June 6; Serial No. 464,449; published Mar. 28, 1944.
Gas analysis apparatus. Burrell Technical Supply Company. 407,562; June 6.
Lenses, spectacle frames and spectacle cases, Ophthalmic. Kendrick & Lindblad. 407,534; June 6.

CLASS 27

Watches, watchcases, watch movements, and parts thereof. Savoy Watch Co. Inc. 188,608–9; renewed Sept. 2, 1944.
Watches, watch movements, and watchcases. Katz & Ogush, Inc. 188,761; renewed Sept 2, 1944.
Watches, watch-movements, watchcases, etc. Louis Hirsch De Metz Company. 407,491; June 6; Serial No. 466,194; published Mar. 28, 1944.

CLASS 28

Finger-rings and brooches made of precious metalware. Colonial Mfg. Co. Inc. 407,484; June 6; Serial No. 465,974; published Mar. 28, 1944.
Necklaces, Bead. Indian Arts and Crafts Board. 407,507; June 6; Serial No. 466,496; published Mar. 28, 1944.
Stones, Semiprecious and precious. Robinson & Sverdlik. 407,569; June 6.

CLASS 29

Bowling alley bed and gutter brushes. Brunswick-Balke-Collender Company. 407,460; June 6; Serial No. 465,730; published Mar. 28, 1944.

CLASS 30

China. Rosenthal-Porzellanfabrik vorm. Jac. Zeidler & Co. 182,977; renewed Apr. 22, 1944.
Crockery, earthenware and porcelain. Porzellanfabrik Ph. Rosenthal & Co. A. G. 185,795; renewed June 24, 1944.

CLASS 32

Bed-ends, Willow. Indian Arts and Crafts Board. 407,533; June 6; Serial No. 467,082; published Mar. 28, 1944.
Cabinet base units, wall units, storage units, etc., Kitchen. Kitchen Maid Corporation. 407,449; June 6; Serial No. 465,363; published Mar. 28, 1944.
Chairs, Lounge. Studios, Inc. 407,486; June 6; Serial No. 466,054; published Mar. 28, 1944.
Fixtures, Store display. Aurora Equipment Company. 407,445; June 6; Serial No. 464,935; published Mar. 28, 1944.
Furniture, Laboratory and special professional. Hamilton Manufacturing Company. 407,400; June 6; Serial No. 457,934; published Mar. 28, 1944.
Mattresses, box springs, and pillows. Allied Stores Corporation. 407,542–3; June 6.

CLASS 36

Musical string instruments, musical band instruments, etc. Barth-Feinberg, Inc. 407,538; June 6.

CLASS 37

Envelopes, Window. Magill-Weinsheimer Company. 185,393; renewed June 17, 1944.
Envelopes, Window. Magill-Weinsheimer Company. 189,511–12; renewed Sept. 23, 1944.
Pencils, colored-chalk pencils, propelling pencils, etc., Copying. Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis. 185,024–5; renewed June 3, 1944.
Pencils, Copying-ink. Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis. 185,023; renewed June 3, 1944.
Pencils, copying ink pencils, pencils, pencil leads, etc., Copying lead. Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis. 185,406; renewed June 17, 1944.
Pencils, Writing. Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis. 184,578; renewed May 27, 1944.
Pens, Fountain. H. G. Martin. 407,462; June 6; Serial No. 465,781; published Mar. 28, 1944.
Pens, pen nibs, fountain-pen clips, etc. Kohinoor Bleistiftfabrik L. & C. Hardtmuth in Budweis. 185,448; renewed June 17, 1944.
Stationery. Stickless Corporation. 407,396; June 6; Serial No. 450,818; published Mar. 28, 1944.

CLASS 38

Bibles, testaments, prayer and similar books. National Publishing Company. 407,506; June 6; Serial No. 466,455; published Mar. 21, 1944.
Bulletin issued periodically, Shop. North American Aviation, Inc. 407,517; June 6; Serial No. 466,619; published Mar. 14, 1944.
Circulars, booklets, and printed advertising material. A. B. Collins. 407,504–5; June 6; Serial Nos. 466,430–1; published Mar. 21, 1944.
Information chart, Seed and plant. R. U. Rourke. 407,546; June 6.
Magazine. Chief Press. 407,550; June 6.

Magazine. Earnshaw Sales Company. 189,930–1; renewed Sept. 30, 1944.
Magazine. National Parks Association. 407,566; June 6.
Magazine. Your Health Publications, Inc. 407,397; June 6; Serial No. 454,818; published Mar. 21, 1944.
Magazine column. F-R Publishing Corporation. 407,470; June 6; Serial No. 465,901; published Mar. 21, 1944.
Magazine column. F-R Publishing Corporation. 407,471–4; June 6; Serial Nos. 465,905–8; published Mar. 21, 1944.
Magazine column. F-R Publishing Corporation. 407,475–6; June 6; Serial Nos. 465,910–11; published Mar. 21, 1944.
Magazine column. F-R Publishing Corporation. 407,477; June 6; Serial No. 465,913; published Mar. 21, 1944.
Magazine, Monthly. Conde Nast Publications, Inc. 407,439; June 6; Serial No. 464,645; published Mar. 28, 1944.
Newspaper published periodically. Toledo Blade Company. 407,444; June 6; Serial No. 464,905; published Mar. 28, 1944.
Paintings (both oil and watercolor) and drawings. Indian Arts and Crafts Board. 407,502; June 6; Serial No. 466,392; published Mar. 14, 1944.
Periodical. American Aircraft Industries Publishing Corporation. 407,551; June 6.
Periodical. A. J. Thoma. 407,415; June 6; Serial No. 461,938; published Mar. 21, 1944.
Publication, Periodical. A. G. Robinson. 407,564; June 6.
Publication, Printed. Parker Appliance Company. 407,487; June 6; Serial No. 466,100; published Mar. 21, 1944.

CLASS 39

Apparel, Men's. Lilley-Ames Company. 407,401; June 6; Serial No. 458,103; published Mar. 28, 1944.
Blouses, vestees and jackets, Ladies' and misses'. Sica Bros. 407,524; June 6; Serial No. 466,865; published Mar. 28, 1944.
Boots and shoes. Charles A. Eaton Company. 407,499; June 6; Serial No. 466,347; published Mar. 28, 1944.
Caps and hats, Uniform. Lee Uniform Cap Manufacturing Company. 407,414; June 6; Serial No. 461,891; published Mar. 28, 1944.
Corsets, brassières, bust supporters, etc. Kops Bros., Inc. 186,513; renewed July. 22, 1944.
Diapers, Knitted. L. R. McNair. 188,946; renewed Sept. 9, 1944.
Dresses, blouses, suits, etc., Ladies' and misses'. David Crystal, Inc. 407,409; June 6; Serial No. 460,690; published Mar. 28, 1944.
Girdles, panty girdles, corsets, etc., Women's, misses', and children's. R. J. Meeker. 407,482; June 6; Serial No. 465,953; published Mar. 28, 1944.
Gloves. Glove Corporation. 189,363; renewed Sept. 16, 1944.
Hats, caps, outer shirts, etc., Men's and boys'. Rogers Peet Company. 407,403; June 6; Serial No. 459,376; published Mar. 28, 1944.
Hosiery. State Textile Corporation. 182,700; renewed Apr. 15, 1944.
Hosiery, Men's, women's, and children's. E. Camp. 407,497; June 6; Serial No. 466,321; published Mar. 28, 1944.
Overalls, Children's and infants'. McClellan Stores Company. 407,479; June 6; Serial No. 465,925; published Mar. 28, 1944.
Panties, step-in underdrawers, bandeaux, etc., Ladies', misses', and children's. Krumholz & Lichtblau. 407,418; June 6; Serial No. 462,256; published Mar. 28, 1944.
Shirts, Men's outer. Manhattan Shirt Company. 407,522; June 6; Serial No. 466,761; published Mar. 28, 1944.
Shirts, Negligee and dress. Cluett, Peabody & Co. 182,440; renewed Apr. 8, 1944.
Shoes and slippers, etc., Ladies' and misses'. Sherman Bros. Manufacturing Co. Inc. 407,443; June 6; Serial No. 464,799; published Mar. 21, 1944.
Suspenders, belts, garters, etc. Jacob Wechsler & Sons. 407,480; June 6; Serial No. 465,934; published Mar. 21, 1944.
Sweaters. Pontiac Knitting Mills Company. 189,503; renewed Sept. 23, 1944.
Vestees, Ladies' and misses'. H. Pons. 407,525; June 6; Serial No. 466,928; published Mar. 28, 1944.

CLASS 40

Combs, bobby pins, and hair pins. I. I. Marrus. 407,436; June 6; Serial No. 464,440; published Mar. 28, 1944.
Elastic webbing. Kops Bros., Inc. 185,006; renewed June 3, 1944.
Lacings, corset lacings, underwear lacings, etc., Shoe. International Braid Company. 188,605; renewed Sept. 2, 1944.
Lacings, corset lacings, underwear lacings, etc., Shoe. International Braid Company. 188,847; renewed Sept. 2, 1944.
Lacings, corset lacings, underwear lacings, etc., Shoe. International Braid Company. 188,850; renewed Sept. 2, 1944.

CLASS 42

Cloth, Filter. Varniton Company. 407,490; June 6; Serial No. 466,184; published Mar. 28, 1944.
Comfortables. New Haven Quilt & Pad Company. 407,438; June 6; Serial No. 464,582; published Mar. 28, 1944.
Elastic webbing. Kops Bros., Inc. 183,065; renewed Apr. 22, 1944.
Fabrics, Cotton, wool, and silk. Bradford Dyeing Association (U. S. A.). 188,786; renewed Sept. 2, 1944.
Fabrics in the piece, Woolen and worsted. I. Smith. 407,489; June 6; Serial No. 466,178; published Mar. 28, 1944.
Fabrics, Mohair pile. Lister & Company. 24,776; renewed May 29, 1944.
Fabrics, Textile. Shirley Fabrics Corp. 407,509; June 6; Serial No. 466,514; published Mar. 28, 1944.
Fabrics, Woolen. Terhune, Yereance & Wolff, Inc. 407,488; June 6; Serial No. 466,131; published Mar. 28, 1944.
Piece goods. Wasco Oilsilk Products Company. 407,458; June 6; Serial No. 465,701; published Mar. 28, 1944.
Piece goods, Cotton. Minot, Hooper & Co. 188,386; renewed Aug. 26, 1944.
Piece goods, Cotton. Turner & Walls. 189,045; renewed Sept. 9, 1944.
Piece goods, Cotton. Millville Manufacturing Company. 189,913; renewed Sept. 30, 1944.
Piece goods, Rayon. J. Rosenholz, Inc. 407,526; June 6; Serial No. 466,952; published Mar. 28, 1944.
Piece goods, Rayon, cotton, wool, worsted, and silk. Wesley Simpson Inc. 407,466; June 6; Serial No. 465,832; published Mar. 21, 1944.
Piece goods, white, dyed, and printed, Cotton. Consolidated Textile Co. 407,399; June 6; Serial No. 455,723; published Jan. 5, 1943.
Piece goods, Woolen. Forstmann & Huffmann Company. 183,810; renewed May 6, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 185,700–1; renewed June 24, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 185,703; renewed June 24, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 185,706–7; renewed June 24, 1944.
Piece goods, Woolen. Forstmann & Huffmann Company. 185,734; renewed June 24, 1944.
Piece goods, Woolen. Botany Worsted Mills. 407,405; June 6; Serial No. 459,651; published Mar. 21, 1944.
Shirtings. Turner & Walls. 189,529; renewed Sept. 23, 1944.
Silk goods and silk shirtings. Denville Silk Co. 189,107; renewed Sept. 9, 1944.

CLASS 43

Threads. Manufacturers Supplies Company. 407,516; June 6; Serial No. 466,617; published Mar. 28, 1944.

CLASS 44

Acrylic denture base material. Motloid Co. 407,529; June 6; Serial No. 467,042; published Mar. 28, 1944.
Artificial legs. Bardach & Schoene Co. Inc. 407,567; June 6.
Sanitary napkins, compressed sanitary napkins, sanitary aprons, etc. Venus Corporation. 187,935; renewed Aug. 12, 1944.

CLASS 45

Beverage, Nonalcoholic, noncereal, Maltless. J. L. Robinson. 189,184; renewed Sept. 16, 1944.
Beverages, etc., Nonalcoholic maltless. L. Peters. 407,457; June 6; Serial No. 465,690; published Mar. 14, 1944.
Beverages, Nonalcoholic, noncereal, maltless. L. H. Kirkpatrick. 190,136; renewed Oct. 7, 1944.
Beverages, Nonintoxicating, nonalcoholic, noncereal, maltless, fruit. Reco Sales Co., Inc. 407,553; June 6.
Mineral waters, gases, powders, and salts for mineral waters, etc. Agua Imperial, Sociedad Anónima. 190,149; renewed Oct. 7, 1944.
Sirups for making soft drinks. Whipple Company. 497,493; June 6; Serial No. 466,244; published Mar. 14, 1944.

CLASS 46

Bread and cake. Ward Baking Company. 190,174; renewed Oct. 7, 1944.
Candies and chocolates. Just Born, Inc. 184,647; renewed May 27, 1944.
Candy. C. Arnold. 188,703; renewed Sept. 2, 1944.
Candy. Pangburn Company. 407,530; June 6; Serial No. 467,045; published Mar. 28, 1944.
Candy and nut confections. Queen Anne Candy Company. 186,771; renewed July 22, 1944.
Cheese. Pickrodt Cheese Company. 407,549; June 6.
Confectionery and bakery products. Pig'n Whistle Corporation. 407,394; June 6; Serial No. 433,624; published Oct. 12, 1943.
Feed, dairy feed, and scratch feed, Horse. Security Mills. 189,892; renewed Sept. 30, 1944.
Feeds, Soluble supplement used in combination with animal and poultry. Dawe's Products Co. 407,392; June 6; Serial No. 424,909; published Apr. 2, 1940.

Flavorings for food. Frederick Stearns & Company. 183,503; renewed Apr. 29, 1944.
Flour, Wheat. Collin County Mill & Elevator Co. 182,035; renewed Apr. 1, 1944.
Flour, Wheat. Collin County Mill & Elevator Co. 182,644; renewed Apr. 15, 1944.
Flour, Wheat. Schultz, Baujan & Co. 186,769; renewed July 22, 1944.
Food, Dog. P. Rosenberg. 407,570; June 6.
Food flavoring preparation. Virginia Dare Extract Company. 407,536; June 6.
Fruits and vegetables, Dehydrated. Valley Evaporating Company. 407,411; June 6; Serial No. 461,725; published Jan. 11, 1944.
Honey. C. E. Lush. 407,539; June 6.
Ice cream. Niser Ice Cream Company. 190,227; renewed Oct. 7, 1944.
Maple cream, maple sirup, maple sugar in bulk, etc. Maple Grove Candies, Inc. 182,475; renewed Apr. 8, 1944.
Noodles. Max Ams Inc. 407,442; June 6; Serial No. 464,772; published Mar. 28, 1944.
Oil, Olive. T. Romano. 184,397; renewed May 20, 1944.
Peanut butter. Wilmar Manufacturing Company. 189,982; renewed Sept. 30, 1944.
Salt. Saginaw Salt Products Company. 187,264; renewed July 29, 1944.
Starch for the decomposition of starches. Jacques Wolf & Co. 181,285; renewed Mar. 18, 1944.
Turkeys, Baby. Ralston Purina. 407,402; June 6; Serial No. 458,249; published Mar. 28, 1944.
Vegetables, Fresh. R. E. Myers. 407,410; June 6; Serial No. 461,148; published Mar. 28, 1944.
Vegetables, Fresh. J. R. Barnett. 407,527; June 6; Serial No. 466,971; published Mar. 28, 1944.

CLASS 47

Champagne and sparkling burgundy. Austin, Nichols & Co. 407,540; June 6.

CLASS 49

Bar mixer for alcoholic drinks. Tresco & Associates, Incorporated. 407,453; June 6; Serial No. 465,589; published Feb. 29, 1944.
Brandy. Colcombet, Inc. 407,547; June 6.
Fabrication of aquardiente and wine. M. F. Diaz. 407,421; June 6; Serial No. 462,795; published Feb. 22, 1944.
Gin. Thos. J. Molloy & Co. 407,544; June 6.
Rum. International Distributors, Inc. 407,554; June 6.
Rum. Sunset Incorporated. 407,561; June 6.
Whisky, Scotch. Distillers Agency Limited. 407,434; June 6; Serial No. 464,082; published Feb. 29, 1944.

CLASS 50

Brooders, Chick. James Manufacturing Company. 407,535; June 6.
Canoes. Indian Arts and Crafts Board. 407,508; June 6; Serial No. 466,498; published Mar. 28, 1944.
Ladders. J. R. Clark Company. 407,408; June 6; Serial No. 460,288; published Mar. 28, 1944.
Ornaments. C. S. Root. 407,559; June 6.
Photographic film, Non-sensitized. Colonial Process Supply Co. 407,424; June 6; Serial No. 463,227; published Mar. 14, 1944.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

General Electric Company. (See Walle, Ludwig S., assignor.)
Walle, Ludwig S., Lansdowne, Pa., assignor to General Electric Company. Overload protective means. Re. 22,491; June 6.

LIST OF PLANT PATENTEES

Drain, Brooks D., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn. Strawberry plant. 629; June 6.
Kovach, Paul L., Vista, Calif. Avocado tree. 628; June 6.
University of Tennessee Research Corporation, The. (See Drain, Brooks D., assignor.)

LIST OF DESIGN PATENTEES

Barber, Lonnie, assignor of fifty percent to I. Pritchett, Danville, Va. Pendant or similar article. 138,024; June 6.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Alphabet for forming monograms or similar article. 138,010; June 6.
Barry, Ernest M., Maywood, Calif. Combined boudoir lamp and jewel case. 138,046; June 6.
Barshefski, Stanley A., Grand Rapids, Mich. Helicopter. 138,034; June 6.
Becker, Milton, Passaic, N. J. Combined billfold, key case and token purse. 138,035; June 6.
Bugbee and Niles Company. (See Page, Lewis C., assignor.)
Bulbulian, Arthur H., Rochester, Minn. Aviator's oxygen mask. 138,036; June 6.
Chandler, James H. (See Chapman, D., and Chandler.)
Chapman, Dave, Chicago, and J. H. Chandler, Oak Park, assignors to The Edward Katzinger Company, Chicago, Ill. Cooking utensil. 138,011; June 6.
Cristontello, Nicolo V., Elmira, N. Y. Flower urn or similar article. 138,055; June 6.
Cuomo, Joseph, New York, N. Y. Rotary toy. 138,037; June 6.
Diamant, Fred J., New York, N. Y. Shoe or similar article. 138,025; June 6.
Donahue, Barbara J., Kalamazoo, Mich. Doll. 138,026; June 6.
Einzig, Henry, Evanston, Ill. Toy airplane bomber. 138,047; June 6.
Elder, John W., Chicago, Ill. Wrapping paper. 138,012; June 6.
Elder, John W., Chicago, Ill. Wrapping paper. 138,013; June 6.
Etkin, Simon, New York, N. Y. Jacket. 138,038; June 6.
Fitzgerald, Edward J., assignor to Son-Chief Electrics, Incorporated, Winsted, Conn. Flatiron or the like. 138,048; June 6.
Frantz, Charton C., Pittsburgh, Pa. Bread loaf. 138,039; June 6.
Frilot, Alvin, Baton Rouge, La. Picture frame. 138,027; June 6.
Gardner, Samuel, Brooklyn, N. Y. Mask for rear-vision mirrors. 138,040; June 6.
Gibson, James E., Jr., High Point, N. C. Toy truck. 138,014; June 6.
Gibson, James E., Jr., High Point, N. C. Toy trailer truck. 138,015; June 6.
Gilardi, Adrian J., Seattle, Wash. Templet for constructing ellipses. 138,016; June 6.
Gilardi, Adrian J., Seattle, Wash. Templet for drawing ellipses. 138,017; June 6.
Gilbert, A. C., Company, The. (See Preble, Harry S., Jr., assignor.)
Globe American Corporation. (See Sherman, Alvin G., assignor.)
Gold, Henry, Chicago, Ill. Pull toy. 138,018; June 6.
Gold, Henry, Chicago, Ill. Pull toy. 138,019; June 6.
Gruber, Abe, New York, N. Y. Suit. 138,051; June 6.
Gruber, Abe, New York, N. Y. Suit. 138,052; June 6.
Gruber, Abe, New York, N. Y. Suit. 138,053; June 6.
Gruber, Abe, New York, N. Y. Suit. 138,054; June 6.
Hat Corporation of America. (See Maxwell, P. M., and Russy, assignors.)
Hess, Lester L., New York, N. Y. Pin or similar article. 138,056; June 6.
Hinson, William H., Webster Groves, Mo. Infant's shoe. 138,028; June 6.
Katzinger, Edward, Company, The. (See Chapman, D., and Chandler, assignors.)
Kautenberg, William E., Freeport, Ill. Mop stick. 138,041; June 6.
Kemper, Adolph M., Larchmont, N. Y. Textile fabric. 138,057; June 6.
Lasko, George A., Toledo, Ohio. Quota chart. 138,029; June 6.
Latella, Ignazio, Port Chester, N. Y. Combined floor lamp and display device. 138,020; June 6.
Mathews, James E., Albuquerque, N. Mex. Combined tooth powder and tooth brush case. 138,030; June 6.
Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn. Hat. 138,042; June 6.
McDonald, Edward F., Buffalo, N. Y. Cigar and cigarette rest for ash trays. 138,058; June 6.
Page, Lewis C., Wakefield, assignor to Bugbee and Niles Company, North Attleboro, Mass. Link for an expansible bracelet or similar article. 138,043; June 6.
Pohl, Ronald K., White Plains, N. Y. Combined ash tray and statuette. 138,059; June 6.
Pollak, Carl, Forest Hills, N. Y. Photograph album page or similar article. 138,021; June 6.
Preble, Harry S., Jr., New York, N. Y., assignor to The A. C. Gilbert Company, New Haven, Conn. Hair drier or the like. 138,044; June 6.
Pritchett, Irene. (See Barber, Lonnie, assignor.)
Root, Le Roy P., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 138,031; June 6.
Russy, Wilhelmina J. (See Maxwell, P. M., and Russy.)
Scovill Manufacturing Company. (See Root, Le Roy P., assignor.)
Scripto Manufacturing Company. (See Severy, Victor H., assignor.)
Severy, Victor H., assignor to Scripto Manufacturing Company, Atlanta, Ga. Adjustable nib fountain pen. 138,032; June 6.
Sherman, Alvin G., Grosse Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind. Life raft. 138,050; June 6.
Sikorsky, Igor I., Long Hill, assignor to United Aircraft Corporation, East Hartford, Conn. Helicopter. 138,045; June 6.
Sloane, Max. (See Sloane, Nathan and M.)
Sloane, Nathan and M., Brooklyn, N. Y. Handbag. 138,049; June 6.
Soetbeer, Oscar F., Massapequa Park, N. Y. Internal surface projector. 138,033; June 6.
Son-Chief Electrics, Incorporated. (See Fitzgerald, Edward J., assignor.)
Stoltz, Harold A., Cleveland, Ohio. Magnifier reading glass. 138,022; June 6.
Uncas Manufacturing Company. (See Barbieri, Nicholas, assignor.)
United Aircraft Corporation. (See Sikorsky, Igor I., assignor.)
Walker, William L., Detroit, Mich. Button. 138,023; June 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abercrombie, James S. (See Bean, R. N., Abercrombie, and Allen.)
Acord, John L., assignor of one-half to J. H. Levi, Baltimore, Md. Fabricating torch tips. 2,350,952; June 6.
Adams, Harold W., Santa Monica, and O. A. Wheelon, Pacific Palisades, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Hydraulic system and control. 2,350,662; June 6.
Adams, James F., Wilmington, Del., assignor to General Chemical Company, New York, N. Y. Abscission retarding composition and using the same. 2,350,709; June 6.
Aetna-Standard Engineering Company, The. (See Rodder, W., and Kendall, assignors.)
Agnew, Norman F. (See Baughman, G. W., and Agnew.)
Agnew, Norman F., Penn Township, Allegheny County, assignor to The Union Switch and Signal Company, Swissvale, Pa. Electrical relay. 2,350,663; June 6.
Agriculture of the United States of America, and to his successors in office, Claude R. Wickard, as Secretary of. (See Wells, P. A., and Swern, assignors.)
Ahnert, Max, Aschersleben, Germany; vested in the Alien Property Custodian. Grinding machine. 2,350,710; June 6.
Aircraft & Diesel Equipment Corporation. (See Garday, Louis J., assignor.)
Aircraft-Marine Products, Inc. (See Johnson, James O., assignor.)
Albaugh, Ellis, Sr., San Antonio, Tex. Device for separating worms and larvae from nut meats. 2,350,332; June 6.
Alexander, Horace W., assignor to American Sterilizer Company, Erie, Pa. Apparatus for germicidal treatment of air-borne bacteria. 2,350,664; June 6.
Alexander, Horace W., assignor to American Sterilizer Company, Erie, Pa. Germicidal treatment of air-borne bacteria. 2,350,665; June 6.
Alien Property Custodian. (See Ahnert, Max.)
Alien Property Custodian. (See Barsties, Wilhelm.)
Alien Property Custodian. (See Bretschneider, H., Fodor, and Földi.)
Alien Property Custodian. (See Büttner, Hugo.)
Alien Property Custodian. (See Cito, Camillo.)
Alien Property Custodian. (See Crouet, Marcel F.)
Alien Property Custodian. (See Dobrosavljevitch, Slobodan M.)
Alien Property Custodian. (See Dumarest, François, assignor.)
Alien Property Custodian. (See Erbe, Arno.)
Alien Property Custodian. (See Ferré, Ferdinando.)
Alien Property Custodian. (See Fischer, Oswald.)
Alien Property Custodian. (See Flämig, Fritz.)
Alien Property Custodian. (See Fuchs, Rudolf.)
Alien Property Custodian. (See Gamet, Pierre P.)
Alien Property Custodian. (See Gareis, Fritz.)
Alien Property Custodian. (See Gerstenberger, Albin.)
Alien Property Custodian. (See Gliubich, Carlo.)
Alien Property Custodian. (See Guichard, Raymond A. E.)
Alien Property Custodian. (See Heinold, Gustav W.)
Alien Property Custodian. (See Hendel, Margarete.)
Alien Property Custodian. (See Hofgaard, Rolf.)
Alien Property Custodian. (See Hönel, Herbert.)
Alien Property Custodian. (See Horn, Ernst.)
Alien Property Custodian. (See Jde, Hans.)
Alien Property Custodian. (See Kirchner, Gerhard.)
Alien Property Custodian. (See Klute, F., and Heering.)
Alien Property Custodian. (See Kniehahn, W., Geiser, Shüler, Gerth, and Witt.)
Alien Property Custodian. (See Kohl, Karl.)
Alien Property Custodian. (See Kono, Yoshimitsu.)
Alien Property Custodian. (See Krüssmann, Adolf.)
Alien Property Custodian. (See Lanciani, Ettore.)
Alien Property Custodian. (See Lichte, August.)
Alien Property Custodian. (See Lietz, Gustav.)
Alien Property Custodian. (See Löhner, K., and Kappus.)
Alien Property Custodian. (See Marette, J. L. J., and Burnat.)
Alien Property Custodian. (See Martin, H., and Franz.)
Alien Property Custodian. (See Marzoli, Luigi, assignor.)
Alien Property Custodian. (See Mennesson, Marcel.)
Alien Property Custodian. (See Monier, Marius A.)
Alien Property Custodian. (See Morioka, Isao.)
Alien Property Custodian. (See Morland, P., and Smith.)
Alien Property Custodian. (See Müller, Adalbert.)
Alien Property Custodian. (See Németh, Béla.)
Alien Property Custodian. (See Ohta, Masaki.)
Alien Property Custodian. (See Peglau, Paul, assignor.)
Alien Property Custodian. (See Pelessoni, Giovanni.)
Alien Property Custodian. (See Percheron, Maurice.)
Alien Property Custodian. (See Philipsen, Nikolaus M.)
Alien Property Custodian. (See Pinazza, Giosuè.)
Alien Property Custodian. (See Planche, Benjamin R.)
Alien Property Custodian. (See Podschus, E., and Meder.)
Alien Property Custodian. (See Reiners, W., and Kahlisch.)
Alien Property Custodian. (See Retterath, Valentin.)
Alien Property Custodian. (See Revelli, Gino.)
Alien Property Custodian. (See Römer, Otto.)
Alien Property Custodian. (See Saulnier, Raymond.)
Alien Property Custodian. (See Scharfnagel, Rudolf.)
Alien Property Custodian. (See Schwarzer, Kurt.)
Alien Property Custodian. (See Szydlowski, Josef.)
Alien Property Custodian. (See Tagliabue, Guiseppe.)
Alien Property Custodian. (See Tsuno, Shozo.)
Alien Property Custodian. (See van der Leun, Cornelis.)
Alien Property Custodian. (See von Philipp, Hans.)
Alien Property Custodian. (See Wagner, Max.)
Alien Property Custodian. (See Walther, Heinrich, Sr.)
Alien Property Custodian. (See Watzel, Rudolf.)
Alien Property Custodian. (See Wehr, Wilhelm.)
Alien Property Custodian. (See Weimers, Wilhelm.)
Alien Property Custodian. (See Winkelmann, Kurt.)
Alien Property Custodian. (See Woitscheck, Arno.)
Alien Property Custodian. (See Wolff, Julius.)
Allatt, Mervin, Plainfield, N. J., assignor to Millie Patent Holding Co., Inc. Automatic bag package making and filling machine. 2,350,333; June 6.
Alldredge, Robert L. (See Norlander, W. G., and Alldredge.)
Allen, Herbert. (See Bean, R. N., Abercrombie, and Allen.)
Allen, Howard G., Niagara Falls, assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y. Bag feeding machine. 2,350,666; June 6.
Allied Chemical & Dye Corporation. (See Cole, P. J., Clark, and Waldron, assignors.)
Allied Chemical & Dye Corporation. (See King, Wilbert A., assignor.)
Allis-Chalmers Manufacturing Company. (See Charley, W. G., and Buhr, assignors.)
Almen, John O., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Shot blasting test. 2,350,440; June 6.
American Bank Note Company. (See Menihan, Hugh, assignor.)
American Coach & Body Company, The. (See Troche, H. J., and Holan, assignors.)
American Cyanamid Company. (See Barnes, R. B. and Moore, assignors.)
American Cyanamid Company. (See Bradley, Theodore F., assignor.)
American Cyanamid Company. (See Cook, E. W., and Thomas, assignors.)
American Cyanamid Company. (See Ericks, Walter P., assignor.)
American Cyanamid Company. (See Salvin, V. S., and Hill, assignors.)
American Maize-Products Company. (See Scholmeyer, H. H., and Arnold, assignors.)
American Maize-Products Company. (See Walsh, J. F., and Miller, assignors.)
American Optical Company. (See Casavant, Stuart F., assignor.)
American Pattern and Manufacturing Co. (See Miller, Raymond J., assignor.)
American Steel Foundries. (See Tack, Carl E., assignor.)
American Sterilizer Company. (See Alexander, Horace W., assignor.)
Amos, Howard W., assignor of one-third to T. B. McCarthy, Syracuse, N. Y., and one-third to J. D. Clark, Chicago, Ill. Bellows cushion for upholstery. 2,350,711; June 6.
Amos, James L., R. H. Boundy and K. E. Stober, assignors to The Dow Chemical Company, Midland, Mich. Producing carbon bisulphide. 2,350,320; June 6.
Anderson Box Company. (See Schaefer, Norbert F., assignor.)
Anderson, Evald, North Quincy, Mass. Diel damper regulator. 2,350,441; June 6.
Anderson, Peter A., assignor to Utilities Distributors, Inc., Portland, Maine. Portable car heater. 2,350,860; June 6.
Anderson Products, Inc. (See Upton, J., and Ferguson.)
Angel, Herbert, Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Storing telegraph signals. 2,350,382; June 6.

Apex Railway Products Co. (See Nelson, Arthur W., assignor.)
Argy, Richard T., and C. W. Foss, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive belt joint. 2,350,861; June 6.
Armstrong Cork Company. (See McCarthy, J. Clarence, assignor.)
Arnold, Charles R. (See Schopmeyer, H. H., and Arnold.)
Arundale, Erving. (See Mikeska, L. A., and Arundale.)
Arundale, Erving, Colonia, and L. A. Mikeska, Westfield, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Preparing diolefins. 2,350,485; June 6.
Atlantic Products Corporation. See Gold, Isadore, assignor.)
Automatic Electric Laboratories, Inc. (See Frydman, Emanuel, assignor.)
Automatic Electric Laboratories, Inc. (See Taylor, R., and Baker, assignors.)
Automatic Safety Wringer Company. (See Fay, Horace B., assignor.)
Automatic Safety Wringer Company. (See Williams, Charles W., assignor.)
Autoxygen, Inc. (See Kokatnur, V. R., and Van Hook.)
Ayers, Frederick P., Barnstaple, North Devon, England. Linear-dimension gauge. 2,350,862; June 6.
Babson Bros. Co. (See Schilling, Lorell J., assignor.)
Bailey, Burton E., Baton Rouge, La. Backstop nipple. 2,350,863; June 6.
Bailey Meter Company. (See Hornfeck, Anthony J., assignor.)
Bailey, Roy W., assignor to Detroit Power Screwdriver Company, Detroit, Mich. Feeding device. 2,350,486; June 6.
Bain, Walter M., and A. W. Neubauer, Oak Park, Ill., assignors to The Glidden Company, Cleveland, Ohio. Preparing protein composition. 2,350,953; June 6.
Baker, George T. (See Taylor, R., and Baker.)
Baker, John G., assignor to Baker Manufacturing Company, Evansville, Wis. Mechanical movement. 2,350,334; June 6.
Baker, John S., assignor to Cook Electric Company, Chicago, Ill. Substation protector. 2,350,442; June 6.
Baker Manufacturing Company. (See Baker, John G., assignor.)
Baker, Norman G., Laredo, Tex. Brewer or cooker. 2,350,335; June 6.
Baldwin, Fred T., Lakeland, Fla. Dental flask. 2,350,864; June 6.
Baldwin Locomotive Works, The. (See Buckingham, Francis, assignor.)
Bales, James E., assignor to Metal Products, Incorporated, Aurora, Ill. Hopper-type bin. 2,350,487; June 6.
Banner, Otto A., Highland Park, N. J. Hydraulic transmission. 2,350,865; June 6.
Banton, Theodore H. (See Champlin, J. B. F., and Banton.)
Barley, Leo D. (See Spiller, W. R., and Barley.)
Barnes, Robert B., and L. P. Moore, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Diammonium monoalkali ferricyanide. 2,350,443; June 6.
Barrett, Edward R., assignor to Gar Wood Industries, Inc., Detroit, Mich. Combination dump body and leveler. 2,350,488; June 6.
Barsties, Wilhelm, Berlin, Germany; vested in the Alien Property Custodian. Fluid level gauge. 2,350,712; June 6.
Barth, Jay E., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Adjustable automobile antenna. 2,350,866; June 6.
Bates, Alfred O., Cleveland Heights, assignor, by mesne assignments, to The Parker Appliance Company, Cleveland, Ohio. Cutting tool and manufacture thereof. 2,350,667; June 6.
Battey, Alexander J. (See Gretzinger, J. R., Battey, and Rabezzana.)
Bauer, Jordan V., Chicago, and D. M. Hawley, Geneva, assignors to Stein, Hall Manufacturing Company, Chicago, Ill. Treatment of cellulosic sheet materials. 2,350,336; June 6.
Baughman, George W., Swissvale, and N. F. Agnew, Penn Township, Allegheny County, assignors to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,350,668; June 6.
Baxter, James G., and J. D. Taylor, assignors to Distillation Products, Inc., Rochester, N. Y. Separation and purification of the tocopherols. 2,350,713; June 6.
Bazner, Eugene, Providence, R. I. Ornament. 2,350,714; June 6.
Bean, Ruric N., J. S. Abercrombie, and H. Allen, Houston, Tex., assignors to Cameron Iron Works. Sealing and testing well head connections. 2,350,867; June 6.
Beardsley, Oscar F., Endicott, N. Y. Alarm clock. 2,350,578; June 6.
Beare, Leonard E., Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y. Lubricating oil composition. 2,350,489; June 6.
Bebinger, Charles N., assignor to La-Del Conveyor & Manufacturing Company, New Philadelphia, Ohio. Pitch adjusting mechanism for propeller fans. 2,350,383; June 6.
Bebout, Ray H. (See Murphy, F. R., and Bebout.)
Beech-Nut Packing Company. (See Martin, William T., assignor.)
Bell Aircraft Corporation. (See Trotter, J. C., and Maurer, assignors.)
Bell & Howell Company, The. (See Moomaw, L. H., and Bernzott, assignors.)
Bell Telephone Laboratories, Incorporated. (See Busch, A. J., Henry, and Seibel, assignors.)
Bell Telephone Laboratories, Incorporated. (See Goff, Harold W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hall, Nathan I., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hibbard, Frank H., assignor.)
Bell Telephone Laboratories, Incorporated. (See King, G. V., and Myers, assignors.)
Bell Telephone Laboratories, Incorporated. (See Keller, Arthur C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Morrison, John F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Newby, Neal D., assignor.)
Bell Telephone Laboratories, Incorporated. (See Zinn, Manvel K., assignor.)
Bendix Aviation Corporation. (See Houseman, Melvin R., assignor.)
Bendix Aviation Corporation. (See Kimball, Vernon R., assignor.)
Benn, Walter E., assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 2,350,868; June 6.
Bennett, Geoffrey R., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,350,321; June 6.
Berg, Egon G., and M. Ovestrud, assignors to Pioneer Engineering Works, Inc., Minneapolis, Minn. Pumping and feeding mechanism for mixing machines. 2,350,715; June 6.
Berl, Ernst and W. G., Pittsburgh, Pa. Making ammonium salts of aromatic compounds. 2,350,322; June 6.
Berl, Walter G. (See Berl, Ernst and W. G.)
Berliner, Herbert S., Westmount, Quebec, Canada. Sound recording apparatus. 2,350,490; June 6.
Bernzott, Hugo. (See Moomaw, L. H., and Bernzott.)
Bingham, Charles R., Davenport, Iowa. Venicle hitch. 2,350,579; June 6.
Binney and Smith Company. (See Vogel, M. R., and Snyder, assignors.)
Bissout, Herbert A., Merchantville, N. J., and W. Y. Borresen, assignors to W. K. Mitchell & Company, Inc., Philadelphia, Pa. Welding apparatus. 2,350,716; June 6.
Blackley, James L., and W. P. V. Ross, assignors to The Duplex Printing Press Company, Battle Creek, Mich. Automatic directional ink fountain drive. 2,350,580; June 6.
Blair, George, Berwyn, Pa. Signaling device. 2,350,717; June 6.
Bliss, Warren H., Orono, Maine, assignor to Radio Corporation of America. Frequency demodulator. 2,350,869; June 6.
Boenau, Arthur H. (See Spelshouse, W. E., and Boenau.)
Bogner, Peter, Uxbridge, assignor to Saml. Hanson & Son Limited, London, England. Provision of rip-wires in canisters. 2,350,870; June 6.
Bogner, Peter, Oxford, assignor to Saml. Hanson & Son, Limited, London, England. Canister provided with rip-wire opening device. 2,350,871; June 6.
Boller, Wilhelm, Zurich, assignor to Maschinenfabrik Oerlikon, Oerlikon, Switzerland. Electrolyzer cell. 2,350,669; June 6.
Boose, Elmer S., Two Rivers, Wis. Arrowhead. 2,350,581; June 6.
Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Joint structure for metal tubing. 2,350,582; June 6.
Booth, Lionel E. (See Thompson, J. W., and Booth.)
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Polymerized resin alcohol. 2,350,384; June 6.
Borg-Warner Corporation. (See Haigh, Vaughn, assignor.)
Borresen, William Y. (See Bissout, H. A., and Borresen.)
Boundy, Ray H. (See Amos, J. L., Boundy, and Stober.)
Bradford, Colin I., Fairfield, Conn., assignor to Remington Arms Company, Inc. Measuring instrument. 2,350,545; June 6.
Bradley, Theodore F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Drying oil. 2,350,583; June 6.
Brantley, Lillard L. (See Stephens, Paul, assignor.)
Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Pot type burner. 2,350,872; June 6.
Bretschneider, Hermann, G. Fodor, and Z. Földi, Budapest, Hungary; vested in the Alien Property Custodian. Preparing alpha, beta-dialkyl-alpha, beta-diaryl-ethanes. 2,350,718; June 6.
Briggs Manufacturing Company. (See Tjaarda, John, assignor.)
Bright, Albert G., and W. E. Fisher, assignors to Eastman Kodak Company, Rochester, N. Y. Separation of solvent mixtures. 2,350,719; June 6.

British Cotton Industry Research Association, The, et al. (See Peirce, F. T., and Gardiner, assignors.)
Brodie, Stuart B., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Reservoir construction. 2,350,720; June 6.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Constant tension letoff mechanism. 2,350,954; June 6.
Brown, Clifford R., Berea, Ohio. Greenhouse. 2,350,721; June 6.
Brumleu, Edward C., and W. E. Gilbert, Los Angeles, Calif.; said Gilbert assignor to Shell Development Company, San Francisco, Calif. Pressure-actuated tubing anchor. 2,350,973; June 6.
Brün, Wilfi, and P. H. Burdett, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Ammunition priming composition. 2,350,670; June 6.
Brunner, Reed R., Baltimore, Md., assignor to United Air Lines, Inc. Directional antenna. 2,350,337; June 6
Bryant, Corwin W., Downers Grove, assignor to Crane Co., Chicago, Ill. Automatic handwheel clutch. 2,350,958; June 6.
Buckingham, Francis, Franklinville, N. J., assignor to The Baldwin Locomotive Works. Fatigue testing machine. 2,350,722; June 6.
Budd, Edward G., Mfg. Company. (See Weightman, William A., assignor.)
Buell, Charles K., Bartlesville, Okla., and C. M. Cooper, Cincinnati, Ohio, assignors to Phillips Petroleum Company. Furfural purification method. 2,350,584; June 6.
Buffalo Brake Beam Company. (See Busch, Charles R., assignor.)
Buhr, August G. (See Charley, W. G., and Buhr.)
Bulldog Electric Products Company. (See Frank, W. H., and Fisher, assignors.)
Burdett, Philip H. (See Brün, W., and Burdett.)
Burgess, Frank E., assignor to Burgess-Norton Manufacturing Company, Geneva, Ill. Tread unit for endless tracks. 2,350,444; June 6.
Burgess, Frank E., assignor to Burgess-Norton Manufacturing Company, Geneva, Ill. Endless track construction. 2,350,445; June 6.
Burgess-Manning Company. (See Leadbetter, Ralph L., assignor.)
Burgess-Norton Manufacturing Company. (See Burgess, Frank E., assignor.)
Burnat, Henri L. (See Marette, J. L. J., and Burnat.)
Burnham, Walter E. (See Freedman, G. L., and Burnham.)
Busch, Aloysius J., Madison, I. H. Henry, East Orange, and C. F. Seibel, Glen Rock, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic switching telephone system. 2,350,873; June 6.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake beam and guide therefor. 2,350,671; June 6.
Busser, Frank S., et al., trustees. (See Kokatnur, V. R., and Van Hook, assignors.)
Butler, Benjamin F., Westport, and E. A. Hirdler, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Metal drawing process. 2,350,491; June 6.
Büttner, Hugo, Wuppertal-Vohwinkel, Germany; vested in the Alien Property Custodian. Forming spring fillers for furniture and the like. 2,350,723; June 6.
Buxbaum, Erich K., London, England. Apparatus for manufacturing open containers made of pliable sheet material. 2,350,874; June 6.
Byrkit, Gordon D. (See Lincoln, B. H., Byrkit, and Steiner.)
Byron, Oscar, New York, and K. H. Jones, Hollis, assignors to J. O. Ross Engineering Corporation, New York, N. Y. Drier. 2,350,672; June 6.
Cameron Iron Works. (See Bean, R. N., Abercrombie, and Allen.)
Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Insulated conducting member and applying the insulation. 2,350,724; June 6.
Campbell-Taggart Research Corporation. (See Comaschi, Louis J., assignor.)
Carbide and Carbon Chemicals Corporation. (See Carruthers, T. F., and Kiefer, assignors.)
Carbide and Carbon Chemicals Corporation. (See Schuh, Charles H., assignor.)
Carborundum Company, The. (See Argy, R. T., and Foss, assignors.)
Cargile, Neil H., Nashville, Tenn. Coal-gas stove or heater. 2,350,546; June 6.
Carlson, Gustaf H. (See Tishler, M., and Carlson.)
Carney, Clifford R., assignor to General Motors Corporation, Detroit, Mich. Manufacturing refrigerator shelves. 2,350,875; June 6.
Carpenter, Albert J., Jr., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Plate cylinder clamping means for cylinder printing presses. 2,350,585; June 6.
Carpenter, Russell, Three Rivers, Quebec, Canada. Steam joint. 2,350,492; June 6.
Carroll, Ellsworth W., San Carlos, assignor to S & W Fine Foods, Inc., San Francisco, Calif. Dicing fruit. 2,350,586; June 6.
Carruthers, Thomas F., South Charleston, and R. W. Kiefer, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Production of aminopyrans. 2,350,446; June 6.
Casavant, Stuart F., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,350,338; June 6.
Cattaraugus Cutlery Company. (See Champlin, J. B. F., and Banton, assignors.)
Caulkins, Cecil P., New London, Conn. Gun loading mechanism. 2,350,493; June 6.
Cavanagh, Patrick E., Hamilton, Ontario, Canada. Recovering metals from steel slags. 2,350,725; June 6.
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Champlin, John B. F., and T. H. Banton, assignors to Cattaraugus Cutlery Company, Little Valley, N. Y. Hunting knife. 2,350,494; June 6.
Charch, William H., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyclized rubber containing basic amino polymers. 2,350,385; June 6.
Charley, Walter G., La Crescent, Minn., and A. G. Buhr, La Crosse, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Agricultural machine. 2,350,587; June 6.
Charley, Walter G., La Crescent, Minn., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Agricultural machine. 2,350,588; June 6.
Chase Brass & Copper Co. Incorporated. (See Keshian, Henry G., assignor.)
Christian, David A., and D. L. Clay, London, assignors to Siemens Brothers & Co. Limited, Westminster, London, England. Telephone or like system. 2,350,589; June 6.
Christman, Clarence C. (See Major, R. T., Christman, and Folkers.)
Christman, John M., Detroit, Mich. Eyeglasses. 2,350,386; June 6.
Chrysler Corporation. (See Livar, Allen P., assignor.)
Ciba Pharmaceutical Products, Incorporated. (See Miescher, K., and Wettstein, assignors.)
Cito, Camillo, Uccle-Brussels, Belgium; vested in the Alien Property Custodian. Welding rod or electrode. 2,350,387; June 6.
Claborn, Houston V., Arlington, Va., dedicated to the free use of the people in the territory of the United States. Esters of acetyllactyllactic acid and making same. 2,350,388; June 6.
Clark, Charles R. (See Cole, P. J., Clark, and Waldron.)
Clark Equipment Company. (See Lapsley, Robert, assignor.)
Clark, James D., et al. (See Amos, Howard W., assignor.)
Clarke, Gerard J. (See Fordyce, C. R., and Clarke.)
Clarkson, Alick, Bloomingdale Township, DuPage County, Ill. Cleaning apparatus. 2,350,876; June 6.
Clay, David L. (See Christian, D. A., and Clay.)
Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 2,350,726; June 6.
Cocker, William W. (See Gladden, George W., assignor.)
Cochran, Charles W., Houston, Tex., and F. R. Lake, assignors to Continental Oil Company, Ponca City, Okla. Fluid sampling device. 2,350,323; June 6.
Coey, Stewart C., Glen Ridge, N. J., assignor to Research Corporation, New York, N. Y. Evaporative cooling. 2,350,590; June 6.
Coey, Stewart C., Glen Ridge, N. J., assignor to Research Corporation, New York, N. Y. Evaporative cooling. 2,350,591; June 6.
Cole, Percy J., Philadelphia, C. R. Clark, Springfield Township, Montgomery County, Pa., and J. W. Waldron, Muncie, Ind., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Separation of pyrrole. 2,350,447; June 6.
Coleman, Gerald H., F. W. Fletcher, and G. E. Lynn, assignors to The Dow Chemical Company, Midland, Mich. Parasiticidal composition. 2,350,324; June 6.
Coleman, Gerald H., and B. C. Hadler, assignors to The Dow Chemical Company, Midland, Mich. Unsaturated ester of alkoxy-aryloxy alcohols. 2,350,325; June 6.
Collins, Milford E., Los Angeles, Calif., assignor to Radio Corporation of America. Rehearsal system for sound motion pictures. 2,350,727; June 6.
Collins, Robert B., assignor to Universal Oil Products Company, Chicago, Ill. Gland sealing apparatus. 2,350,448; June 6.
Comaschi, Louis J., assignor to Campbell-Taggart Research Corporation, Kansas City, Mo. Alkaline cleaning composition. 2,350,592; June 6.
Conley, George B., Cleveland, Ohio. Hat supporting device. 2,350,728; June 6.
Consolidated Packaging Machinery Corporation. (See Allen, Howard G., assignor.)
Consolidated Packaging Machinery Corporation. (See Nicolas, Marcel A., assignor.)
Consolidated Vultee Aircraft Corporation. (See Mills, Harold A., assignor.)
Continental Can Company. (See Rojo, Jesús M., assignor.)
Continental Oil Company. (See Cochran, C. W., and Lake, assignors.)

Cook Electric Company. (See Baker, John S., assignor.)
Cook, Elmer W., New York, N. Y., and W. D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Lubricating oil and additive therefor. 2,350,959; June 6.
Cooper, Carl M. (See Buell, C. K., and Cooper.)
Cornelius, James R., Haseley Knob, near Warwick, England. Multipoint lubrication. 2,350,877; June 6.
Costa, José A. Q., Buenos Aires, Argentina. Orthopedic arm. 2,350,339; June 6.
Costigan, Edward F., Milwaukee, Wis. Collapsible crate. 2,350,673; June 6.
Couch, Harold D., Peshastin, Wash. Machine for handling boxes and similar articles. 2,350,449; June 6.
Coulton, John S., Cleveland, and I. R. Disbro, Lakewood, assignors to The W. S. Tyler Company. Method of and apparatus for ventilating elevator cars. 2,350,389; June 6.
Coventry Gauge & Tool Company Limited. (See Jellis, Morgan, assignor.)
Cowell, Frederick R., assignor to Kirkstall Forge Limited, Leeds, England. Internally expanding brake. 2,350,878; June 6.
Crane Co. (See Bryant, Corwin W., assignor.)
Critchfield, Robert M., P. L. Schneider, and B. H. Short, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Horn control system. 2,350,390; June 6.
Crocker, John C., Ware Shoals, S. C. Check strap. 2,350,495; June 6.
Cronet, Marcel F., Beauchamp, France; vested in the Alien Property Custodian. Compressed foliated wood. 2,350,729; June 6.
Crown Can Company. (See Woerz, John A., assignor.)
Crown Cork & Seal Company. (See Goebel, G., and Wilckens, assignors.)
Crown Cork & Seal Company. (See Stewart, Robert J., assignor.)
Cunningham, James E., assignor of one-third to J. V. McCallister, and one-third to J. T. Douglass, Littlefield, Tex. Steering wheel truck for tractors. 2,350,593; June 6.
Curran, Thomas B. (See Schilling, A. A., and Curran.)
Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Drill steel centralizer. 2,350,658; June 6.
Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Drill steel centralizer. 2,350,660; June 6.
Curtis Manufacturing Company. (See Morrison, Earl, assignor.)
Curtiss-Wright Corporation. (See Dick, Ralph A., assignor.)
Curtiss-Wright Corporation. (See Stulen, F. B., and Stevenson, assignors.)
Cutler-Hammer, Inc. (See Hunter, R. B., and Mekelburg, assignors.)
Dallas, Warren K., Los Angeles, Calif. Airfield traffic control. 2,350,594; June 6.
Dalzen, William F. (See Sneed, John, assignor.)
Daniels, Claude H., Greenwich, Conn. Shoe. 2,350,879; June 6.
Darby, John J., Portland, Oreg. Drafting table. 2,350,340; June 6.
Darrin, Marc, Baltimore, Md., assignor to Mutual Chemical Company of America, New York, N. Y. Production and acid treatment of hydrous chromic oxide. 2,350,960; June 6.
Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,350,547; June 6.
Davis, John V., Detroit, Mich. Dipping mechanism. 2,350,496; June 6.
Davis, Keith T., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Air conditioning apparatus. 2,350,497; June 6.
Deere & Company. (See Stueland, Harold M., assignor.)
Degnen, William J., Cranford, H. M. Nelly, Jr., Jersey City, and P. C. Keith, Jr., Peapack, N. J., assignors to The M. W. Kellogg Company, New York, N. Y. Converting hydrocarbon oils. 2,350,730; June 6.
Dekker, C. H., et al., executors. (See Scheu, William C.)
De Laney, William W., Marshallton, assignor to Hercules Powder Company, Wilmington, Del. Asphaltic emulsion. 2,350,548; June 6.
De la Rosa, Frank. (See Smith, J. R., Jr., and De la Rosa.)
Dellinger Manufacturing Company. (See Dellinger, P. C., and Sensenig, assignors.)
Dellinger, Paul C., and M. L. Sensenig, assignors to Dellinger Manufacturing Company, Lancaster, Pa. Saw attachment for tractors. 2,350,880; June 6.
De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Combined socket and starter for fluorescent lamps. 2,350,341; June 6.
Detroit Power Screwdriver Company. (See Bailey, Roy W., assignor.)
De Vilbiss Company, The. (See Roselund, Harold A., assignor.)
Dick, Ralph A., Williamsville, N. Y., assignor to Curtiss-Wright Corporation. Fastening device. 2,350,498; June 6.
Dickerman, Hubert E., Springfield, Mass. Tool. 2,350,881; June 6.
Dickey, George C., San Francisco, Calif. Smoker's pipe cleaner. 2,350,674; June 6.
Dickinson, Arthur H., Scarsdale, assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine. 2,350,499; June 6.
Disbro, Ira R. (See Coulton, J. S., and Disbro.)
Distillation Products, Inc. (See Baxter, J. G., and Taylor, assignors.)
Divine, Clarence E., Puyallup, Wash. Apparatus for lifting and turning invalids in bed. 2,350,595; June 6.
Dixon, Cuthbert L., Dunkirk, N. Y. Water heater and the like. 2,350,450; June 6.
Dobrosavljevitch, Slobodan M., Belgrade, Jugoslavia; vested in the Alien Property Custodian. Spark plug. 2,350,731; June 6.
Dorrington, Neill E. (See Hartman, C. H., Marsh, and Dorrington.)
Douglas Aircraft Company. (See Adams, H. W., and Wheelon, assignors.)
Douglass, J. T., et al. (See Cunningham, James E., assignor.)
Douglass, William H., Prentice, Wis. Dropper bottle. 2,350,596; June 6.
Dow Chemical Company, The. (See Amos, J. L., Boundy, and Stober, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., Fletcher, and Lynn, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Hadler, assignors.)
Dow Chemical Company, The. (See Du Vall, R. B., and Grether, assignors.)
Drake, Edward P. (See Ryan, C. D., and Drake.)
Draper Corporation. (See Brown, Carl D., assignor.)
Drew, Richard G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coating composition and adhesive resulting therefrom. 2,350,732; June 6.
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production of mixed esters of cellulose. 2,350,391; June 6.
Drotning, Henry O., assignor to Eastman Kodak Company, Rochester, N. Y. Film identification signal. 2,350,733; June 6.
Drummond, Folsom E., Westfield, N. J., and W. A. Waldie, Oakwood, Ohio. Pigmented resin and making. 2,350,955; June 6.
Drummond, Robert S., Detroit, Mich. Gear crowning machine. 2,350,882; June 6.
Dumarest, François, Lyon, France; vester in the Alien Property Custodian. Method and furnace for electrically melting glass. 2,350,734; June 6.
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Dunn, William L., Glenview, and A. W. Plensler, Berwyn, Ill. Electric switch. 2,350,392; June 6.
Duplex Printing Press Company, The. (See Blackley, J. L., and Ross, assignors.)
Duplex Printing Press Company, The. (See Carpenter, Albert J., Jr., assignor.)
Du Pont, E. I., de Nemours & Company. (See Charch, William H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gresham, William F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Loder, D. J., and Teeters, assignors.)
Du Pont, E. I., de Nemours & Company. (See Mitchell, James A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Squires, Lombard, assignor.)
Du Pont, E. I., de Nemours & Company. (See White, Clayton F. A., assignor.)
Durinski, Arthur M. (See Schmerling, L., and Durinski.)
Duttweiler, Gottlieb, Ruschlikon, Switzerland. Storage for goods. 2,350,883; June 6.
Du Vall, Russell B., and E. F. Grether, assignors to The Dow Chemical Company, Midland, Mich. Condensation products of p-hydroxy benzoic acid. 2,350,326; June 6.
Eastman Kodak Company. (See Bright, A. G., and Fisher, assignors.)
Eastman Kodak Company. (See Drotning, Henry O., assignors.)
Eastman Kodak Company. (See Ehrenfried, George, assignor.)
Eastman Kodak Company. (See Fordyce, C. R., and Clarke, assignors.)
Eastman Kodak Company. (See Hutchison, Miller R., Jr., assignor.)
Eastman Kodak Company. (See Jelley, E. E., and Vittum, assignors.)
Eastman Kodak Company. (See Lechleitner, Aloysius E., assignor.)
Eastman Kodak Company. (See Martin, Louis D., assignor.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eastman Kodak Company. (See Peterson, Willard D., assignor.)

Eastman Kodak Company. (See Schubert, A. E., Wangerin, and Egan, assignors.)
Eastman Kodak Company. (See Vanselow, W., Weissberger, and Glass, assignors.)
Egan, John F. (See Schubert, A. E., Wangerin, and Egan.)
Egge, Klaus, Mount Lebanon, Pa. Exhaust apparatus. 2,350,735; June 6.
Ehrenfried, George, assignor to Eastman Kodak Company, Rochester, N. Y. Producing dye images. 2,350,736; June 6.
Eiben, Michael A., Cleveland, Ohio. Apparatus for treating cement. 2,350,737; June 6.
Eisenberg, Leo, et al. (See Parnell, Walter H., assignor.)
Eistert, Bernd, and G. Kochendoerfer, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Basic water-soluble dyestuffs. 2,350,393; June 6.
Electric Storage Battery Company, The. (See Graf, Ernest, assignor.)
Elliot Equipment Limited. (See Hann, Kenneth G., assignor.)
Ellstrom, Elmer, Sr., Dearborn, Mich. Gauge for setting internal instruments. 2,350,394; June 6.
Eltz, George J., Jr., East Aurora, N. Y. Gas range. 2,350,500; June 6.
Embrey, Raymond T., Kansas City, Mo. Receptacle opening and pouring spout. 2,350,451; June 6.
Ender, Benjamin, Hokah, Minn. Hydraulic scoop. 2,350,327; June 6.
English Electric Company Limited, The. (See Mardis, Paul L., assignor.)
Enterprise Engine & Foundry Company. (See Lang, Charles W., assignor.)
Envall, Roy N., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Steam iron. 2,350,452; June 6.
Erbe, Arno, Freital, near Dresden, Germany; vested in the Alien Property Custodian. Shoe and boot pasting press with circulating press moulds. 2,350,738; June 6.
Ericks, Walter P., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Producing substituted guanidine and biguanide salts. 2,350,453; June 6.
Ernst, Walter, assignor to The Hydraulic Development Corporation, Inc., Mount Gilead, Ohio. Blank holder and die cushion cylinder having separate adjustable pressures. 2,350,884; June 6.
Eslinger, Nicholas, Foster, Ohio, assignor to Remington Arms Company, Inc. Feed mechanism. 2,350,549; June 6.
Esson, Edwin, assignor to Locke Stove Company, Kansas City, Mo. Water heater. 2,350,597; June 6.
Evrell, Kaleb E. (See Wallgren, A. G. F., Holmström, and Evrell.)
Exact Weight Scale Company, The. (See Katz, Maurice, assignor.)
Ex-Cell-O Corporation. (See Selnes, Alf K., assignor.)
Ex-Cell-O Corporation. (See Snader, I. J., and Seyferth, assignors.)
Farnsworth Television and Radio Corporation. (See Salinger, Hans, assignor.)
Faville, Frederick A., Wilmette, Ill. Marine power plant and method. 2,350,598; June 6.
Fay, Horace B., Willoughby, Ohio, assignor to Automatic Safety Wringer Company. Wringer. 2,350,342; June 6.
Feldheim, Einar F., Minneapolis, Minn. Headlight signal. 2,350,599; June 6.
Feldman, Max, assignor of one-third to D. M. Miro, Detroit, Mich. Pin driver and gauge. 2,350,675; June 6.
Ferguson, Warren T. (See Upton, J., and Ferguson.)
Ferré, Ferdinando, Milan, Italy; vested in the Alien Property Custodian. Centrifugal fans. 2,350,739; June 6.
Fetterman, Oscar B., Washington, D. C. Black-out shield for vehicle headlights. 2,350,676; June 6.
Finkle, Donald H., Los Angeles, Calif. Clamp. 2,350,550; June 6.
Fischer, Kermit, Bridge Valley, assignor to Fischer & Porter Company, Hotboro, Pa. Flowmeter. 2,350,343; June 6.
Fischer, Oswald, Nuremberg, Germany; vested in the Alien Property Custodian. Electrically driven toy vehicle. 2,350,740; June 6.
Fischer & Porter Company. (See Fischer, Kermit, assignor.)
Fish, Edwin L., and D. E. Maben, San Francisco, Calif. Electric switch apparatus. 2,350,551; June 6.
Fisher, Lawrence E. (See Frank, W. H., and Fisher.)
Fisher, Webster E. (See Bright, A. G., and Fisher.)
Fite, Tina B., et al. (See Swofford, Peter J., assignor.)
Flakall Corporation. (See Schwebke, C. J., and Hoadley, assignors.)
Flämig, Fritz, Chemnitz, Germany; vested in the Alien Property Custodian. Device for drawing goods from flat knitting machine. 2,350,885; June 6.
Fletcher, Fred W. (See Coleman, G. H., Fletcher, and Lynn.)
Fodor, Gábor. (See Bretschneider, H., Fodor, and Földi.)
Földi, Zoltán. (See Bretschneider, H., Fodor, and Földi.)
Folkers, Karl. (See Major, R. T., Christman, and Folkers.)
Ford, George E., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y. Indicating instrument having magnetic biasing means. 2,350,741; June 6.
Fordyce, Charles R., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Gelation coating process. 2,350,742; June 6.
Fordyce, Charles R., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Gelation coating process. 2,350,743; June 6.
Fordyce, Charles R., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Gelation coating process. 2,350,744; June 6.
Foss, Carl W. (See Argy, R. T., and Foss.)
Foster, Charles E., Los Angeles, Calif. Safety fluorescent lamp clip. 2,350,600; June 6.
Franclare Company. (See Miller, Frank W., assignor.)
Frank, William H., and L. E. Fisher, assignors to Bulldog Electric Products Company, Detroit, Mich. Electrical distribution system. 2,350,601; June 6.
Franz, Walter. (See Martin, H., and Franz.)
Fraser, William, Mariners Harbor, Staten Island, and J. M. Sloane, Westerleigh, Staten Island, N. Y. Device for storing and discharging life rafts, boats, or other articles. 2,350,344; June 6.
Freedman-Burnham Engineering Corporation. (See Freedman, G. L., and Burnham, assignors.)
Freedman, Gordon L., and W. E. Burnham, assignors to Freedman-Burnham Engineering Corporation, Cincinnati, Ohio. Propeller. 2,350,345; June 6.
Freimann, Andrew C., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,350,886; June 6.
Frey, Frederick E., and H. J. Hepp, Bartlesville, Okla., assignors to Phillips Petroleum Company. Producing hydrocarbons. 2,350,501; June 6.
Frost, Orley R., Port Huron, Mich. Milking machine. 2,350,602; June 6.
Fry, Lawrence A., Hollywood, Calif., assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Citrus fruit juice extractor. 2,350,603; June 6.
Frydman, Emanuel, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone instrument circuit. 2,350,604; June 6.
Fuchs, Rudolf, Brunn, Moravia; vested in the Alien Property Custodian. Clutch for automobiles. 2,350,745; June 6.
Fuller, Everett W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition. 2,350,746; June 6.
Fulton Electric Mfg. Co. (See Nunes, John S.)
Fürst, Stefan. (See Reiners, W., and Fürst.)
Gabel, Glen M., Le Mars, Iowa. Drain valve. 2,350,748; June 6.
Galigher Company, The. (See Thompson, J. W., and Booth, assignors.)
Gamet, Pierre P., Paris, France; vested in the Alien Property Custodian. Aerial system for radio beacons 2,350,747; June 6.
Garday, Louis J., Glenview, assignor to Aircraft & Diesel Equipment Corporation, Chicago, Ill. Hydraulic pump. 2,350,502; June 6.
Gardiner, William C. (See Peirce, F. T., and Gardiner.)
Gardner, Leah L., University City, Mo. Billfold. 2,350,503; June 6.
Gareis, Fritz, Wirges, Westerwald, Germany; vested in the Alien Property Custodian. Preparing ceramic masses. 2,350,749; June 6.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 2,350,659; June 6.
Gaskell, Clifford R., Dayton, Ohio. Self-tapping screw. 2,350,346; June 6.
Gaugler, Richard S., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,350,347; June 6.
Gaugler, Richard S., assignor to General Motors Corporation, Dayton, Ohio. Heat transfer device. 2,350,348; June 6.
Geier, Ernest C., and R. E. Semmler, New York, N. Y. Yarn. 2,350,504; June 6.
Geiser, Hans D. (See Kniehahn, W., Geiser, Shüler, Gerth, and Witt.)
General Aniline & Film Corporation. (See Eistert, B., and Kochendoerfer, assignors.)
General Chemical Company. (See Adams, James F., assignor.)
General Electric Company. (See Camilli, Guglielmo, assignor.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Grobel, Lloyd P., assignor.)
General Electric Company. (See Hamm, Clarence L., assignor.)
General Electric Company. (See Johnson, Howard A., assignor.)
General Electric Company. (See Kaufmann, Richard H., assignor.)
General Electric Company. (See Lord, Harold W., assignor.)
General Electric Company. (See Sias, Frederick R., assignor.)
General Electric Company. (See Smith, Arthur R., assignor.)

General Electric Company. (See Worcester, Joseph A., Jr., assignor.)
General Foods Corporation. (See Fry, Lawrence A., assignor.)
General Motors Corporation. (See Almen, John O., assignor.)
General Motors Corporation. (See Carney, Clifford R., assignor.)
General Motors Corporation. (See Critchfield, R. M., Schneider, and Short, assignors.)
General Motors Corporation. (See Freimann, Andrew C., assignor.)
General Motors Corporation. (See Gaugler, Richard S., assignor.)
General Motors Corporation. (See Gretzinger, J. R., Battey, and Rabezzana, assignors.)
General Motors Corporation. (See Hillcoat, A., and Griffith, assignors.)
General Motors Corporation. (See Rabezzana, Hector, assignor.)
General Motors Corporation. (See Spalding, G. A., and Palmer, assignors.)
General Railway Signal Company. (See Judge, Thomas J., assignor.)
General Railway Signal Company. (See Preston, Neil D., assignor.)
General Railway Signal Company. (See Wynn, Harold S., assignor.)
George, Roscoe H., and R. C. Webb, West Lafayette, Ind., assignors to Radio Corporation of America. Absorption modulation. 2,350,552; June 6.
Gerstenberger, Albin, Zella-Mehlis in Thuringia, Germany; vested in the Alien Property Custodian. Aiming apparatus. 2,350,750; June 6.
Gerth, Rudolf. (See Kniehahn, W., Geiser, Shüler, Gerth, and Witt.)
Gilbert, Walton E. (See Brumleu, E. C., and Gilbert.)
Gillette Safety Razor Company. (See Stampleman, S. C., and Muros, assignors.)
Gilpin, Garth G., Chicago, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Refrigerator car. 2,350,605; June 6.
Gladden, George W., Oswaldtwistle, assignor to W. W. Cocker, Accrington, England. Preparation of 2-chlor-meta-5-xylenol. 2,350,677; June 6.
Glass, Dudley B. (See Vanselow, W., Weissberger, and Glass.)
Glidden Company, The. (See Bain, W. M., and Neubauer, assignors.)
Gliubich, Carlo, Milan, Italy; vested in the Alien Property Custodian. Control means for aircraft wing flaps. 2,350,751; June 6.
Goebel, George, deceased, by H. Goebel, administratrix, and E. A. Wilckens, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Printing press roll structures. 2,350,505; June 6.
Goebel, Helene, administratrix. (See Goebel, G., and Wilckens.)
Goebel, Robert S., assignor to The National Cash Register Company, Dayton, Ohio. Zero elimination means. 2,350,454; June 6.
Goeger, Leo O., Hackettstown, N. J. Adjustable cutter. 2,350,349; June 6.
Goff, Harold W., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Method of manufacturing parts for electrical apparatus. 2,350,887; June 6.
Gold, Isadore, Brooklyn, N. Y., assignor to Atlantic Products Corporation, Trenton, N. J. Luggage bag. 2,350,606; June 6.
Goldsby, Arthur R. (See Sensel, E. E., and Goldsby.)
Gonsett, Faust R. (See Gonsett, Robert R. and F. R.)
Gonsett, Robert R. and F. R., Los Angeles, Calif. Rheostat and its manufacture. 2,350,607; June 6.
Graf, Ernest, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Plate for secondary or storage batteries. 2,350,752; June 6.
Grayson, John H., Monrovia, Calif. Milling cutter. 2,350,974; June 6.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, Lafayette, Ind. Watt-hour meter base. 2,350,395; June 6.
Green, Vernon L. (See Nystrom, K. F., and Green.)
Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Glycol formals. 2,350,350; June 6.
Grether, Ernest F. (See Du Vall, R. B., and Grether.)
Gretzinger, John R., A. J. Battey, and H. Rabezzana, Flint, assignors to General Motors Corporation, Detroit, Mich. Spark plug electrode. 2,350,396; June 6.
Griffith, James E., Denver, Colo. Combined land, air, and water vehicle. 2,350,608; June 6.
Griffith, John B. (See Hillcoat, A., and Griffith.)
Grimsley, Bewley W., Louisville, Ky. Variable stroke pump. 2,350,678; June 6.
Grobel, Lloyd P., Schenectady, N. Y., assignor to General Electric Company. Liquid seal. 2,350,753; June 6.
Grover, Atwood H. (See Jackson, R. G., and Grover.)
Grunberg, Wsevolode, Montreal, Quebec, Canada. Apparatus for instructing and training student operators. 2,350,351; June 6.
Guichard, Raymond A. E., Paris, France; vested in the Alien Property Custodian. Device for filing documents. 2,350,754; June 6.
Haas, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lockstitch sewing machine and bobbin therefor. 2,350,397; June 6.
Hachmuth, Karl H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Furfural purification. 2,350,609; June 6.
Hackman, Harvey J., Kings Mills, Ohio, assignor to Remington Arms Company, Inc. Ammunition abrading apparatus. 2,350,553; June 6.
Hadler, Bartholdt C. (See Coleman, G. H., and Hadler.)
Haigh, Vaughn, South Bend, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,350,506; June 6.
Hall, Nathan I., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selecting system. 2,350,888; June 6.
Hall Planetary Company, The. (See Leisner, H. J., and Sheaffer, assignors.)
Hamilton, Francis E. (See Lake, C. D., and Hamilton.)
Hamm, Clarence L., Marblehead, Mass., assignor to General Electric Company. Dynamoelectric machine. 2,350,755; June 6.
Hann, Kenneth G., Cyncoed, assignor of one-half to Elliott Equipment Limited, Cardiff, Wales. Chair and like supporting structure. 2,350,679; June 6.
Hanson, Saml., & Son Limited. (See Bogner, Peter, assignor.)
Harding, John, Jr., Shaker Heights, Ohio. Aeronautical fuel control valve. 2,350,352; June 6.
Harman, Emil I., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Television apparatus. 2,350,889; June 6.
Harris-Seybold-Potter Company. (See Spiller, W. R., and Barley, assignors.)
Harris, Sydney P. (See Purves, W. F., and Harris.)
Hartley, Cecil E., Utica, Mich. Honeycomb frame lifter. 2,350,890; June 6.
Hartman, Carl H., New Rochelle, E. A. Marsh, and N. E. Dorrington, Oswego, assignors to St. Regis Paper Company, New York, N. Y. Apparatus for opening and filling bags. 2,350,554; June 6.
Haskins, Allen F., Cranston, R. I. Electromagnetic tenter clip. 2,350,961; June 6.
Haug, Eugene H., Chicago, Ill., assignor to H. E. Young, trustee of Young & Haug Trust Estate. Automatic sectionalizing and short circuiting switch. 2,350,610; June 6.
Hawley, Don M. (See Bauer, J. V., and Hawley.)
Hays, Russell R., Lawrence, Kans. Irrotational rotor. 2,350,962; June 6.
Hayter, Bruce, assignor to Oil Devices, Santa Fe, N. Mex. Pot-type burner and improved baffle therefor. 2,350,891; June 6.
Healy, Alexander, Jr. (See Milek, Frank M., assignor.)
Heering, Harry. (See Klute, F., and Heering.)
Heftler, Paul, Grosse Pointe Park, Mich. Automobile brake and suspension linkage. 2,350,353; June 6.
Heinold, Gustav W., Leipzig, Germany; vested in the Alien Property Custodian. Lock washer. 2,350,756; June 6.
Heintz, Ralph M., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Control system. 2,350,680; June 6.
Hellings, William C., Los Angeles, and F. B. McLane, Montebello, Calif., assignors to Stauffer Chemical Company. Preparation of a new parasite control material. 2,350,328; June 6.
Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Distillation method. 2,350,507; June 6.
Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,350,508; June 6.
Hendel, Margarete, Leipzig, Germany; vested in the Alien Property Custodian. Stand for cooking vessels. 2,350,757; June 6.
Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Cartridge feed-belt for machine guns. 2,350,455; June 6.
Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Cartridge feed-belt for machine guns and making the same. 2,350,456; June 6.
Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Cartridge feed-belt for machine guns. 2,350,457; June 6.
Henry, Israel H. (See Busch, A. J., Henry, and Seibel.)
Hepp, Harold J. (See Frey, F. E., and Hepp.)
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See De Laney, William W., assignor.)
Hercules Powder Company. (See Mustaparta, George R., assignor.)
Herskovits, Benjamin, New York, N. Y. Control lever or wrench for gas meter inlet cocks. 2,350,354; June 6.
Heuer, Hans H. A., St. Petersburg, Fla. Winding device for retractable roofs. 2,350,758; June 6.
Hewson, Bertram T., London, England. Apparatus for obtaining colored images. 2,350,892; June 6.
Heywood, Frank J., Mill Valley, Calif. Shutoff coupling. 2,350,681; June 6.

Hibbard, Frank H., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,350,458; June 6.

Hicks, Almer G., Lockwood, Ohio. Charging apparatus. 2,350,611; June 6.

Hill, Arthur J. (See Salvin, V. S., and Hill.)

Hillcoat, Alexander, and J. B. Griffith, assignors to General Motors Corporation, Detroit, Mich. Double reduction axle. 2,350,459; June 6.

Hilmer, Frederick B., Berkeley, and N. E. Peery, assignors to Shell Development Company, San Francisco, Calif. Transportation of finely divided solids. 2,350,759; June 6.

Hineline, Harris D. (See Kellog, H. B., and Hineline.)

Hinson, Wiley A., Jacksonville, Fla. Supporting comb foundations in honey frames. 2,350,963; June 6.

Hirdler, Edgar A. (See Butler, B. F., and Hirdler.)

Hlavaty, Rudolph F., Cicero, Ill. Self-aligning pulley. 2,350,509; June 6.

Hoadley, Frank E. (See Schwebke, C. J., and Hoadley.)

Hodges, Caleb E. (See Lieber, E., and Hodges.)

Hoehn, John J., and A. G. Zimmerman, Indianapolis, Ind., assignors to Radio Corporation of America. Phonographic apparatus. 2,350,682; June 6.

Hoffman, Jacob N., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,350,510; June 6.

Hoffmann, Louis B., Los Angeles, assignor to Mitchell Camera Corporation, West Hollywood, Calif. Shutter mechanism. 2,350,355; June 6.

Hofgaard, Rolf, Sondre Hellerud Gaard, Nordstrandshogda, near Oslo, Norway; vested in the Alien Property Custodian. Type for typewriting machines, perforation or printing as well as interpretation system for characters. 2,350,893; June 6.

Holan, James H., Jr. (See Troche, H. J., and Holan.)

Holmström, Oscar F. (See Wallgren, A. G. F., Holmström, and Evrell.)

Hönel, Herbert, Vienna, Germany; vested in the Alien Property Custodian. Making alcohol modified urea-formaldehyde resins. 2,350,894; June 6.

Hoover, Charles, Jr., Lexington, N. C. Folding chair. 2,350,895; June 6.

Hopson, J. B., et al. (See Swofford, Peter J., assignor.)

Horan, Timothy F., assignor to Western Cartridge Company, New Haven, Conn. Tubular-magazine repeating firearm. 2,350,555; June 6.

Horn, Ernst, Nurnberg, Germany; vested in the Alien Property Custodian. Track for toy vehicles. 2,350,760; June 6.

Hornfeck, Anthony J., Cleveland, Ohio, assignor to Bailey Meter Company. Temperature measuring apparatus. 2,350,329; June 6.

Hotchkiss, Harry D., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Ammunition and explosive-charge making. 2,350,556; June 6.

Houseman, Melvin R., Glen Rock, assignor to Bendix Aviation Corporation, Bendix, N. J. Liquid level. 2,350,612; June 6.

Hufferd, George H., Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Joint construction. 2,350,398; June 6.

Humeston, Frederick L., Hamden, assignor to Western Cartridge Company, New Haven, Conn. Cartridge-deflecting means for self-loading repeating firearms. 2,350,460; June 6.

Humphreys, Ferdinand F., Caldwell, N. J., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Dispatching mechanism for alarm signal systems. 2,350,557; June 6.

Hunter, Richard B., Shorewood, and H. L. Mekelburg, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Rope-operated mechanism for control drums. 2,350,613; June 6.

Huston, William M., Lima, Ohio. Excavating equipment. 2,350,762; June 6.

Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Safety shutter for projectors. 2,350,761; June 6.

Hydraulic Brake Company. (See Benn, Walter E., assignor.)

Hydraulic Development Corporation, The. (See Ernst, Walter, assignor.)

Ideal Novelty & Toy Co. (See Kallus, Joseph L., assignor.)

Independent Pneumatic Tool Company. (See Mitchell, Walter G., assignor.)

Ingalls, David. (See Peters, M. F., and Ingalls.)

International Business Machines Corporation. (See Dickinson, Arthur H., assignor.)

International Business Machines Corporation. (See Lake, Clair D., assignor.)

International Business Machines Corporation. (See Lake, C. D., and Hamilton, assignors.)

International Business Machines Corporation. (See Leathers, Ward, assignor.)

International Business Machines Corporation. (See Loungway, Arthur M., assignor.)

International Business Machines Corporation. (See Rabenda, E. J., and Kistner.)

International Business Machines Corporation. (See Sampson, Richard H., assignor.)

International Standard Electric Corporation. (See Ullrich, Edward H., assignor.)

Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)

Ivey, Louis T., Green Cove Springs, Fla. Poultry feeder. 2,350,461; June 6.

Jack & Heintz, Inc. (See Heintz, Ralph M., assignor.)

Jackson, Homel A., Detroit, Mich. Fluid-cooled electrode holder. 2,350,614; June 6.

Jackson, Robert G., Hopatcong, and A. H. Grover, Rockaway, N. J. Machine for extruding loaded components. 2,350,356; June 6.

Jackson, Stonewall, assignor to Morton Machine Works, Columbus, Ga. Valve-actuating means. 2,350,763; June 6.

Jasco, Incorporated. (See Arundale, E., and Mikeska.)

Jasco, Incorporated. (See Mikeska, L. A., and Arundale, assignors.)

Jde, Hans, Falkenbery, near Grunau, Germany; vested in the Alien Property Custodian. Supercharger-regulator for airplane cabins. 2,350,896; June 6.

Jelley, Edwin E., and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic screening layer. 2,350,764; June 6.

Jellis, Morgan, Peterborough, assignor to Coventry Gauge & Tool Company Limited, Coventry, England. Forming and dressing grinding wheels. 2,350,897; June 6.

Jetter, Cyrus C., Grand Rapids, Mich. Pump. 2,350,898; June 6.

Joesting, Frederick D., Oak Park, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic control device. 2,350,615; June 6.

Johns, Robert L., Brooklyn, N. Y. Portable lamp. 2,350,462; June 6.

Johnson, Howard A., Melrose, Mass., assignor to General Electric Company. Supercharger. 2,350,616; June 6.

Johnson, James O., Teaneck, assignor to Aircraft-Marine Products, Inc., Elizabeth, N. J. Electrical connector. 2,350,765; June 6.

Johnson, Jerome E., assignor to Tension Envelope Corporation, New York, N. Y. Black-out device. 2,350,617; June 6.

Johnson, Joseph E., Brooklyn, N. Y. Producing castings. 2,350,899; June 6.

Johnson, Leigh E., Wichita, Kans. Air-conditioned canopy. 2,350,618; June 6.

Johnson, Treat B., Bethany, Conn., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Amino diphenyl sulphides and making them. 2,350,900; June 6.

Johnston, Charles F., Oakland, Calif. Piston expander and stabilizer. 2,350,619; June 6.

Johnston, James G., Chicago, Ill., assignor to The Warren Featherbone Co., Three Oaks, Mich. Garment bag. 2,350,901; June 6.

Jones, Arthur E., assignor to Postare Research Corporation, Elkhart, Ind. Chair base. 2,350,399; June 6.

Jones, Kenneth H. (See Byron, O., and Jones.)

Jossim, Leopold P., and J. S. Kellett, Royal Oak, Mich. Fluid drive. 2,350,683; June 6.

Judge, Thomas J., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,350,620; June 6.

Kahlisch, Gustav. (See Reiners, W., and Kahlisch.)

Kallmann, Heinz E., assignor to Radio Corporation of America. Television system. 2,350,902; June 6.

Kallus, Joseph L., Brooklyn, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Container. 2,350,463; June 6.

Kantor, Israel, Bronx, N. Y. Tent. 2,350,684; June 6.

Kappus, Peter. (See Löhner, K., and Kappus.)

Kasdan, Nathan, Plainfield, Conn. Temporary bolting device. 2,350,685; June 6.

Kasser, Joseph B., Roseville, Calif. Orchard conditioning system. 2,350,621; June 6.

Katz, Maurice, Brooklyn, N. Y., assignor to The Exact Weight Scale Company, Columbus, Ohio. Scale or balance. 2,350,622; June 6.

Kaufman, Joseph M. S. (See Krasnow, S., and Kaufman.)

Kaufmann, Richard H., Schenectady, N. Y., assignor to General Electric Company. Dynamometer excitation control system. 2,350,766; June 6.

Keating, James P., assignor to Neenah Foundry Company, Neenah, Wis. Mooring block. 2,350,767; June 6

Keene, Samuel I. (See Seitz, John G., assignor.)

Keith, Percival C., Jr. (See Degnen, W. J., Nelly, and Keith.)

Keller, Arthur C., Bronxville, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,350,464; June 6.

Kellett, John S. (See Jossim, L. P., and Kellett.)

Kellog, Henry B., Union City, N. J., and H. D. Hineline, Mount Vernon, N. Y. Producing vitamin concentrates. 2,350,768; June 6.

Kellogg, John L., assignor, by mesne assignments, to John L. Kellogg & Co., Chicago, Ill. Coffee extract. 2,350,903; June 6.

Kellogg, John L., & Co. (See Kellogg, John L., assignor.)

Kellogg, M. W., Company, The. (See Degnen, W. J., Nelly, and Keith, assignors.)

Kelman, David J., Brooklyn, N. Y. Scouring device and making the same. 2,350,357; June 6.

Kendall, Edgar H. (See Rodder, W., and Kendall.)

Kerns, William J., Rahway, and H. G. Schneider, Roselle, N. J., assignors to Standard Alcohol Company. Production of alcohols. 2,350,558; June 6.

Keshian, Henry G., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Metal drawing die. 2,350,465; June 6.

Keuffel, Carl W., Weehawken, assignor to Keuffel & Esser Company, Hoboken, N. J. Drafting machine. 2,350,358; June 6.

Keuffel & Esser Company. (See Keuffel, Carl W., assignor.)

Kiefer, Robert W. (See Carruthers, T. F., and Kiefer.)

Kienitz, Sidney E., New York, assignor to Penthrathane Products, Inc., Long Island City, N. Y. Crankcase insulation. 2,350,559; June 6.

Kimball, Vernon R., Maywood, assignor to Bendix Aviation Corporation, Bendix, N. J. Caging means for gyroscopes. 2,350,769; June 6.

Kimball, Wallace D., Jackson Heights, N. Y., assignor to Standard-Knapp Corporation, Portland, Conn. Case packer. 2,350,560; June 6.

King, Gerald V., Chatham, N. J., and O. Myers, Mount Vernon, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system trouble recorder. 2,350,466; June 6.

King, Thomas E., Hartsdale, assignor to Lord & Burnham Company, Irvington-on-Hudson, N. Y. Building structure. 2,350,904; June 6.

King, Wilbert A., Memphis, Tenn., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Production of resins. 2,350,400; June 6.

Kirchner, Gerhard, Roda, near Ilmenau, Thuringia, Germany; vested in the Alien Property Custodian. Producing articles by an injection molding machine. 2,350,770; June 6.

Kirkstall Forge Limited. (See Cowell, Frederick R., assignor.)

Kistner, Harold J. (See Rabenda, E. J., and Kistner.)

Klunder, John H., Chicago, Ill. Ventilator for buildings. 2,350,771; June 6.

Klute, Friedrich, and H. Heering, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Device for covering electric wires. 2,350,772; June 6.

Kneass, Strickland, Jr., Boylston, assignor to Morgan Construction Company, Worcester, Mass. Draft producing apparatus. 2,350,401; June 6.

Knichahn, Werner, H. D. Geiser, Chemnitz, H. Schüler, Siegmar–Schoman, R. Gerth, Wittgensdorf, near Chemnitz, and R. Witt, Chemnitz, Germany; vested in the Alien Property Custodian. Device for automatically inserting and adjusting sheets of paper in typing or printing machines. 2,350,773; June 6.

Kochendoerfer, Gerd. (See Eistert, B., and Kochendoerfer.)

Koehler, Gustave J., Dayton, Ohio. Fluid valve. 2,350,905; June 6.

Kohl, Karl, Berlin, Germany; vested in the Alien Property Custodian. Image enlarging cathode-ray tube. 2,350,774; June 6.

Kokatnur, Vaman R., and Andrew van Hook, Easton, assignor, by mesne assignments, to F. S. Busser, Philadelphia, Pa., and F. P. Warfield, New York, N. Y., trustees for Autoxygen, Inc., and Sun Oil Company. Lubricant grease. 2,350,906; June 6.

Kono, Yoshimitsu, Hiroshima, Japan; vested in the Alien Property Custodian. Cannula holder. 2,350,775; June 6.

Kowalski, John J., Seattle, Wash. Razor and blade holder. 2,350,467; June 6.

Kraeft, Herman L., Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Bicycle crank hanger assembly. 2,350,468; June 6.

Krasnov, Joseph A., Melrose Park, and M. M. Kuller, Allentown, assignors to Sure-Fit Products Company, Darby, Pa. Self-conforming, surface-gripping, ready-made knitted slip cover for overstuffed upholstered furniture. 2,350,359; June 6.

Krasnow, Shelley, New York, N. Y., and J. M. S. Kaufman, Washington, D. C. Magnetic direction indicating instrument. 2,350,402; June 6.

Kroger, Fred H., Patchogue, N. Y., assignor to Radio Corporation of America. Ultra short wave apparatus. 2,350,907; June 6.

Kruea, Charles H., Fort Thomas, Ky. Combination basting and skewering device. 2,350,623; June 6.

Krüssmann, Adolf, Berlin-Friedenau, Germany; vested in the Alien Property Custodian. Device for converting a controlling impulse into an alternating current impulse. 2,350,776; June 6.

Kulka, Eugene R., Mount Vernon, N. Y. Two-way flasher and circuit control. 2,350,403; June 6.

Kuller, Max M. (See Krasnov, J. A., and Kuller.)

La-Del Conveyor & Manufacturing Company. (See Bebinger, Charles N., assignor.)

Lake, Clair D., Binghamton, and F. E. Hamilton, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Sheet feeding machine. 2,350,511; June 6.

Lake, Clair D., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,350,561; June 6.

Lake, Frank R. (See Cochran, C. W., and Lake.)

Lanciani, Ettore, Milan, Italy; vested in the Alien Property Custodian. Aircraft back-turret cupola. 2,350,777; June 6.

Lang, Charles W., assignor to Enterprise Engine & Foundry Company, San Francisco, Calif. Boring and grooving attachment. 2,350,778; June 6.

Lange, Ludwig H. (See Sonneborn, J. R., and Lange.)

Langford, Walter, Graton, Calif. Fruit collector. 2,350,908; June 6.

Langrish, Henry W., assignor to Molins Machine Company, Limited, Deptford, London, England. Knife cleaner for rotary tobacco-leaf cutting machines. 2,350,686; June 6.

Lanning, Howard H., Topeka, Kans. Smoke stack. 2,350,512; June 6.

Lapkoff, Alexander, Washington, D. C. Filing machine. 2,350,779; June 6.

Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Industrial truck. 2,350,909; June 6.

Leadbetter, Ralph L., Wheaton, assignor, by mesne assignments, to Burgess-Manning Company, Chicago, Ill. Sound barrier wall or door construction. 2,350,513; June 6.

Leathers, Ward, Brooklyn, assignor to International Business Machines Corporation, New York, N. Y. Automatic meter reading apparatus. 2,350,405; June 6.

Lechleitner, Aloysius E., assignor to Eastman Kodak Company, Rochester, N. Y. Film guiding assembly. 2,350,780; June 6.

Lechthaler, Charles H. (See Simpson, T. P., and Lechthaler.)

Lee, Raymond E. (See Reed, Raymond E., assignor.)

Leed Company, The. (See Reed, Raymond E., assignor.)

Lefkowitz, Elizabeth. (See Nunes, John S., assignor.)

Leisner, Henry J., Philadelphia, and H. C. Sheaffer, North Hills, assignors to The Hall Planetary Company, Philadelphia, Pa. Milling machine. 2,350,406; June 6.

Levi, James H. (See Acord, John L., assignor.)

Libbey-Owens-Ford Glass Company. (See Murphy, F. R., and Bebout, assignors.)

Licata, Francis J., New York, N. Y., and J. Nothum, Elizabeth, assignors to National Oil Products Company, Harrison, N. J. Metallic soap composition. 2,350,688; June 6.

Lichte, August, Dessau-Alten, Germany; vested in the Alien Property Custodian. Governor. 2,350,781; June 6.

Lieber, Eugene, West New Brighton, Staten Island, N. Y., and C. E. Hodges, Elizabeth, N. J., assignors to Standard Oil Development Company. Lubricating oil agent. 2,350,562; June 6.

Lietz, Gustav, Chemnitz, Germany; vested in the Alien Property Custodian. Greasing agent. 2,350,782; June 6.

Lincoln, Bert H., G. D. Byrkit, and W. L. Steiner, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oil. 2,350,783; June 6.

Liston, William P., Richmond, Calif. Flange spreader. 2,350,404; June 6.

Litka, William A., Rialto, Calif. Car washer. 2,350,469; June 6.

Livar, Allen P., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Air deflector for air ducts. 2,350,514; June 6.

Locke Stove Company. (See Esson, Edwin, assignor.)

Loder, Donald J., Wilmington, and W. O. Teeters, Roselle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Esters. 2,350,964; June 6.

Loder, Donald J., Wilmington, and W. O. Teeters, Roselle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Esters of substituted acetic acids. 2,350,360; June 6.

Logan, Hugh B., St. Louis, Mo. Vibratory device. 2,350,563; June 6.

Löhner, Kurt, and P. Kappus, Munich, Germany; vested in the Alien Property Custodian. Air charge cooling device. 2,350,784; June 6.

Long, Ralph L., San Diego, Calif. Header construction for sliding doors. 2,350,689; June 6.

Lord & Burnham Company. (See King, Thomas E., assignor.)

Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Electric relay means. 2,350,785; June 6.

Loungway, Arthur M., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Automatic machine. 2,350,515; June 6.

Lower, Nathan M., Erie, Pa. Fuel conditioning and feeding apparatus. 2,350,910; June 6.

Lummus Company, The. (See Thornton, James F., assignor.)

Lund, Elbert C. (See Sampair, C. B., and Lund.)

Lynn, George E. (See Coleman, G. H., Fletcher, and Lynn.)

Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)

Maben, Daniel E. (See Fish, E. L., and Maben.)

Mahan, Clarence E., Hawthorne, Nev. Internal-combustion engine. 2,350,626; June 6.

Major, Randolph T., Plainfield, C. C. Christman, Colonia, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Hydrogenation of diethylstilboestrol. 2,350,361; June 6.
Malachowski, Bronislaus T., Detroit, Mich. Clutch mechanism. 2,350,627; June 6.
Mardis, Paul L., Ilkley, assignor to The English Electric Company Limited, London, England. Temperature indicator. 2,350,911; June 6.
Marette, Jacques L. J., Saint Germain en Laye, and H. L. Burnat, Paris, France; vested in the Alien Property Custodian. Sound reproducing unit for sound films. 2,350,786; June 6.
Margolin, Meyer, Elgin, Ill. Novel resilient heel construction. 2,350,362; June 6.
Marsh, Esli A. (See Hartman, C. H., Marsh, and Dorrington.)
Marsh, Jas. P., Corporation. (See Rose, A. D., and Seegers, assignors.)
Marshall, Ray W., assignor to The Ohio Boxboard Company, Rittman, Ohio. Molding and packaging moldable products. 2,350,912; June 6.
Martin, Hans, and W. Franz, Erfurt, Germany; vested in the Alien Property Custodian. Key head. 2,350,787; June 6.
Martin, Louis D., assignor to Eastman Kodak Company, Rochester, N. Y. Gear testing tool. 2,350,788; June 6.
Martin, William T., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Machine for use in the manufacture of cartons. 2,350,690; June 6.
Marx, Walter S., Jr., assignor to Printing Arts Research Laboratories, Inc., Santa Barbara, Calif. Photoengraving. 2,350,516; June 6.
Marzoli, Luigi, Palazzolo Sull'Oglio, Italy; vested in the Alien Property Custodian. Pressure device for drawing cylinders for fly frames having three, four, or more cylinders. 2,350,789; June 6.
Maschinenfabrik Oerlikon. (See Boller, Wilhelm, assignor.)
Massa, Robert F., New York, N. Y. Insulating covering. 2,350,363; June 6.
Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic dehydrogenation process. 2,350,628; June 6.
Maurer, LeRoy F. (See Trotter, J. C., and Maurer.)
Mauroner, Curtis, Braggs, Okla. Grading machine. 2,350,691; June 6.
May, Emmett L. B., Houston, Tex. Soapstone holder. 2,350,629; June 6.
McCallister, J. V., et al. (See Cunningham, James E., assignor.)
McCarthy, J. Clarence, Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Trim for plumbing fixtures. 2,350,790; June 6.
McCarthy, Timothy B., et al. (See Amos, Howard W., assignor.)
McDaniel, Ernest C., Denver, Colo. Trailer dolly. 2,350,624; June 6.
McDowell, Thomas E., assignor to The Pyle-National Company, Chicago, Ill. Airplane landing field locationing system and means. 2,350,407; June 6.
McGee, Jesse M., Oak Park, assignor to Roberts and Schaefer Company, Chicago, Ill. Process and apparatus for separating material. 2,350,625; June 6.
McGrath, William L., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Direct expansion air conditioning control system. 2,350,408; June 6.
McGraw Electric Company. (See Olving, Bror G., assignor.)
McLane, Forrest B. (See Hellings, W. C., and McLane.)
Meder, Georg. (See Podschus, E., and Meder.)
Mekelburg, Harold L. (See Hunter, R. B., and Mekelburg.)
Melcher, Alfred A., assignor of one-half to F. L. Smith, Los Angeles, Calif. Sheet holding tool. 2,350,630; June 6.
Melcher, Lee W., Oconomowoc, assignor to Waukesha Motor Company, Waukesha, Wis. Electrical timing system. 2,350,409; June 6.
Menhall, James W., Centralia, Ill. Deep well drilling apparatus. 2,350,364; June 6.
Menihan, Hugh, assignor to American Bank Note Company, New York, N. Y. Printed article. 2,350,564; June 6.
Mennesson, Marcel, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Auxiliary motor device for driving light vehicles. 2,350,791; June 6.
Mercer, John F., Globe, Ariz. Motor load control. 2,350,913; June 6.
Merck & Co. (See Major, R. T., Christman, and Folkers, assignors.)
Merck & Co. (See Tishler, M., and Carlson, assignors.)
Metzger, William J., Euclid, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 2,350,470; June 6.
Meyer, Henry G. (See Tomlinson, R. W., and Meyer.)
Micromatic Hone Corporation. (See Peden, Douglas T., assignor.)
Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Manufacture of derivatives of the saturated and unsaturated cyclopentanopolyhydrophenanthrene series. 2,350,792; June 6.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Reflecting camera. 2,350,793; June 6.
Mikeska, Louis A. (See Arundale, E., and Mikeska.)
Mikeska, Louis A., Westfield, and E. Arundale, Colonia, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Converting a cyclic acetal to a polyolefin. 2,350,517; June 6.
Milek, Frank M., Thermopolis, assignor of fifty per cent to A. Healy, Jr., Worland, Wyo. Fishing tool. 2,350,692; June 6.
Miller, Frank C. (See Walsh, J. F., and Miller.)
Miller, Frank W., assignor to Franclare Company, Chicago, Ill. Reconditioning boilers. 2,350,914; June 6.
Miller, John A., De Kalb, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Apparatus for forming panels. 2,350,915; June 6.
Miller, Raymond J., Detroit, Mich., assignor to American Pattern and Manufacturing Co., a co-partnership consisting of said Miller and A. E. Wilson. Copyholder. 2,350,365; June 6.
Millie Patent Holding Co. (See Allatt, Mervin, assignor.)
Millonig, Edward A., Dayton, Ohio. Finishing tool. 2,350,794; June 6.
Mills, Harold A., Nashville, Tenn., assignor, by mesne assignments, to Consolidated Vultee Aircraft Corporation. Drill chuck. 2,350,565; June 6.
Miner, W. H., Inc. (See Dath, George E., assignor.)
Minneapolis-Honeywell Regulator Company. (See Joesting, Frederick D., assignor.)
Minneapolis-Honeywell Regulator Company. (See McGrath, William L., assignor.)
Minneapolis-Honeywell Regulator Company. (See Sparrow, Hubert T., assignor.)
Minnesota Mining & Manufacturing Company. (See Drew, Richard G., assignor.)
Minnesota Mining & Manufacturing Company. (See Sampair, C. B., and Lund, assignors.)
Miro, David M. (See Feldman, Max, assignor.)
Mitchell Camera Corporation. (See Hoffmann, Louis B., assignor.)
Mitchell, James A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Moisture-resistant Cellophane. 2,350,366; June 6.
Mitchell, Walter G., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Portable handheld electric tool. 2,350,631; June 6.
Mitchell, W. K., & Company. (See Bissout, H. A., and Borresen, assignors.)
Molins Machine Company, Limited. (See Langrish, Henry W., assignor.)
Monier, Marius A., Grillon, by Valreas, France; vested in the Alien Property Custodian. Hydraulic press. 2,350,795; June 6.
Moomaw, Lewis H., Wilmette, Ill., and H. Bernzott, assignors to The Bell & Howell Company, Chicago, Ill. Strip feed mechanism. 2,350,693; June 6.
Moore, Leonard P. (See Barnes, R. B., and Moore.)
Morgan Construction Company. (See Kneass, Strickland, Jr., assignor.)
Morioka, Isao, Tokyo, Japan; vested in the Alien Property Custodian. Plastically reproducing objects. 2,350,796; June 6.
Morland, Preben, Gentofte, and J. A. Smith, Copenhagen, Denmark; vested in the Alien Property Custodian. Producing electric impulses. 2,350,797; June 6.
Morris, Claremont R., New York, N. Y. Match device. 2,350,798; June 6.
Morris, Claremont R., New York, N. Y. Portable article. 2,350,799; June 6.
Morrison, Earl, St. Louis County, assignor to Curtis Manufacturing Company, St. Louis, Mo. Compressor. 2,350,518; June 6.
Morrison, John F., Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra short wave antenna system. 2,350,916; June 16.
Morton Machine Works. (See Jackson, Stonewall, assignor.)
Morway, Arnold J. (See Zimmer, J. C., and Morway.)
Muecke, Edward, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Looper thread controlling mechanism for sewing machines. 2,350,965; June 6.
Mueller, L. J., Furnace Company. (See Davis, Keith T., assignor.)
Müller, Adalbert, Augsburg, Germany; vested in the Alien Property Custodian. Producing stable aqueous wax emulsions. 2,350,800; June 6.
Muros, Joseph. (See Stampleman, S. C., and Muros.)
Murphy, Chalmer E., Cleveland Heights, assignor to Porcelain Steels, Inc., Cleveland, Ohio. Apparatus for truing up tubular bodies. 2,350,410; June 6.
Murphy, Francis R., and R. H. Bebout, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company. Densifying mill. 2,350,632; June 6.
Murray-Ohio Manufacturing Company, The. (See Kraeft, Herman L., assignor.)

Mustaparta, George R., Kingston, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Primer tube for dynamite cartridges. 2,350,566; June 6.
Mutual Chemical Company of America. (See Darrin, Marc, assignor.)
Myers, Oscar. (See King, G. V., and Myers.)
Nabstedt, Arthur T., Hamden, Conn., assignor to The Snow-Nabstedt Gear Corporation. Clutch mechanism. 2,350,411; June 6.
Nash-Kelvinator Corporation. (See Ulrich, Theodore, assignor.)
National Cash Register Company, The. (See Goebel, Robert S., assignor.)
National Malleable and Steel Castings Company. (See Metzger, William J., assignor.)
National Oil Products Company. (See Licata, F. J., and Nothum, assignors.)
National Postal Meter Company. (See Ryan, C. D., and Drake, assignors.)
Neenah Foundry Company. (See Keating, James P., assignor.)
Nelly, Henry M., Jr. (See Degnen, W. J., Nelly, and Keith.)
Nelson, Arthur W., Park Ridge, assignor to Apex Railway Products Co., Chicago, Ill. Reticulated metal walkway and producing same. 2,350,412; June 6.
Németh, Béla, Keszthely, Hungary; vested in the Alien Property Custodian. Seed cultivation. 2,350,801; June 6.
Neubauer, Arthur W. (See Rain, W. M., and Neubauer.)
Nevin, Harry I., Sr., Anderson, Ind. Rip envelope. 2,350,802; June 6.
Newby, Neal D., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,350,917; June 6.
Newcomb, Robert D., Los Angeles, Calif. Automatic volume control. 2,350,803; June 6.
Newton, Albert W. (See Newton, William G., assignor.)
Newton, William G., Prince Albert, assignor to A. W. Newton, Biggar, Saskatchewan, Canada. Metal car seal. 2,350,471; June 6.
Nicolas, Marcel A., assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y. Bag-closing device. 2,350,694; June 6.
Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
Norlander William D., and R. L. Alldredge, assignors of one-half to P. Paden, Denver, Colo. Treating tinned steel scrap. 2,350,918; June 6.
Northern Tool & Die Co. (See Paulsen, George A., assignor.)
Nothum, Joseph. (See Licata, F. J., and Nothum, assignors.)
Nunes, John S., assignor to E. Lefkowitz, conducting business as Fulton Electric Mfg. Co., New York, N. Y. Electric switch. 2,350,966; June 6.
Nunes, John S., assignor to E. Lefkowitz, conducting business as Fulton Electric Mfg. Co., New York, N. Y. Manually controlled time switch. 2,350,967; June 6.
Nystrom, Karl F., and V. L. Green, Milwaukee, Wis. Railroad car truck. 2,350,567; June 6.
Obenauer, Harlen W., Birmingham, Mich. Bolt lock. 2,350,633; June 6.
Ohio Boxboard Company, The. (See Marshall, Ray W., assignor.)
Ohta, Masaki, Osaka, Japan; vested in the Alien Property Custodian. Derivatives of hesperidin and preparing the same. 2,350,804; June 6.
Oil Devices. (See Breese, James L., assignor.)
Oil Devices. (See Hayter, Bruce, assignor.)
Oil Devices. (See Perry, Stanley, assignor.)
O'Leary, Charles M., Houston, Tex. Intermitter. 2,350,472; June 6.
Olson, Ola M., Rosholt, S. Dak. Flytrap. 2,350,519; June 6.
Olving, Bror G., asignor to McGraw Electric Company, Elgin, Ill. Electric razor. 2,350,805; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Coating composition and azo pigment dyestuff therefor. 2,350,520; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Free-flowing powdered soap mixture and its preparation. 2,350,521; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of azo pigment dyestuffs and coating compositions. 2,350,522; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Salt-form azo pigment dyestuff and coating composition made therefrom. 2,350,523; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Azo pigment dyestuff and coating composition. 2,350,524; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of pigments and coating compositions. 2,350,525; June 6.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Water-insoluble soap of soap-forming acids in powdered, free-flowing form. 2,350,526; June 6.
Ordman, Theodore, Brooklyn, N. Y. Portable signaling aid for the deaf and hard of hearing. 2,350,413; June 6.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drill steel guide. 2,350,661; June 6.
Ovestrud, Melvin. (See Berg, E. G., and Ovestrud.)
Owens, Walter L., Chesterfield, assignor to R. W. Shoemaker, Anderson, Ind. Band sealing machine. 2,350,473; June 6.
Owens, Walter L., Chesterfield, assignor to R. W. Shoemaker, Anderson, Ind. Hydraulic sealing machine. 2,350,474; June 6.
Paden, Philip. (See Norlander, W. G., and Alldredge, assignors.)
Palliser, Elizabeth, New York, N. Y. Finger ring. 2,350,806; June 6.
Palmer, Marley A. (See Spalding, G. A., and Palmer.)
Parker Appliance Company, The. (See Bates, Alfred O. assignor.)
Parnell, Walter H., assignor of one-fourth to L. Eisenberg, one-fourth to W. A. Wourters, and one-fourth to N. Rothenberg, Brooklyn, N. Y. Coin tester. 2,350,414; June 6.
Parry, Frank, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,350,807; June 6.
Parsons, John B., Toledo, Ohio. Vehicle top operating mechanism. 2,350,634; June 6.
Paulsen, George A., assignor to Northern Tool & Die Co., Chicago, Ill. Gauge holder. 2,350,415; June 6.
Pearson, Elmer W., Red Wing, Minn. Work holder for boring and drilling machines. 2,350,919; June 6.
Pecker, Joseph S., and H. A. Simpson, Philadelphia, Pa., assignors, by mesne assignments, to J. S. Pecker, New York, N. Y. Forming pressed articles from powders. 2,350,971; June 6.
Peden, Douglas T., Ann Arbor, assignor to Micromatic Hone Corporation, Detroit, Mich. Adjustable feed for tools. 2,350,527; June 6.
Peery, Norman E. (See Hilmer, F. B., and Peery.)
Peglau, Paul, Berlin-Steglitz, Germany; vested in the Alien Property Custodian. Jet-pipe relay. 2,350,808; June 6.
Peirce, Frederick T., Manchester, and W. C. Gardiner, Salford, assignors to The British Cotton Industry Research Association, Manchester, and F. Reddaway and Company Limited, Salford, England. Woven structure resistant to penetration by water under pressure. 2,350,696; June 6.
Pelessoni, Giovanni, Udine, Italy; vested in the Alien Property Custodian. Wing for aircraft with a variable surface. 2,350,809; June 6.
Pendleton, Ralph I., Palo Alto, Calif., assignor of one-sixth to S. G. Pendleton. Door strike. 2,350,635; June 6.
Pendleton, Sara G. (See Pendleton, Ralph I., assignor.)
Pennsylvania Salt Manufacturing Company, The. (See Tomlinson, R. W., and Meyer, assignors.)
Pentrathane Products, Inc. (See Kienitz, Sidney E., assignor.)
Pentz, Albert D., New Brighton, Staten Island, N. Y. Fluid drive transmission. 2,350,810; June 6.
Percheron, Maurice, Paris, France; vested in the Alien Property Custodian. Artificial digestion of albuminoid and fatty substances. 2,350,811; June 6.
Perry, Nelson I., Chicago, Ill. Fluid drive. 2,350,416; June 6.
Perry, Stanley, Chicago, Ill., assignor to Oil Devices, Santa Fe, N. Mex. Heat responsive means for controlling the air supply to liquid fuel burners. 2,350,920; June 6.
Petch, Horace F., New Barnet, England. Oil seal. 2,350,697; June 6.
Peters, Melville F., Beltsville, Md., and D. Ingalls, Westfield, N. J., assignors to Titeflex, Inc. Ventilated radio-shielded spark plug. 2,350,367; June 6.
Petersen, Alfred, Chicago, Ill. Lifting tongs. 2,350,528; June 6.
Peterson, Willard D., assignor to Eastman Kodak Company, Rochester, N. Y. Diketopyrimidine coupler. 2,350,812; June 6.
Peterson, William R., Oswego, assignor to St. Regis Paper Company, New York, N. Y. Bag-filling apparatus with power discharge. 2,350,529; June 6.
Philco Radio and Television Corporation. (See Barth, Jay E., assignor.)
Philco Radio and Television Corporation. (See Harman, Emil I., assignor.)
Philipsen, Nikolaus M., Tokyo, Japan; vested in the Alien Property Custodian. Regenerative coke oven. 2,350,813; June 6.
Phillips Petroleum Company. (See Buell, C. K., and Cooper, assignors.)
Phillips Petroleum Company. (See Frey, F. E., and Hepp, assignors.)
Phillips Petroleum Company. (See Hachmuth, Karl H., assignor.)

Phillips Petroleum Company. (See Matuszak, Maryan P., assignor.)

Pickard, Paul S., Lakewood, Colo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Plate-bending machine. 2,350,530; June 6.

Pinazza, Giosuè, Milan, Italy; vested in the Alien Property Custodian. Power hammer. 2,350,921; June 6.

Pioneer Engineering Works, Inc. (See Berg, E. G., and Ovestrud, assignors.)

Pioneer Parachute Company. (See Smith, Floyd, assignor.)

Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Electric braking system. 2,350,636; June 6.

Pitney-Bowes Postage Meter Co. (See Wheeler, W. H., Jr., Thatcher, and Rouan, assignors.)

Pittman, Ralph R., Pine Bluff, Ark. Temperature indicator. 2,350,637; June 6.

Planche, Benjamin R., Ville-franche-sur-Saone, France; vested in the Alien Property Custodian. Gas compressing plant. 2,350,815; June 6.

Planeta, Anthony. (See Planeta, Paul H., assignor.)

Planeta, Paul H., assignor to Anthony Planeta, Linden, N. J. Support. 2,350,922; June 6.

Plensler, Alexander W. (See Dunn, W. L., and Plensler.)

Pneumatic Scale Corporation, Limited. (See Ross, Norman S., assignor.)

Podschus, Ernst, Leverkusen, and G. Meder, Cologne-Ostheim, Germany; vested in the Alien Property Custodian. Manufacture of antimony trioxide pigments. 2,350,638; June 6.

Pope, David M., assignor to Streator Mfg. Co., Streator, Ill. Furniture. 2,350,956; June 6.

Porcelain Steels, Inc. (See Murphy, Chalmer E., assignor.)

Posture Research Corporation. (See Jones, Arthur E., assignor.)

Pratt, Leonard C., Baldwin, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Brush assembly for dynamoelectric machines. 2,350,968; June 6.

Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,350,639; June 6.

Printing Arts Research Laboratories, Inc. (See Marx, Walter S., Jr., assignor.)

Proctor & Schwartz, Inc. (See Stevenson, Robert O., assignor.)

Przybysz, Joseph F. C., South Bend, Ind. Safety razor. 2,350,816; June 6.

Purves, William F., and S. P. Harris, assignors to Schick Incorporated, Stamford, Conn. Vibrator. 2,350,817; June 6.

Pyle National Company, The. (See McDowell, Thomas E., assignor.)

Quinn, Bert A., St. Paul, Minn. Door latch mechanism. 2,350,923; June 6.

Rabenda, Edward J., Binghamton, and H. J. Kistner, Union, assignors to International Business Machines Corporation, New York, N. Y. Sorting machine. 2,350,531; June 6.

Rabezzana, Hector. (See Gretzinger, J. R., Battey, and Rabezzana.)

Rabezzana, Hector, Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug. 2,350,475; June 6.

Radio Corporation of America. (See Bliss, Warren H., assignor.)

Radio Corporation of America. (See Collins, Milford E., assignor.)

Radio Corporation of America. (See George R. H., and Webb, assignors.)

Radio Corporation of America. (See Hoehn, J. J., and Zimmerman, assignors.)

Radio Corporation of America. (See Kallmann, Heinz E., assignor.)

Radio Corporation of America. (See Kroger, Fred H., assignor.)

Radio Corporation of America. (See Rettinger, Michael, assignor.)

Radio Corporation of America. (See Schlesinger, Kurt, assignor.)

Rainville, Omer J., South Attleboro, Mass. Exhaust silencer. 2,350,924; June 6.

Ramsden, George A. and G. J. R., Lambeth, Ontario, Canada. Container. 2,350,925; June 6.

Ramsden, George J. R. (See Ramsden, George A. and G. J. R.)

Randall Graphite Products Corporation. (See Whiteley, Kenneth E., assignor.)

Rappl, Anton, assignor to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,350,957; June 6.

Reckow, Paul H., Chicago, Ill. Garment hanger. 2,350,859; June 6.

Reddaway, F., and Company Limited, et al. (See Peirce, F. T., and Gardiner, assignors.)

Reed-Prentice Corporation. (See Smith, Graydon, assignor.)

Reed, Raymond E., assignor, by mesne assignments, to R. E. Lee, doing business as The Leed Company, St. Paul, Minn. Exothermic composition and waving hair. 2,350,926; June 6.

Rees, George E., assignor to Trojan Powder Company, Allentown, Pa. Making crackle finish. 2,350,818; June 6.

Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil lubricant. 2,350,368; June 6.

Reiners, Wilhelm, Gladbach-Rheydt, and G. Kahlisch, Rheydt, Germany; vested in the Alien Property Custodian. Cross winding frame. 2,350,927; June 6.

Reiners, Walter, and S. Fürst, Gladbach-Rheydt, Germany; vested in the Alien Property Custodian. Yarn guide. 2,350,928; June 6.

Remington Arms Company. (See Bradford, Colin I., assignor.)

Remington Arms Company. (See Brün, W., and Burdett, assignors.)

Remington Arms Company. (See Butler, B. F., and Hirdler, assignors.)

Remington Arms Company. (See Eslinger, Nicholas, assignor.)

Remington Arms Company. (See Hackman, Harvey J., assignor.)

Remington Arms Company. (See Hotchkiss, Harry D., assignor.)

Remington Arms Company. (See Pickard, Paul S., assignor.)

Remington Arms Company. (See Reynolds, Warren S., assignor.)

Remington Arms Company. (See Sarulla, Charles, assignor.)

Remington Arms Company. (See Schilling, A. A., and Curran, assignors.)

Remington Arms Company. (See Tienken, L. C., Jr., and Vordahl, assignors.)

Remington Arms Company. (See Vordahl, Milton B., assignor.)

Remy, Theron P., Los Angeles, Calif. Treatment of hydrocarbons with radioactive materials. 2,350,330; June 6.

Research Corporation. (See Coey, Stewart C., assignor.)

Retterath, Valentin, Iversheim, near Munstereifel, Germany; vested in the Alien Property Custodian. Rail fastening. 2,350,819; June 6.

Rettinger, Michael, Encino, Calif., assignor to Radio Corporation of America. Aircraft altitude determining system. 2,350,820; June 6.

Revelli, Gino, Rome, Italy; vested in the Alien Property Custodian. Bolt closer for automatic arms. 2,350,821; June 6.

Reynolds, Warren S., Stratford, Conn., assignor to Remington Arms Company, Inc. Machine. 2,350,569; June 6.

Richardson, Edward A., Bethlehem, Pa. Welding. 2,350,532; June 6.

Richey, Clarence B., Columbus, Ohio. Lime spreader. 2,350,476; June 6.

Ridings, Garvice H., Summit, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Supply roll for blank sheets. 2,350,417; June 6.

Ridley, William D., Monkseaton, England. Soot blower. 2,350,929; June 6.

Roberts and Schaefer Company. (See McGee, Jesse M., assignor.)

Robinson, Preston, Williamstown, assignor to Sprague Specialties Co., North Adams, Mass. Electrically insulated element. 2,350,822; June 6.

Robinson, Preston, Williamstown, assignor to Sprague Specialties Co., North Adams, Mass. Electrical condenser. 2,350,823; June 6.

Rochester Manufacturing Co. (See Ford, George E., assignor.)

Rodder, William, Youngstown, and E. H. Kendall, Alliance, assignors to The Aetna-Standard Engineering Company, Youngstown, Ohio. Cutoff apparatus. 2,350,975; June 6.

Rojo, Jesús M., Habana, Cuba, assignor to Continental Can Company, Inc. Making can bodies. 2,350,824; June 6.

Römer, Otto, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian. Polarized single-coil relay. 2,350,825; June 6.

Rorke, Harold B., New York, N. Y. Case and fastening therefor. 2,350,640; June 6.

Rose, Alexander D., Des Plaines, and H. Seegers, assignors to Jas. P. Marsh Corporation, Chicago, Ill. Liquid level gauge. 2,350,533; June 6.

Roselund, Harold A., assignor to The De Vilbiss Company, Toledo, Ohio. Pan greasing machine. 2,350,708; June 6.

Rosinger, Arthur, Newark, N. J. Magnetic stirrer. 2,350,534; June 6.

Ross, J. O., Engineering Corporation. (See Byron, O., and Jones, assignors.)

Ross, Norman S., Glen Ellyn, Ill., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Apparatus for producing filled packages. 2,350,418; June 6.

Ross, William P. V. (See Blackley, J. L., and Ross.)

Rothenberg, Nathan, et al. (See Parnell, Walter H., assignor.)

Rouan, Francis J. (See Wheeler, W. H., Jr., Thatcher, and Rouan.)

Rowley, Arthur A., Hamden, assignor to Western Cartridge Company, New Haven, Conn. Extractor-and-ejector assembly for firearms. 2,350,477; June 6.

Ruddock, William, South Pasadena, Calif. Truck loader. 2,350,641; June 6.

Rudolph Wurlitzer Company, The. (See Miller, John A., assignor.)

Ruge, Arthur C., Cambridge, Mass. Strain gauge. 2,350,972; June 6.

Russell Manufacturing Company, The. (See Hendley, James A., assignor.)

Ruth, Joseph P. (See Schoder, W. P., and Ruth.)

Ryan, Commodore D., and E. P. Drake, Los Angeles, Calif., assignors to National Postal Meter Company, Inc., Rochester, N. Y. Power-operated printing machine. 2,350,703; June 6.

S & W Fine Foods, Inc. (See Carroll, Ellsworth W., assignor.)

St. Regis Paper Company. (See Hartman, C. H., Marsh, and Dorrington, assignors.)

St. Regis Paper Company. (See Peterson, William R., assignor.)

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Machine for making and filling packages. 2,350,930; June 6.

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Dispensing package. 2,350,931; June 6.

Salinger, Hans, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Communication system. 2,350,331; June 6.

Salvin, Victor S., Cumberland, Md., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine derivatives of ethers of p-hydroxymethyl benzoic acid. 2,350,826; June 6.

Sampair, Clarence B., and E. C. Lund, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Tape roll and core. 2,350,369; June 6.

Sampson, Richard H., Plainfield, N. J., assignor to International Business Machines Corporation, New York, N. Y. Rounding off means for calculating machines. 2,350,698; June 6.

Sang, Henry J., Moylan, Pa. Tensiometer. 2,350,419; June 6.

Sarulla, Charles, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Metal trimming. 2,350,535; June 6.

Saulnier, Raymond, Paris, France; vested in the Alien Property Custodian. Assembly of tanks and the like. 2,350,827; June 6.

Scanlon, Michael J., Baltimore, Md. Motor vehicle steering gear. 2,350,478; June 6.

Schaefer, Norbert F., assignor to Anderson Box Company, Indianapolis, Ind. Chick box structure. 2,350,932; June 6.

Scharfnagel, Rudolf, Stuttgart, Germany; vested in the Alien Property Custodian. Molten glass extruding apparatus. 2,350,829; June 6.

Scheu, Henrietta, et al., executors. (See Scheu, William C.)

Scheu Products Company, Ltd. (See Scheu, William C., assignor.)

Scheu, W. Leland, et al., executors. (See Scheu, William C.)

Scheu, William C., deceased, Upland, Calif., Henrietta Scheu, W. Leland Scheu, and C. H. Dekker, executors, assignors to Scheu Products Company, Ltd. Draft regulator for orchard heaters. 2,350,830; June 6.

Schick Incorporated. (See Purves, W. F., and Harris, assignors.)

Schilling, Albert A., Stratford, and T. B. Curran, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Lubricant. 2,350,570; June 6.

Schilling, Albert A., Stratford, and T. B. Curran, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Lubricant. 2,350,571; June 6.

Schilling, Lorell J., Brookfield, Ill., assignor to Babson Bros. Co. Insulator mounting. 2,350,420; June 6.

Schlesinger, Kurt, West Lafayette, Ind., assignor to Radio Corporation of America. Synchronizing signal generator. 2,350,536; June 6.

Schlumberger Well Surveying Corporation. (See Segesman, Francis F., assignor.)

Schmerling, Louis, Chicago, Ill., and A. M. Durinski, Brooks Field, Tex., assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,350,828; June 6.

Schmidt, Henry F., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Hyraulic apparatus. 2,350,933; June 6.

Schnable, Albert E., Ocean Grove, N. J. Routing machine. 2,350,704; June 6.

Schneider, Helmuth G. (See Kerns, W. J., and Schneider.)

Schneider, Paul L. (See Critchfield, R. M., Schneider, and Short.)

Schoder, William P., and J. P. Ruth, Denver, Colo. Producing inlaid jewels. 2,350,421; June 6.

Schopmeyer, Herman H., Hammond, and C. R. Arnold, Munster, Ind., assignors to American Maize-Products Company. Lactic acid purification. 2,350,370; June 6.

Schubert, Alvin E., E. O. Wangerin, and J. F. Egan, assignors to Eastman Kodak Company, Rochester, N. Y. Control for photographic copying apparatus. 2,350,831; June 6.

Schuh, Charles H., Ridgewood, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Cork product and making the same. 2,350,422; June 6.

Schüler, Hugo. (See Kniehahn, W., Geiser, Schüler, Gerth and Witt.)

Schutte, August H., Tuckahoe, N. Y. Liquid-solid separation. 2,350,934; June 6.

Schwarzer, Kurt, Berlin, Germany; vested in the Alien Property Custodian. Roentgen tube with anode turning about its longitudinal axis. 2,350,642; June 6.

Schwebke, Clarence J., and F. E. Hoadley, Beloit, assignors to Flakall Corporation, South Beloit, Wis. Machine for preparing food products. 2,350,643; June 6.

Schweigert, George D., Denver, Colo. Fishing lure and making same. 2,350,572; June 6.

Scott, Olav, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fluid translating apparatus. 2,350,737; June 6.

Seegers, Hans. (See Rose, A. D., and Seegers.)

Segeberg, Thomas D., Somerville, Mass. Tool for cutting and threading pipe. 2,350,700; June 6.

Segesman, Francis F., Freer, assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Electrical depth marker. 2,350,832; June 6.

Seibel, Charles F. (See Busch, A. J., Henry, and Seibel.)

Seitz, John G., San Francisco, assignor to S. I. Keene, Oakland, Calif. Firing mechanism. 2,350,833; June 6.

Sell, Daniel G., Kansas City, Mo. Window sash stopping device. 2,350,706; June 6.

Selnes, Alf K., assignor to Ex-Cell-O Corporation, Detroit, Mich. Lead control device. 2,350,538; June 6.

Semmler, Rudolph E. (See Geier, E. C., and Semmler.)

Sensel, Eugene E., and A. R. Goldsby, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Conversion of hydrocarbons. 2,350,834; June 6.

Sensenig, Miles L. (See Dellinger, P. C., and Sensenig.)

Seyferth, Harold N. (See Snader, I. J., and Seyferth.)

Sharp & Dohme, Incorporated. (See Johnson, Treat B., assignor.)

Sheaffer, Harry C. (See Leisner, H. J., and Sheaffer.)

Shell Development Company. (See Brumleu, E. C., and (Gilbert, assignor).)

Shell Development Company. (See Hilmer, F. B., and Peery, assignors.)

Shepardson, Vene P., Belview Heights, Ala., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,350,699; June 6.

Sherwin-Williams Company, The. (See O'Neal, Grady M., assignor.)

Shoemaker, Robert W. (See Owens, Walter L., assignor.)

Short, Brooks H. (See Critchfield, R. M., Schneider, and Short.)

Sias, Frederick R., Marblehead, Mass., assignor to General Electric Company. Temperature compensation for direct current telemeters. 2,350,835; June 6.

Siemens Brothers & Co. Limited. (See Christian, D. A., and Clay, assignors.)

Signal Engineering & Manufacturing Company. (See Humphreys, Ferdinand F., assignor.)

Simpson, Henry A. (See Pecker, J. S., and Simpson.)

Simpson, Thomas P., and C. H. Lechthaler, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Apparatus for catalytic conversion. 2,350,644; June 6.

Sinclair Refining Company. (See Beare, Leonard E., assignor.)

Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)

Singer Manufacturing Company, The. (See Muecke, Edward, assignor.)

Singer Manufacturing Company, The. (See Parry, Frank, assignor.)

Singer Manufacturing Company, The. (See Pratt, Leonard C., assignor.)

Sinning, Hattie H., Canton, S. Dak. Sewing appliance. 2,350,423; June 6.

Sipe, George I., Lancaster, Pa. Producing bread crumbs. 2,350,935; June 6.

Sloane, Martin J. (See Fraser, W., and Sloane.)

Small, Arthur E., Porter, Ind., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Retarding means for railway car doors. 2,350,645; June 6.

Smith, A., & Son, Incorporated. (See Smith, J. R., Jr., and De la Rosa, assignors.)

Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Surface type heat exchanger. 2,350,936; June 6.

Smith, Floyd, assignor to Pioneer Parachute Company, Inc., Manchester, Conn. Parachute. 2,350,646; June 6.

Smith, Francis L. (See Melcher, Alfred A., assignor.)

Smith, George A., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Borehole logging apparatus. 2,350,371; June 6.

Smith, Graydon, Cambridge, assignor to Reed-Prentice Corporation, Worcester, Mass. Automatic temperature control for injection molding machines. 2,350,539; June 6.

Smith, John R., Jr., Haddonfield, N. J., and F. De la Rosa, assignors to A. Smith & Son, Incorporated, Philadelphia, Pa. Stretcher. 2,350,573; June 6.

Smith, Jorgen A. (See Morland, P., and Smith.)

Smith, Wallace W., Chicago, Ill. Aircraft navigating device. 2,350,424; June 6.

Snader, Ira J., Detroit, and H. N. Seyferth, East Detroit, assignors to Ex-Cell-O Corporation, Detroit, Mich. Feed mechanism for machine tools. 2,350,372; June 6.

Sneed, John, Huntington Woods, assignor to William F. Dalzen, Detroit, Mich. Grinding wheel dresser. 2,350,937; June 6.

Snow-Nabstedt Gear Corporation, The. (See Nabstedt, Arthur T., assignor.)

Snyder, John W. (See Vogel, M. R., and Snyder.)

Socony-Vacuum Oil Company. (See Fuller, Everett W., assignor.)

Socony-Vacuum Oil Company. (See Lincoln, B. H., Byrkit, and Steiner, assignors.)

Socony-Vacuum Oil Company. (See Reiff, Orland M., assignor.)

Socony-Vacuum Oil Company. (See Simpson, T. P., and Lechthaler, assignors.)

Socony-Vacuum Oil Company. (See Spelshouse, W. E., and Boenau, assignors.)

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Chemical process and product. 2,350,373; June 6.

Sonneborn, John R., Willow Grove, and L. H. Lange, Rockledge, assignors to Stokes & Smith Company, Philadelphia, Pa. Dispensing apparatus. 2,350,936; June 6.

Sosnick, Benjamin, San Francisco, Calif. Lock nut. 2,350,647; June 6.

Southern Wood Preserving Company. (See Vaughn, Joseph A., assignor.)

Spahr, William F., New Orleans, La. Machine for dressing edges of metal sheets and the like. 2,350,648; June 6.

Spalding, George A., and M. A. Palmer, Flint, assignors to General Motors Corporation, Detroit, Mich. Material handling system. 2,350,425; June 6.

Sparrow, Hubert T., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Solenoid. 2,350,938; June 6.

Speert, Julius L., Washington, D. C. Device for locating celestial bodies. 2,350,374; June 6.

Spelshouse, Wallace E., Jamaica Estates, and A. H. Boenau, Long Island City, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Asphalt saturation. 2,350,649; June 6.

Sperry-Sun Well Surveying Company. (See Smith, George A., assignor.)

Spiller, William R., and L. D. Barley, Dayton, Ohio, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio. Cutting machine. 2,350,540; June 6.

Sprague Specialties Co. (See Robinson, Preston, assignor.)

Sprouse, Verner E., Columbus, Ind. Blower. 2,350,939; June 6.

Squires, Lombard, Westtown, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dioxolanes. 2,350,940; June 6.

Stampleman, Samuel C., Cohasset, and J. Muros, Cambridge, assignors to Gillette Safety Razor Company, Boston, Mass. Magazine for safety razor blades. 2,350,837; June 6.

Standard Alcohol Company. (See Kerns, W. J., and Schneider, assignors.)

Standard-Knapp Corporation. (See Kimball, Wallace D., assignor.)

Standard Oil Development Company. (See Hemminger, Charles E., assignor.)

Standard Oil Development Company. (See Lieber, E., and Hodges, assignors.)

Standard Oil Development Company. (See Zimmer, J. C., and Morway, assignors.)

Standard Railway Equipment Manufacturing Company. (See Gilpin, Garth G., assignor.)

Standard Railway Equipment Manufacturing Company. (See Small, Arthur E., assignor.)

Stauffer Chemical Company. (See Hellings, W. C., and McLane, assignors.)

Stein, Hall Manufacturing Company. (See Bauer, J. V., and Hawley, assignors.)

Steiner, Waldo L. (See Lincoln, B. H., Byrkit, and Steiner.)

Stephens, Paul, assignor of twenty-five per cent to L. L. Brantley, Nacogdoches, Tex. Tire regrooving device. 2,350,375; June 6.

Stevenson, Lloyd W. (See Stulen, F. B., and Stevenson.)

Stevenson, Robert O., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Cooking apparatus. 2,350,941; June 6.

Stewart, Robert J., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Article timing device. 2,350,479; June 6.

Stober, Kenneth E. (See Amos, J. L., Boundy, and Stober.)

Stokes & Smith Company. (See Sonneborn, J. R., and Lange, assignors.)

Straumann, Reinhard, Waldenburg, near Basel, Switzerland. Compensating device for watch balances. 2,350,838; June 6.

Streator Mfg. Co. (See Pope, David M., assignor.)

Stueland, Harold M., East Moline, assignor to Deere & Company, Moline, Ill. Retractable spud support. 2,350,701; June 6.

Stulen, Foster B., and L. W. Stevenson, Beaver, Pa., assignors to Curtiss-Wright Corporation. Breech mechanism for propeller blades. 2,350,541; June 6.

Sullivan Machinery Company. (See Curtis, John C., assignor.)

Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)

Sullivan Machinery Company. (See Osgood, Charles F., assignor.)

Sun Oil Company. (See Kokatnur, V. R., and Van Hook.)

Sundstrand, Oscar J., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting and accounting machine. 2,350,542; June 6.

Sunnen, Joseph, Clayton, Mo. Honing arbor. 2,350,969; June 6.

Sure-Fit Products Company. (See Krasnov, J. A., and Kuller, assignors.)

Swern, Daniel. (See Wells, P. A., and Swern.)

Swofford, Peter J., assignor of one-sixteenth to T. B. Fite, and one-sixteenth to J. B. Hopson. Fort Worth, Tex. Parachute. 2,350,480; June 6.

Szydlowski, Josef, Saint Pé de Bigorre, France; vested in the Alien Property Custodian. Machine for compressing gases by centrifugal effect. 2,350,839; June 6.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Rotor. 2,350,970; June 6.

Tagliabue, Giuseppe, Monza, Italy; vested in the Alien Property Custodian. Transfer process. 2,350,840; June 6.

Tarn, Thomas R., Pittsburgh, Pa. Dual propeller. 2,350,942; June 6.

Taubert, Bernard. (See Taubert, M., P., and B.)

Taubert, Marcel, P., and B., Geneva, Switzerland. Watchcase. 2,350,651; June 6.

Taubert, Paul. (See Taubert, M., P., and B.)

Taylor, Julius D. (See Baxter, J. G., and Taylor.)

Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Electrical signaling system. 2,350,652; June 6.

Teeters, Wilber O. (See Loder, D. J., and Teeters.)

Tension Envelope Corporation. (See Johnson, Jerome E., assignor.)

Texas Company, The. (See Sensel, E. E., and Goldsby, assignors.)

Thatcher, Linden A. (See Wheeler, W. H., Jr., Thatcher, and Rouan.)

Thomas, William D., Jr. (See Cook, E. W., and Thomas.)

Thompson, George H., Oakland, Calif. Welding stinger. 2,350,426; June 6.

Thompson, John W., and L. E. Booth, assignors to The Gallgher Company, Salt Lake City, Utah. Countercurrent froth flow flotation system. 2,350,943; June 6.

Thompson Products Incorporated. (See Hufferd, George H., assignor.)

Thompson Products Incorporated. (See Venditty, Anthony, assignor.)

Thornton, James F., Bronxville, assignor to The Lummus Company, New York, N. Y. Dewaxing apparatus. 2,350,944; June 6.

Tichenor, Don L., assignor to United Steel & Wire Company, Battle Creek, Mich. Meat mold. 2,350,427; June 6.

Tienken, Louis C., Jr., Old Greenwich, and M. B. Vordahl, Milford, Conn., assignors to Remington Arms Company, Inc. Ammunition. 2,350,574; June 6.

Tishler, Max, Rahway, N. J., and G. H. Carlson, Pearl River, N. Y., assignors to Merck & Co., Inc., Rahway, N. J. Preparation of alloxazines and isoalloxazines. 2,350,376; June 6.

Titefiex, Inc. (See Peters, M. F., and Ingalls, assignors.)

Titus, Fred E., Durango, Colo. Fishhook. 2,350,650; June 6.

Tjaarda, John, assignor to Briggs Manufacturing Company, Detroit, Mich. Aircraft engine gearing. 2,350,377; June 6.

Toledo Scale Company. (See Bennett, Geoffrey R., assignor.)

Tomlinson, Ritner W., North Wales, and H. G. Meyer, assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Manufacture of aluminum sulphate. 2,350,575; June 6.

Torma, Joseph, Hamilton, Ontario, Canada. Machine for producing oval objects and frames. 2,350,428; June 6.

Transit Research Corporation. (See Piron, Emil H., assignor.)

Treadway, Olmage W., Little Rock, Ark. Tool for cutting linoleum. 2,350,945; June 6.

Trico Products Corporation. (See Rappl, Anton, assignor.)

Troche, Herman J., Cleveland Heights, and J. H. Holan, Jr., Lakewood, assignors to The American Coach & Body Company, Cleveland, Ohio. Wreck trailer. 2,350,841; June 6.

Trojan Powder Company. (See Rees, George E., assignor.)

Tromholt, Hans E., Bayside, Long Island, N. Y. Telegraph key. 2,350,481; June 6.

Trotter, John C., Williamsville, and L. F. Maurer, assignors to Bell Aircraft Corporation, Buffalo, N. Y. Ordnance. 2,350,946; June 6.

Troupe, Donald F., Kansas City, Mo. Electrohydrothermic oil-well processor. 2,360,429; June 6.

Tsuno, Shozo, Kobe-shi, Japan; vested in the Alien Property Custodian. Ozonizer. 2,350,842; June 6.

Tyler, W. S., Company, The. (See Coulton, J. S., and Disbro, assignors.)

Ulrich, Edward H., London, England, assignor to International Standard Electric Corportion, New York, N. Y. System of radio communication. 2,350,702; June 6.

Ulrich, Theodore, Milwaukee, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Window molding. 2,350,430; June 6.

Underwood Elliott Fisher Company. (See Hoffman, Jacob N., assignor.)

Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)

Union Switch & Signal Company, The. (See Agnew, Norman F., assignor.)

Union Switch & Signal Company, The. (See Baughman, G. W., and Agnew, assignors.)

Union Switch and Signal Company, The. (See Shepardson, Vene P., assignor.)

Union Switch & Signal Company, The. (See Young, Henry S., assignor.)

United Air Lines, Inc. (See Brunner, Reed R., assignor.)

United Gas Improvement Company, The. (See Soday, Frank J., assignor.)

United Shoe Machinery Corporation. (See Haas, Otto R., assignor.)

United States, Dedicated to the free use of the people in the territory of the. (See Claborn, Houston V.)

United Steel & Wire Company. (See Tichenor, Don L., assignor.)

Universal Oil Products Company. (See Collins, Robert B., assignor.)

Universal Oil Products Company. (See Schmerling, L., and Durinski, assignors.)

Upton, John, Cambridge, and W. T. Ferguson, Waban, assignors to Anderson Products, Inc., Cambridge, Mass. Air-venting valve for hot-water systems. 2,350,947; June 6.

Utilities Distributors, Inc. (See Anderson, Peter A., assignor.)

Van Buren, John, Brooklyn, N. Y. Machine for packaging gum. 2,350,576; June 6.

Van der Leun, Cornelis, The Hague, Netherlands; vested in the Alien Property Custodian. Fastening device for casement windows, doors, and the like. 2,350,844; June 6.

Van Hook, Andrew. (See Kokatnur, V. R., and Van Hook.)

Vanselow, Waldemar, A. Weissberger, and D. B. Glass, assignors to Eastman Kodak Company, Rochester, N. Y. Diazotype photographic material. 2,350,843; June 6.

Vatter, Claude A., Long Beach, Calif. Electrical speed controller. 2,350,431; June 6.

Vaughan, Joseph A., assignor to Southern Wood Preserving Company, Atlanta, Ga. Conditioning wood for preservative treatment. 2,350,845; June 6.

Vaughn, Albert E., Los Angeles, Calif. Powder puff. 2,350,707; June 6.

Venditty, Anthony, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Ball joint. 2,350,482; June 6.

Verderber, Joseph, Cleveland, Ohio. Measuring device. 2,350,432; June 6.

Vernon, William F., Newton, Iowa. Girder brace for outdoor signs. 2,350,433; June 6.

Vittum, Paul W. (See Jelley, E. E., and Vittum.)

Vogel, Max R., Easton, Pa., and J. W. Snyder, Scotch Plains Township, Union County, N. J., assignors to Binney and Smith Company, New York, N. Y. Preparation of carbon black. 2,350,846; June 6.

Vogel, Max R., Easton, Pa., and J. W. Snyder, Scotch Plains Township, Union County, N. J., assignors to Binney and Smith Company, New York, N. Y. Preparation of carbon block. 2,350,847; June 6.

Von Philipp, Hans, Leipzig, Germany; vested in the Alien Property Custodian. Insecticide. 2,350,814; June 6.

Vordahl, Milton B. (See Tienken, L. C., Jr., and Vordahl.)

Vordahl, Milton B., Southport, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Specimen grip for testing machines. 2,350,577; June 6.

Wagner, Max, Stuttgart, Germany; vested in the Alien Property Custodian. Wheel suspension for vehicles. 2,350,848; June 6.

Waldie, William A. (See Drummond, F. E., and Waldie.)

Waldron, John W. (See Cole, P. J., Clark, and Waldron.)

Walker, James E., Pensacola, Fla. Outdoor or indoor barbecue oven. 2,350,948; June 6.

Wallace & Tiernan Products, Inc. (See Wallace, Charles F., assignor.)

Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Method and system of apparatus for detecting and controlling changes in composition of liquids. 2,350,378; June 6.

Wallgren, August G. F., O. F. Holmström, and K. E. Evrell, Eskilstuna, Sweden. Fuel pump for internal combustion motors. 2,350,434; June 6.

Walsh, James F., Yonkers, and F. C. Miller, Brooklyn, N. Y., assignors to American Maize-Products Company. Starch composition. 2,350,653; June 6.

Walters, Henry W., Jacksonville, Fla. Buoyant device. 2,350,654; June 6.

Walther, Heinrich, Sr., Frankfort-on-the-Main-Oberrad, Germany; vested in the Alien Property Custodian. Shoe forming and toe lasting machine. 2,350,849; June 6.

Wangerin, Elmer O. (See Schubert, A. E., Wangerin, and Egan.)

Warfield, Frederic P., et al., trustees. (See Kokatnur, V. R., and Van Hook, assignors.)

Warren Featherbone Co., The. (See Johnston, James G., assignor.)

Watzel, Rudolf, Mannheim, Germany; vested in the Alien Property Custodian. Production of nitrogen-phosphoric acid compounds. 2,350,850; June 6.

Waukesha Motor Company. (See Melcher, Lee W., assignor.)

Webb, Richard C. (See George R. H., and Webb.)

Wehr, Wilhelm, Eilenburg, Germany; vested in the Alien Property Custodian. Polyamide articles. 2,350,851; June 6.

Wehr, Wilhelm, Eilenburg, Germany; vested in the Alien Property Custodian. Footwear. 2,350,852; June 6.

Weightman, William A., assignor to Edward G. Budd Mfg. Company, Philadelphia, Pa. Machine for bending metal. 2,350,379; June 6.

Weimers, Wilhelm, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian. Suction brush for vacuum cleansers. 2,350,949; June 6.

Weissberger, Arnold. (See Vanselow, W., Weissberger, and Glass.)

Wells, Albert S., assignor to Wells-Gardner & Co., Chicago, Ill. Automatic radio tuner. 2,350,543; June 6.

Wells-Gardner & Co. (See Wells, Albert S., assignor.)

Wells, Percy A., Abington, and D. Swern, Melrose Park, Pa., assignors to Claude R. Wickard, as Secrtary of Agriculture of the United States of America, and to his successors in office. Derivatives of ascorbic acid. 2,350,435; June 6.

Western Cartridge Company. (See Horan, Timothy F., assignor.)

Western Cartridge Company. (See Humeston, Frederick L., assignor.)

Western Cartridge Company. (See Rowley, Arthur A., assignor.)

Western Cartridge Company. (See Williams, David M., assignor.)

Western Union Telegraph Company, The. (See Angel, Herbert, assignor.)

Western Union Telegraph Company, The. (See Ridings, Garvice H., assignor.)

Westinghouse Air Brake Company, The. (See Brodie, Stuart B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Envall, Roy N., assignor.)

Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Scott, Olav, assignor.)

Wettstein, Albert. (See Miescher, K., and Wettstein.)

Wheeler, Harley T., Dallas, Tex. Arch-bound polysegmental packing ring. 2,350,655; June 6.

Wheeler, Walter H., Jr., L. A. Thatcher, and F. J. Rouan, assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn. Value printing die protection device. 2,350,853; June 6.

Wheelon, Orville A. (See Adams, H. W., and Wheelon.)

Whistler, Lawrence V. and S. A., Kenmore, N. Y. Perforating device. 2,350,436; June 6.

Whistler, Sanford A. (See Whistler, L. V. and S. A.)

White, Clayton F. A., Stelton, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Photography. 2,350,380; June 6.

Whiteley, Kenneth E., Oak Park, assignor to Randall Graphite Products Corporation, Chicago, Ill. Making bushings for self-lubricating bearings. 2,350,854; June 6.

Wiedman, Edward L., Tonawanda, N. Y. Snowplow. 2,350,437; June 6.

Wiggins, John H., Chicago, Ill. Antirotational mechanism for floating tank roofs. 2,350,483; June 6.

Wilckens, Eibe A. (See Goebel, G., and Wilckens.)

Wiley, Lee M., Marion, Ind. Fibrous-covered container. 2,350,950; June 6.

Williams, Charles W., Cleveland, Ohio, assignor to Automatic Safety Wringer Company. Wringer. 2,350,381; June 6.

Williams, David M., assignor to Western Cartridge Company, New Haven, Conn. Firearm with sling strap. 2,350,484; June 6.

Williamson, Clarence, Garden City, Mich. Poultry dressing device. 2,350,656; June 6.

Winkelmann, Kurt, Berlin-Zehlendorf, Germany; vested in the Alien Property Custodian. Keyboard fascimile transmitter. 2,350,855; June 6.
Witt, Raimund. (See Kniehahn, W., Geiser, Schüler, Gerth, and Witt.)
Woerz, John A., assignor to Crown Can Company, Philadelphia, Pa. Plunger pad for container closing machines. 2,350,438; June 6.
Woltscheck, Arno, Porz near Cologne, Germany; vested in the Alien Property Custodian. Coating wax bands, bearing a mechanical sound record, with graphite, and a device for carrying out this method. 2,350,856; June 6.
Wolff, Julius, Amstenrade, Netherlands; vested in the Alien Property Custodian. Manufacture of artificial sausage skins. 2,350,857; June 6.
Wood Gar Industries, Inc. (See Barrett, Edward R., assignor.)
Worcester, Joseph A., Jr., Fairfield, Conn., assignor to General Electric Company. Push-pull circuit. 2,350,858; June 6.
Worn, George A., Greenwich, Conn. Heat exchanger. 2,350,976; June 6.
Wourters, Wilbur A., et al. (See Parnell, Walter H., assignor.)
Wright, William G., St. Louis, Mo. Wheel and axle connection. 2,350,439; June 6.
Wynn, Harold S., Pittsford, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,350,657; June 6.
Young & Haug Trust Estate. (See Young, Hugh E.)
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,350,705; June 6.
Young, Hugh E., trustee. (See Haug, Eugene H., assignor.)
Zimmer, John C., Union, and A. J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company. Grease composition. 2,350,544; June 6.
Zimmerman, Arthur G. (See Hoehn, J. J., and Zimmerman.)
Zinn, Manvel K., Manhasset, assignor to Bell Telephone Laboratories, Incorporated. New York, N. Y. Electric wave system. 2,350,951; June 6.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Overland protective means. L. S. Walle. Re. 22,491; June 6.

LIST OF PLANT INVENTIONS

Avocado tree. P. L. Kovach. 628; June 6.
Strawberry plant. B. D. Drain. 629; June 6.

LIST OF DESIGN INVENTIONS

Alphabet for forming monograms or similar article. N. Barbieri. 138,010; June 6.
Billfold, key case, and token purse, Combined. M. Becker. 138,035; June 6.
Box, Vanity. L. P. Root. 138,031; June 6.
Bread loaf. C. C. Frantz. 138,039; June 6.
Button. W. L. Walker. 138,023; June 6.
Chart, Quota. G. A. Lasko. 138,029; June 6.
Doll. B. J. Donahue. 138,026; June 6.
Drier or the like, Hair. H. S. Preble, Jr. 138,044; June 6.
Fabric, Textile. A. M. Kemper. 138,057; June 6.
Flatiron or the like. E. J. Fitzgerald. 138,048; June 6.
Frame, Picture. Alvin Frilot. 138,027; June 6.
Handbag. N. and M. Sloane. 138,049; June 6.
Hat. P. M. Maxwell and W. J. Russy. 138,042; June 6.
Helicopter. S. A. Barshefski. 138,034; June 6.
Helicopter. I. I. Sikorsky. 138,045; June 6.
Internal surface projector. O. F. Soetbeer. 138,033; June 6.
Jacket. S. Etkin. 138,038; June 6.
Lamp and display device, Combined floor. I. Latella. 138,020; June 6.
Lamp and jewel case, Combined boudoir. E. M. Barry. 138,046; June 6.
Link for an expansible bracelet or similar article. L. C. Page. 138,043; June 6.
Magnifier reading glass. H. A. Stoltz. 138,022; June 6.
Mask for rear-vision mirrors. S. Gardner. 138,040; June 6.
Mop stick. W. E. Kautenberg. 138,041; June 6.
Oxygen mask, Aviator's. A. H. Bulbulian. 138,036; June 6.
Paper, Wrapping. J. W. Elder. 138,012–13; June 6.
Pen, Adjustable nib fountain. V. H. Severy. 138,032; June 6.
Pendant or similar article. L. Barber. 138,024; June 6.
Photograph album page or similar article. C. Pollak. 138,021; June 6.
Pin or similar article. L. L. Hess. 138,056; June 6.
Raft, Life. A. G. Sherman. 138,050; June 6.
Rest for ash trays, Cigar or cigarette. E. F. McDonald. 138,058; June 6.
Shoe, Infant's. W. H. Hinson. 138,028; June 6.
Shoe or similar article. F. J. Diamant. 138,025; June 6.
Suit. Abe Gruber. 138,051–4; June 6.
Templet for constructing ellipses. A. J. Gilardi. 138,016; June 6.
Templet for drawing ellipses. A. J. Gilardi. 138,017; June 6.
Tooth powder and tooth brush case, Combined. J. E. Mathews. 138,030; June 6.
Toy airplane bomber. H. Einzig. 138,047; June 6.
Toy, Pull. H. Gold. 138,018–19; June 6.
Toy, Rotary. J. Cuomo. 138,037; June 6.
Toy trailer truck. J. E. Gibson, Jr. 138,015; June 6.
Toy truck. J. E. Gibson, Jr. 138,014; June 6.
Tray and statuette, Combined ash. R. K. Pohl. 138,059; June 6.
Urn or similar article, Flower. N. V. Cristontello. 138,055; June 6.
Utensil, Cooking. D. Chapman and J. H. Chandler. 138,011; June 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive belt joint. R. T. Argy and C. W. Foss. 2,350,861; June 6.
Abscission retarding compositions and using the same. J. F. Adams. 2,350,709; June 6.
Absorption modulation. R. H. George and R. C. Webb. 2,350,552; June 6.
Acid, Condensation product of p-hydroxy benzoic. R. B. Du Vall and E. F. Grether. 2,350 326; June 6.
Adjustable cutter. L. O. Goeger. 2,350,349; June 6.
Aerial system for radio beacons. P. P. Gamet. 2,350,747; June 6.
Aeronautical fuel control valve. J. Harding, Jr. 2,350,352; June 6.
Agricultural machine. W. G. Charley. 2,350,588; June 6.
Agricultural machine. W. G. Charley and A. G. Buhr. 2,350,587; June 6.
Aiming apparatus. A. Gerstenberger. 2,350,750; June 6.
Air charge cooling device. K. Löhner and P. Kappus. 2,350,784; June 6.
Air conditioning apparatus. K. T. Davis. 2 350,497; June 6.
Aircraft altitude determining system. M. Rettinger. 2,350,820; June 6.
Aircraft engine gearing. J. Tjaarda. 2,350,377; June 6.
Aircraft navigating device. W. W. Smith. 2,350,424; June 6.
Air deflector for air ducts. A. P. Livar. 2,350,514; June 6.
Airfield traffic control. W. K. Dallas. 2 350,594; June 6.
Airplane landing field locationing system and means. T. E. McDowell. 2,350,407; June 6.
Albuminoid and fatty substances, Artificial digestion of. M. Percheron. 2,350,811; June 6.
Alcohols, Production of. W. J. Kerns and H. Schneider. 2,350,558; June 6.
Alkaline cleaning composition. L. J. Comaschi. 2,350,592; June 6.
Alkamine derivatives of ethers of p-hydroxy-methyl benzoic acid. V. S. Salvin and A. J. Hill. 2,350,826; June 6.
Alloxazines and isoalloxazines, Preparation of. M. Tishler and G. Carlson. 2,350,376; June 6.
Alpha,beta-dialkyl-alpha, beta-diaryl-ethanes, Preparing. H. Bretschneider and Z. Földi. 2,350,718; June 6.
Aluminum sulphate products, Manufacture of. R. W. Tomlinson and H. G. Meyer. 2,350,575; June 6.
Amino diphenyl sulphides and making them. T. B. Johnson. 2,350,900; June 6.
Aminopyrans, Production of. T. F. Carruthers and R. W. Kiefer. 2,350,446; June 6.
Ammunition. L. C. Tienken, Jr., and M. B. Vordahl. 2,350,574; June 6.
Ammunition abrading apparatus. H. J. Hackman. 2,350,553; June 6.
Ammunition and explosive-charge making. H. D. Hotchkiss. 2,350,556; June 6.
Ammunition priming composition. W. Brün and P. H. Burdett. 2,350,670; June 6.
Anchor, Pressure-actuated tubing. E. C. Brumleu and W. E. Gilbert. 2,350,973; June 6.
Antenna, Adjustable automobile. J. E. Barth. 2,350,866; June 6.
Antenna, Directional. R. R. Brunner. 2,350,337; June 6.
Antimony trioxide pigments, Manufacture of. E. Podschus and G. Meder. 2,350,638; June 6.
Apparatus for catalytic conversion. T. P. Simpson and C. H. Lechthaler. 2,350,644; June 6.
Apparatus for forming panels. J. A. Miller. 2,350,915; June 6.
Apparatus for germicidal treatment of air-borne bacteria H. W. Alexander. 2,350,664; June 6.
Apparatus for instructing and training student operators W. Grunberg. 2,350,351; June 6.
Apparatus for lifting and turning invalids in bed. C. E. Divine. 2,350,595; June 6.
Apparatus for manufacturing open containers made of pliable sheet material. E. J. Buxbaum. 2,350,874; June 6.
Apparatus for obtaining colored images. B. T. Hewson. 2,350,892; June 6.
Apparatus for opening and filling bags. C. H. Hartman, E. A. Marsh and N. E. Dorrington. 2,350,554; June 6.
Apparatus for producing filled packages. N. S. Ross. 2,350,418; June 6.
Apparatus for treating cement. M. A. Eiben. 2,350,737; June 6.
Apparatus for truing up tubular bodies. C. E. Murphy. 2,350,410; June 6.

Arch-bound polysegmental packing ring. H. T. Wheeler. 2,350,655; June 6.
Arrowhead. E. S. Boose. 2,350,581; June 6.
Article timing device. R. J. Stewart. 2,350,479; June 6.
Articles by an injection molding machine, Producing. G. Kirchner. 2,350,770; June 6.
Artificial sausage skins, Manufacture of. J. Wolff. 2,350,857; June 6.
Asphalt saturation. W. E. Spelshouse and A. H. Boenau. 2,350,649; June 6.
Asphaltic emulsion. W. W. De Laney. 2,350,548; June 6.
Automatic handwheel clutch. C. W. Bryant. 2,350,958; June 6.
Automatic machine. A. M. Loungway. 2,350,515; June 6.
Automatic sectionalizing and short circuiting switch. E. H. Haug. 2,350,610; June 6.
Automatic switching telephone system. A. J. Busch, I. H. Henry and C. F. Seibel. 2,350,873; June 6.
Automatic temperature control for injection molding machines. G. Smith. 2,350,539; June 6.
Automatic volume control. R. D. Newcomb. 2,350,803; June 6.
Automobile brake and suspension linkage. P. Heftler. 2,350,353; June 6.
Axle, Double reduction. A. Hillcoat and J. B. Griffith. 2,350,459; June 6.
Azo pigment dyestuff and coating composition. G. M. O'Neal. 2,350,524; June 6.
Azo pigment dyestuffs and coating compositions, Manufacture of. G. M. O'Neal. 2,350,522; June 6.
Bag: *See*— Luggage bag.
Garment bag.
Bag-closing device. M. A. Nicolas. 2,350,694; June 6.
Bag feeding machine. H. G. Tilen. 2,350,666; June 6.
Bag-filling apparatus with power discharge. W. R. Peterson. 2,350,529; June 6.
Bag package making and filling machine, Automatic. M. Allatt. 2,350,333; June 6.
Ball joint. A. Venditty. 2,350,482; June 6.
Band sealing machine. W. L. Owens. 2,350,473; June 6.
Barbecue oven, Outdoor or indoor. J. E. Walker. 2,350,948; June 6.
Basting and skewering device, Combination. C. H. Kruea. 2,350,623; June 6.
Bicycle crank hammer assembly. H. L. Kraeft. 2,350,468; June 6.
Billfold. L. L. Gardner. 2,350,503; June 6.
Black-out device. J. E. Johnson. 2,350,617; June 6.
Blank holder and die cushion cylinder having separate adjustable pressures. W. Ernst. 2,350,884; June 6.
Block: *See*—
Mooring block.
Blower. V. E. Sprouse. 2,350,939; June 6.
Boilers, Reconditioning. F. W. Miller. 2,350,914; June 6.
Bolt closer for automatic arms. G. Revelli. 2,350,821; June 6.
Bolting device, Temporary. N. Kasdan. 2,350,685; June 6.
Bolt lock. H. Obenauer. 2,350,633; June 6.
Borehole logging apparatus. G. A. Smith. 2,350,371; June 6.
Boring and grooving attachment. C. W. Lang. 2,350,778; June 6.
Brake: *See*—
Internally expanding brake.
Brake. W. E. Benn. 2,350,868; June 6.
Brake beam and guide therefor. C. R. Busch. 2,350,671; June 6.
Bread crumbs, Producing. G. I. Sipe. 2,350,835; June 6.
Breech mechanism for propeller blades. F. B. Stulen and L. W. Stevenson. 2,350,541; June 6.
Brewer or cooker. N. G. Baker. 2,350,335; June 6.
Brush assembly for dynamoelectric machines. L. C. Pratt. 2,350,968; June 6.
Building structure. T. E. King. 2,350,904; June 6.
Buoyant device. H. W. Walters. 2,350,654; June 6.
Burner: *See*—
Pot type burner.
Burner and improved baffle therefor, Pot-type. B. Hayter. 2,350,891; June 6.
Bushings for self-lubricating bearings, Making. K. E. Whiteley. 2,350,854; June 6.
Caging means for gyroscopes. V. R. Kimball. 2,350,709; June 6.
Camera, Reflecting. J. Mihalyi. 2,350,793; June 6.
Can bodies, Making. J. M. Rojo. 2,350,824; June 6.
Cannister provided with rip-wire opening devices. P. Bogner. 2,350,871; June 6.
Cannula holder. Y. Kono. 2,350,775; June 6.

Canopy, Air-conditioned. L. E. Johnson. 2,350,618; June 6.
Car: *See*—
Refrigerator car.
Car coupler. W. J. Metzger. 2,350,470; June 6.
Car washer. W. A. Litka. 2,350,469; June 6.
Carbon bisulphide, Producing. J. L. Amos, R. H. Boundy, and K. E. Stober. 2,350,320; June 6.
Carbon black, Preparation of. M. R. Vogel and J. W. Snyder. 2,350,846–7; June 6.
Cartridge deflecting means for self-loading repeating firearms. F. L. Humeston. 2,350,460; June 6.
Cartridge feed-belt for machine guns. J. A. Hendley. 2,350,455; June 6.
Cartridge feed-belt for machine guns. J. A. Hendley. 2,350,457; June 6.
Cartridge feed-belt for machine guns and making the same. J. A. Hendley. 2,350,456; June 6.
Case and fastening therefor. H. B. Rorke. 2,350,640; June 6.
Case packer. W. D. Kimball. 2,350,560; June 6.
Castings, Producing. J. E. Johnson. 2,350,899; June 6.
Catalytic dehydrogenation process. M. P. Matuszak. 2,350,628; June 6.
Cathode-ray tube, Image enlarging. K. Kohl. 2,350,774; June 6.
Cell, Electrolyzer. W. Boller. 2,350,669; June 6.
Cellophane, Moisture-resistant. J. A. Mitchell. 2,350,366; June 6.
Cellulosic sheet materials, Treatment of. J. V. Bauer and D. M. Hawley. 2,350,336; June 6.
Ceramic masses, Preparing. F. Gareis. 2,350,749; June 6.
Chair: *See*—
Folding chair.
Chair and like supporting structure. K. G. Hann. 2,350,679; June 6.
Chair base. A. E. Jones. 2,350,399; June 6.
Charging apparatus. A. G. Hicks. 2,350,611; June 6.
Check strap. J. C. Crocker. 2,350,495; June 6.
Chemical process and product. F. J. Soday. 2,350,373; June 6.
Chick box structure. N. F. Schaefer. 2,350,932; June 6.
Circuit: *See*—
Push-pull circuit.
Telephone instrument circuit.
Citrus fruit juice extractor. L. A. Fry. 2,350,603; June 6.
Clamp. D. H. Finkle. 2,350,550; June 6.
Cleaner: *See*—
Smoker's pipe cleaner.
Cleaning apparatus. A. Clarkson. 2,350,876; June 6.
Clip: *See*—
Electromagnetic tenter clip
Safety fluorescent lamp clip.
Clock. Alarm. O. F. Beardsley. 2,350,578; June 6.
Clutch: *See*—
Automatic handwheel clutch.
Clutch for automobiles. R. Fuchs. 2,350,745; June 6.
Clutch mechanism. B. T. Malachowski. 2,350,627; June 6.
Clutch mechanism. A. T. Nabstedt. 2,350,411; June 6.
Coating composition and adhesive resulting therefrom. R. G. Drew. 2,350,732; June 6.
Coating composition and azo pigment dyestuff therefor. G. M. O'Neal. 2,350,520; June 6.
Coffee extract. J. L. Kellogg. 2,350,903; June 6.
Coin tester. W. H. Parnell. 2,350,414; June 6.
Combined land, air, and water vehicle. J. E. Griffith. 2,350,608; June 6.
Communication system. H. Salinger. 2,350,331; June 6.
Compensating device for watch balances. R. Straumann. 2,350,838; June 6.
Composition of liquids, Method and system of apparatus for determining and controlling changes in. C. F. Wallace. 2,350,378; June 6.
Compressor. E. Morrison. 2,350,518; June 6.
Condenser: *See*—
Electrical condenser.
Connector: *See*—
Electrical connector.
Constant tension letoff mechanism. C. D. Brown. 2,350,954; June 6.
Container: *See*—
Fibrous-covered container.
Container. J. L. Kallus. 2,350,463; June 6.
Container. G. A. Ramsden and G. J. R. Ramsden. 2,350,925; June 6.
Control for photographic copying apparatus. A. E. Schubert, E. O. Wangerin, and J. F. Egan. 2,350,831; June 6.
Control lever or wrench for gas meter inlet cocks. B. Herskovits. 2,350,354; June 6.
Control means for aircraft wing flaps. C. Gliubich. 2,350,751; June 6.
Control system. R. M. Heintz. 2,350,680; June 6.
Control system. W. L. McGrath. 2,350,408; June 6.
Cooking apparatus. R. O. Stevenson. 2,350,941; June 6.
Copyholder. R. J. Miller. 2,350,365; June 6.
Cork product and making the same. C. H. Schuh. 2,350,422; June 6.
Coupling: *See*—
Shutoff coupling.
Crackle finish. G. E. Rees. 2,350,818; June 6.
Crankcase insulation. S. E. Kienitz. 2,350,559; June 6.
Crate, Collapsible. E. F. Costigan. 2,350,673; June 6.
Cross winding frame. W. Reiners and G. Kahlisch. 2,350,927; June 6.
Cupola, Aircraft back-turret. E. Lanciani. 2,350,777; June 6.
Cushion for upholstery, Bellows. H. W. Amos. 2,350,711; June 6.
Cutoff apparatus. W. Rodder and E. H. Kendall. 2,350,975; June 6.
Cutter: *See*—
Adjustable cutter. Milling cutter.
Cutting machine. W. R. Spiller and L. D. Barley. 2,350,540; June 6.
Cutting tool and manufacture thereof. A. O. Bates. 2,350,667; June 6.
Cyclic acetal to a polyolefin, Converting a. L. A. Mikeska and E. Arundale. 2,350,517; June 6.
Cyclized rubber containing basic amino polymers. W. H. Charch. 2,350,385; June 6.
Deep well drilling apparatus. J. W. Menhall. 2,350,364; June 6.
Densifying mill. F. R. Murphy and R. H. Bebout. 2,350,632; June 6.
Dental flask. F. T. Baldwin. 2,350,864; June 6.
Derivatives of ascorbic acid. P. A. Wells and D. Swern. 2,350,435; June 6.
Derivatives of the saturated and unsaturated cyclopentanopolyhydrophenanthrene series, Manufacture of. K. Miescher and A. Wettstein. 2,350,792; June 6.
Device for automatically inserting and adjusting sheets of paper in typing or printing machines. W. Kniehahn, H. D. Geiser, H. Schüller, R. Gerth, and R. Witt. 2,350,773; June 6.
Device for converting a controlling impulse into an alternating current impulse. A. Krüssmann. 2,350,776; June 6.
Device for covering electric wires. F. Klute and H. Heering. 2,350,772; June 6.
Device for drawing goods from flat knitting machines. F. Flämig. 2,350,885; June 6.
Device for filing documents. R. A. E. Guichard. 2,350,754; June 6.
Device for locating celestial bodies. J. L. Speert. 2,350,374; June 6.
Device for separating worms and larvae from nut meats. E. Albaugh, Sr. 2,350,332; June 6.
Device for storing and discharging life rafts, boats, or other articles. W. Fraser and J. M. Sloane. 2,350,344; June 6.
Dewaxing apparatus. J. F. Thornton. 2,350,944; June 6.
Dial damper regulator. E. Anderson. 2,350,441; June 6.
Diammonium monoalkali ferricyanide. R. B. Barnes and L. P. Moore. 2,350,443; June 6.
Diazotype photographic material. W. Vanselow, A. Weissberger, and D. B. Glass. 2,350,843; June 6.
Die: *See*—
Metal drawing die.
Diethylstilboestrol, Hydrogenation of. R. T. Major, C. C. Christman, and F. Folkers. 2,350,361; June 6.
Diketopyrimidine couplers. W. D. Peterson. 2,350,812; June 6.
Diolefins, Preparing. E. Arundale and L. A. Mikeska. 2,350,485; June 6.
Dioxolanes, Preparation of. L. Squires. 2,350,940; June 6.
Dipping mechanism. J. V. Davis. 2,350,496; June 6.
Dispatching mechanism for alarm signal systems. F. F. Humphreys. 2,350,557; June 6.
Dispensing apparatus. J. R. Sonneborn and L. H. Lange. 2,350,836; June 6.
Distillation method. C. E. Hemminger. 2,350,507; June 6.
Door latch mechanism. B. A. Quinn. 2,350,923; June 6.
Door strike. R. I. Pendleton. 2,350,635; June 6.
Draft producing apparatus. S. Kneass, Jr. 2,350,401; June 6.
Draft regulator for orchard heaters. W. C. Scheu. 2,350,830; June 6.
Drafting machine. C. W. Keuffel. 2,350,358; June 6.
Drafting table. J. J. Darby. 2,350,340; June 6.
Drain valve. G. M. Gabel. 2,350,748; June 6.
Drier. O. Byron and K. H. Jones. 2,350,672; June 6.
Drill: *See*—
Rock drill.
Drill chuck. H. A. Mills. 2,350,565; June 6.
Drill steel centralizer. J. C. Curtis. 2,350,658; June 6.
Drill steel centralizer. J. C. Curtis. 2,350,660; June 6.
Drill steel guide. C. F. Osgood. 2,350,661; June 6.
Dropper bottle. W. H. Douglass. 2,350,596; June 6.
Dump body and leveler, Combination. E. R. Barrett. 2,350,488; June 6.
Dye images, Producing. G. Ehrenfried. 2,350,736; June 6.
Dyestuffs, Basic water-soluble. B. Eistert and G. Kochendoerfer. 2,350,393; June 6.
Dynamoelectric machine. C. L. Hamm. 2,350,755; June 6.
Dynamometer excitation control system. R. H. Kaufmann. 2,350,766; June 6.

Electric braking system. E. H. Piron. 2,350,636; June 6.
Electric impulses, Producing. P. Morland and J. A. Smith. 2,350,797; June 6.
Electric razor. B. G. Olving. 2,350,805; June 6.
Electric relay means. H. W. Lord. 2,350,785; June 6.
Electric switch. W. L. Dunn and A. W. Plensler. 2,350,392; June 6.
Electric switch. J. S. Nunes. 2,350,966; June 6.
Electric switch mechanism. E. L. Fish and D. E. Maben. 2,350,551; June 6.
Electric wave system. M. K. Zinn. 2,350,951; June 6.
Electrical condenser. P. Robinson. 2,350,823; June 6.
Electrical connector. J. O. Johnson. 2,350,765; June 6.
Electrical depth marker. F. F. Segesman. 2,350,852; June 6.
Electrical distribution system. W. H. Frank and L. E. Fisher. 2,350,601; June 6.
Electrical signaling system. R. Taylor and G. T. Baker. 2,350,652; June 6.
Electrical speed controller. C. A. Vatter. 2,350,431; June 6.
Electrical timing system. L. W. Melcher. 2,350,409; June 6.
Electrically driven toy vehicle. O. Fischer. 2,350,740; June 6.
Electrically insulated element. P. Robinson. 2,350,822; June 6.
Electrically melting glass, Method and furnace. F. Dumarest. 2,350,734; June 6.
Electro-hydrothermic oil-well processor. D. F. Troupe. 2,350,429; June 6.
Electromagnetic tenter clip. A. F. Haskins. 2,350,961; June 6.
Elevator cars, Method of and apparatus for ventilating. J. S. Coulton and I. R. Disbro. 2,350,389; June 6.
Endless track construction. F. E. Burgess. 2,350,445; June 6.
Engine: *See*—
Internal-combustion engine.
Esters. D. J. Loder and W. O. Teeters. 2,350,964; June 6.
Esters of acetyllactyllactic acid and making same. H. V. Claborn. 2,350,388; June 6.
Esters of alkoxy-aryloxy alcohols, Unsaturated. G. H. Coleman and B. C. Hadler. 2,350,325; June 6.
Esters of substituted acetic acids. D. J. Loder and W. O. Teeters. 2,350,360; June 6.
Evaporative cooling. S. C. Coey. 2,350,590–1; June 6.
Excavating equipment. W. M. Huston. 2,350,762; June 6.
Exhaust apparatus. K. Egge. 2,350,735; June 6.
Exhaust silencer. O. J. Rainville. 2,350,924; June 6.
Exothermic composition and method for waving hair. R. E. Reed. 2,350,926; June 6.
Extractor: *See*—
Citrus fruit juice extractor
Extractor-and-ejector assembly for firearms. A. A. Rowley. 2,350,477; June 6.
Eyeglasses. J. M. Christman. 2,350,386; June 6.
Fans, Centrifugal. F. Ferré. 2,350,739; June 6.
Fastening device. R. A. Dick. 2,350,498; June 6.
Fastening device for casement windows, doors, and the like. C. van der Leun. 2,350,844; June 6.
Fatigue testing machine. F. Buckingham. 2,350,722; June 6.
Feed for tools, Adjustable. D. T. Peden. 2,350,527; June 6.
Feed mechanism. N. Eslinger. 2,350,549; June 6.
Feed mechanism for machine tools. I. J. Snader and H. N. Seyferth. 2,350,372; June 6.
Feeder: *See*—
Poultry feeder.
Feeding device. R. W. Bailey. 2,350,486; June 6.
Feeding mechanism for sewing machines. F. Parry. 2,350,807; June 6.
Fibrous-covered container. L. M. Wiley. 2,350,950; June 6.
Filing machine. A. Lapkoff. 2,350,779; June 6.
Film guiding assembly. A. E. Lechleitner. 2,350,780; June 6.
Film identification signal. H. O. Drotning. 2,350,733; June 6.
Finger ring. E. Palliser. 2,350,806; June 6.
Finishing tool. E. A. Millonig. 2,350,794; June 6.
Firearm, Tubular-magazine repeating. T. F. Horan. 2,350,555; June 6.
Firearm with sling strap. D. M. Williams. 2,350,484; June 6.
Firing mechanism. J. G. Seitz. 2,350,833; June 6.
Fishhook. F. E. Titus. 2,350,650; June 6.
Fishing lure and making same. G. D. Schweigert. 2,350,572; June 6.
Fishing tool. F. M. Milek. 2,350,692; June 6.
Flange spreader. W. P. Liston. 2,350,404; June 6.
Flasher and circuit control, Two-way. E. R. Kulka. 2,350,403; June 6.
Flotation system, Countercurrent froth flow. J. W. Thompson and L. E. Booth. 2,350,943; June 6.
Flowmeter. K. Fischer. 2,350,343; June 6.
Fluid-cooled electrode holder. H. A. Jackson. 2,350,614; June 6.
Fluid drive. L. P. Jossim and J. S. Kellett. 2,350,683; June 6.
Fluid drive. N. I. Perry. 2,350,416; June 6.
Fluid drive transmission. A. D. Pentz. 2,350,810; June 6.
Fluid level gauge. W. Barstles. 2,350,712; June 6.
Fluid sampling device. C. W. Cochran and F. R. Lake. 2,350,323; June 6.
Fluid translating apparatus. O. Scott. 2,350,537; June 6.
Fluid valve. G. J. Koehler. 2,350,905; June 6.
Fly trap. O. M. Olson. 2,350,519; June 6.
Folding chair. C. Hoover, Jr. 2,350,895; June 6.
Footwear. W. Wehr. 2,350,852; June 6.
Forming pressed articles from powders. J. S. Pecker and H. A. Simpson. 2,350,971; June 6.
Frame: *See*—
Cross-winding frame.
Frames, Supporting comb-foundations in honey. W. A. Hinson. 2,350,963; June 6.
Frequency demodulator. W. H. Bliss. 2,350,869; June 6.
Friction shock absorbing mechanism. G. E. Dath. 2,350,547; June 6.
Fruit collector. W. Langford. 2,350,908; June 6.
Fruit, Dicing. E. W. Carroll. 2,350,586; June 6.
Fuel conditioning and feeding apparatus. N. M. Lower. 2,350,910; June 6.
Fuel pump for internal-combustion motors. A. G. F. Wallgren, O. F. Holmström, and K. E. Evrell. 2,350,434; June 6.
Furfural purification. K. H. Hachmuth. 2,350,609; June 6.
Furfural purification method. C. K. Buell and C. M. Cooper. 2,350,584; June 6.
Furniture. D. M. Pope. 2,350,956; June 6.
Garment bag. J. G. Johnston. 2,350,901; June 6.
Garment hanger. P. H. Reckow. 2,350,859; June 6.
Gas compressing plant. B. R. Planche. 2,350,815; June 6.
Gas range. G. J. Eltz, Jr. 2,350,500; June 6.
Gauge: *See*—
Linear-dimension gauge. Pin driver and gauge.
Liquid level gauge. Strain gauge.
Gauge for setting internal instruments. E. Ellstrom, Sr. 2,350,394; June 6.
Gauge holder. G. A. Paulsen. 2,350,415; June 6.
Gear: *See*—
Motor vehicle steering gea
Gear crowning machine. R. S. Drummond. 2,350,882; June 6.
Gear testing tool. L. D. Martin. 2,350,788; June 6.
Gelation coating process. C. R. Fordyce and G. J. Clarke. 2,350,742–4; June 6.
Generator: *See*—
Synchronizing signal generator.
Germicidal treatment of air-borne bacteria. H. W. Alexander. 2,350,665; June 6.
Girder brace for outdoor signs. W. F. Vernon. 2,350,433; June 6.
Gland sealing apparatus. R. B. Collins. 2,350,448; June 6.
Glycol formals. W. F. Gresham. 2,350,350; June 6.
Governor. A. Lichte. 2,350,781; June 6.
Grading machine. C. Mauroner. 2,350,691; June 6.
Grease composition. J. C. Zimmer and A. J. Morway. 2,350,544; June 6.
Greasing agent. G. Lietz. 2,350,782; June 6.
Greenhouse. C. R. Brown. 2,350,721; June 6.
Grinding machine. M. Ahnert. 2,350,710; June 6.
Grinding wheel dresser. J. Sneed. 2,350,937; June 6.
Guanidine and biguanide salts, Producing substituted. W. P. Ericks. 2,350,453; June 6.
Gun loading mechanism. C. P. Caulkins. 2,350,493; June 6.
Hammer, Power. G. Pinazza. 2,350,921; June 6.
Hanger: *See*—
Garment hanger.
Hat supporting device. G. B. Conley. 2,350,728; June 6.
Header construction for sliding doors. R. L. Long. 2,350,689; June 6.
Headlight signal. E. F. Feldheim. 2,350,599; June 6.
Heat exchanger. G. A. Worn. 2,350,976; June 6.
Heat responsive means for controlling the air supply to liquid fuel burners. S. Perry. 2,350,920; June 6.
Heat transfer device. R. S. Gaugler. 2,350,348; June 6.
Heater: *See*—
Portable car heater. Water heater.
Hesperidin and preparing the same, Derivatives of. M. Ohta. 2,350,804; June 6.
Holder: *See*—
Cannula holder. Razor and blade holder.
Fluid-cooled electrode holde Soapstone holder.
Gauge holder.
Honeycomb frame lifter. C. E. Hartley. 2,350,890; June 6.
Honing arbor. J. Sunnen. 2,350,969; June 6.
Hopper-type bin. J. E. Bales. 2,350,487; June 6.
Horn control system. R. M. Critchfield, P. L. Schneider, and B. H. Short. 2,350,390; June 6.

Hydraulic apparatus. H. F. Schmidt. 2,350,933; June 6.
Hydraulic press. M. A. Monier. 2,350,795; June 6.
Hydraulic pump. L. J. Garday. 2,350,502; June 6.
Hydraulic scoop. B. Ender. 2,350,327; June 6.
Hydraulic sealing machine. W. L. Owens. 2,350,474; June 6.
Hydraulic system and control. H. W. Adams and O. A. Wheelon. 2,350,662; June 6.
Hydraulic transmission. O. A. Banner. 2,350,865; June 6.
Hydrocarbon oils, Conversion of. C. E. Hemminger. 2,350,508; June 6.
Hydrocarbons, Conversion of. L. Schmerling and A. M. Durinski. 2,350,828; June 6.
Hydrocarbons, Conversion of. E. E. Sensel and A. R. Goldsby. 2,350,834; June 6.
Hydrocarbons, Producing. F. E. Frey and H. J. Hepp. 2,350,501; June 6.
Hydrocarbons with radioactive materials, Treatment of. T. P. Remy. 2,350,330; June 6.
Hydrous chromic oxide, Production and acid treatment of. M. Darrin. 2,350,960; June 6.
Indicating instrument having magnetic biasing means. G. E. Ford. 2,350,741; June 6.
Indicator: *See*—
Temperature indicator.
Industrial truck. R. Lapsley. 2,350,909; June 6.
Ink fountain drive, Automatic directional. J. L. Blackley and W. P. V. Ross. 2,350,580; June 6.
Insecticide. H. von Philipp. 2,350,814; June 6.
Insulated conducting member and method of applying the insulation. G. Camilli. 2,350,724; June 6.
Insulating covering. R. F. Massa. 2,350,363; June 6.
Insulator mounting. L. J. Schilling. 2,350,420; June 6.
Intermitter. C. M. O'Leary. 2,350,472; June 6.
Internal-combustion engine. C. E. Mahan. 2,350,626; June 6.
Internally expanding brake. F. R. Cowell. 2,350,878; June 6.
Iron: *See*—
Steam iron.
Jet-pipe relay. P. Peglau. 2,350,808; June 6.
Jewels, Producing inlaid. W. P. Schoder and J. P. Ruth. 2,350,421; June 6.
Joint: *See*—
Abrasive belt joint. Steam joint.
Ball joint.
Joint construction. G. H. Hufferd. 2,350,398; June 6.
Joint structure for metal tubing. E. C. Booth. 2,350,582; June 6.
Key head. H. Martin and W. Franz. 2,350,787; June 6.
Knife cleaner for rotary tobacco-leaf cutting machines. H. W. Langrish. 2,350,686; June 6.
Knife, Hunting. J. B. F. Champlin and T. H. Banton. 2,350,494; June 6.
Lactic acid purification. H. H. Schopmeyer and C. R. Arnold. 2,350,370; June 6.
Lamp: *See*—
Portable lamp.
Lead control device. A. K. Selnes. 2,350,538; June 6.
Lifter: *See*—
Honeycomb frame lifter.
Lime spreader. C. B. Richey. 2,350,476; June 6.
Linear-dimension gauge. F. P. Ayers. 2,350,862; June 6.
Liquid level. M. R. Houseman. 2,350,612 June 6.
Liquid level gauge. A. D. Rose and H. Seegers. 2,350,533; June 6.
Liquid seal. L. P. Grobel. 2,350,753; June 6.
Liquid-solid separation. A. H. Schutte. 2,350,934; June 6.
Lock: *See*—
Bolt lock.
Lock washer. G. W. Heinold. 2,350,756; June 6.
Lock-stitch electric sewing machine and bobbin therefor. O. R. Haas. 2,350,397; June 6.
Lubricant. A. A. Schilling and T. B. Curran. 2,350,570–1; June 6.
Lubricant grease. V. R. Kokatnur and A. van Hook. 2,350,906; June 6.
Lubricating oil composition. L. E. Beare. 2,350,489; June 6.
Luggage bag. I. Gold. 2,350,606; June 6.
Machine. W. S. Reynolds. 2,350,569; June 6.
Machine for bending metal. W. A. Weightman. 2,350,379; June 6.
Machine for compressing gases by centrifugal effect. J. Szydlowski. 2,350,839; June 6.
Machine for dressing edges of metal sheets and the like. W. F. Spahr. 2,350,648; June 6.
Machine for extruding loaded components. R. G. Jackson and A. H. Grover. 2,350,356; June 6.
Machine for handling boxes and similar articles. H. D. Couch. 2,350,449; June 6.
Machine for making and filling packages. L. L. Salfisberg. 2,350,930; June 6.
Machine for packaging gum. J. Van Buren. 2,350,576; June 6.
Machine for preparing food products. C. J. Schwebke and F. E. Hoadley. 2,350,643; June 6.
Machine for producing oval objects and frames. J. Torma. 2,350,428; June 6.
Machine for use in the manufacture of cartons. W. T. Martin. 2,350,690; June 6.
Magazine for safety razor blades. S. C. Stampleman and J. Muros. 2,350,837; June 6.
Magnetic direction indicating instrument. S. Krasnow and J. M. S. Kaufman. 2,350,402; June 6.
Magnetic stirrer. A. Rosinger. 2,350,534; June 6.
Manually controlled time switch. J. S. Nunes. 2,350,967; June 6.
Manufacture of pigments and coating compositions. G. M. O'Neal. 2,350,525; June 6.
Marine power plant and method. F. A. Faville. 2,350,598; June 6.
Match device. C. R. Morris. 2,350,798; June 6.
Material, Process and apparatus for separating. J. M. McGee. 2,350,625; June 6.
Materials handling system. G. A. Spalding and M. A. Palmer. 2,350,425; June 6.
Measuring composition. C. I. Bradford. 2,350,545; June 6.
Measuring device. J. Verderber. 2,350,432; June 6.
Meat mold. D. L. Tichenor. 2,350,427; June 6.
Mechanical movement. J. G. Baker. 2,350,334; June 6.
Mechanism for floating tank roofs, Antirotational. J. H. Wiggins. 2,350,483; June 6.
Metal car seal. W. G. Newton. 2,350,471; June 6.
Metal drawing die. H. G. Keshian. 2,350,465; June 6.
Metal drawing process. B. F. Butler and E. A. Hirdler. 2,350,491; June 6.
Metal trimming. C. Sarulla. 2,350,535; June 6.
Metal walkway and producing the same, Reticulated. A. W. Nelson. 2,350,412; June 6.
Metallic soap composition. F. J. Licata and J. Nothum. 2,350,688; June 6.
Metals from steel slags, Recovering. P. E. Cavanagh. 2,350,725; June 6.
Meter reading apparatus, Automatic. W. Leathers. 2,350,405; June 6.
Milking machine. O. R. Frost. 2,350,602; June 6.
Mill: *See*—
Densifying mill.
Milling cutter. J. H. Grayson. 2,350,974; June 6.
Milling machine. H. J. Leisner and H. C. Sheafer. 2,350,406; June 6.
Mineral oil lubricant. O. M. Reiff. 2,350,368; June 6.
Mixed esters of cellulose, Production of. H. Dreyfus. 2,350,391; June 6.
Mold: *See*—
Meat mold.
Moldable products, Molding and packaging. R. W. Marshall. 2,350,912; June 6.
Molten glass extruding apparatus. R. Scharfnagel. 2,350,829; June 6.
Mooring block. J. P. Keating. 2,350,767; June 6.
Motor device for driving light vehicles, Auxiliary. M. Mennesson. 2,350,791; June 6.
Motor load control. J. F. Mercer. 2,350,913; June 6.
Motor vehicle steering gear. M. J. Scanlon. 2,350,478; June 6.
Mounting: *See*—
Insulator mounting. Ophthalmic mounting.
Multiplying machine. A. H. Dickinson. 2,350,499; June 6.
Multipoint lubrication. J. R. Cornelius. 2,350,877; June 6.
Nipple, Backstop. B. E. Bailey. 2,350,883; June 6.
Nitrogen-phosphoric acid compounds, Production of. R. Watzel. 2,350,850; June 6.
Novel resilient heel construction. M. Margolin. 2,350,362; June 6.
Nut, Lock. B. Sosnick. 2,350,647; June 6.
Oil agent, Lubricating. E. Lieber and C. E. Hodges. 2,350,562; June 6.
Oil and additive therefor, Lubricating. E. W. Cook and W. D. Thomas, Jr. 2,350,959; June 6.
Oil composition, Mineral. E. W. Fuller. 2,350,746; June 6.
Oil, Lubricating. B. H. Lincoln, G. D. Byrkit, and W. L. Steiner. 2,350,783; June 6.
Oil seal. H. F. Petch. 2,350,697; June 6.
Oils, Converting hydrocarbon. W. J. Degnen, H. M. Nelly, Jr., and P. C. Keith, Jr. 2,350,730; June 6.
Oils, Drying. T. F. Bradley. 2,350,583; June 6.
Ophthalmic mounting. S. F. Casavant. 2,350,338; June 6.
Orchard conditioning system. J. B. Kasser. 2,350,621; June 6.
Ordnance. J. C. Trotter and L. F. Maurer. 2,350,946; June 6.
Ornament. E. Bazner. 2,350,714; June 6.
Orthopedic arm. J. A. Q. Costa. 2,350,339; June 6.
Oven, Regenerative coke. N. M. Philipsen. 2,350,813; June 6.
Ozonizer. S. Tsuno. 2,350,842; June 6.
Package, Dispensing. L. L. Salfisberg. 2,350,931; June 6.
Pan greasing machine. H. A. Roselund. 2,350,708; June 6.
Parachute. F. Smith. 2,350,646; June 6.
Parachute. P. J. Swofford. 2,350,480; June 6.
Parasite control material, Preparation of a new. W. C. Hellings and F. B. McLane. 2,350,328; June 6.
Parasiticidal composition. G. H. Coleman, F. W. Fletcher, and G. E. Lynn. 2,350,324; June 6.
Parts for electrical apparatus, Manufacturing. H. W. Goff. 2,350,887; June 6.

Perforating device. L. V. and S. A. Whistler. 2,350,436; June 6.
Phonographic apparatus. J. J. Hoehn and A. G. Zimmerman. 2,350,682; June 6.
Photoengraving. W. S. Marx, Jr. 2,350,516; June 6.
Photographic screening layer. E. E. Jelley and P. W. Vittum. 2,350,764; June 6.
Photography. C. F. A. White. 2,350,380; June 6.
Pigmented resin and making. F. E. Drummond and W. A. Waldie. 2,350,955; June 6.
Pin driver and gauge. M. Feldman. 2,350,675; June 6.
Piston expander and stabilizer. C. F. Johnston. 2,350,619; June 6.
Pitch adjusting mechanism for propeller fans. C. N. Bebinger. 2,350,383; June 6.
Plastically reproducing objects. I. Morioka. 2,350,796; June 6.
Plate-bending machine. P. S. Pickard. 2,350,530; June 6.
Plate cylinder clamping means for cylinder printing presses. A. J. Carpenter, Jr. 2,350,585; June 6.
Plate for secondary or storage batteries. E. Graf. 2,350,752; June 6.
Plug: *See*—
  Spark plug.
  Ventilated radio-shielded spark plug.
Plunger pad for container closing machines. J. A. Woerz. 2,350,438; June 6.
Pneumatic control device. F. D. Joesting. 2,350,615; June 6.
Polarized single-coil relay. O. Römer. 2,350,825; June 6.
Polyamide articles. W. Wehr. 2,350,851; June 6.
Portable article. C. R. Morris. 2,350,799; June 6.
Portable car heater. P. A. Anderson. 2,350,860; June 6.
Portable hand-held electric tool. W. G. Mitchell. 2,350,631; June 6.
Portable lamp. R. I. Johns. 2,350,462; June 6.
Pot type burner. J. L. Breese. 2,350,872; June 6.
Poultry dressing device. C. Williamson. 2,350,656; June 6.
Poultry feeder. L. T. Ivey. 2,350,461; June 6.
Powdered soap mixture and its preparation, Free-flowing. G. M. O'Neal. 2,350,521; June 6.
Preparation of 2-chlor-meta-5-xylenol. G. W. Gladden. 2,350,677; June 6.
Press: *See*—
  Hydraulic press.
Pressure device for drawing cylinders for fly frames having three, four, or more cylinders. L. Marzoli. 2,350,789; June 6.
Primer tube for dynamite cartridges. G. R. Mustaparta. 2,350,566; June 6.
Printed article. H. Menihan. 2,350,564; June 6.
Printing machine, Power-operated. C. D. Ryan and E. P. Drake. 2,350,703; June 6.
Printing press roll structure. G. Goebel and E. A. Wilckens. 2,350,505; June 6.
Propeller. G. L. Freedman and W. E. Burnham. 2,350,345; June 6.
Propeller, Dual. T. R. Tarn. 2,350,942; June 6.
Protector: *See*—
  Substation protector.
Protein compositions, Preparing. W. M. Bain and A. W. Neubauer. 2,350,953; June 6.
Puff, Powder. A. E. Vaughn. 2,350,707; June 6.
Pulley, Self-aligning. R. F. Hlavaty. 2,350,509; June 6.
Pump: *See*—
  Hydraulic pump.
  Variable stroke pump.
Pump. C. C. Jetter. 2,350,898; June 6.
Pumping and feeding mechanism for mixing machines. E. G. Berg and M. Ovestrud. 2,350,715; June 6.
Push-pull circuit. J. A. Worcester, Jr. 2,350,858; June 6.
Pyrrole, Separation of. P. J. Cole, C. R. Clark, and J. W. Waldron. 2,350,447; June 6.
Radio communication, System of. E. H. Ullrich. 2,350,702; June 6.
Radio tuner, Automatic. A. S. Wells. 2,350,543; June 6.
Rail fastening. V. Retterath. 2,350,819; June 6.
Railroad car truck. K. F. Nystrom and V. L. Green. 2,350,567; June 6.
Railway traffic controlling apparatus. V. P. Shepardson. 2,350,699; June 6.
Railway traffic controlling apparatus. H. S. Young. 2,350,705; June 6.
Razor and blade holder. J. J. Kowalski. 2,350,467; June 6.
Razor, Safety. J. F. C. Przybysz. 2,350,816; June 6.
Receptacle opening and pouring spout. R. T. Embrey. 2,350,451; June 6.
Refrigerating apparatus. A. C. Freimann. 2,350,886; June 6.
Refrigerating apparatus. R. S. Gaugler. 2,350,347; June 6.
Refrigerator car. G. G. Gilpin. 2,350,605; June 6.
Refrigerator shelves, Manufacturing. C. R. Carney. 2,350,875; June 6.
Regulator: *See*—
  Dial damper regulator.
Regulator for airplane cabins, Supercharger. H. Jde. 2,350,896; June 6.
Rehearsal system for sound motion pictures. M. E. Collins. 2,350,727; June 6.
Relay, Electrical. N. F. Agnew. 2,350,663; June 6.
Remote control system. G. W. Baughman and N. F. Agnew. 2,350,668; June 6.
Reproducing unit for sound films, Sound. J. L. J. Marette and H. L. Burnat. 2,350,786; June 6.
Reservoir construction. S. B. Brodie. 2,350,720; June 6.
Resin alcohol, Polimerized. J. N. Borglin. 2,350,384; June 6.
Resins, Making alcohols modified urea-formaldehyde. H. Hönel. 2,350,894; June 6.
Resins, Production of. W. A. King. 2,350,400; June 6.
Retarding means for railway car doors. A. E. Small. 2,350,645; June 6.
Retractable spud support. H. M. Stueland. 2,350,701; June 6.
Rheostat and its manufacture. R. R. and F. R. Gonsett. 2,350,607; June 6.
Ring: *See*—
  Arch-bound polysegmental packing ring.
  Finger ring.
Rip envelope. H. I. Nevin, Sr. 2,350,802; June 6.
Rip wires in canisters, Provision of. P. Bogner. 2,350,870; June 6.
Rock drill. E. G. Gartin. 2,350,659; June 6.
Roentgen tube with anode turning about its longitudinal axis. K. Schwarzer. 2,350,642; June 6.
Roll and core, Tape. C. B. Sampair and E. C. Lund. 2,350,369; June 6.
Rope-operated mechanism for control drums. R. B. Hunter and H. L. Mekelburg. 2,350,613; June 6.
Rotor. C. E. Tack. 2,350,970; June 6.
Rotor, Irrotational. R. R. Hays. 2,350,962; June 6.
Rounding off means for calculating machines. R. H. Sampson. 2,350,698; June 6.
Routing machine. A. E. Schnable. 2,350,704; June 6.
Safety fluorescent lamp clip. C. E. Foster. 2,350,600; June 6.
Salt-form azo pigment dyestuff and coating composition made therefrom. G. M. O'Neal. 2,350,523; June 6.
Salts of aromatic compounds, Making ammonium. E. and W. G. Berl. 2,350,322; June 6.
Saw attachment for tractors. P. C. Dellinger and M. L. Sensenig. 2,350,880; June 6.
Scale or balance. M. Katz. 2,350,622; June 6.
Scale, Weighing. G. R. Bennett. 2,350,321; June 6.
Scouring device and making the same. D. J. Kelman. 2,350,357; June 6.
Screw, Self-tapping. C. R. Gaskell. 2,350,346; June 6.
Sealing and testing well head connection. R. N. Bean, J. S. Abercrombie, and H. Allen. 2,350,867; June 6.
Section brush for vacuum cleaners. W. Weimers. 2,350,949; June 6.
Seed cultivation. B. Németh. 2,350,801; June 6.
Selecting system. N. I. Hall. 2,350,888; June 6.
Separation and purification of tocopherols. J. G. Baxter and J. D. Taylor. 2,350,713; June 6.
Sewing appliance. H. H. Sinning. 2,350,423; June 6.
Sewing machine. A. B. Clayton. 2,350,726; June 6.
Sheet feeding machine. C. D. Lake and F. E. Hamilton. 2,350,511; June 6.
Sheet holding tool. A. A. Melcher. 2,350,630; June 6.
Shield for vehicle headlights, Black-out. O. B. Fetterman. 2,350,676; June 6.
Shoe. C. H. Daniels. 2,350,879; June 6.
Shoe and boot pasting press with circulating press molds. A. Erbe. 2,350,738; June 6.
Shoe forming and toe lasting machine. H. Walther, Sr. 2,350,849; June 6.
Shot blasting test. J. O. Almen. 2,350,440; June 6.
Shutoff coupling. F. J. Heywood. 2,350,681; June 6.
Shutter for projectors, Safety. M. R. Hutchison, Jr. 2,350,761; June 6.
Shutter mechanism. L. B. Hoffmann. 2,350,355; June 6.
Signal: *See*—
  Film identification signal.
  Headlight signal.
Signaling aid for the deaf and hard of hearing, Portable. T. Ordman. 2,350,413; June 6.
Signaling device. G. Blair. 2,350,717; June 6.
Signaling system. N. D. Newby. 2,350,917; June 6.
Signaling system, Coded track circuit. T. J. Judge. 2,350,620; June 6.
Signaling system, Coded track circuit. N. D. Preston. 2,350,639; June 6.
Signaling system, Coded track circuit. H. S. Wynn. 2,350,657; June 6.
Slipcover for overstuffed upholstered furniture, Self-conforming, surface-gripping, ready-made knitted. J. A. Krasnov. 2,350,359; June 6.
Smoke stack. H. H. Lanning. 2,350,512; June 6.
Smoker's pipe cleaner. G. C. Dickey. 2,350,674; June 6.
Snowplow. E. L. Wiedman. 2,350,437; June 6.
Soap of soap-forming acids in powdered, free-flowing form, Water-insoluble. G. M. O'Neal. 2,350,526; June 6.
Soapstone holder. E. L. B. May. 2,350,629; June 6.
Socket and starter for fluorescent lamps. F. C. De Reamer. 2,350,341; June 6.
Solenoid. H. T. Sparrow. 2,350,938; June 6.
Solvent mixtures, Preparation of. A. G. Bright and W. E. Fisher. 2,350,719; June 6.
Soot blower. W. D. Ridley. 2,350,929; June 6.
Sorting machine. E. J. Rabenda and H. J. Kistner. 2,350,531; June 6.
Sound barrier wall or door construction. R. L. Leadbetter. 2,350,513; June 6.

Sound recording apparatus. H. S. Berliner. 2,350,490; June 6.
Spark plug. S. M. Dobrosavljevitch. 2,350,731; June 6.
Spark plug. H. Rabezzana. 2,350,475; June 6.
Spark plug electrode. J. R. Gretzinger, A. J. Battey and H. Rabezzana. 2,350,396; June 6.
Specimen grip for testing machines. M. B. Vordahl. 2,350,577; June 6.
Spring fillers for furniture and the like, Forming. H. Büttner. 2,350,723; June 6.
Stable aqueous wax emulsions, Producing. A. Müller. 2,350,800; June 6.
Stand for cooking vessels. M. Hendel. 2,350,757; June 6.
Starch composition. J. F. Walsh and F. C. Miller. 2,350,653; June 6.
Steam iron. R. N. Envall. 2,350,452; June 6.
Steam joint. R. Carpenter. 2,350,492; June 6.
Steering wheel truck for tractors. J. E. Cunningham. 2,350,593; June 6.
Storage of goods. G. Duttweiler. 2,350,883; June 6.
Stove or heater, Coal-gas. N. H. Cargile. 2,350,546; June 6.
Strain gauge. A. C. Ruge. 2,350,972; June 6.
Stretcher. J. R. Smith, Jr., and F. De la Rosa. 2,350,573; June 6.
Strip feed mechanism. L. H. Moomaw and H. Bernzott. 2,350,693; June 6.
Substation protector. J. S. Baker. 2,350,442; June 6.
Supercharger. H. A. Johnson. 2,350,616; June 6.
Supercharger-regulator for airplane cabins. H. Jde. 2,350,896; June 6.
Supply roll for blank sheets. G. H. Ridings. 2,350,417; June 6.
Support: *See*—
  Retractable spud support.
Support. P. H. Planeta. 2,350,922; June 6.
Surface type heat exchanger. A. R. Smith. 2,350,936; June 6.
Switch: *See*—
  Automatic sectionalizing and short circuiting switch.
  Electric switch.
  Manually controlled time switch.
Switching mechanism. F. H. Hibbard. 2,350,458; June 6.
Switching mechanism. A. C. Keller. 2,350,464; June 6.
Synchronizing signal generator. K. Schlesinger. 2,350,536; June 6.
Table: *See*—
  Drafting table.
Tanks and the like, Assembly of. R. Saulnier. 2,350,827; June 6.
Telegraph key. H. E. Tromholt. 2,350,481; June 6.
Telegraph signals, Storing. H. Angel. 2,350,382; June 6.
Telephone instrument circuit. E. Frydman. 2,350,604; June 6.
Telephone or like system. D. A. Christian and D. L. Clay. 2,350,589; June 6.
Telephone system trouble recorder. G. V. King and O. Myers. 2,350,466; June 6.
Television apparatus. E. I. Harman. 2,350,889; June 6.
Television system. H. E. Kallmann. 2,350,902; June 6.
Temperature condensation for direct current telemeters. F. R. Sias. 2,350,835; June 6.
Temperature indicator. P. L. Mardis. 2,350,911; June 6.
Temperature indicator. R. R. Pittman. 2,350,637; June 6.
Temperature measuring apparatus. A. J. Hornfeck. 2,350,329; June 6.
Tensiometer. H. J. Sang. 2,350,419; June 6.
Tent. I. Kantor. 2,350,684; June 6.
Thread controlling mechanism for sewing machines, Looper. E. Muecke. 2,350,965; June 6.
Tinned steel scrap, Treating. W. D. Norlander and R. L. Alldredge. 2,350,918; June 6.
Tire regrooving device. P. Stephens. 2,350,375; June 6.
Tool: *See*—
  Finishing tool.
  Fishing tool.
  Gear testing tool.
  Portable hand-held electric tool.
  Sheet holding tool.
Tool for cutting and threading pipe. T. D. Segeberg. 2,350,700; June 6.
Tool for cutting linoleum. O. W. Treadway. 2,350,945; June 6.
Tongs, Lifting. A. Petersen. 2,350,528; June 6.
Tool. H. E. Dickerman. 2,350,881; June 6.
Torch tips, Fabricating. J. L. Acord. 2,350,952; June 6.
Track for toy vehicles. E. Horn. 2,350,760; June 6.
Trailer dolly. E. C. McDaniel. 2,350,624; June 6.
Trailer, Wreck. H. J. Troche and J. H. Holan, Jr. 2,350,841; June 6.
Transfer process. G. Tagliabue. 2,350,840; June 6.
Transmission. V. Haigh. 2,350,506; June 6.
Transmitter, Keyboard facsimile. K. Winklemann. 2,350,855; June 6.
Transportation of finely divided solids. F. B. Hilmer and N. E. Peery. 2,350,759; June 6.
Trap: *See*—
  Fly trap.
Tread unit for endless tracks. F. E. Burgess. 2,350,444; June 6.
Trim for plumbing fixtures. J. C. McCarthy. 2,350,790; June 6.
Truck loader. W. Ruddock. 2,350,641; June 6.
Tube: *See*—
  Cathode ray tube.
Type for typewriting machines, perforation or printing as well as interpretation system for characters. R. Hofgaard. 2,350,893; June 6.
Typewriting and accounting machine. O. J. Sundstrand. 2,350,542; June 6.
Typewriting machine. J. N. Hoffman. 2,350,510; June 6.
Typewriting machine. C. D. Lake. 2,350,561; June 6.
Ultra short wave antenna system. J. F. Morrison. 2,350,916; June 6.
Ultra short wave apparatus. F. H. Kroger. 2,350,907; June 6.
Value printing die protection device. W. H. Wheeler, Jr., L. A. Thatcher and F. J. Rouan. 2,350,853; June 6.
Valve: *See*—
  Aeronautical fuel control valve.
  Drain valve.
  Fluid valve.
Valve-actuating means. S. Jackson. 2,350,763; June 6.
Valve for hot-water systems, Air-venting. J. Upton and W. T. Ferguson. 2,350,947; June 6.
Variable stroke pump. B. W. Grimsley. 2,350,678; June 6.
Vehicle: *See*—
  Combined land, air, and water vehicle.
Vehicle hitch. C. R. Bingham. 2,350,579; June 6.
Vehicle top operating mechanism. J. B. Parsons. 2,350,634; June 6.
Ventilated radio-shielded spark plug. M. F. Peters and D. Ingalls. 2,350,367; June 6.
Ventilator for buildings. J. H. Klunder. 2,350,771; June 6.
Vibrator. W. F. Purves and S. P. Harris. 2,350,817; June 6.
Vibratory device. H. B. Logan. 2,350,563; June 6.
Vitamin concentrates, Producing. H. B. Kellog and H. D. Hineline. 2,350,768; June 6.
Washer: *See*—
  Car washer.
Watchcase. M., P., and B. Taubert. 2,350,651; June 6.
Water heater. E. Esson. 2,350,597; June 6.
Water heater and the like. C. L. Dixon. 2,350,450; June 6.
Watt-hour meter base. S. S. Green. 2,350,395; June 6.
Wax bands, bearing a mechanical sound record, with graphite, and a device for carrying out this method, Coating. A. Woitscheck. 2,350,856; June 6.
Welding. E. A. Richardson. 2,350,532; June 6.
Welding apparatus. H. A. Bissout and W. Y. Borresen. 2,350,716; June 6.
Welding rod or electrode. C. Cito. 2,350,387; June 6.
Welding stinger. G. H. Thompson. 2,350,426; June 6.
Wheel and axle connection. W. G. Wright. 2,350,439; June 6.
Wheel suspension for vehicles. M. Wagner. 2,350,848; June 6.
Wheels, Forming and dressing grinding. M. Jellis. 2,350,897; June 6.
Winding device for retractable roofs. H. H. A. Heuer. 2,350,758; June 6.
Window molding. T. Ulrich. 2,350,430; June 6.
Window operator. A. Rappl. 2,350,957; June 6.
Window sash stopping device. D. G. Sell. 2,350,706; June 6.
Wing for aircraft with variable surface. G. Pelessoni. 2,350,809; June 6.
Wood, Compressed foliated. M. F. Crouet. 2,250,729; June 6.
Wood for preservative treatment, Conditioning. J. A. Vaughan. 2,350,845; June 6.
Work holder for boring and drilling machines. E. W. Pearson. 2,350,919; June 6.
Woven structure resistant to penetration by water under pressure. F. T. Peirce and W. C. Gardiner. 2,350,696; June 6.
Wringer. H. B. Fay. 2,350,342; June 6.
Wringer. C. W. Williams. 2,350,381; June 6.
Yarn. E. C. Geier and R. E. Semmler, 2,350,504; June 6.
Yarn guide. W. Reiners and S. Fürst. 2,350,928; June 6.
Zero elimination means. R. S. Goebel. 2,350,454; June 6.

CLASSIFICATION OF PATENTS

ISSUED JUNE 6, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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D80— 9: Des.138,020
D83— 1: Des.138,036
D85— 2: Des.138,058
Des.138,059
D86—10: Des.138,030

D86—10: Des.138,031
Des.138,044
D87— 3: Des.138,035
Des.138,049
D92— 1: Des.138,057

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Designs	52—No.	138,060 to No. 138,111, inclusive.
Total	784	

Adjudicated Patent

(D. C. Calif.) Holmes patent, No. 2,228,314, for balanced door construction, claims 1 to 5 and 10 to 12 *Held* valid and infringed. *Holmes* v. *Atlas Garage Door Co.*, 54 F. Supp. 368.

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Condition of Applications Under Examination at Close of Business May 27, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 45,902; Trade-Mark Division, 1,486. Oldest new case, June 23, 1943; oldest amended, July 3, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders: Baths, Closets, Sinks, and Spittons; Sewerage.	†Jan. 7	Dec. 10	414
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Nov. 17	Nov. 30	606
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Oct. 29	Oct. 19	973
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 22	Oct. 11	484
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 22	Sept. 20	1,098
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 7	Nov. 6	1,161
7. JARBOE, O. G., Optics, Photography	†Jan. 5	†Jan. 5	735
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	†Jan. 8	Nov. 4	504
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Dec. 20	Dec. 16	699
10. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Jan. 25	Dec. 27	258
11. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Sept. 24	Sept. 6	1,045
12. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Dec. 13	Dec. 14	559
13. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Jan. 26	†Jan. 20	654
14. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Dec. 14	Dec. 30	765
15. SPENCER, C. J., Telegraphy; Telephony	Dec. 24	Dec. 23	577
16. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 28	Sept. 26	523
17. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 14	July 3	869
18. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Dec. 2	Dec. 3	536
19. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	†Jan. 10	†Jan. 12	356
20. THOMPSON, T. J., Textiles	Dec. 17	Nov. 1	427
21. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Oct. 8	Oct. 8	1,117
22. BARROWS, B., Cash Registers; Calculators (part)	Oct. 19	Aug. 2	177
23. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 1	Dec. 8	526
24. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Nov. 9	Nov. 20	724
25. YOUNG, R. R., Electricity—Generation and Motive Power	Aug. 30	Sept. 9	926
26. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 16	Sept. 11	496
27. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Aug. 16	Sept. 13	715
28. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 6	Dec. 16	697
29. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Sept. 9	Sept. 7	1,042
30. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 17	Dec. 11	1,060
31. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 11	Nov. 13	621
32. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	†Jan. 5	†Jan. 10	641
33. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	†Jan. 3	†Jan. 7	540
34. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	†Jan. 24	Dec. 9	493
35. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 20	Dec. 28	428
36. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 23	Aug. 28	730
37. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Sept. 17	Sept. 30	494
38. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 13	Dec. 18	670
39. DRUMMOND, E. J., Receptacles (part); Packages	†Jan. 1	†Jan. 8	624
40. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 13	Sept. 14	426
41. MARANS, H., Electric Signaling	†Jan. 15	†Jan. 17	342
42. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Nov. 11	Oct. 18	766
43. HARVEY, L. P., Refrigeration; Preserving	Oct. 1	Oct. 2	408
44. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 13	Nov. 16	1,024
45. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Nov. 2	Nov. 2	491
46. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	†Jan. 27	Dec. 9	602
47. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Oct. 28	Nov. 2	798
48. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 11	Nov. 12	651
49. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Nov. 24	Nov. 24	1,393
50. CROCKER, A. W., Radiant Energy, Multiplex Telephony, Modulators	Oct. 19	Oct. 22	1,387
51. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Oct. 15	Oct. 29	762
52. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Oct. 25	Nov. 10	438
53. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 30	July 3	784
54. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Sept. 27	Oct. 4	650
55. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Nov. 8	Nov. 10	755
56. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 1	Oct. 12	750
57. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 29	Dec. 2	652
58. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 24	Oct. 6	1,365
59. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 20	Sept. 20	814
60. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Nov. 27	Nov. 29	465
61. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Jan. 3	Dec. 7	828
62. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 1	Sept. 1	930
63. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	†Jan. 11	†Jan. 10	1,028
64. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Aug. 7	Aug. 7	876
TRADE-MARKS: RICHMOND, F. A	†Apr. 4	†Apr. 10	1,486
DESIGNS: KALUPY, H. H	†Apr. 18	†May 5	554

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

GOODYEAR TIRE & RUBBER CO., INC., ET AL.

v.

RAY-O-VAC CO.

No. 262. Decided February 28, 1944

1. PATENT—SUIT FOR INFRINGEMENT—FINDINGS.
Held that it must be a strong case in which the Supreme Court will set aside concurrent findings as to validity and infringement by the district court and the circuit court of appeals.

2. SAME—VALIDITY AND INFRINGEMENT—ANTHONY PATENT No. 2,198,423.
The findings below accepted, and Anthony Patent No. 2,198,423, issued April 23, 1940, for a leakproof dry cell *Held* valid and infringed.

3. SAME—INVENTION.
"Viewed after the event, the means Anthony adopted seem simple and such as should have been obvious to those who worked in the field, but this is not enough to negative invention."

4. SAME—SAME—FACTORS ENTITLED TO WEIGHT.
"During a period of half a century, in which the use of flash light batteries increased enormously, and the manufacturers of flash light cells were conscious of the defects in them, no one devised a method of curing such defects. Once the method was discovered it commended itself to the public as evidenced by marked commercial success. These factors were entitled to weight in determining whether the improvement amounted to invention and should, in a close case, tip the scales in favor of patentability."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Seventh Circuit. Affirmed.

Mr. Justice BLACK dissenting with opinion in which Mr. Justice DOUGLAS and Mr. Justice MURPHY concur; Mr. Justice JACKSON also dissenting.

Mr. William E. Chilton and *Mr. Albert R. Golrick* (*Messrs. Fay, Golrick, Chilton & Isler* with them on the brief) for Goodyear Tire & Rubber Co., Inc., et al.

Mr. Bernard A. Schroeder and *Mr. Gerhard A. Gesell* (*Mr. Russell Wiles, Mr. Charles J. Merriam, Messrs. Chritton, Wiles, Davies, Schroeder & Merriam*, and *Messrs. Covington, Burling, Rublee, Acheson & Shorb* with them on the brief) for Ray-O-Vac Co.

Mr. Justice ROBERTS delivered the opinion of the Court.

This case involves the validity and alleged infringement of the Anthony Patent No. 2,198,423, issued April 23, 1940. The district court held the patent valid and infringed [1] and its judgment was affirmed by the circuit court of appeals.[2]

The patent, a very narrow one in a crowded art, is for a leakproof dry cell for a flash light battery. The conventional dry cell embodies a cup-like zinc electrode acting as a container for a central carbon electrode, electrolyte, and depolarizing mix. The bottom enclosure is the terminal for one electrode, the top enclosure for the other. The electrolyte is a viscous liquid composed of ammonium chloride, zinc chloride, water and starch. Use of the battery causes erosion of the zinc and eventually the mixture leaks through the container. A short circuit, or long continuous use, causes the formation of solids as the zinc is eaten away. The resultant expansion of the cell contents, due to the weakness of the zinc walls, causes bulging, breaking, and seepage. The escaping liquid tends to injure the metal walls of the flash light casing.

Dry cells have been used in flash lights for many years. The tendency of the cells to damage flash light containers by leakage, bulging, and freezing in the container had long plagued the industry. So much so that most manufacturers attached warning notices to their flash light batteries advising users not to allow them to remain in the flash light for extended periods of non-use and to remove a cell promptly upon ascertaining that it was dead.

No patent in the prior art addressed itself to the problem of preventing both leakage and swelling in a dry cell. At the time of the Anthony application flash light cells were commonly encased in a paper coating which might or might not be waterproofed, or in some other similar casing for purposes of insulation from the case. In the patent in suit Anthony calls attention to the existing difficulties and states that his invention is for an improved protective casing which will prevent fluids from leaking out of the cell and causing injury to the case or other dry cells within it. He also adverts to the tendency of the cells to swell after a certain time and associates this swelling with the leaking. He states that the object of his invention is to protect the side walls of the zinc cup by providing a strong metal sheath which will closely and rigidly confine the cell to a given length and diameter and, while providing such a sheath, to insulate it from both terminals so as to render unnecessary the use of an insulating cover or label to prevent the cell from short circuiting by contact with the side walls of the case. To accomplish his objects Anthony used the ordinary type of dry cell having circuit terminals at opposite ends, one electrode being a cylindrical zinc cup, the other a centrally placed carbon electrode, in electrolyte and depolarizing mix, the bottom closure affording a terminal for one electrode and the top for the other. Around this conventional combination he placed an insulating material and an outside protecting metal sheath which would enclose the insulated side walls of the zinc cup and tightly embrace both upper and lower closures to prevent leakage.

[1] 45 F. Supp. 927.
[2] 136 F.(2d) 159.

The claims in suit are Nos. 1, 2, and 3. If 1 is good, 2 and 3 are also. We, therefore, quote 1:

"A leak-immunized flash light dry-cell provided with circuit terminals at opposite ends, comprising: a hollow cylindrical zinc metal electrode containing electrolyte; a centrally disposed carbon electrode and depolarizing-mix in said electrolyte; a bottom closure for the cell affording a terminal for one of the electrodes; a top closure for the cell provided with a terminal for the other electrode, electrically insulated from the first mentioned terminal; and a protecting sheet-metal sheath insulated from both of said electrodes and enclosing the side walls of said metal electrode and tightly embracing said closures so as to prevent leakage of the electrolyte from the unit."

The District Judge made findings, which have support in the evidence, to the following effect: That the problem presented was old and no solution was attained prior to Anthony's invention; that the respondent began marketing the patented cell in 1939 and was the first to guarantee its product against sticking in the flash light case; that the cell met with immediate commercial success due to the advantages of its construction and not to extensive advertising; that its advantages were recognized by the Army and other governmental agencies and were demonstrated by reliable tests. In his opinion he examined the prior art and showed that none of the workers in the art had met the problems of leakage and swelling in the way suggested by Anthony and that most of the cited patents had not in fact been addressed to these problems.

With respect to the charge of infringement, the court found, on sufficient evidence: That the petitioners consciously copied the respondent's commercial cell, which was made in accordance with the claims of the patent; that the petitioners' cell infringed the claims in suit, since the petitioners' substitutions of structure and material were no more than the choice of mechanical alternatives and did not avoid the practice of the principle disclosed by the patent.

[1] The circuit court of appeals reexamined the findings in the light of the evidence and accepted them. It must be a strong case in which this court will set aside these concurrent findings of two courts.[3] We think this is not such a case.

[2][3][4] Viewed after the event, the means Anthony adopted seem simple and such as should have been obvious to those who worked in the field, but this is not enough to negative invention.[4] During a period of half a century, in which the use of flash light batteries increased enormously, and the manufacturers of flash light cells were conscious of the defects in them, no one devised a method of curing such defects. Once the method was discovered it commended itself to the public as evidenced by marked commercial success. These factors were entitled to weight in determining whether the improvement amounted to invention and should, in a close case, tip the scales in favor of patentability.[5] Accepting, as we do, the findings below, we hold the patent valid and infringed.

The petitioners renew here contentions, based on asserted insufficiency of description of the invention and on alleged file-wrapper estoppel, which the courts below overruled. We have considered these defenses but conclude that the proofs do not sustain them.

Decree affirmed.

Mr. Justice BLACK, (dissenting):

Those who strive to produce and distribute goods in a system of free competitive enterprise should not be handicapped by patents based on a "shadow of a shade of an idea." *Atlantic Works* v. *Brady*, 107 U. S. 192, 200. The practice of granting patents for microscopic structural or mechanical improvements inevitably must reduce the United States Patent Office to a mass production factory for unearned special privileges which serve no purpose except unfairly to harass the honest pursuit of business. If the patentee here has "discovered" anything, it is that the creamy substance in a dry cell will not leak through a steel jacket which covers and is securely fastened to the ends of the cell. For that alleged discovery this patent is today upheld. I do not deny that someone, somewhere, sometime, made the discovery that liquids would not leak through leak-proof solids. My trouble is that, despite findings to the contrary,[6] I cannot agree that this patentee is that discoverer. My disagreement is not based solely on the narrow ground that the record shows previous patents have been issued to others who put jackets of metal and other substances around dry cells. Antiquarians tell us that the use of solid containers to hold liquids predated the dawn of written history. That the problem of the quality and strength of the walls of such containers was one to which ancient people turned their attention appears from the widespread currency at an early age of the maxim that "new wine should not be put in old bottles." It is impossible for me to believe that Congress intended to grant monopoly privileges to persons who do no more than apply knowledge which has for centuries been the universal possession of all the earth's people—even those of the most primitive civilizations.

Mr. Justice DOUGLAS and Mr. Justice MURPHY concur in this opinion.

[3] *Williams Co.* v. *United Shoe Machinery Corp.*, 541 O. G. 3, 316 U. S. 364, 367.

[4] *Loom Company* v. *Higgins*, 21 O. G. 2031, 105 U. S. 580, 589, 591; The Barbed Wire Patent, 58 O. G. 1555, 143 U. S. 275, 277, 283; *Krementz* v. *S. Cottle Co.*, 69 O. G. 241, 148 U. S. 556; *Expanded Metal Co.* v. *Bradford*, 143 O. G. 863, 214 U. S. 366, 381; *Diamond Rubber Co.* v. *Consol. Tire Co.*, 166 O. G. 251, 220 U. S. 428, 434–435.

[5] *Smith* v. *Goodyear Dental Vulcanite Co.*, 11 O. G. 246, 93 U. S. 486, 495–6; *Magowan* v. *New York Belting Co.*, 57 O. G. 845, 141 U. S. 332, 343; *Topliff* v. *Topliff*, 59 O. G. 1297, 145 U. S. 156, 163, 164; *Keystone Mfg. Co.* v. *Adams*, 66 O. G. 654, 151 U. S. 139, 143; *Potts* v. *Creager*, 70 O. G. 494, 155 U. S. 597, 609; *Minerals Separation, Ltd.* v. *Hyde*, 234 O. G. 1311, 242 U. S. 261, 270; *Smith* v. *Snow*, 451 O. G. 487, 294 U. S. 1, 7, 14; *Paramount Corp.* v. *Tri-Ergon Corp.*, 452 O. G. 701, 294 U. S. 464, 474.

[6] This Court in 1884 declared that "whether the thing patented amounts to a patentable invention" is a question of law to be decided by the courts. *Mahn* v. *Harwood*, 30 O. G. 657, 112 U. S. 354, 358. On numerous occasions both before and since that case, this Court has invalidated patents on the ground that the alleged discoveries failed to measure up to the legal standards for invention. See cases collected United States Supreme Court Digest (West 1943), Vol. 11, Patents, Par. 16–74.

Mr. Justice JACKSON is of opinion the judgment below should be reversed for the reason that, invention being doubtful, the court of appeals relied upon commercial success of the product without adequate findings or evidence as to whether such alleged success was due to the product or to the phenomenal increase in demand due to the war and to the advantages of marketing contracts with mail-order houses.

U. S. Court of Appeals for the District of Columbia

KISTLER

v.

COE, COMMISSIONER OF PATENTS

No. 8,517. Decided April 10, 1944

PATENTABILITY—DOUBLE PATENTING.

The claims of appellant's application, directed to a method of thermally insulating structures by providing an enclosed space substantially surrounding the structure and filling the space with an inorganic aerogel, such as silica aerogel, and to the thermally insulated structures thereby produced *Held* to define no invention over the claims of appellant's patent, issued upon a copending application, drawn to aerogel.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Harold T. Stowell (*Mr. J. Russell Wilson* of counsel) for Kistler.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

Before GRONER, Chief Justice, and MILLER and ARNOLD, Associate Justices

MILLER, *A. J.*:

In October, 1934, appellant applied for a patent upon a material known as aerogel and a patent was granted upon the claims of that application in September, 1937. In April, 1937, five months before the issuance of the patent on his aerogel material, appellant filed a new application, claiming invention of

"a method of thermally insulating structures by providing an enclosed space substantially surrounding the structure and filling the space with an inorganic aerogel, such as silica aerogel, and to the thermally insulated structures thereby produced."

In substance, therefore, what appellant seeks to cover with the monopoly of a patent is the method of putting his aerogel into spaces between outer and inner walls, such as those of buildings and refrigerators, for insulating purposes; as well as the buildings and refrigerators so insulated. The Patent Office rejected this ambitious proposal, as did the district court, for lack of invention. We agree with the Patent Office and with the district court.

In response to the finding of the district court, that the claims here involved defined no invention over appellant's aerogel patent, he concedes that what he claims to be invention, in the present case, is disclosed in the patent issued to him on September 21, 1937. But he urges that the finding does not justify rejection of the disputed claims because he did not claim the alleged later invention in his earlier application. Specifically, he says:

"None of the claims [of his patent] are directed to a heat-insulating *structure* or to a *method* of making such structure." [Italics supplied.]

But this fact does not entitle appellant to a patent in the present case. The claims of his earlier application did disclose all that was inventive in character and he received a patent therefor. Methods of constructing insulated buildings, refrigerators, thermos bottles, and other such articles, have been long known and the interest of the public would certainly not be served by granting to anyone a patent covering either such methods or the structures themselves. The record fully supports the findings and judgment of the trial court,[1] and there is no merit in any contention made by appellant on this appeal.

Affirmed.

[1] *Abbott* v. *Coe*, 71 App. D. C. 195, 197–198, 109 F.(2d) 449, 451–452, 512 O. G. 3; *Daniels* v. *Coe*, 73 App. D. C. 54, 58, 116 F.(2d) 941, 945, 521 O. G. 787; *Morrison* v. *Coe*, 75 U. S. App. D. C. 219, 220, 127 F.(2d) 737, 738, 537 O. G. 269.

U. S. Court of Customs and Patent Appeals

IN RE BARR

No. 4,835. Decided February 7, 1944

[140 F.(2d) 991]

PATENTABILITY—PRESERVATION OF BIOLOGICALLY ACTIVE SUBSTANCES.

Certain claims to a method and apparatus for preservation of biologically active substances *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Pennie, Davis, Marvin & Edmonds (*Mr. C. M. Fisher* and *Mr. R. T. McLean* of counsel) for Barr.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner finally rejecting claims 1, 5, and 7 to 16, inclusive, of appellant's application for patent on method and apparatus for preservation of biologically active substances. Four claims stand allowed.

The specification recites that

"such substances as sera, protein solutions, bacterial cultures, pharmaceutical and glandular substances, viruses and other labile biological substances"

are included, and it is stated that the application

relates more particularly to improvements in processes and apparatus for sealing such substances in final containers under high vacuum after desiccating such substances by freezing them and removing water under a high vacuum.

We quote the following general description from the brief of the Solicitor for the Patent Office:

The process disclosed by appellant's application * * * comprises freezing the material to be treated and removing the water from it by evaporation in a vacuum while the material is in a frozen condition. In carrying out this process the frozen material, in bottles, is placed in a vacuum chamber and stoppers for the bottles are supported immediately above them by means of an adjustable plate. When the vacuum treatment has been completed, the plate is lowered to force the stoppers into the bottles. Heat is supplied to the vacuum chamber in regulated amounts, to facilitate the evaporation.

Claims Nos. 1, 9, 10, 11 and 15 are directed to the apparatus; the others to the process.

Claims Nos. 1 and 5 seem fairly to illustrate the claimed invention. They read:

1. Apparatus adapted for the production of desiccated biologically active and other material sealed in evacuated containers comprising a chamber adapted to be hermetically sealed provided with an outlet through which the chamber may be evacuated and with a removable wall section, means within said chamber to support a plurality of containers in fixed positions, means within said chamber to support a perforable stopper above each said container, and externally actuated means for introducing said stoppers into the necks of the containers, and for forcing them into tight engagement therewith to effectively seal the containers.

5. The process of producing desiccated biologically active and other substances in evacuated final containers provided with perforable stoppers which comprises introducing a large number of containers provided with open necks and containing frozen material to be desiccated into a chamber, sealing such chamber, producing a high vacuum within the chamber whereby water is removed from the frozen material, introducing a perforable stopper into the neck of each container and forcing such stoppers into tight engagement therewith, simultaneously and without breaking the vacuum.

The references cited are: Shipley, 111,264, Jan. 24, 1871; Tapscott, 649,012, May 8, 1900; Taylor, 1,340,921, May 25, 1920; Van Doren, 1,451,351, Apr. 10, 1923; Smith, 1,718,603, June 25, 1929; and Reichel, 2,066,302, Dec. 29, 1936.

It appears that of the reference patents cited, that to Reichel is the only one which relates to a biological. As stated in the brief of the Solicitor for the Patent Office, it

> * * * discloses a method of treating biologically active substances which comprises freezing them, evaporating the water from them in a vacuum, while they are still frozen, and applying heat to facilitate the evaporation. The flasks containing the material may be sealed in an evacuated state.

The Smith patent relates to pharmaceuticals, more specifically to ampules for use in mixing drugs. It shows a receptacle having a stopper, preferably of rubber, adapted to be perforated to permit the removal of material, the mouth of the container being flame-sealed above the stopper.

The Shipley patent discloses apparatus and process for canning and preserving meats, fruits, vegetables, etc. It shows bottles which are held in a fixed position with their tops in a vacuum chamber, corks fitting loosely in the tops. After the atmosphere is exhausted from the bottles the corks are pressed tightly into them, while in the vacuum, by a movable head actuated by a screw.

The Tapscott patent discloses apparatus for seating and sealing covers of receptacles, such as cans and jars, used in canning processes. The receptacles are held in fixed positions in a vacuum chamber, the closures for them being held directly above them by a plate movable from outside the chamber by means of a screw. When the air has been evacuated from the receptacles the plate is moved downwardly and forces the covers simultaneously over the mouth of the receptacle.

Taylor and Van Doren disclose apparatus for forcing closures into receptacles.

The patent to Taylor relates particularly to treating and canning milk, and his operation is carried out in a vacuum.

The patent to Van Doren relates to apparatus for bottling liquids and illustrates a method of sealing by insertion of the stopper. Nothing is said in his patent of the operation being carried out in a vacuum.

In the statement of the Examiner following the appeal to the Board, the claims were, in effect, divided into groups, or classes, and that arrangement was followed by the Board.

Claims Nos. 1 and 15 (apparatus claims) were grouped together and rejected as unpatentable over Tapscott.

Claims Nos. 9, 10, and 11 (the remaining apparatus claims) were rejected as unpatentable over Shipley, "especially in view of Reichel."

Process claims Nos. 5, 7, and 8 were held unpatentable over Reichel in combination with Tapscott. The Examiner also held this group unpatentable over either Taylor, Shipley or Tapscott in view of Reichel and Smith. Of the latter rejection the Board said it "may be considered cumulative." The Examiner also included claim No. 6 in the foregoing group, but his rejection of that claim was reversed by the Board and it stands allowed.

Process claims Nos. 12, 13, 14, and 16 were rejected by the Examiner "on the references and reasons cited against claims 5 to 8 taken with the remarks noted against 9 in reference to the heat," with the further statements, "Reichel regulates the supply of heat" and "The material in Shipley and Taylor is out of contact with the chamber walls," and this ground was approved by the Board.

It is conceded by appellant that the "underlying" process involved is disclosed by the patent to Reichel. The specification of his application states:

> Insofar as the process of freezing and removing the water is concerned, the process which is advantageously used is one described in the Reichel Patent 2,066,302, with freezing of the material by indirect exposure to a refrigerant maintained at —70° C. or lower, and with condensation of the water vapor removed under the influence of a high vacuum by exposure to a refrigerant maintained at a similarly low temperature * * *.

Appellant's brief states:

> The underlying process is described in the Reichel Patent 2,066,302 * * *. The present invention is directed to improvements in process and apparatus for carrying out the procedure which permit its practical application to the large scale processing of biologicals at a feasible cost and in a useful volume, with the final product sealed within a container.

The brief further states:

> Neither the Examiner nor the Board of Appeals regarded the claims on appeal as anticipated. The Examiner rejected them as unpatentable over the various references, that is, as lacking invention, and the viewpoint of the Board of Appeals was the same.
>
> Our position is that from the standpoint of both the process and the apparatus claims, the differences in structure and procedure between the subject matter of the claims and that of the prior art was given insufficient weight by the Patent Office tribunals, that is, these tribunals erred as a matter of law in failing to give due weight, on the question of patentable novelty, to both differences in structure or procedure and differences in materials treated. We do not assert that these patents belong to a non-analogous art, in which case they could be used neither as primary nor secondary references, but that differences in structure and procedure, between the claims and the references, must be evaluated in the light of the differences in material treated by the patentees and the appellant.
>
> The real question presented is whether one skilled in the art, with the description of the Reichel patent before him, would find in the other patents to which the Patent Office tribunals have referred sufficient suggestion to use the processes and apparatus of the claims on appeal to warrant saying that all that appellant did was apply the skill of his art to the problem.

The foregoing is followed by an elaborate argument in which the various features of the several references are set forth and the differences between the apparatus features of the prior patents and those of appellant's application are pointed out in detail.

So far as the process claims are concerned, we are wholly unable to discern wherein they differ in any patentable sense from the process disclosed by Reichel. Appellant is concerned with the same substances covered by the Reichel patent. He uses the same process of freezing and removing the water from the material which Reichel discloses, and, like Reichel, seals the flasks of material in a vacuum. The following statement in the brief of the Solicitor for the Patent Office is regarded as apt:

> The appellant's contribution to the art * * * is merely a specific arrangement for sealing the flasks or other containers used in the Reichel process. This problem of sealing is entirely independent of the specific nature of the material in the containers and of the specific temperature conditions to which such material is subjected. It is simply a matter of applying tight closures simultaneously to a number of containers in a vacuum, without disturbing the vacuum condition.

With respect to the apparatus claims, it is true that the respective tribunals of the Patent Office did not hold them to be specifically anticipated by the disclosures of the prior art as expressed in the apparatus disclosures of the patents cited. In effect, those tribunals held that, in view of the features disclosed in such prior art, no invention over them is involved in appellant's disclosure.

With that holding we agree.

All the pertinent features of the prior art alluded to have been set forth above and they here may be compared with the apparatus features of appellant's disclosure.

Tapscott's mechanism was designed for pressing covers over the mouths of receptacles located in a vacuum. Appellant's mechanism is designed for pressing stoppers into the mouths of receptacles located in a vacuum. In operation, the mechanisms work in much the same manner. Tapscott closes the mouths of his receptacles by forcing covers over them; appellant closes the mouths of his receptacles by forcing stoppers into them. Neither the covers of Tapscott nor the stoppers of appellant constitute any part of either's apparatus. Furthermore, Shipley and Taylor disclose mechanisms for forcing stoppers into the mouths of receptacles in a vacuum chamber. It is true that Shipley shows only the mouths of the receptacles inserted in the vacuum chamber, while appellant's receptacles are wholly within such chamber, but in the case of Taylor his cans are wholly within the vacuum. It is also true that Shipley shows the use of corks which are not perforated for closures and Taylor shows nonperforated closure features designated as caps, the material not being named, while appellant shows the use of "perforable stoppers, such as rubber stoppers." But, as stated, the stoppers form no part of the apparatus, and, aside from this, the patent to Smith shows a stopper, preferably rubber, adapted to be perforated.

We do not overlook the fact that appellant's apparatus is designed for the treatment, as described, of substances which differ from the substances treated by the various patentees (except Reichel whose patent does not seem to embrace any apparatus claims) and that necessarily he had to modify the features shown in combination in those patents, but we are unable to agree that the modifications so made constituted invention, or that the question of the patentability of the apparatus claims should be determined upon the basis of the material which goes into the receptacles, or influenced by the specific process with which the apparatus is used.

For the reasons stated, the decision of the Board is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,284,687, F. A. Howard, Process for the extraction of lighter hydrocarbons from heavier hydrocarbons and especially of gasolene and other products from kerosene, filed May 3, 1944, D. C., S. D. N. Y., Doc. 25/416, *J. D. Driscoll et al.* v. *The Howard-Vaughan Co., Inc., et al.*

1,614,136 (*a*), M. C. Latour, Thermionic amplifying apparatus; Re. 16,461, same, Audion or lamp relay or amplifying apparatus; 1,710,035, R. E. Thompson, Sound reproducing instrument; 1,755,114, L. A. Hazeltine, Uni-control signaling system; 1,755,115, same, Variable condenser; 1,833,085, V. C. Macnabb, Volume control; 1,857,055, W. A. MacDonald, Coupling system; 1,904,185, H. A. Wheeler, Low frequency amplifier; 1,934,940, J. M. Miller, Radio receiving apparatus; 1,951,685, H. A. Wheeler, Peak detector; 1,958,027, same, Emission valve modulation system; 2,007,253, W. A. MacDonald, Wave signaling system; 2,015,327, H. A. Wheeler, Electron discharge device; Re. 19,744, same, Volume control; 2,021,692, H. M. Lewis, Short wave receiver; 2,041,273, H. A. Wheeler, Amplifier volume control; 2,041,291, J. K. Johnson, Detector circuit; 2,048,528, H. A. Wheeler, Low frequency amplifier; Re. 20,400, H. M. Lewis, Short wave converter; 2,111,483, C. E. Trube, Electric coupling system, D. C. Del., Doc. 194, *The Crosley Corp.* v. *Hazeltine Corp.* Order dismissing complaint May 5, 1944.

1,614,136 (*b*), M. C. Latour, Thermionic amplifying apparatus; Re. 16,461, same, Audion or lamp relay or amplifying apparatus; 1,755,114, L. A. Hazeltine, Uni-control signaling system; 1,755,115, same, Variable condenser; 1,833,085, V. C. Macnabb, Volume control; 1,857,055, W. A. MacDonald, Coupling system; 1,904,185, H. A. Wheeler, Low frequency amplifier; 1,913,604, 2,022,514, W. A. MacDonald, Wave signaling system; 1,934,940, J. M. Miller, Radio receiving apparatus; 1,951,685, H. A. Wheeler, Peak detector; 1,958,027, same, Emission valve modulation system; 2,007,253, W. A. MacDonald, Wave signaling system; 2,015,327, H. A. Wheeler, Electron discharge device; 2,021,692, H. M. Lewis, Short wave receiver; 2,041,273, H. A. Wheeler, Amplifier volume control; 2,041,291, J. K. Johnson, Detector circuit; 2,048,528, H. A. Wheeler, Low frequency amplifier; Re. 20,400, H. M. Lewis, Short wave converter; 2,111,483, C. E. Trube, Electric coupling system, D. C. Del., Doc. 195, *Emerson Radio & Phonograph Corp.* v. *Hazeltine Corp.* Order dismissing complaint May 5, 1944.

1,710,035. (See 1,614,136 (*a*).)

1,710,035, R. E. Thompson, Sound reproducing instrument, D. C., S. D. Ohio, W. Div., Doc. 276, *Hazeltine Corp.* v. *The Crosley Corp.* Dismissed May 1, 1944.

1,755,114. (See 1,614,136 (*a*) and (*b*).)

1,755,114, L. A. Hazeltine, Uni-control signaling system; 1,755,115, same, Variable condenser, D. C., S. D. Ohio, W. Div., Doc. 277, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

1,755,115. (See 1,614,136 (*a*), (*b*), and 1,755,114.)

1,810,112, E. Riemenschneider, Process for welding metal tubing; 1,948,801, 2,139,771, same, Method and apparatus for welding; 2,061,671, same, Apparatus for welding; 2,189,326, same, Arc welding system, filed May 10, 1944, D. C., W. D. Mich., S. Div., Doc. 413, *Midland Steel Products Co.* v. *Clark Equipment Co.*

1,833,085. (See 1,614,136 (*a*) and (*b*).)

1,833,085, V. C. Macnabb, Volume control; 1,934,940, J. M. Miller, Radio receiving apparatus, D. C., S. D. Ohio, W. Div., Doc. 280, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

1,857,055. (See 1,614,136 (*a*) and (*b*).)

1,890,426, V. C. Macnabb, Radio receiving system; 2,007,253, W. A. MacDonald, Wave signaling system; 2,021,692, H. M. Lewis, Short wave receiver; Re. 20,400, same, Short wave converter, D. C., S. D. Ohio, W. Div., Doc. 281, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

1,904,185. (See 1,614,136 (*a*) and (*b*).)

1,904,185, 2,048,528, H. A. Wheeler, Low frequency amplifier, D. C., S. D. Ohio, W. Div., Doc. 278, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

1,913,604. (See 1,614,136 (*b*).)

1,934,940. (See 1,614,136 (*a*), (*b*), and 1,833,085.)

1,948,801. (See 1,810,112.)

1,951,685. (See 1,614,136 (*a*) and (*b*).)

1,951,685, H. A. Wheeler, Peak detector, D. C., S. D. Ohio, W. Div., Doc. 275, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

1,958,027. (See 1,614,136 (*a*) and (*b*).)

1,965,165, B. Wilson, Window frame construction, D. C., E. D. La. (New Orleans), Doc. E 528, *B. L. Wilson* v. *Singer Lumber Co., Inc., et al.* Stipulation dismissing suit May 2, 1944.

1,990,584, N. L. Dolbey, Coating machine; 1,990,585, same, Coating process, filed May 1, 1944, D. C., S. D. N. Y., Doc. 25/396, *Keasbey & Mattison Co. et al.* v. *Fibrespray Corp.*

1,990,585. (See 1,990,584.)

2,007,253. (See 1,614,136 (*a*), (*b*), and 1,890,426.)

2,015,327. (See 1,614,136 (*a*) and (*b*).)

2,021,692. (See 1,614,136 (*a*), (*b*), and 1,890,426.)

2,022,514. (See 1,614,136 (*b*).)

2,031,036, C. G. Dreymann, Composition of matter and method of its production, D. C. Mass., Doc. 1128, *Grant Paper Box Co.* v. *Russell Box Co.* Judgment for defendant Apr. 21, 1944.

2,041,273. (See 1,614,136 (*a*) and (*b*).)

2,041,273, H. A. Wheeler, Amplifier volume control, D. C., S. D. Ohio, W. Div., Doc. 279, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

2,041,291. (See 1,614,136 (*a*) and (*b*).)

2,048,528. (See 1,614,136 (*a*), (*b*), and 1,904,185.)

2,061,671. (See 1,810,112.)

2,087,480. (See Re. 22,301.)

2,093,735, W. O. Prouty, Ultra violet light source, D. C. Mass., Doc. 1776, *Westinghouse Electric & Mfg. Co.* v. *Raytheon Mfg. Co. et al.* "Dismissed by plaintiff" Apr. 17, 1944.

2,111,483. (See 1,614,136 (*a*) and (*b*).)

2,111,483, C. E. Trube, Electric coupling system, D. C., S. D. Ohio, W. Div., Doc. 274, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

2,139,771. (See 1,810,112.) 2,183,894. (See 2,195,803.)

2,189,326. (See 1,810,112.)

2,195,803, A. F. Willat, Method of waving hair; 2,266,111, same, Permanent waving of hair; 2,183,894, D. J. Pye, Cold permanent waving of hair, D. C., N. D. Calif., S. Div., Doc. 22351–S, *Heatless Permanent Wave Co. et al.* v. *City of Paris Drygoods Co.* Complaint dismissed Apr. 27, 1944.

2,266,111. (See 2,195,803.)

2,269,904, C. N. Erickson, Resuscitator-aspirator-insufflator, D. C. Mass., Doc. 2037, *C. N. Erickson* v. *J. H. Emerson et al.* Claims 8 and 16 held invalid for want of invention, complaint dismissed Apr. 10, 1944.

Re. 16,461. (See 1,614,136 (*a*) and (*b*).)

Re. 19,744. (See 1,614,136 (*a*).)

Re. 19,744, H. A. Wheeler, Volume control, D. C., S. D. Ohio, W. Div., Doc. 273, *Hazeltine Corp.* v. *The Crosley Corp.* Order dismissing cause May 1, 1944.

Re. 20,400. (See 1,614,136 (*a*), (*b*), and 1,890,426.)

Re. 22,221, R. E. Mayo, Air-conditioned tobacco barn, filed May 3, 1944, D. C., E. D. N. C. (New Bern), Doc. 135, *Florence-Mayo Nuway Co.* v. *C. L. Hardy Curing Corp.*

Re. 22,301 (of 2,087,480), E. C. Pitman, Cementing process, filed May 2, 1944, D. C. Del., Doc. 414, *The Girdler Corp.* v. *E. I. du Pont de Nemours & Co.*

Re. 22,454, Wiegand & Venuto, Carbon black and the process of making same, filed May 3, 1944, D. C. Md., Doc. 2219, *United Carbon Co., Inc.*, v. *The Carbon Black Research Foundation, Inc.* Same, filed May 10, 1944, D. C. Md., Doc. 2237, *The Carbon Black Research Foundation, Inc.*, v. *United Carbon Co., Inc.*

Des. 105,529, E. Kelly, Bottle, filed May 5, 1944, D. C. Md., Doc. 2231, *G. N. Mas* v. *The Coca-Cola Co.*

Des. 125,002, Des. 135,508, B. Mildwoff, Table, filed May 5, 1944, D. C., S. D. N. Y., Doc. 25/433, *New Era Glass Co.* v. *Artistic Modern Furniture Co.*

Des. 131,392, S. Kuznetz, Dress ensemble, D. C., S. D. N. Y., Doc. 18/24, *Lipman Bros.* v. *Edwin Frocks.* Stipulation of discontinuance (notice May 3, 1944).

Des. 131,896, A. J. Ostriker, Textile fabric, D. C., S. D. N. Y., Doc 18/210, *Duplex Fabrics Corp.* v. *Try-Us Textile Processing, Inc.* Stipulation of discontinuance May 3, 1944.

Des. 132,104, R. L. Morton, Doll cradle, D. C., N. D. Ala., S. Div., Doc. 5521, *R. L. Morton* v. *A. Sachs.* Consent decree enjoining defendant from infringing May 5, 1944.

Des. 135,508. (See Des. 125,002.)

Des. 136,738, H. U. Dernehl, Toy machine gun, D. C., E. D. Wis. (Milwaukee), Doc. 1284, *Kirby-Cogeshall-Steinau Co.* v. *G. M. P. Corp. et al.* Patent held valid and infringed (notice May 4, 1944).

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 13, 1944

[VOL. 563. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 466,330. THE KEARNS COAL COMPANY, Cincinnati, Ohio. Filed Jan. 5, 1944.

Liberator
HIGH VOLATILE COAL

The words "High Volatile Coal" are disclaimed apart from the mark.

FOR HIGH VOLATILE COAL.
Claims use since Nov. 19, 1943.

Ser. No. 468,789. GARCO PRODUCTS, INC., Conoquenessing, Pa. Filed Mar. 29, 1944.

GARTEX

FOR COMMINUTED MIXTURE OF SILICA AND GLASS HAVING PROPERTIES WHICH ADAPT IT AS A FILLER FOR COMPOUNDED RUBBER, PAINT, PLASTICS, AND SIMILAR MATERIALS.
Claims use since May 11, 1939.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 464,086. KNIGHT LEATHER PRODUCTS CO. INC., Boston, Mass. Filed Oct. 12, 1943.



Applicant disclaims the words "Lounge Wallet" and "Leather" apart from the mark.
FOR WALLETS.
Claims use since Mar. 1, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 464,451. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Oct. 27, 1943.

W. S.

FOR LEATHER OIL.
Claims use since Aug. 27, 1943.

Ser. No. 465,885. SAMUEL ALBERT, New York, N. Y. Filed Dec. 20, 1943.

PEROXOTONE

FOR SHAVING CREAM.
Claims use since Mar. 12, 1932.

Ser. No. 467,861. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa. Filed Feb. 29, 1944.

DIANOL

FOR CLEANING, CLEANSING, AND WETTING MATERIALS, PARTICULARLY ADAPTED FOR SCOURING AND WASHING TEXTILE FIBRES AND FABRICS, BUT NOT LIMITED THERETO.
Claims use since November 1939.

Ser. No. 468,159. K. J. QUINN & CO. INC., Boston, Mass. Filed Mar. 10, 1944.

CUSTOMIZE

FOR PREPARATION IN PASTE OR SEMI-PASTE FORM TO BE APPLIED TO LEATHER AS A DRESSING, POLISH, AND FINISH THEREFOR.
Claims use since January 1939.

Ser. No. 468,679. NEW YORK GRINDING WHEEL CORPORATION, New York, N. Y. Filed Mar. 25, 1944.

PEKAY BUFFER

The word "Buffer" is disclaimed apart from the mark.
FOR ABRASIVE GRINDING WHEELS AND POLISHING WHEELS.
Claims use since Jan. 1, 1944.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 463,655. PHELAN-FAUST PAINT MFG. COMPANY, St. Louis, Mo. Filed Sept. 25, 1943.

KEMA★TOX

Applicant disclaims the word "Tox" apart from the mark. The drawing is lined for red.
FOR CHEMICAL PREPARATION FOR USE IN THE CONTROL OF TERMITES.
Claims use since July 1943.

Ser. No. 467,051. SULQU CHEMICAL COMPANY, Kansas City, Mo. Filed Jan. 31, 1944.

Sulqu

FOR REMEDY FOR INDIGESTION, RHEUMATISM, STOMACH AND KIDNEY DISORDERS.
Claims use since Nov. 1, 1915.

Ser. No. 467,444. BIOCHEMICAL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 16, 1944.



FOR PHARMACEUTICAL PREPARATIONS TO STIMULATE OVARIAN ACTIVITY AND FOR USE IN CONNECTION WITH OLIGOMENORRHEA, DYSMENORRHEA, AMENORRHEA, CASTRATION, MENOPAUSE, DELAYED PUBERTY.
Claims use since May 1941.

Ser. No. 467,759. KINETIC CHEMICALS, INC., Wilmington, Del. Filed Feb. 25, 1944.

F-22

FOR MONOCHLORODIFLUOROMETHANE, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS AND FIRE EXTINGUISHING PREPARATIONS.
Claims use since Jan. 14, 1944.

Ser. No. 467,852. GRACE V. NEFF, Chicago, Ill. Filed Feb. 29, 1944.



The name "Kate Greenaway" is the name of the famous English artist, author, and illustrator, deceased.
FOR PERFUMES, TOILET WATER, AND COLD CREAM.
Claims use since Dec. 3, 1943.

Ser. No. 468,233. E. J. EDDY, doing business as The Eddy Co., Long Beach, Calif. Filed Mar. 13, 1944.

CY'S RUB

No claim is made to the word "Rub" apart from the mark.
FOR LINIMENT FOR THE RELIEF OF MUSCULAR PAINS, PINCHED NERVES, SPRAINS, AND BRUISES.
Claims use since Feb. 28, 1944.

Ser. No. 468,336. WILMA M. BOSTON, Detroit, Mich. Filed Mar. 16, 1944.

VALERIA'S

FOR HAIR GROWER.
Claims use since 1937.

Ser. No. 468,419. FLOYD J. RUPERT, doing business as Detona Medicine Co., Columbus, Ohio. Filed Mar. 18, 1944.

DETONA

FOR LAXATIVE MEDICINAL COMPOUNDS.
Claims use since April 1943.

Ser. No. 468,662. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J. Filed Mar. 25, 1944.

BRYLFIX

FOR PREPARATIONS FOR USE IN THE DRESSING, CARE, AND TREATMENT OF THE HAIR.
Claims use since Mar. 2, 1944.

Ser. No. 468,663. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J. Filed Mar. 25, 1944.

BRYLSET

FOR PREPARATIONS FOR USE IN THE DRESSING, CARE, AND TREATMENT OF THE HAIR.
Claims use since Mar. 2, 1944.

Ser. No. 468,664. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J. Filed Mar. 25, 1944.

BRYLTONE

FOR PREPARATIONS FOR USE IN THE DRESSING, CARE, AND TREATMENT OF THE HAIR.
Claims use since Mar. 2, 1944.

Ser. No. 468,671. CARLOS E. P. GUERRA, doing business as Perez Guerra, Ltd., Los Angeles, Calif. Filed Mar. 25, 1944.

"Kalu"

FOR COLOGNE.
Claims use since Feb. 22, 1944.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 464,453. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Oct. 27, 1943.

W. S.

FOR INK OIL.
Claims use since Aug. 27, 1943.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 466,557. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 13, 1944.

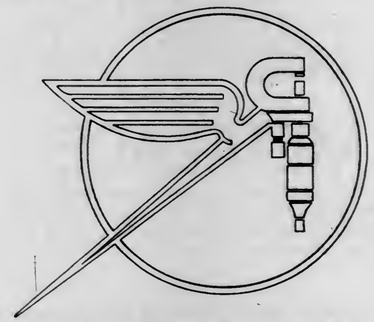
BLACLASTIC

FOR PLIABLE, ELASTIC MATERIAL FOR COATING ROOFS, FOR PROTECTING METAL SURFACES AND FOR DAMPPROOFING WALLS AND THE LIKE, THE MATERIAL BEING OF PAINT-LIKE FORM CAPABLE OF APPLICATION BY A BRUSH OR A POWER SPRAY GUN.
Claims use since Mar. 20, 1928.

CLASS 13

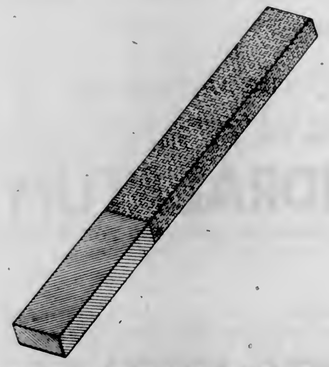
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 460,512. ADEL PRECISION PRODUCTS CORP., Burbank, Calif. Filed May 10, 1943.



Applicant is the owner of registered trade-mark Nos. 383,606 and 383,607, issued Dec. 17, 1940.
FOR HYDRAULIC CONTROL VALVES ESPECIALLY DESIGNED FOR USE ON AIRCRAFT.
Claims use since Nov. 12, 1941.

Ser. No. 463,814. FLEXIBLE STEEL LACING CO., Chicago, Ill. Filed Oct. 1, 1943.



The drawing is lined and hatched for green and buff. No claim is made to the representation of the package apart from the mark shown.
FOR FLEXIBLE OR HINGED BELT FASTENERS.
Claims use since Feb. 11, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 461,293. TITAN METAL MANUFACTURING COMPANY, Bellefonte, Pa. Filed June 10, 1943.



FOR BRASS FORGINGS, BRASS CASTINGS AND WELDING RODS.
Claims use since April 1943.

Ser. No. 469,213. LAWRENCE B. SCOTT, doing business as Metalock Company, Columbus, Ohio. Filed Apr. 10, 1944.

METALACE

FOR METALLIC RODS AND ELEMENTS FOR REPAIRING CRACKED AND BROKEN CASTINGS OF STEEL, IRON, OR OTHER METALS.
Claims use since Jan. 1, 1943.

Ser. No. 469,355. BEN F. DOKE, doing business as Mir-O-Col Alloy Co., Los Angeles, Calif. Filed Apr. 15, 1944.

MIR-O-COL

FOR HARD SURFACING WELDING ROD.
Claims use since May 1, 1937.

CLASS 15

OILS AND GREASES

Ser. No. 468,288. INDUSTRIAL RAW MATERIALS CORPORATION, New York, N. Y. Filed Mar. 14, 1944.

INDRALATUM

FOR PETROLEUM WAX USED FOR MATCHES.
Claims use since Dec. 11, 1943.

Ser. No. 468,292. INDUSTRIAL RAW MATERIALS CORPORATION, New York, N. Y. Filed Mar. 14, 1944.

VELATRUM

FOR PETROLEUM WAX USED FOR MATCHES.
Claims use since Dec. 11, 1943.

Ser. No. 469,615. SINCLAIR REFINING COMPANY, New York, N. Y. Filed Apr. 24, 1944.

QUENCHOL

FOR QUENCHING OILS.
Claims use since Jan. 11, 1943.

Ser. No. 464,452. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Oct. 27, 1943.

W. S.

FOR POLISHING OIL IN THE NATURE OF FURNITURE POLISH, AND POLISHES FOR AUTOMOBILES, FLOORS, AND WOODEN MATERIALS.
Claims use since Aug. 27, 1943.

Ser. No. 467,938. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y. Filed Mar. 3, 1944.

PEBBLE-TEX

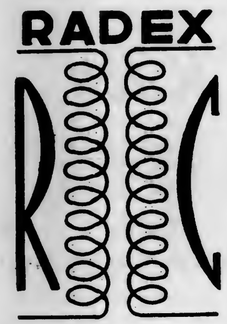
Applicant disclaims the word "Pebble" apart from the mark.
FOR LACQUERS.
Claims use since Apr. 29, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 466,769. RADEX CORPORATION, Chicago, Ill. Filed Jan. 21, 1944.

RADEX



FOR UNIVERSAL SIGNAL GENERATORS FOR TESTING RADIO RECEIVING SETS AND TRANSMITTERS, A. C. SIGNAL TRACERS, BATTERY SIGNAL TRACERS, ELECTRICAL RADIATING LOOPS, SELF-CONTAINED LOOP ANTENNAS, ELECTRICAL FRACTIONAL HORSE POWER MOTORS, DYNAMOTORS, ELECTRICAL GENERATORS, ELECTRICAL CO-AXIAL CABLES, UNIVERSAL, PROGRESSIVE AND ELECTRICAL PAPER SECTION COILS.
Claims use since Mar. 1, 1940.

Ser. No. 469,106. H. A. ASTLETT & CO., New York, N. Y. Filed Apr. 7, 1944.

ASTLAMAR

FOR RADIO RECEIVING SETS AND PARTS THEREOF, AND ELECTRIC TOASTERS.
Claims use since December 1943.

Ser. No. 469,297. ELECTROLUX CORPORATION, Old Greenwich, Conn. Filed Apr. 13, 1944.

ELECTROTIE

FOR SYNCHRONOUS ELECTRIC MOTORS.
Claims use since June 21, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 468,444. THE ELECTRIC GAME CO., INC., Holyoke, Mass. Filed Mar. 20, 1944.

LET'S GO TO COLLEGE

FOR GAME PLAYED WITH CARDS.
Claims use since Feb. 16, 1944.

Ser. No. 468,453. BEN G. JEFFRIES, Atlanta, Ga. Filed Mar. 20, 1944.

JEFF'S UNITY Push Toy

The words "Push Toy" are disclaimed apart from the mark.
FOR WHEELED PUSH TOYS.
Claims use since Mar. 14, 1944.

Ser. No. 468,710. LEWIS W. ENHOLM, Quincy, Mass. Filed Mar. 27, 1944.

FISHMASTER

FOR FISHING TACKLE—NAMELY, RODS, REELS, LINES, BAITS, LURES, AND LEADERS.
Claims use since Mar. 21, 1944.

Ser. No. 469,142. CONSTANCE BANNISTER, New York, N. Y. Filed Apr. 8, 1944.

Constance Bannister

The trade-mark is a facsimile of applicant's signature.
FOR DOLLS AND TOY ANIMALS.
Claims use since Mar. 20, 1944.

Ser. No. 469,688. WILLIAM P. MCGRATH, Wadsworth, Kans. Filed Apr. 26, 1944.

ESTADOS

FOR GAME BOARDS.
Claims use since Apr. 4, 1944.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 458,028. AEROJET ENGINEERING CORPORATION, Pasadena, Calif. Filed Jan. 20, 1943.

ENGINEERING AEROJET CORPORATION

Applicant disclaims the term "Engineering Corporation" apart from "Aerojet" as shown.
FOR THRUST MOTORS WHOSE GENERAL PURPOSE IS TO PROVIDE THRUST BY MEANS OF A COMBUSTION PROCESS, AND INCLUDES ALL THE COMPONENT PARTS OF SUCH MOTORS.
Claims use since Oct. 19, 1942.

Ser. No. 459,642. ANTON SMIT & CO., INC., New York, N. Y. Filed Apr. 5, 1943.

ASCoPOINT

The term "Point" is disclaimed apart from the mark.
FOR DIAMOND WHEEL DRESSING TOOLS.
Claims use since July 18, 1942.

Ser. No. 467,984. J. K. SMIT & SONS, INC., New York, N. Y. Filed Mar. 4, 1944.

BORPRES

FOR DIAMOND BITS.
Claims use since Feb. 19, 1944.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 467,721. GEORGE M. LAUB, New York, N. Y. Filed Feb. 24, 1944.

FAMOUS

FOR PAPER DRESS PATTERNS.
Claims use since Jan. 24, 1944.

Ser. No. 467,723. GEORGE M. LAUB, New York, N. Y. Filed Feb. 24, 1944.

General

FOR PAPER DRESS PATTERNS.
Claims use since Jan. 24, 1944.

Ser. No. 469,328. DUBOIS PLASTIC PRODUCTS, INC., Buffalo, N. Y. Filed Apr. 14, 1944.

SUNO Goggle

No claim is made to the word "Goggle" apart from the mark.
FOR GOGGLES.
Claims use since Mar. 20, 1944.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 469,025. THE UNITED STATES TIME CORPORATION, Waterbury, Conn. Filed Apr. 4, 1944.

CHEVRON

FOR WATCHES.
Claims use since Sept. 15, 1933.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 464,193. ARGENZIO BROTHERS, Denver, Colo. Filed Oct. 16, 1943.

REGINA
Mark of Quality

The notation "Mark of Quality" is disclaimed apart from the mark.
FOR JEWELRY—NAMELY, PEARLS AND DIAMOND RINGS.
Claims use since Sept. 1, 1943.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 468,397. JAY PERRY STOLTZ, Columbus, Ohio. Filed Mar. 17, 1944.

CABED

FOR COMBINATION ARTICLE OF FURNITURE INVOLVING A CABINET-MOUNTED FOLDING BED PROVIDED WITH UTILITY COMPARTMENTS.
Claims use since Feb. 10, 1943.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 458,493. HOLOPHANE COMPANY, INC., New York, N. Y. Filed Feb. 12, 1943.

ENDURAL

FOR GLASS LAMP PANELS AND SCREENS (FLAT OR CURVED), GLOBES, LENSES AND REFLECTORS, SMOOTH, RIBBED OR PRISMATIC.
Claims use since Dec. 4, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 458,828. TRIMZ COMPANY, INC., Chicago, Ill. Filed Feb. 18, 1943.

TRIMZ

FOR DECORATIVE PAPER SPECIALTIES, SPECIFICALLY, TABLE MATS, DOILIES, WALLPAPER, AND PAPER BORDERS.
Claims use since Oct. 1, 1940.

Ser. No. 465,417. DIAGRAPH-BRADLEY STENCIL MACHINE CORPORATION, St. Louis, Mo. Filed Dec. 1, 1943.

D.B.

FOR FOUNTAIN MARKERS AND TIPS THEREFOR AND STENCIL BOARD.
Claims use since Nov. 9, 1943.

Ser. No. 468,700. BRYANT PAPER COMPANY, Kalamazoo, Mich. Filed Mar. 27, 1944.

Celluglass

FOR COATED PRINTING PAPER.
Claims use since Dec. 27, 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 465,165. WENDELL WALKER, Chicago, Ill. Filed Nov. 19, 1943.

A FLYING FORTNIGHT TO

FOR TRAVEL BOOKLETS, AND FOR MONOLOGUES AND RADIO BROADCASTS, SUCH BOOKLETS AND SCRIPTS SOLD AS PUBLICATIONS IN TRADE.
Claims use since Nov. 10, 1939.

Ser. No. 466,927. MAX M. POCHAPIN, New York, N. Y. Filed Jan. 27, 1944.

HALL OF ART

The word "Art" is disclaimed apart from the mark.
FOR PAINTINGS, PRINTS, WATER COLORS, ENGRAVINGS, SCREEN STENCIL PRINTINGS, ETCHINGS, AND LIKE REPRODUCTIONS OF WORKS OF ART.
Claims use since November 1942.

Ser. No. 467,130. ARTHUR J. KLEIN, doing business as Riders Digest Company, Shaker Heights, Ohio. Filed Feb. 3, 1944.

RIDERS DIGEST

The word "Digest" is disclaimed apart from the mark.
FOR TABLOID—NAMELY, A NEWSPAPER OF SMALL FORMAT, OR LEAFLET, SUBSTANTIALLY ONE HALF THE SIZE OF AN ORDINARY NEWSPAPER CONTAINING, CHIEFLY, NEWS, STORIES, RECIPES, ADVERTISING AND HUMOROUS ANECDOTES TO INTEREST AND ENTERTAIN RIDERS OR PASSENGERS ON VEHICLES FOR A SHORT PERIOD OF TIME.
Claims use since Jan. 26, 1944.

Ser. No. 467,651. ELECTRONIC DEVELOPMENT ASSOCIATES, New York, N. Y. Filed Feb. 22, 1944.

INTERNATIONAL
ELECTRONICS
and TELEVISION

Applicant disclaims the words "Electronics" and "Television" apart from the mark.
FOR PERIODICAL PUBLISHED MONTHLY.
Claims use since Feb. 17, 1944.

Ser. No. 467,886. THE GROLIER SOCIETY, INC., New York, N. Y. Filed Mar. 1, 1944.

The
BOOK OF KNOWLEDGE

No claim is made to the word "Book" apart from the mark.
FOR BOOKS, BOOKLETS, AND CHILDREN'S ENCYCLOPEDIA ALL PUBLISHED PERIODICALLY.
Claims use since Nov. 15, 1910.

Ser. No. 468,506. THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 22, 1944.

HOOPLA DEPARTMENT

The word "Department" is disclaimed apart from the mark.
FOR MAGAZINE COLUMN.
Claims use since May 28, 1927.

Ser. No. 468,796. ROBERT HARRISON, New York, N. Y. Filed Mar. 29, 1944.

WINK
A Fresh MAGAZINE

Applicant disclaims the word "Magazine" apart from the mark.
FOR PICTORIAL HUMOROUS PERIODICAL.
Claims use since Mar. 17, 1944.

Ser. No. 469,003. CEMETERY LEGAL COMPASS, Los Angeles, Calif. Filed Apr. 4, 1944.

COMPASS
BEAM

FOR PERIODICAL PUBLICATIONS DEVOTED TO THE INTERESTS OF CEMETERY OWNERS AND OPERATORS.
Claims use since March 1940.

Ser. No. 469,392. FORT WAYNE PRINTING COMPANY, INC., Fort Wayne, Ind. Filed Apr. 17, 1944.

KALMANAK

FOR CALENDARS WITH DAILY SCRIPTURAL READINGS AND RELIGIOUS PRINTS.
Claims use since January 1929.

CLASS 39

CLOTHING

Ser. No. 459,420. MISS SWANK, New York, N. Y. Filed Mar. 27, 1943.

LA FLEUR

FOR WOMEN'S SLIPS.
Claims use since Feb. 27, 1943.

Ser. No. 467,924. I. GROSSMAN & SON, New York, N. Y. Filed Mar. 2, 1944.

MELTONAIRE

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES OF GENUINE MELTON CLOTH.
Claims use since Jan. 5, 1943.

Ser. No. 467,925. I. GROSSMAN & SON, New York, N. Y. Filed Mar. 2, 1944.

MELTONIA

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES OF GENUINE MELTON CLOTH.
Claims use since Jan. 5, 1943.

Ser. No. 468,115. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed Mar. 9, 1944.



The mark consists of a green line located in the toe portion of the hose. No claim is made to the representation of the sock apart from the mark.
FOR HOSIERY.
Claims use since Mar. 2, 1944.

Ser. No. 468,833. COOPER'S, INCORPORATED, Kenosha, Wis. Filed Mar. 30, 1944.



The jockey figure is a fanciful representation.
FOR MEN'S AND BOYS' UNDERWEAR.
Claims use since Jan. 15, 1940.

Ser. No. 468,976. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

CLOUDTONE

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since May 15, 1936.

Ser. No. 468,989. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

TAWNA MIST

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since July 1, 1936.

Ser. No. 469,184. JOSEPH A. AYOUB, doing business as Blou-Slip Co., San Francisco, Calif. Filed Apr. 10, 1944.

Califamous

FOR LADIES' AND MISSES' BLOUSES, AND BLOUSE AND SLIP COMBINATIONS.
Claims use since March 1943.

Ser. No. 469,334. ETTA GURSTEL, Minneapolis, Minn. Filed Apr. 14, 1944.

"Pepita"

FOR DRESSES FOR THE USE OF WOMEN, MISSES AND GIRLS.
Claims use since Jan. 1, 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 458,198. SOUTHERN MILLS, INCORPORATED, Atlanta, Ga. Filed Jan. 27, 1943.

SENOYA

FOR FABRICS WOVEN FROM TWISTED PAPER STRANDS, SOLD AS YARDAGE, TO BE USED IN THE MANUFACTURE OF AUTOMOBILE SEAT COVERS, SLIPPERS, BEACH BAGS, LUGGAGE COVERING, ETC.
Claims use since Sept. 1, 1942.

Ser. No. 463,388. WAWAK COMPANY, INC., Chicago, Ill. Filed Sept. 13, 1943.

WAWAK

FOR WOOLEN PIECE GOODS—NAMELY, SUITINGS, COATINGS, OVER COATINGS AND UNIFORM MATERIAL; SILK PIECE GOODS, TAILORS' TRIMMINGS SOLD IN THE PIECE—NAMELY, CIRCASSIENNE LINING AND COLLAR CLOTHS; CORDUROYS, DOMETT, HAIRCLOTH, INTERLINING, LUSTRENE SLEEVE LINING, MOHAIR SERGES, PADDINGS, PANTS POCKETINGS, PANTS AND VEST LININGS, POCKETINGS (OVERCOATS), PRINCESS SERGES, SATIN SLEEVE LININGS, SERGE LININGS, SILESIAS, SLEEVE LININGS, VELVETS, VENETIAN LININGS AND WIGANS, ALL SOLD IN THE PIECE.
Claims use since Jan. 1, 1920.

Ser. No. 465,043. NORTH CAROLINA FABRICS CORPORATION, Salisbury, N. C. Filed Nov. 16, 1943.

VATRU-SET

No claim is made to the word "Set" except as shown.
FOR TEXTILE FABRICS IN THE PIECE—NAMELY, COTTON AND RAYON FABRICS, WOOL AND RAYON FABRICS, AND FABRICS MADE OF A MIXTURE OF CELLULOSE ACETATE YARNS AND OTHER RAYON YARNS.
Claims use since Aug. 25, 1943.

Ser. No. 467,668. NASHUA MANUFACTURING COMPANY, Boston, Mass. Filed Feb. 22, 1944.

Glenden

FOR BLANKETS MADE OF WOOL AND COTTON AND COMBINATIONS THEREOF.
Claims use since Feb. 16, 1944.

Ser. No. 468,422. TERHUNE, YEREANCE & WOLFF, INC., New York, N. Y. Filed Mar. 18, 1944.

AGOLA

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Mar. 14, 1944.

Ser. No. 468,850. PACIFIC MILLS, Boston, Mass., and New York, N. Y. Filed Mar. 30, 1944.

"MOHARA"

FOR WOOLEN FABRICS IN THE PIECE.
Claims use since Mar. 24, 1944.

Ser. No. 468,977. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

DEBSHIRE

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Apr. 1, 1931.

Ser. No. 468,985. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

LUSTRA-MOOR

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Aug. 11, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 469,370. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Apr. 15, 1944.

GLOWCORD

FOR ART NEEDLEWORK YARNS.
Claims use since Mar. 24, 1944.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 466,836. HANOVIA CHEMICAL AND MANUFACTURING COMPANY, Newark, N. J. Filed Jan. 24, 1944.

SOLLUX

FOR VAPOR LAMPS AND OTHER LAMPS GIVING THERAPEUTIC RAYS.
Claims use since Jan. 28, 1916.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 462,797. IDRIS LTD., London, England. Filed Aug. 17, 1943.

IDRIS

FOR NONALCOHOLIC BEVERAGES—NAMELY, MINERAL AND AERATED WATERS, NATURAL AND ARTIFICIAL; GINGER BEER, AND FRUIT SQUASHES AND CORDIALS.
Claims use since Aug. 13, 1874.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 468,477. BRYAN S. SMITH, doing business as Bryan Smith Farms, Bakersfield, Calif. Filed Mar. 20, 1944.



No claim is made to the representation of the label apart from the mark.
FOR FRESH VEGETABLES.
Claims use since October 1942.

Ser. No. 468,614. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed Mar. 24, 1944.

Flappies

FOR PACKAGED PANCAKE MIX.
Claims use since Mar. 17, 1944.

Ser. No. 468,615. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed Mar. 24, 1944.

Muf-kin

FOR PACKAGED MUFFIN MIX.
Claims use since Mar. 17, 1944.

Ser. No. 469,120. GOODWIN PRESERVING CO., Louisville, Ky. Filed Apr. 7, 1944.

APRICOTLADE

FOR FRUIT JAM.
Claims use since Apr. 1, 1944.

Ser. No. 469,202. KING COLE COMPANY, Chicago, Ill. Filed Apr. 10, 1944.

QUICKEE

FOR CANDY BARS.
Claims use since Jan. 19, 1944.

Ser. No. 469,291. WEBSTER-THOMAS COMPANY, Boston, Mass. Filed Apr. 12, 1944.

FEARLESS

FOR CANNED VEGETABLES, CANNED FRUITS AND CANNED FISH.
Claims use since 1900.

Ser. No. 469,423. WILBUR-ELLIS COMPANY, San Francisco, Calif. Filed Apr. 17, 1944.

INCA



The picture of the Inca is fanciful.
FOR CANNED FOODS—NAMELY, CANNED FISH.
Claims use since Mar. 15, 1944.

CLASS 47

WINES

Ser. No. 466,482. R. U. DELAPENHA & CO. INC., New York, N. Y. Filed Jan. 11, 1944.

Devonshire Cream

No claim is made to the word "Devonshire" apart from the mark.
FOR SHERRY.
Claims use since Oct. 19, 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 459,902. DILLINGER DISTILLERIES, INC., Ruffsdale and Philadelphia, Pa. Filed Apr. 15, 1943.



FOR WHISKEY.
Claims use since Apr. 3, 1943.

Ser. No. 465,113. J. MARION LEGENDRE, doing business as Legendre & Company, New Orleans, La. Filed Nov. 18, 1943.

Havala

FOR RUM.
Claims use since Nov. 11, 1943.

Ser. No. 466,042. IMPERIAL IMPORTERS, INC., Chicago, Ill. Filed Dec. 24, 1943.

BEDROCK

FOR WHISKEY.
Claims use since September 1943.

Ser. No. 466,043. IMPERIAL IMPORTERS, INC., Chicago, Ill. Filed Dec. 24, 1943.

ELMGATE

FOR WHISKEY.
Claims use since September 1943.

Ser. No. 466,044. IMPERIAL IMPORTERS, INC., Chicago, Ill. Filed Dec. 24, 1943.

FOX SPRINGS

FOR WHISKEY.
Claims use since October 1943.

Ser. No. 467,233. COMPANIA IMPORTADORA DE VINOS DE LA HABANA, SOCIEDAD ANONIMA, Alacranes and Habana, Cuba. Filed Feb. 7, 1944.

GALGO

FOR AGUARDIENTE, RUM, ETHYL ALCOHOL AND COGNAC.
Claims use since Mar. 26, 1934.

Ser. No. 468,526. MARCO IMPORTING CO., Chicago, Ill. Filed Mar. 22, 1944.

MARGALE

FOR WHISKEY.
Claims use since December 1934.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 13, 1944

407,571. WHEAT FLOUR, RED DOG WHEAT FLOUR, WHEAT MIDDLINGS, WHEAT SCREENINGS, MIXED FEED FOR LIVE STOCK AND POULTRY, BRAN, CAKE FLOUR, BRAN FLOUR. STANDARD MILLING COMPANY, New York, N. Y.
Filed July 20, 1939. Serial No. 421,786. PUBLISHED MARCH 24, 1942. Class 46.

407,572. FILTERING APPARATUS FOR BEVERAGES AND FOR CLARIFICATION AND STERILIZATION OF INDUSTRIAL LIQUIDS. REPUBLIC FILTERS, INC., Paterson, N. J.
Filed August 8, 1942. Serial No. 454,811. PUBLISHED APRIL 4, 1944. Class 31.

407,573. ELECTRICALLY OPERATED ILLUMINATING DEVICE FOR USE IN CONNECTION WITH ADVERTISING SIGNS INCLUDING A LIGHTING ARRANGEMENT FOR ILLUMINATING LETTERS OR DESIGNS IN SUCH A WAY AS TO PROVIDE A DISTINCTIVE GLOW OR HALO EFFECT THEREAROUND. W. L. STENSGAARD AND ASSOCIATES, INC., Chicago, Ill.
Filed September 25, 1942. Serial No. 455,768. PUBLISHED APRIL 4, 1944. Class 21.

407,574. BICYCLES. ARNOLD, SCHWINN & Co., Chicago, Ill.
Filed December 26, 1942. Serial No. 457,598. PUBLISHED APRIL 4, 1944. Class 19.

407,575. GUMMED PAPER TAPE AND GUMMED FABRIC TAPE USED PRIMARILY FOR REINFORCING AND SEALING CARTONS, PACKAGES, PAPERBOARD BOXES, ETC. MCLAURIN-JONES Co., Brookfield, Mass.
Filed February 15, 1943. Serial No. 458,542. PUBLISHED APRIL 4, 1944. Class 37.

407,576. GUMMED PAPER TAPE AND GUMMED FABRIC TAPE USED PRIMARILY FOR REINFORCING AND SEALING CARTONS, PACKAGES, PAPERBOARD BOXES, ETC. MCLAURIN-JONES Co., Brookfield, Mass.
Filed March 15, 1943. Serial No. 459,122. PUBLISHED APRIL 4, 1944. Class 37.

407,577. LECITHINATED CORN FLOUR. PH. ORTH COMPANY, Milwaukee, Wis.
Filed April 6, 1943. Serial No. 459,673. PUBLISHED APRIL 4, 1944. Class 46.

407,578. PHARMACEUTICAL PREPARATIONS—NAMELY, VITAMIN PREPARATIONS. RICHARD L. JESSEN, Wauwatosa, Wis.
Filed May 27, 1943. Serial No. 460,959. PUBLISHED MARCH 28, 1944. Class 6.

407,579. GLASS SHEETS AND GLASS PLATES. GLASS AND RESINS LIMITED, London, England.
Filed June 18, 1943. Serial No. 461,484. PUBLISHED APRIL 4, 1944. Class 33.

407,580. TWIST DRILLS, REAMERS, END MILLS, MILLING CUTTERS, HOBS AND COUNTERBORES. NATIONAL TWIST DRILL & TOOL Co., Detroit, Mich.
Filed July 26, 1943. Serial No. 462,320. PUBLISHED MARCH 14, 1944. Class 23.

407,581. FRESH TOMATOES AND FRESH CITRUS FRUIT. POLIS & HAGAN, Edinburg, Tex.
Filed August 30, 1943. Serial No. 463,102. PUBLISHED APRIL 4, 1944. Class 46.

407,582. SYNTHETIC RESINS IN SOLID OR LIQUID FORM. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed September 22, 1943. Serial No. 463,573. PUBLISHED APRIL 4, 1944. Class 1.

407,583. LIQUID ADHESIVES USED FOR PLASTICIZING SURGICAL DRESSINGS. HERMAN BERGER, doing business as Standard Pharmaceutical Co., New York, N. Y.
Filed October 6, 1943. Serial No. 463,926. PUBLISHED APRIL 4, 1944. Class 44.

407,584. PAPER BAGS. SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass.
Filed October 6, 1943. Serial No. 463,941. PUBLISHED APRIL 4, 1944. Class 2.

407,585. PAPER BAGS. SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass.
Filed October 6, 1943. Serial No. 463,943. PUBLISHED APRIL 4, 1944. Class 2.

407,586. PAPER BAGS. SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass.
Filed October 6, 1943. Serial No. 463,948. PUBLISHED APRIL 4, 1944. Class 2.

407,587. STATIONERY—NAMELY, WRITING PAPER, NOTE PAPER AND ENVELOPES. D. L. DYER, Kansas City, Mo.
Filed October 13, 1943. Serial No. 464,108. PUBLISHED APRIL 4, 1944. Class 37.

407,588. AIRPLANES AND STRUCTURAL PARTS THEREFOR. LOCKHEED AIRCRAFT CORPORATION, Burbank, Calif.
Filed October 25, 1943. Serial No. 464,398. PUBLISHED APRIL 4, 1944. Class 19.

407,589. PRESSES FOR BALING SCRAP METALS. DEMPSTER BROTHERS, INCORPORATED, Knoxville, Tenn.
Filed November 2, 1943. Serial No. 464,601. PUBLISHED MARCH 28, 1944. Class 23.

407,590. PRESSES FOR BALING SCRAP METALS. DEMPSTER BROTHERS, INCORPORATED, Knoxville, Tenn.
Filed November 2, 1943. Serial No. 464,602. PUBLISHED MARCH 28, 1944. Class 23.

407,591. PHOTOGRAPHIC DEVELOPER CONCENTRATE. THE PHOTO TECHNICAL CORPORATION, South Norwalk, Conn.
Filed November 2, 1943. Serial No. 464,617. PUBLISHED MARCH 28, 1944. Class 6.

407,592. POCKET KNIVES AND RAZOR BLADES. GENENDER SALES & SUPPLIES, Chicago, Ill.
Filed November 4, 1943. Serial No. 464,695. PUBLISHED MARCH 21, 1944. Class 23.

407,593. PATCHING AND RESURFACING CEMENT PRIMARILY FOR FLOORS AND ROADWAYS. STONHARD COMPANY, Philadelphia, Pa.
Filed November 15, 1943. Serial No. 465,013. PUBLISHED APRIL 4, 1944. Class 12.

407,594. HYDRAULIC PUMPS AND PARTS THEREOF FOR HYDRAULIC CONTROL SYSTEMS FOR VEHICLES. THE NEW YORK AIR BRAKE COMPANY, Watertown, N. Y.
Filed November 24, 1943. Serial No. 465,266. PUBLISHED MARCH 28, 1944. Class 23.

407,595. DIAL INDICATORS FOR DIMENSIONAL GAGES. FEDERAL PRODUCTS CORPORATION, Providence, R. I.
Filed November 27, 1943. Serial No. 465,338. PUBLISHED APRIL 4, 1944. Class 26.

407,596. INFANT CARRYING FLEXIBLE CRADLE CHAIRS FOR ATTACHMENT TO A PERSON LIKE A KNAPSACK. THE WARREN FEATHERBONE CO., Three Oaks, Mich.
Filed December 1, 1943. Serial No. 465,441. PUBLISHED APRIL 4, 1944. Class 19.

407,597. VIBRATING SCREEN SEPARATING MACHINES FOR LOOSE MATERIAL, SUCH AS CRUSHED STONE, ORE SAND AND GRAVEL. ROBINS CONVEYORS INCORPORATED, Passaic, N. J.
Filed December 6, 1943. Serial No. 465,576. PUBLISHED MARCH 28, 1944. Class 23.

407,598. VIBRATING SCREEN SEPARATING MACHINES FOR GRANULAR MATERIAL MIXED WITH A LIQUID. ROBINS CONVEYORS INCORPORATED, Passaic, N. J.
Filed December 6, 1943. Serial No. 465,577. PUBLISHED MARCH 21, 1944. Class 23.

407,599. RADIO RECEIVING APPARATUS AND PARTS THEREOF. HOFFMAN RADIO CORPORATION, Los Angeles, Calif.
Filed December 7, 1943. Serial No. 465,602. PUBLISHED APRIL 4, 1944. Class 21.

407,600. RING TRAVELERS. VICTOR RING TRAVELER COMPANY, Providence, R. I.
Filed December 8, 1943. Serial No. 465,642. PUBLISHED FEBRUARY 15, 1944. Class 23.

407,601. PERFUMES. JOHN P. WILDE, Sands Point, N. Y.
Filed December 11, 1943. Serial No. 465,725. PUBLISHED MARCH 28, 1944. Class 6.

407,602. MACHINES—NAMELY, SAWS, SHEARS, MOLDS FOR CASTING METALS, METAL BILLETS, AND METAL SLABS; MACHINES FOR STRETCHING AND STRAIGHTENING EXTRUDED AND ROLLED METALS, POINTING MACHINES FOR COLD OR HOT POINTING METALS; ROLL AND DRUM COILERS FOR METAL STRIPS, RODS, AND WIRE. LOMA MACHINE MANUFACTURING CO., INC., New York, N. Y.
Filed December 16, 1943. Serial No. 465,813. PUBLISHED MARCH 21, 1944. Class 23.

407,603. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, EAU DE COLOGNE, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES. COTY, INC., New York, N. Y.
Filed December 20, 1943. Serial No. 465,893. PUBLISHED MARCH 28, 1944. Class 6.

407,604. PAPER BAGS FOR ATTACHMENT TO HOLDERS TO RECEIVE WASTE MATERIALS. DAVID M. LORENZ, Kansas City, Mo.
Filed December 21, 1943. Serial No. 465,952. PUBLISHED APRIL 4, 1944. Class 2.

407,605. VENDING MACHINES. THE HOSPITAL SPECIALTY COMPANY, Cleveland, Ohio.
Filed December 27, 1943. Serial No. 466,080. PUBLISHED MARCH 28, 1944. Class 23.

407,606. SANITARY NAPKINS. THE HOSPITAL SPECIALTY COMPANY, Cleveland, Ohio.
Filed December 27, 1943. Serial No. 466,084. PUBLISHED APRIL 4, 1944. Class 44.

407,607. ROTOGRAVURE PRESSES AND LAMINATING AND COATING MACHINES. ROTOGRAVURE ENGINEERING CO. OF MASS., East Boston, Mass.
Filed December 29, 1943. Serial No. 466,175. PUBLISHED MARCH 14, 1944. Class 23.

407,608. PAPERBOARD, ESPECIALLY BOXBOARD RESISTANT TO MOISTURE VAPOR TRANSFER. CONTAINER CORPORATION OF AMERICA, Chicago, Ill.
Filed December 31, 1943. Serial No. 466,213. PUBLISHED APRIL 4, 1944. Class 37.

407,609. INSECTICIDAL PREPARATIONS. HOMER E. WHITMIRE, doing business as Whitmire Research Laboratories, St. Louis, Mo.
Filed December 31, 1943. Serial No. 466,246. PUBLISHED MARCH 28, 1944. Class 6.

407,610. FRESH VEGETABLES—NAMELY, FRESH LETTUCE. WAYNE B. BRAND Co., Yuma, Ariz.
Filed January 10, 1944. Serial No. 466,426. PUBLISHED MARCH 28, 1944. Class 46.

407,611. PREPARATION FOR MAKING SECURE DENTAL PLATES IN THE MOUTH. STANDARD DISTRIBUTING COMPANY, also doing business as Dendura Products, Chicago, Ill.
Filed January 10, 1944. Serial No. 466,464. PUBLISHED MARCH 28, 1944. Class 6.

407,612. PREPARATION FOR MAKING SECURE DENTAL PLATES IN THE MOUTH. STANDARD DISTRIBUTING COMPANY, also doing business as Dentura Products, Chicago, Ill.
Filed January 10, 1944. Serial No. 466,465. PUBLISHED MARCH 28, 1944. Class 6.

407,613. WOODEN FORKS AND SPOONS. INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed January 11, 1944. Serial No. 466,495. PUBLISHED MARCH 28, 1944. Class 23.

407,614. PREPARATION FOR PREVENTING CORROSION OF METALS, FOR PARTICULAR USE IN THE COOLING SYSTEMS OF INTERNAL COMBUSTION ENGINES. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed January 13, 1944. Serial No. 466,561. PUBLISHED MARCH 28, 1944. Class 6.

407,615. TRUCKS, MORE PARTICULARLY STRADDLE TRUCKS OF A KIND COMMONLY USED AS LUMBER CARRIERS. WILLAMETTE HYSTER COMPANY, Portland, Oreg.
Filed January 13, 1944. Serial No. 466,562. PUBLISHED MARCH 28, 1944. Class 23.

407,616. MEDICINAL VITAMIN IRON AND LIVER CONCENTRATE PREPARATIONS. EMDEE LABORATORIES, INC., New York, N. Y.
Filed January 19, 1944. Serial No. 466,692. PUBLISHED MARCH 28, 1944. Class 6.

407,617. LAXATIVE. MAYFLOWER MANUFACTURING COMPANY, Dallas, Tex.
Filed January 21, 1944. Serial No. 466,763. PUBLISHED MARCH 28, 1944. Class 6.

407,618. CHEMICAL COMPOUND FOR OXIDIZING METAL ARTICLES. THE ENTHONE COMPANY, New Haven, Conn.
Filed January 22, 1944. Serial No. 466,786. PUBLISHED MARCH 28, 1944. Class 6.

407,619. PREPARATION FOR USE IN THE TREATMENT OF ST. VITUS'S DANCE AND INFANTILE PARALYSIS. JULIA TOCKSTEIN, doing business as Tocsein, Chicago, Ill.
Filed January 22, 1944. Serial No. 466,812. PUBLISHED MARCH 28, 1944. Class 6.

407,620. PERFUME. PINAUD, INCORPORATED, New York, N. Y.
Filed January 24, 1944. Serial No. 466,845. PUBLISHED MARCH 28, 1944. Class 6.

407,621. GLASS DISHES, DRINKING GLASSES, SALVERS, VASES, FLOWER BOWLS AND FLOWER POTS. LEWIS P. WEIL, Germantown, Pa.
Filed January 24, 1944. Serial No. 466,853. PUBLISHED APRIL 4, 1944. Class 33.

407,622. LUBRICATING OILS AND GREASES. THE ELCO GREASE AND OIL COMPANY, Cleveland, Ohio, now by change of name to The Elco Lubricant Corporation.
Filed January 29, 1944. Serial No. 466,985. PUBLISHED MARCH 28, 1944. Class 15.

407,623. IRONING BOARDS. THE KITCHEN MAID CORPORATION, Andrews, Ind.
Filed January 29, 1944. Serial No. 466,994. PUBLISHED APRIL 4, 1944. Class 24.

407,624. CANNED OLIVES. L. S. HUNN, doing business as L. S. Hunn Packing Co., Woodlake, Calif.
Filed February 1, 1944. Serial No. 467,067. PUBLISHED APRIL 4, 1944. Class 46.

407,625. TOOTH PICKS AND TOOTH STICKS, NONE BEING OF PRECIOUS METAL. KEENE'S LABORATORIES LIMITED, London, England.
Filed February 4, 1944. Serial No. 467,159. PUBLISHED APRIL 4, 1944. Class 44.

407,626. FRESH CITRUS FRUITS. LAKE HAMILTON COOPERATIVE, INC., Lake Hamilton, Fla.
Filed February 7, 1944. Serial No. 467,245. PUBLISHED APRIL 4, 1944. Class 46.

407,627. FRESH CITRUS FRUITS. LAKE HAMILTON COOPERATIVE, INC., Lake Hamilton, Fla.
Filed February 7, 1944. Serial No. 467,246. PUBLISHED APRIL 4, 1944. Class 46.

407,628. CANDIES. MARLON CONFECTIONS CO., New York, N. Y.
Filed February 7, 1944. Serial No. 467,250. PUBLISHED APRIL 4, 1944. Class 46.

407,629. CANDIES. MARLON CONFECTIONS CO., New York, N. Y.
Filed February 7, 1944. Serial No. 467,251. PUBLISHED APRIL 4, 1944. Class 46.

407,630. POWER TRANSMISSION BELTS. THE GATES RUBBER COMPANY, Denver, Colo.
Filed February 16, 1944. Serial No. 467,449. PUBLISHED APRIL 4, 1944. Class 35.

407,631. PHONOGRAPH NEEDLES. AERO NEEDLE COMPANY, Chicago, Ill.
Filed February 17, 1944. Serial No. 467,482. PUBLISHED APRIL 4, 1944. Class 36.

407,632. SOAP. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 18, 1944. Serial No. 467,537. PUBLISHED APRIL 4, 1944. Class 4.

407,633. TOY AIRPLANE. FRED C. WASSON, Compton, Calif.
Filed February 21, 1944. Serial No. 467,629. PUBLISHED APRIL 4, 1944. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,634. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEHEN FRUIT SERVICE, INC., Everett, Mass

FRESH Baker SLICED Brooks DAILY

Filed Mar. 27, 1941. Serial No. 441,997.

FOR PIE AND PASTRY FILLINGS COMPRISING LEMON, ORANGE, COCONUT AND OTHER CUSTARDS, MINCEMEAT, AND FRESHLY PREPARED AND NON-OXIDIZING APPLES, APRICOTS, BANANAS, BLACKBERRIES, BLUEBERRIES, CHERRIES, CRANBERRIES, DATES, FIGS, GOOSEBERRIES, HUCKLEBERRIES, LOGANBERRIES, PEACHES, PERSIMMONS, PINEAPPLES, PLUMS, PRUNES, PUMPKIN, RASPBERRIES, RHUBARB, SQUASH, STRAWBERRIES, AND OTHER FRUITS AND VEGETABLES CUSTOMARILY USED IN PIE AND PASTRY FILLINGS, AND FILLINGS MADE OF SUCH FRUITS AND VEGETABLES.
Claims use since Jan. 15, 1940.

407,635. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BASCA MANUFACTURING CO. INC., Indianapolis, Ind. Filed May 4, 1942. Serial No. 452,762.

MERIT MUFFLER

FOR EXHAUST MUFFLERS.
Claims use since Mar. 10, 1942.

407,636. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) A. COHEN & SONS CORP., New York, N. Y. Filed Jan. 1, 1943. Serial No. 457,701.

LADY CROSBY

FOR LADIES' DIAMOND RINGS AND WEDDING RINGS IN WHICH THE RINGS ARE MADE OF 14 K. GOLD OR BETTER.
Claims use since Dec. 4, 1942.

407,637. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed May 17, 1943. Serial No. 460,673.

CABLE-TITE

FOR FITTINGS FOR WIRES AND CABLES.
Claims use since Apr. 15, 1943.

407,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. P. D. PRODUCTS COMPANY, Sedan, Kans. Filed June 15, 1943. Serial No. 461,422.

DR. SMITH'S

SULFA-DENT

FOR TOOTH PASTE AND TOOTH POWDER.
Claims use since Feb. 24, 1943.

407,639. (CLASS 17. TOBACCO PRODUCTS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed July 31, 1943. Serial No. 462,430.

Yorkshire

FOR SMOKING TOBACCO.
Claims use since July 1941.

407,640. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHEFFIELD MANUFACTURING CORP., Newark, N. J. Filed Aug. 7, 1943. Serial No. 462,606.

TOLEDO

FOR RAZOR BLADES.
Claims use since December 1936.

407,641. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) WESTON INTERNATIONAL COMPANY, New York, N. Y. Filed Oct. 9, 1943. Serial No. 464,036.

THE LIGHT OF YOUR LIFE WESTON LIGHTERS SERVE THE WORLD

FOR PYROPHORIC PIPE, CIGARETTE, AND CIGAR LIGHTERS.
Claims use since Jan. 1, 1943.

407,642. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SARGENT & COMPANY, Des Moines, Iowa. Filed Oct. 11, 1943. Serial No. 464,068.

Minral Meal

FOR FEED FOR HOGS—NAMELY, A FEED COMPRISED OF SOYBEAN OIL MEAL, LINSEED OIL MEAL, COTTONSEED MEAL, TANKAGE, DRIED WHEY, DRIED SKIM MILK, RIBOFLAVIN CONCENTRATE, CANE MOLASSES, VITAMIN A AND D FEEDING OIL, LIVER MEAL, FISH MEAL, BARLEY MALT, YEAST, DISTILLERS SOLUBLES, CORN OIL MEAL, MANGANESE SULPHATE, STEAMED BONE MEAL, MOLASSES, SODIUM SULPHATE, CALCIUM CARBONATE, SALT, CHARCOAL, IRON OXIDE, BICARBONATE OF SODA, SULPHUR, COPPERAS, COPPER SULPHATE AND POTASSIUM IODIDE.
Claims use since Sept. 1, 1934.

407,643. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VAN DUSEN AIRCRAFT SUPPLIES, INC., Minneapolis, Minn. Filed Nov. 6, 1943. Serial No. 464,801.

Van Dusen VD

FOR AIRPLANE LACQUERS.
Claims use since Apr. 1, 1941.

407,644. (CLASS 37. PAPER AND STATIONERY.) BERT M. MORRIS Co., Los Angeles, Calif. Filed Jan. 7, 1944. Serial No. 466,382.

MORRISET

FOR PEN-INK UNITS CONSISTING OF A RESERVOIR, A BOTTLE OF INK AND A PEN.
Claims use since Mar. 17, 1939.

407,645. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) IDA JOLLES, doing business as J. Jolles Studios, New York, N. Y. Filed Mar. 16, 1944. Serial No. 468,344.

PLASTIC-ROL

FOR LADIES' HANDBAGS.
Claims use since Aug. 25, 1942.

TRADE-MARK REGISTRATIONS RENEWED

167,544. **GRADY'S MARVELOUS.** METAL CLEANER AND POLISH. Registered May 1, 1923. GRADY MFG. Co., Long Island City, N. Y. Renewed May 1, 1943, to Oil Specialties & Refining Co., Inc., Brooklyn, N. Y., a corporation of New York, successor.

176,507. **VALLEY KING.** FRESH CANTALOUPES, CASSABA, AND FRESH VEGETABLES. Registered November 27, 1923. HALF MOON FRUIT & PRODUCE Co. Renewed November 27, 1943, to Half Moon Fruit & Produce Co., San Francisco, Calif., a firm, successor.

182,001. **TRITWIST.** WORSTED PIECE GOODS. Registered April 1, 1924. DORMEUIL FRERES, Paris, France. Renewed April 1, 1944, to Dormeuil Freres, London, England, a firm.

182,571. **LANE'S.** PREPARATION FOR THE TREATMENT OF DISORDERS OF THE STOMACH AND BOWELS. Registered April 15, 1924. KEMP & LANE, INC., Le Roy, N. Y., a corporation of New York. Renewed April 15, 1944.

182,790. **HARMONY.** SARDINES PACKED IN OIL. Registered April 15, 1924. F. H. FROMM, doing business as F. H. Fromm & Co., Philadelphia, Pa. Renewed April 15, 1944, to Frank H. Fromm, Brooklyn and New York, N. Y.

183,194. **HOUGHTON'S DRAW TEMP.** COMPOUNDS FOR USE IN THE DRAWING AND TEMPERING OF STEEL. Registered April 22, 1924. E. F. HOUGHTON & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed April 22, 1944.

183,195. **HOUGHTON'S LIQUID HEAT.** COMPOUNDS FOR USE IN THE REHEATING OF STEEL. Registered April 22, 1924. E. F. HOUGHTON & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed April 22, 1944.

183,511. **NUMIUM.** KEY CHAINS, BUCKLES, COLLAR BUTTONS, COLLAR FASTENERS, EYEGLASS HOLDERS, KNIFE HANDLES, BADGES, KEY RINGS, CHAIN FASTENERS, SNAP FASTENERS, SPRING RINGS, ORNAMENTAL HAIRPINS, AND OTHER CERTAIN NAMED GOODS WHICH ARE MADE OF OR PLATED WITH PRECIOUS METALS. Registered April 29, 1924. FORSTNER CHAIN CORPORATION, Irvington, N. J., a corporation of New Jersey. Renewed April 29, 1944.

183,553. **SPORTEX.** WOOLEN PIECE GOODS. Registered May 6, 1924. DORMEUIL FRERES, Paris, France. Renewed May 6, 1944, to Dormeuil Freres, London, England, a firm.

183,607. **"SSS 1790" AND DESIGN.** COTTON PIECE GOODS. Registered May 6, 1924. S. SLATER & SONS, INC., Webster, Mass., and New York, N. Y. Renewed May 6, 1944, to S. Slater and Sons, Inc., Slater, S. C., a corporation of Delaware, assignee.

183,711. **ROYAL-CHICAGO.** WIRE FURNITURE, CONSISTING OF WIRE CHAIRS, WIRE STOOLS AND WIRE TABLES WITH VITREOUS TOPS OF THE TYPE USED IN RESTAURANTS AND ICE-CREAM PARLORS, WASHSTANDS, HATRACKS, COSTUMERS, MIRRORS PIVOTED TO TABLES AND THE LIKE, AND METAL-FRAMED MIRRORS PIVOTED ON METAL SUPPORTS, SUCH AS SHAVING MIRRORS AND THOSE OTHER THAN THE PRECIOUS-METAL TYPE. Registered May 6, 1924. ROYAL METAL MANUFACTURING Co., Chicago, Ill. Renewed May 6, 1944, to Royal Metal Manufacturing Co., Chicago, Ill., and Michigan City, Ind., a corporation of Illinois.

183,792. **NAVAL.** CANNED SARDINES. Registered May 6, 1924. FRED B. NEUHOFF, doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Renewed May 6, 1944, to Oxnard Canners, Inc., Monterey, Calif., a corporation of California, assignee.

184,605. **REPRESENTATION OF A COAT-OF-ARMS.** WRITING PAPERS AND ENVELOPES. Registered May 27, 1924. SAMUEL WARD MFG. Co., Boston, Mass., a corporation of Massachusetts. Renewed May 27, 1944.

185,186. **MONITOR.** WATER HEATERS, AUTOMATIC AND NONAUTOMATIC, OPERATED EITHER BY GAS OR ELECTRICITY. Registered June 10, 1924. GENERAL WATER HEATER CORPORATION, Los Angeles, Calif. Renewed June 10, 1944, to General Water Heater Corporation, Burbank, Calif., a corporation of Delaware.

185,458. **REPRESENTATION OF A CIRCULAR SPOT.** EYEGLASSES, SPECTACLES, GOGGLES, MAGNIFYING GLASSES, OPTICAL LENSES, OPHTHALMIC MOUNTINGS AND PARTS THEREOF, EYE-TESTING INSTRUMENTS, EYE-MEASURING INSTRUMENTS, LENS-TESTING INSTRUMENTS, LENS-MEASURING INSTRUMENTS. Registered June 17, 1924. THE AMERICAN OPTICAL COMPANY, Southbridge, Mass., a voluntary association. Renewed June 17, 1944.

185,739. **CHOCOLATE MOUNTAINS.** CAKES. Registered June 24, 1924. THE SCHUST COMPANY, Saginaw, Mich. Renewed June 24, 1944, to Loose-Wiles Biscuit Company, Chicago, Ill., a corporation of Illinois, assignees.

185,796. **SILVERSEAL.** SILVER-PLATED FLAT METAL TABLEWARE—NAMELY, SPOONS, FORKS, AND KNIVES. Registered June 24, 1924. ASSOCIATED SILVER COMPANY. Renewed June 24, 1944, to Associated Silver Company, Chicago, Ill., joint tenancy ownership, successor.

186,069. **CHURCH-BUDGET.** ENVELOPES. Registered July 1, 1924. THE CHURCH-BUDGET ENVELOPE COMPANY, Salem, Ohio, a partnership. Renewed July 1, 1944.

186,718. **"ESPERIA" AND DRAWING.** CANNED VEGETABLES, FISH, AND ANCHOVIES, PICKLED FISH. Registered July 22, 1924. HUGH D. CAPRIATA. Renewed July 22, 1944, to Cesare Cantu, doing business as Special Food Products Co., New York, N. Y., assignee.

187,131. **"HANDY-ROLL" AND DESIGN.** CONTAINERS FILLED WITH ADHESIVE OR GUMMED TAPE. Registered July 29, 1924. CASTERLINE & BRIEN, San Francisco, Calif., assignor to The Adhesive Paper Products Corporation. Renewed July 29, 1944, to H. I. Salsbury, doing business as Handy Roll Co., Oakland, Calif., assignee by mesne assignments.

187,161. **B & P COLLEGE.** WRITING PAPER AND ENVELOPES. Registered July 29, 1924. BERMINGHAM & PROSSER COMPANY, Kalamazoo, Mich., a corporation of Michigan. Renewed July 29, 1944.

187,162. **B & P SEMINARY.** WRITING PAPER AND ENVELOPES. Registered July 29, 1924. BERMINGHAM & PROSSER COMPANY, Kalamazoo, Mich., a corporation of Michigan. Renewed July 29, 1944.

187,281. **"LISCO".** LUBRICATING OILS AND GREASES. Registered July 29, 1924. THE LISCO COMPANY. Renewed July 29, 1944, to T. J. Deadwyler, doing business as The Lisco Company, Atlanta, Ga., assignee.

187,451. **LANE'S.** TABLETS FOR USE IN THE TREATMENT OF COLDS, GRIPPE, AND HEADACHE, A MENTHOL CREAM, SALVE FOR EXTERNAL USE FOR THE TREATMENT OF COLDS, SORE THROAT, CROUP, CATARRH, BURNS, BRUISES, NEURALGIA, INFLAMMATION, AND THE LIKE; AND A CERTAIN NAMED MEDICINAL OINTMENT. Registered August 5, 1924. KEMP & LANE, INC., Le Roy, N. Y., a corporation of New York. Renewed August 5, 1944.

188,141. **SNOW KING.** ROTARY SNOWPLOWS. Registered August 19, 1924. THE ROTARY SNOW PLOW COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed August 19, 1944.

188,624. **ACE.** SCARFS, SWEATERS, MUFFLERS, SHAWLS, KNITTED HEADWEAR, AND FANCY KNIT GOODS. Registered September 2, 1924. THE LION KNITTING MILLS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 2, 1944.

188,651. **MICKEY (HIMSELF) McGUIRE.** SERIES OF CARTOONS. Registered September 2, 1924. FONTAINE FOX, New York, N. Y. Renewed September 2, 1944, to Fontaine Fox, Greenwich, Conn.

188,719. **CRESCENT.** BELT-FASTENING PLATES, LACES, LACING AND FASTENERS OF LEATHER, RAWHIDE, OR COMPOSITION. Registered September 2, 1924. CRESCENT BELT FASTENER COMPANY. Renewed September 2, 1944, to Crescent Belt Fastener Company, Inc., New York, N. Y., a corporation of New York, assignee.

188,803. **"ELLCEE" AND DRAWING.** MATTRESSES, BED SPRINGS, BOX SPRINGS, AND PILLOWS. Registered September 2, 1924. LOUIS COHEN. Renewed September 2, 1944, to Louis Cohen & Son, Inc., New York, N. Y., a corporation of New York, assignee.

188,813. **THE FOURTH ESTATE.** WEEKLY PUBLICATION. Registered September 2, 1924. THE FOURTH ESTATE PUBLISHING COMPANY. Renewed September 2, 1944, to The Editor & Publisher Company, New York, N. Y., a corporation of New York, successor.

189,049. **"MOORE QUALITY" AND DRAWING.** KNITTED, WOVEN, AND BRAIDED ELASTIC NARROW FABRIC, BRAID, AND TAPE, AND NON-ELASTIC BRAID AND TAPE. Registered September 9, 1924. MOORE FABRIC COMPANY, Pawtucket, R. I., a corporation of Rhode Island. Renewed September 9, 1944.

189,219. **REPRESENTATION OF AN EAGLE.** SHEETS AND BARS OF BRASS, OR COPPER OR ALLOYS THEREOF, METAL CASTINGS AND FORGINGS AND EXTRUDED SHAPES. Registered September 16, 1924. TAUNTON-NEW BEDFORD COPPER COMPANY, Taunton, Mass. Renewed September 16, 1944, to Revere Copper and Brass Incorporated, New York, N. Y., a corporation of Maryland, assignee.

189,388. **BUCKHECT KIDDIES.** CHILDREN'S LEATHER SHOES. Registered September 16, 1924. BUCKINGHAM & HECHT, San Francisco, Calif., a corporation of California. Renewed September 16, 1944.

189,872. **MARVLOTEX.** SILK AND COTTON MIXED PIECE GOODS, MERCERIZED PIECE GOODS, AND LININGS IN THE PIECE, COMPOSED OF A MIXTURE OF SILK AND COTTON. Registered September 30, 1924. H. JACOB & SONS, INC. Renewed September 30, 1944, to Marvlo Fabrics, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

189,910. **REPRESENTATION OF TWO BLUE TRIANGLES, ETC.** BACON, POTTED HAM, POTTED TONGUE, POTTED CHICKEN, DEVILED HAM, DEVILED TONGUE, BONELESS CHICKEN, DRIED BEEF, BOUILLON CUBES, AND CORNED-BEEF HASH; CANNED SALMON AND SALMON PASTE, CANNED SOUPS; CANNED AND PRESERVED FRUITS, VEGETABLES, AND BERRIES; FRUIT BUTTERS, JAMS, AND MARMALADES; AND OTHER CERTAIN NAMED FOOD PRODUCTS. Registered September 30, 1924. LIBBY, MCNEILL & LIBBY, Chicago, Ill., a corporation of Maine. Renewed September 30, 1944.

189,921. **"ANHEUSER-BUSCH" AND DESIGN.** CORN SIRUP. Registered September 30, 1924. ANHEUSER-BUSCH, INC. Renewed September 30, 1944, to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri, assignee.

189,967. **TOONERVILLE FOLKS.** SERIES OF CARTOONS. Registered September 30, 1924. FONTAINE Fox, New York, N. Y. Renewed September 30, 1944, to Fontaine Fox, Greenwich, Conn.

189,970. **MARVLSHEEN.** SATEEN, COTTON AND SILK MIXED PIECE GOODS, AND COTTON PIECE GOODS WITH A MERCERIZED, CHASED OR SCHREINERED FINISH. Registered September 30, 1924. H. JACOB & SONS, INC. Renewed September 30, 1944, to Marvlo Fabrics, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

190,070. **"RED OX TWIST" AND DRAWING.** SMOKING AND CHEWING TOBACCO. Registered October 7, 1924. CUMBERLAND TOBACCO WORKS, Nashville, Tenn., a corporation of Tennessee. Renewed October 7, 1944.

190,106. **"NIB-CO" AND DESIGN.** BALL COCKS AND TRIP LEVERS FOR BALL COCKS. Registered October 7, 1924. NORTHERN INDIANA BRASS COMPANY, Elkhart, Ind., a corporation of Indiana. Renewed October 7, 1944.

190,150. **N AND H.** CIGARS. Registered October 7, 1924. JACOB HOLDEN, doing business as Holden & Earle. Renewed October 7, 1944, to Henry Freeman & Co., Inc., Worcester, Mass., a corporation of Massachusetts, assignee by mesne assignments.

190,214. **"FALCON BRAND" AND DRAWING.** LICORICE PASTE. Registered October 7, 1924. MACANDREWS & FORBES COMPANY, Camden, N. J., and New York, N. Y. Renewed October 7, 1944, to MacAndrews & Forbes Company, Camden, N. J., a corporation of New Jersey.

190,242. **"THE STADIUM" AND DRAWING.** HATS AND CAPS FOR MEN AND BOYS, INCLUDING BOTH STRAW AND FELT HATS. Registered October 7, 1924. THE UNION COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed October 7, 1944.

190,297. **UNIVERSITY.** ARM BANDS OF THE TYPE COMMERCIALLY CALLED ARMLETS, SUSPENDERS, AND BELTS FOR PERSONAL WEAR. Registered October 14, 1924. GREENEBAUM, WEIL & MICHELS. Renewed October 14, 1944, to Crown Manufacturing Company, Inc., San Francisco, Calif., a corporation of California, assignee by mesne assignments.

190,312. **"BEATS-ALL" AND DRAWING.** LINIMENT FOR BRUISES, CUTS, BURNS, SPRAINS, BOILS, SORES, TOOTHACHE, BLOOD POISONING, LOCKJAW, RHEUMATISM, LUMBAGO, SORENESS OF ALL KINDS, SORE THROAT, BRONCHIAL TROUBLE, CHEST COLD AND LUNGS, CANCER PAINS OF THE BOWELS AND STOMACH, AND FOR ALL ACHES, PAINS, AND BLEMISHES ON HORSES. Registered October 14, 1924. EDWARD D. GAST, Lima, Ohio. Renewed October 14, 1944.

190,397. **ARBUTUS.** FINGER RINGS. Registered October 14, 1924. BYARD F. BROGAN, Philadelphia, Pa. Renewed October 14, 1944.

190,428. **TUBOLA.** CLEANING POWDER. Registered October 14, 1924. THE CHAMBERLAIN COMPANY, Pittsburgh, Pa. Renewed October 14, 1944, to John R. Dulany, Eastlake Weir, Fla., assignee.

190,531. **"PURITY" AND DESIGN.** BREAD, COOKIES, CAKE, DOUGHNUTS, AND TOAST. Registered October 14, 1924. PURITY BAKING CO., St. Paul, Minn., a corporation of Minnesota. Renewed October 14, 1944.

190,536. **CREAMETTE.** SALT, BAKING POWDER, AND BAKING SODA. Registered October 14, 1924. THE CREAMETTE COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed October 14, 1944.

190,573. **KEMILIME.** HIGH-CALCIUM, HYDRATED LIME FOR GENERAL INDUSTRIAL AND CHEMICAL USES. Registered October 14, 1924. ASH GROVE LIME AND PORTLAND CEMENT COMPANY, Kansas City, Mo., and Portland, Maine. Renewed October 14, 1944, to Ash Grove Lime & Portland Cement Company, Kansas City, Mo., a corporation of Maine.

190,594. **REVELATION.** BELTING MADE OF RUBBER AND OF A COMBINATION OF COTTON RUBBER DUCK WITH RUBBER IMPREGNATION AND RUBBER COVER AND AIR HOSE MADE OF RUBBER AND OF A COMBINATION OF COTTON RUBBER DUCK WITH RUBBER IMPREGNATION AND RUBBER COVER. Registered October 14, 1924. HAMILTON RUBBER MANUFACTURING COMPANY, Trenton, N. J., a corporation of New Jersey. Renewed October 14, 1944.

REISSUES

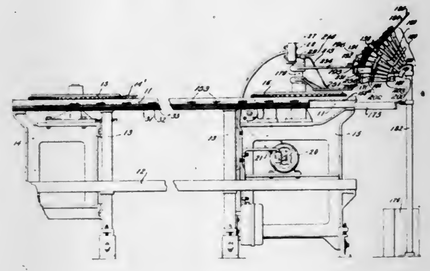
JUNE 13, 1944

22,492
WINDING MACHINE

Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire

Original No. 2,160,810, dated June 6, 1939, Serial No. 576,978, November 24, 1931. Application for reissue June 19, 1942, Serial No. 447,662

54 Claims. (Cl. 242—32)



1. A textile machine having therein a carrier adapted to carry a winding strand package core and an unwinding supply strand mass, means for moving the carrier in a predetermined path in relation to the machine, means for winding a strand from the supply strand mass onto the winding strand package core during such motion, means for distributing the strand on the core in progressively axially advancing conical layers of less length than the finished package, in combination with means operative after winding of a package on the core for automatically associating the strand of a supply mass remaining on the carrier with a fresh core for initiating the winding of a new strand package on the carrier, means for supplying a fresh core to the carrier, means for doffing a wound core from the carrier, and means for positioning the strand-distributing means for the beginning of a new winding on a fresh core.

20. In a winding machine, the combination of means for retaining an unwinding supply mass of strand, a traversing strand guide and a winding package core holder both so disposed above the supply mass that the strand coming from the supply mass to the winding package first passes upward to the traversing guide then over the traversing guide and then downward to the core held by said holder, the core holder comprising opposed core-holding centers, in combination with means for discharging a wound package and its core from said holder while leaving the strand in said strand guide, means for placing a new core in said holder including means for supplying said core between said centers and means for causing the centers to close upon the core, means for automatically imparting a supplemental movement to said strand guide in a direction such as to cause the strand guide to clear said core supplying means when the latter supplies a new core, and means for associating the leading end of the strand remaining in the said guide with the new core.

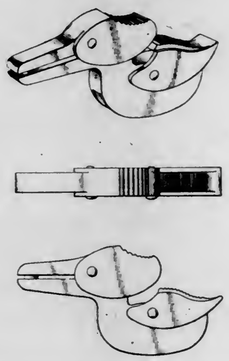
22,493
DESIGN FOR A CLAMP FOR BLANKETS AND THE LIKE

Rudolph Bernhardt and Jean O. Reinecke, Chicago, Ill., assignors to James F. Barnes, as trustee

Original No. 136,730, dated November 30, 1943, Serial No. 109,974, April 15, 1943, for 3½ years. Application for reissue February 14, 1944, Serial No. 112,583

Term of patent 14 years

(Cl. D17—6)



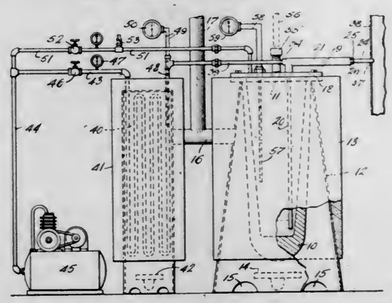
The ornamental design for a clamp for blankets and the like, as shown.

22,494
REDUCTION OF METALS TO A POWDER

Allan W. Ferguson, East Aurora, N. Y., assignor to Oxides, Inc., Buffalo, N. Y.

Original No. 2,209,964, dated August 6, 1940, Serial No. 187,424, January 28, 1938. Application for reissue January 31, 1944, Serial No. 520,493

17 Claims. (Cl. 83—91)



1. In the spraying of fused lead to reduce it to finely divided particles, the improved method which comprises passing a tubular stream of a gas having a temperature exceeding approximately 900° F. through a confined chamber and escaping from a substantially restricted, relatively short orifice in a wall of the chamber having an area not more than approximately ¼ the maximum cross sectional area of the chamber, under a moving pressure differential in excess of 50 pounds per

square inch over atmospheric pressure outside of said chamber, and simultaneously discharging into the interior of said gas stream in said chamber in a direction generally towards said orifice, but at a point spaced from said orifice a distance ranging from about ½ inch to not materially greater than approximately one inch, a stream of molten lead having a cross sectional area less than the area of said orifice, a temperature exceeding approximately 900° F., and under a continuous, moving gaseous pressure differential over the atmospheric pressure outside of said chamber in excess of 25 pounds per square inch and sufficient to overcome the back pressure in said chamber created by said gas, whereby said streams will be sprayed together through said restricted orifice, and the lead will be reduced to finely divided particles before congealing.

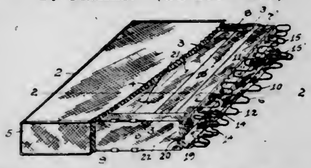
22,495

SPRING UNIT FOR SPRING CUSHIONS

Morris Freund, Cleveland, Ohio, assignor, by mesne assignments, to John C. Lincoln, Scottsdale, Ariz.

Original No. 2,201,997, dated May 28, 1940, Serial No. 83,547, June 4, 1936. Renewed July 12, 1939. Application for reissue March 17, 1941, Serial No. 383,889

17 Claims. (Cl. 155—179)



1. A wire spring structure for soft spring cushion units comprising horizontally corrugated straight portions arranged in spaced relation parallel to and above each other, and similarly, corrugated V-shaped spacing means with a sharp-edged apex, said means being integral with and extending inwardly from the opposite ends of said portions and connecting same yieldingly and vertically shiftably with each other.

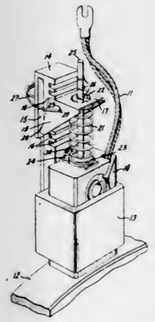
22,496

BRUSH HOLDER

Alexander P. Wood, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original No. 2,341,304, dated February 8, 1944, Serial No. 466,595, November 23, 1942. Application for reissue April 21, 1944, Serial No. 532,096

9 Claims. (Cl. 171—324)



9. A brush holder having a brush guiding member, a stem extending from said guiding member, a plurality of slots extending transversely in said stem, a pressure plate adapted to fit into said stem slots, resilient means for biasing a brush through said guiding member and biasing said pressure plate into one of said stem slots for holding said pressure plate in a predetermined position to provide a predetermined pressure on the brush, and resilient means arranged for engagement with said pressure plate and for engagement with said stem for resiliently holding said pressure plate in position in said stem groove to minimize dislodgement of said pressure plate due to transient shocks and reductions in biasing spring pressure on said pressure plate.

PATENTS

GRANTED JUNE 13, 1944

2,350,977

COMPOSITION TO BE USED AS A BINDER IN ROAD CONSTRUCTION AND ITS PROCESS OF MANUFACTURE

Carl Alexander Agthe, Zurich, Switzerland, assignor to the firm J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application December 8, 1939, Serial No. 308,295. In Switzerland January 5, 1939

2 Claims. (Cl. 106—220)

2. A binder for use in roadmaking consisting of the product resulting from melting together 60 parts of rosin, 20 parts of soya bean oil and 20 parts of anthraquinone oil, adding 1½ parts of calcium oxide and then heating the material under reflux to about 130° C. for 8 hours while stirring.

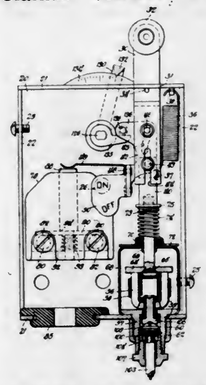
2,350,978

COMBINED SAFETY SWITCH AND LIMIT CONTROL

Henry F. Alfery, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application June 19, 1941, Serial No. 398,756

8 Claims. (Cl. 200—87)



1. In a device of the class described, in combination, a reset stem, an actuator member, a cam lever pivoted to said reset stem, cam means on said actuator member for cooperation with said lever, said actuator member cooperating with said reset stem independently of said cam lever for resetting said stem to reset position, means for holding said reset stem in reset position, a controlling member actuated to operating position by swinging movement imparted to said cam lever by cooperation of the cam means on the actuator member therewith upon movement of said actuator member to released position with said reset stem held in reset position, movement of said reset stem to retracted position upon release of said holding means swinging said cam lever in a counterdirection by cooperation between said cam lever and the cam means on said actuator member for movement of said controlling member to safety position, and limit control means cooperable with said cam lever and operable to separate said reset stem from said holding means for movement of said controlling member to safety position.

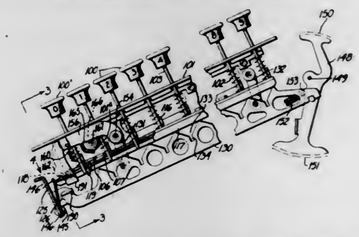
2,350,979

CALCULATING MACHINE

Harold T. Avery, De Witt M. Grimm, and Frederick N. Schwend, Oakland, Calif., assignors to Marchant Calculating Machine Company, a corporation of California

Application March 23, 1942, Serial No. 435,806

21 Claims. (Cl. 235—145)



1. In a calculating machine, the combination with a keyboard having a row of depressible keys, means for holding a depressed one of said keys in depressed position, and releasing means for moving said holding means to release said depressed key; of a blocking device effective to block movement of said holding means by said releasing means, means settable by any of a plurality of said keys upon depression thereof for maintaining said blocking device in blocking position, and manipulable means selectively settable to maintain said blocking device out of blocking position or to cause said device to move to the blocking position in which it may be maintained by said key set means.

2,350,980

RESILIENT WHEEL FOR VEHICLES

Manuel Benito y de la Rosa and Delina Clavijo y Garcia, Habana, Cuba

Application January 29, 1943, Serial No. 473,906

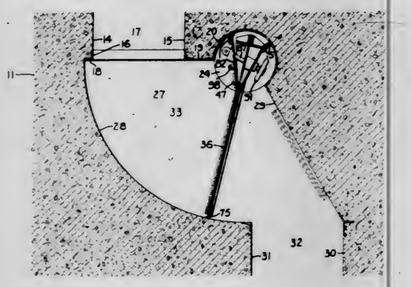
In Cuba January 30, 1942

3 Claims. (Cl. 152—7)



1. A wheel comprising a plain metallic rim having at intervals thereof upward projections, a series of metallic channeled shells disposed transversally one adjacent the other and each shell being provided with a downward projection, a circumferential rubber band disposed between the upper projections of the rim and the lower projections of the metallic shells, a series of cushion blocks respectively lodged in the metallic channeled shells, a series of fiber blocks disposed respectively on the cushion blocks and forming the tread surface of the wheel tire, and tying members tightening each fiber block on the rim through each cushion block and its shell and through the circumferential rubber band.

2,350,981
DOOR FOR BOMB AND GAS RESISTING SHELTERS, BUILDINGS, AND THE LIKE
Palmer Bescherer, York, Pa., assignor to York Safe and Lock Company, York, Pa., a corporation of Delaware
Application May 21, 1942, Serial No. 443,890
8 Claims. (Cl. 20—16)



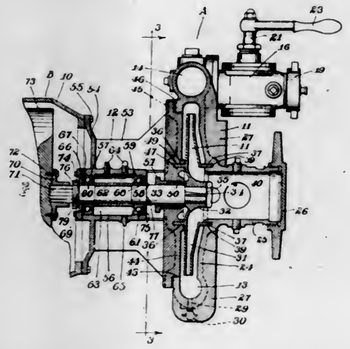
8. In a structure of the class described, a wall having an entrance passageway formed therein, a cylindrical cavity formed vertically in said wall in spaced relation and offset with respect to said passageway, a ledge formed in said structure between the passageway and said cavity, a closure element for closing said entrance passageway, said closure element having pivotal connections with said wall arranged concentric with the vertical center of said cavity, said ledge limiting the swinging movement of said closure element in one direction, and a plate pivotally carried by said closure element and movable independently with respect to said closure element and having a portion engageable with the wall of said cavity for retarding the swinging movement of said closure element.

2,350,982
METHOD AND COMPOSITION OF GROWING PLANTS WITH SOLUTIONS
Theodore E. Borst, Clinton, N. Y., assignor to Samuel W. Meek, Greenwich, Conn.
No Drawing. Application October 15, 1940, Serial No. 361,237
12 Claims. (Cl. 71—1)

1. In a method of growing a plant by means of a liquid nutrient medium, the step of feeding the plant with a solution in which the concentration of all essential nutrient elements dissolved in said medium is controlled by providing therein an undissolved excess of relatively insoluble compounds of said nutrient elements together with a buffering agent in such quantities that the pH of said medium is maintained substantially constant and the effective ionic concentration of said elements is controlled as long as said undissolved excess remains.

2,350,983
CENTRIFUGAL PUMP
Ralph R. Boyles and Edward A. Wilhelm, St. Paul, Minn., assignors to Waterous Company, St. Paul, Minn., a corporation of Minnesota
Application April 10, 1942, Serial No. 438,450
6 Claims. (Cl. 103—87)

1. In a centrifugal pump for use in combination with an engine, a casing including a volute, an axial intake in one side of said casing, the other side of the casing having an opening therein, an impeller in said casing, an impeller shaft on which said impeller is mounted, a closure plate for said opening in said casing through which said shaft extends, a bearing support integral with said closure plate and spaced therefrom, a series of angularly spaced webs connecting said closure plate and said bearing support and



spaced from said shaft, a stuffing box encircling said shaft and sealing the joint between the shaft and said closure plate, axially spaced bearing means capable of completely supporting said impeller shaft in said bearing support, and an engine closure plate integral with said bearing support.

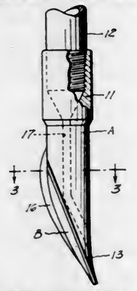
2,350,984
SELECTIVE CHLORINATION OF PROPYLENE IN THE PRESENCE OF ACETYLENES
Edgar C. Britton and Myron E. Huscher, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 30, 1941, Serial No. 409,121
4 Claims. (Cl. 260—660)

1. A method of separating a lower acetylenic hydrocarbon from a mixture essentially comprising the same and propylene which consists in treating the mixture, while dissolved in an organic liquid less reactive with chlorine than the unsaturated components of the mixture, with chlorine in a proportion sufficient to react with substantially all of the propylene to form a chloropropane without appreciably reacting with the acetylenic hydrocarbon, and recovering the acetylenic hydrocarbon.

2,350,985
SOLUTION FOR THE PREPARATION OF RAYON
Kenneth R. Brown, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 10, 1942, Serial No. 450,489
7 Claims. (Cl. 106—167)

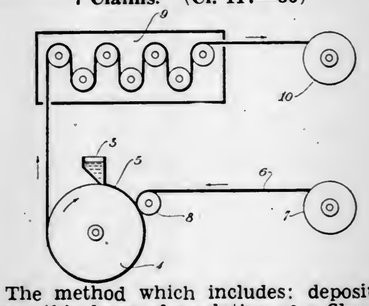
1. A cuprammonium solution of cellulose for use in the manufacture of rayon containing a stabilizing agent which comprises a water soluble hydroxy alkylene ether of a polyhydric compound, said polyhydric compound containing at least 2 hydroxyl groups.

2,350,986
DEFLECTING DRILL BIT
Charles P. Collins, Dallas, Tex., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California
Application May 3, 1943, Serial No. 485,435
5 Claims. (Cl. 255—61)



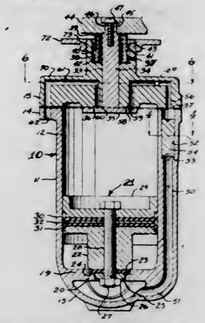
1. A deflecting bit including, a bit body adapted to be connected to the lower end of a drill pipe, the upper portion of the body being substantially elliptical in cross-section and having its longitudinal axis alined with the axis of the drill pipe, the lower portion of said body being curved or offset from the upper portion and being gradually reduced to a point at its extreme lower end, a pair of side cutting blades on the exterior of the body and located diametrically opposite each other, each cutting blade being gradually reduced in size toward its lower end so as to merge into the outer surface of the body at a point adjacent the extreme lower end of the body, and a rear cutting element extending vertically on the trailing side of the body and having its lower portion gradually reduced so as to merge into the exterior surface of said body.

2,350,987
METHOD OF MAKING HIGHLY GLAZED FILM COATINGS
William R. Collings, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application April 27, 1942, Serial No. 440,573
7 Claims. (Cl. 117—86)



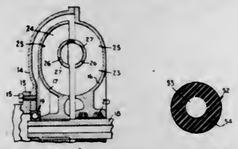
1. The method which includes: depositing a uniform thin layer of a solution of a film-forming substance in a volatile solvent on a polished metal surface; partially drying the solution on the polished surface; superposing and pressing thereon a dry coated face of a flexible sheet coated on at least one side with a film soluble in the said voltaile solvent and adapted to adhere to the said film-forming substance; stripping the compositely coated sheet from the polished surface; and drying the coated sheet.

2,350,988
VALVE
Harry J. McCombs Burdick, Anaheim, Calif.
Application March 27, 1942, Serial No. 436,399
5 Claims. (Cl. 251—87)



1. In a fluid control device, a housing, a closure for said housing, said closure having a plane lower face and having a bore therethrough, a regulating member having a stem rotatable in said bore, a flange on the inner end of said stem, said housing including a conduit, said flange and closure having coacting means operable to control flow through said conduit, said closure having a recess therein about said stem, a pair of telescoping sleeves in said recess, said sleeves having end flanges, a spring about said stem and engaging said end flanges, and means to prevent relative rotation between said sleeve members.

2,350,989
TRANSMISSION
Burnie J. Craig, Los Angeles County, Calif.
Application May 29, 1940, Serial No. 337,890
2 Claims. (Cl. 60—54)



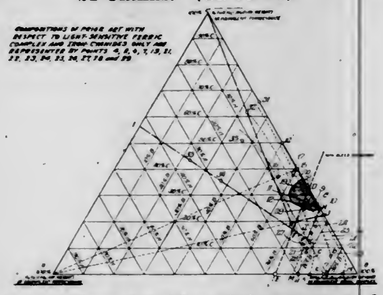
1. In a fluid transmission, a fluid turbo device having a primary member normally driven by an input shaft and a secondary member subject to the torque of a load shaft, the device including a working circuit which includes a liquid having therein hollow, discrete, non-coalescing, inflated, elastic members of a size to be freely movable in and with the liquid.

2,350,990
HYDRAULIC MEDIUM
Burnie J. Craig, Los Angeles County, Calif.
Application October 12, 1942, Serial No. 461,819
16 Claims. (Cl. 252—1)



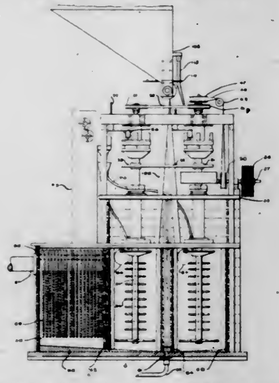
1. A hydraulic medium comprising a liquid, and discrete, resilient, hollow, independently walled, inflated members distributed throughout the liquid, the liquid being of suitable viscosity at the temperature employed and being of such character that it does not impair the members suspended therein.

2,350,991
BLUEPRINT SENSITIZER
Clyde A. Crowley, Chicago, and George H. Goodyear, Wilmette, Ill., assignors to The Huey Co., Chicago, Ill., a corporation of Illinois
Application August 16, 1941, Serial No. 407,162
21 Claims. (Cl. 95—6)



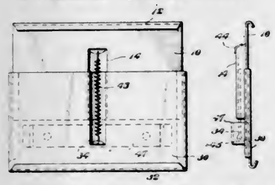
1. A sensitizer for blueprint papers and the like, containing a ferrocyanide salt, a ferricyanide salt, a light-sensitive ferric compound, and non-pigment-forming substances, in which the total iron-cyanide content is at least 72% of that quantity required to be chemically equivalent to the light-sensitive ferric compound, and in which the ferricyanide content is less than 50 molal percent of the total content of iron-cyanide compounds, and in which the weight of non-pigment-forming substances is not more than 1.5 times the weight of all iron-cyanide compounds, calculated as potassium ferrocyanide.

2,350,992
ELECTROCHEMICAL VALUE RECOVERY APPARATUS
Walter E. Cummins, Santa Maria, and Wallace W. Stapp, Long Beach, Calif.
Application October 7, 1941, Serial No. 413,946
7 Claims. (Cl. 209—179)



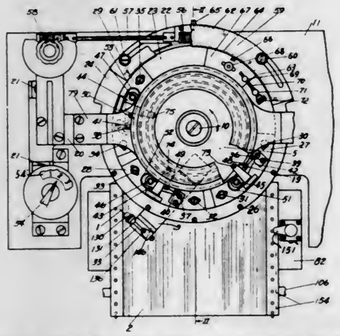
1. A value recovering apparatus comprising an elongated container, a partition means in the container providing a plurality of receptacles and an amalgam chamber, said receptacles having closed bottoms, means to supply pulp to each receptacle, a vertically arranged rotary member in each receptacle, a plurality of electrodes on each rotary member, means to drive said rotary members, means on the rotary members to urge pulp downwardly in each receptacle, means adjacent the lower part of the container to afford communication between the receptacles and the chamber, said amalgam chamber having an outlet adjacent to the top thereof, a plurality of amalgam plates in the chamber, a normally open drain in the container, said receptacle and chamber bottoms sloping to the drain, means to supply mercury to each receptacle, and means to supply a chemical agent to each receptacle.

2,350,993
LICENSE PLATE HOLDER
William J. Aigner and Aloysius J. Schueneman, Waukegan, Ill.
Application May 17, 1941, Serial No. 393,862
4 Claims. (Cl. 40—125)



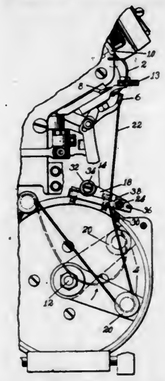
1. A license plate holder for automobiles, comprising upper and lower license-supporting plates, each of said plates being less in height than the license but both jointly of greater height than the license plate, rearwardly turned flanges on the opposite sides of one of said supporting plates, providing a channel for the other of said plates to slide vertically therein, a forwardly turned flange on the top of the upper supporting plate, a forwardly turned flange on the bottom of the lower supporting plate, a tension spring secured to the opposite extremities of the supporting plates to urge the supporting plates together to clamp a license plate between the upper and lower flanges and a mounting bracket on the rear of one of said supporting plates to mount the assembly on a vehicle.

2,350,994
RECORDER
Albert E. Anderson, Holbrook, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application March 6, 1940, Serial No. 322,557
2 Claims. (Cl. 177—386)



1. In a depth sounding recorder having an indicating means and a reference means, means for recording selectively different sections of the complete range of depths with the indicating means moving across said reference means, comprising said indicating means, means carrying said indicating means for rotating the same in continuous rotation, a part of said rotation comprising an arc across said reference means, a cam supported in fixed relationship with said rotating means, a member concentric with said rotating means and said cam and having mounted thereon a plurality of pairs of switch contacts adapted to be successively closed by the movement of said cam and to control the production of the sounding impulse with reference to the instantaneous position of said indicating means in its rotation with reference to the reference means, means for adjusting the position of said member relative to the position of said indicating means when set in a given fixed position on said reference means, and means for selecting one of said pairs of switch contacts to select the desired section of the range to be recorded.

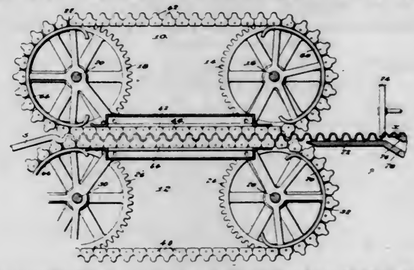
2,350,995
THREAD TENSION FOR SEWING MACHINES
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 5, 1942, Serial No. 460,743
10 Claims. (Cl. 112—59)



3. In a sewing machine having a hook needle and a take-up acting to take up and give up thread and to move the thread transversely of its length, a tensioning device between the take-up and the work including a block and a plate having cooperating thread-engaging surfaces between and along which the thread moves, and yielding means near one end of the plate for exerting a varying pressure through the plate on the thread as it moves along said surfaces in a direction transversely of the length of the thread.

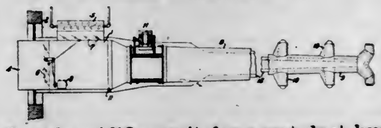
2,350,996
METHOD OF FORMING PIPE COVERINGS
Warren H. Atkinson, Mount Lebanon, Pa., and Howard W. Collins, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application January 6, 1940, Serial No. 312,718
4 Claims. (Cl. 18—56)

1. The method of producing semi-cylindrical half-sections of pipe covering from a mat of glass wool, which comprises applying bonding material to said mat, feeding said mat forward continuously and progressively compressing the mat in a transverse direction by engaging the mat successively at opposite sides with mating dies and moving said dies toward each other to compact the mat and simultaneously shape the mat into corrugated form, maintaining said dies in compacting relation while moving them in the direction of feeding movement of the mat to hold the mat in compressed and shaped relation as it advances, hardening said bonding material while the mat is held compressed by said



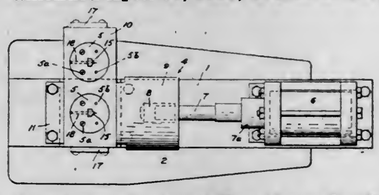
dies to produce a rigid form-retaining body, and severing the rigid corrugated mat at the juncture of each adjacent inverse and reverse bend.

2,350,997
HUMIDIFIER UNIT
Agnew H. Bahnson, Jr., Winston-Salem, N. C.
Application February 13, 1941, Serial No. 378,816
5 Claims. (Cl. 261—30)



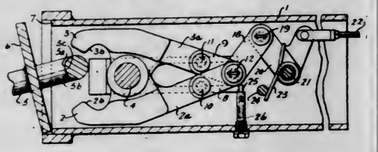
1. In a humidifier unit for a wet duct humidifier system, a housing comprising annular end frames, a housing plate permanently attached to said frames, a removable cover plate detachably secured to said frames and flanges on said first plate, a skeleton framework secured to said housing, fan shaft bearings on said framework, a fan shaft journalled in said bearings, a fan and a pulley on said shaft, a motor and means supporting the same upon the housing, a belt drive coupling said motor to said fan shaft, water-atomizing means including a rotatable disk on a shaft, means supporting said disk shaft within said housing, a pulley on said disk shaft, and a belt drive coupling said disk shaft to said motor.

2,350,998
PIN SPREADER
Frederick H. Beach, Denville, N. J.
Application July 20, 1942, Serial No. 451,675
2 Claims. (Cl. 153—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A machine for spreading the ends of cotter pins, comprising a bed, a plate slidably mounted on said bed for transverse movement thereon, a plurality of bosses on said plate each provided with a pin spreading template thereon, a reciprocable head for engagement with the eye and of a cotter pin when a template is in line with said head, means for reciprocating the head, and means carried by the plate for engagement with a fixed part of the machine to stop the plate with a boss in line with the reciprocable head in either direction of movement of the plate.

2,350,999
AIRPLANE TOWING MEANS
John C. Beirise, Dayton, Ohio
Application October 27, 1942, Serial No. 463,556
4 Claims. (Cl. 280—33.15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



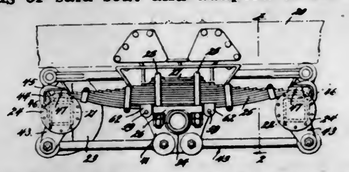
1. Means of the class described, in combination, a draft member, a housing having an opening for receiving the draft member, locking means associated therewith and positioned therein and cooperable with said draft member for detachably securing the same with respect to said housing, and a guide member rigid with said draft member and cooperable with said housing for causing the draft member to move under draft in a predetermined relation to the locking means upon unlocking of the latter, whereby the draft member will be drawn free of the locking means in the uncoupling operation regardless of the direction of the draft pull, said housing having a shoulder providing a seat adjacent said opening and the guide member comprising a cover-plate engaging said seat and closing said housing when seated.

2,351,000
PROCESS OF MAKING 2,2,3 TRICHLORO- AND TRIBROMO-ALKANAL-1 COMPOUNDS AND THE HYDRATES THEREOF
Ralph L. Brown, Swarthmore, Pa., and Ralph E. Plump, Haddonfield, N. J., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 5, 1941, Serial No. 377,572
15 Claims. (Cl. 260—601)

1. The step in the process of preparing a product of the formula RCHX—CXX—CHO, where R is selected from the group consisting of hydrogen and an alkyl group having 1 to 4 carbon atoms and X is selected from the group consisting of chlorine and bromine, which comprises reacting, in the presence of water and at a temperature of at least about 50° C., a compound of the formula RCHX—CHX—CHO, where R is selected from the group consisting of hydrogen and an alkyl group having 1 to 4 carbon atoms and X is selected from the group consisting of chlorine and bromine, with material selected from the group consisting of chlorine and bromine to form said product.

2,351,001
SUSPENSION FOR MULTIWHEEL VEHICLES
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application January 6, 1943, Serial No. 471,493
5 Claims. (Cl. 280—124)

1. In a multi-wheel vehicle having a frame, a pair of tandem axles disposed at one end of the frame and a suspension at each side of the frame for supporting the latter upon the axles, and in which each suspension includes a leaf spring extending longitudinally of the frame, with its mid-portion pivotally connected thereto and having its ends secured to the axles through connections designed to limit relative axial shifting movement of the axles and frame, a rigid seat assembly for pivotally mounting said leaf spring upon said frame, comprising a seat providing an elongated, longitudinally extending bearing surface upon which the spring is adapted to rest; pairs of clamp plates coacting with the ends of said seat and adapted to be drawn



into lateral engagement with the sides of said spring and with opposed pairs of side faces provided adjacent the ends of said seat, to positively insure maintenance of the longitudinal center line of said spring within a predetermined vertical plane extending longitudinally of the vehicle; and means for positively drawing said clamp plates into said lateral engagements, the ends of said seat being strongly resistant to lateral compressive forces, whereby when said adjustable means is taken up said spring seat will adequately resist distortion.

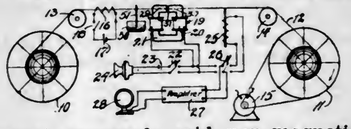
2,351,002
EMERGENCY LANDING RUNWAY
Gus Burton, Wadley, Ga.
Application November 18, 1941, Serial No. 419,631
2 Claims. (Cl. 244—114)



1. An emergency landing runway for airplanes comprising a skeleton frame having side and end walls, longitudinal stringers mounted between the walls, traction rollers journaled between the stringers and the walls, downwardly inclined roller-protecting plates diverging at their lower ends and defining roller-receiving pockets widened at their lower ends, a filler for said frame extending flush with the top of the frame and said plates, the rollers extending above the surface of the filler and plates to provide traction for a disabled plane landing upon and moving over the runway, and a downwardly inclined flange merging in the top of the frame to guide an airplane up to the top face of the runway.

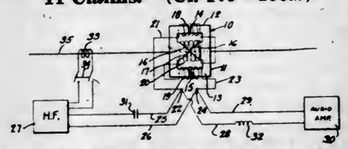
2,351,003
RECORDING AND REPRODUCING OF VIBRATIONS
Marvin Camras and William Korzon, Chicago, Ill., assignors to Armour Research Foundation, Chicago, Ill., a corporation of Illinois
Application September 11, 1940, Serial No. 356,324
15 Claims. (Cl. 179—100.2)

1. In a device of the character described, an electro-magnet having a metallic core portion defining a pair of polar portions with confronting closely-spaced pole faces and forming a non-magnetic gap therebetween, a passageway extending through the polar portions and opening into the space between said pole faces, and a record medium movable lengthwise through said passage and passing through said space, said polar portions being positioned with respect to said electro-magnet in such a manner that said elec-



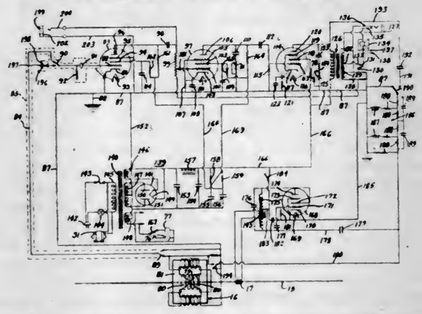
tro-magnet surrounds said non-magnetic gap, whereby the M. M. F. drop in the magnet circuit is substantially entirely across said non-magnetic gap, and whereby adjacent portions of said polar portions are free of any M. M. F. drop.

2,351,004
METHOD AND MEANS OF MAGNETIC RECORDING
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois
Application December 22, 1941, Serial No. 423,928
11 Claims. (Cl. 179—100.2)



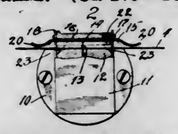
1. The method of magnetically recording sound on a paramagnetic body which includes longitudinally magnetizing the body by a rapidly fluctuating magnetic field, the range of fluctuation of the magnetic field being substantially constant but the average values of the field force being varied as a function of the sound vibrations to be recorded.

2,351,005
MAGNETIC RECORDER
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois
Application July 27, 1942, Serial No. 452,419
4 Claims. (Cl. 179—100.2)



1. A magnetic recording and reproducing unit comprising an electromagnetic head through which an elongated record medium is arranged to pass, an audio amplifier, a speaker, a high frequency oscillator, means to connect said electromagnetic head to the input of said audio amplifier and said speaker to the output of said audio amplifier when said unit is being used as a reproducer, means arranged to connect a microphone to the input of said amplifier and to connect the output of said amplifier to said electromagnetic head when said unit is being used as a recorder, and means for also connecting said high frequency oscillator to said head when said unit is being used as a recorder.

2,351,006
MAGNETIC RECORDING HEAD
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois
Application July 27, 1942, Serial No. 452,420
11 Claims. (Cl. 179—100.2)



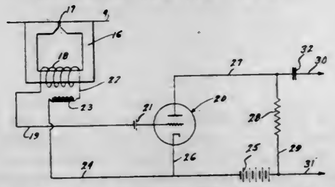
1. In a magnetic recording head, a paramagnetic block having an opening therethrough to accommodate a traveling wire, said opening including both a smaller part to accommodate the normal wire and a larger part to accommodate a splice in the wire, and means associated with said block to automatically shift the wire so the splice will travel through the larger part of said opening.

2,351,007
MAGNETIC RECORDING HEAD
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois
Application August 10, 1942, Serial No. 454,217
12 Claims. (Cl. 179—100.2)



1. In a magnetic recording head, a U-shape paramagnetic core having directly confronting pole pieces with a non-magnetic gap therebetween, said pole pieces tapering laterally toward said gap to concentrate the magnetic field at the gap, and said pole pieces having a groove therein to accommodate a traveling recording medium.

2,351,008
METHOD OF AND MEANS FOR NEUTRALIZING INDUCTIVE DISTURBANCES IN MAGNETIC REPRODUCERS
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois
Application November 18, 1942, Serial No. 465,967
5 Claims. (Cl. 179—100.2)



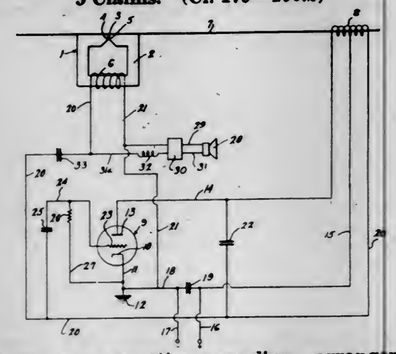
1. In a device for reproducing magnetic recordings, an input magnet responsive to magnetic variations along an elongated recording medium, said magnet having a coil, and an auxiliary pick-up coil connected in circuit with the magnet coil and arranged to substantially neutralize the effect of stray voltages induced in the magnet coil regardless of the general location of said device.

2,351,009

COMBINATION OSCILLATOR COIL AND ERASING HEAD FOR MAGNETIC RECORDERS

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois

Application November 18, 1942, Serial No. 465,968
5 Claims. (Cl. 179—100.2)



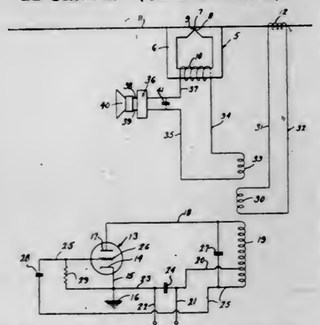
1. In a magnetic recording arrangement wherein a sound recording is made by magnetizing an elongated medium, a magnetizing head including a coil for magnetizing the medium, an oscillator arranged to feed said coil, said oscillator having a frequency determining circuit including an inductance coil, and said inductance coil being positioned so the medium must pass through the magnetic field produced thereby and be demagnetized before reaching said magnetizing head.

2,351,010

METHOD OF AND MEANS FOR CONTROLLING HIGH FREQUENCY VOLTAGE IN MAGNETIC RECORDER HEADS

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois

Application December 26, 1942, Serial No. 470,207
11 Claims. (Cl. 179—100.2)



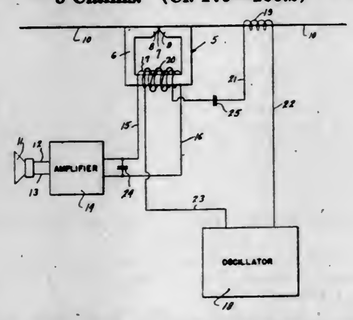
1. In a magnetic recording device, an oscillatory circuit, a bucking circuit, a magnetizing circuit, each of said circuits embodying a coil, and said coils being inductively coupled with the coil of the bucking circuit between the coils of the oscillatory and magnetizing circuits, the coil of the bucking circuit being oriented to oppose the coil of the oscillatory circuit, and the coil of the magnetizing circuit not being oriented with respect to the oscillatory circuit coil so the magnetizing circuit coil receives an induced voltage which is a result of the summation of the fields of the other two coils.

2,351,011

METHOD OF AND MEANS FOR ENERGIZING MAGNETIC RECORDER HEADS

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois

Application February 25, 1943, Serial No. 477,057
8 Claims. (Cl. 179—100.2)



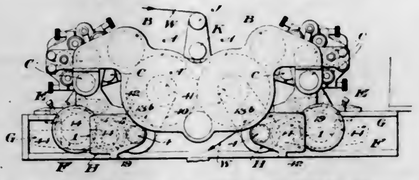
1. In a magnetic recording device, a recording head to magnetize a traveling paramagnetic medium, an audio circuit including a coil disposed to set up a magnetic field in said recording head, and an oscillatory circuit including a pair of coils in series of which one is disposed to set up a magnetic field in said recording head and the other is positioned to demagnetize said medium in advance of said recording head.

2,351,012

INK FOUNTAIN DRIVE

Albert J. Carpenter, Jr., Battle Creek, Mich., assignor to The Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan

Application October 8, 1942, Serial No. 461,335
10 Claims. (Cl. 101—216)



1. In combination, a printing press having cooperating printing members; means for driving the printing members; an ink fountain; an ink fountain roll cooperating with the fountain for supplying ink to the printing members; and a unidirectional drive for said roll comprising a drive shaft adapted to be driven in either direction, a driven shaft driving the fountain roll, a pair of rotatable members on the driven shaft rotated in opposite directions by the drive shaft, and clutch means in said respective rotatable members acting in the same direction for causing rotation of the driven shaft in a constant direction by whichever rotatable member is rotating in said direction.

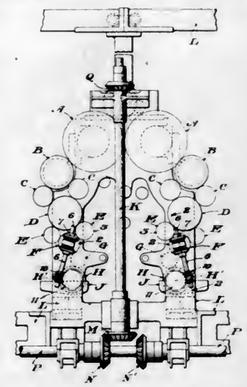
2,351,013

PRINTING PRESS

Albert J. Carpenter, Jr., Battle Creek, Mich., assignor to The Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan

Application October 31, 1942, Serial No. 464,073
12 Claims. (Cl. 101—216)

1. In a printing press, an ink drum, a gear on the ink drum, an ink fountain roll, a fountain drive shaft and connecting members driving the fountain roll; a pair of gears journaled on the said shaft meshing with the first mentioned gear and driven thereby in opposite directions and clutch means mounted on the shaft between



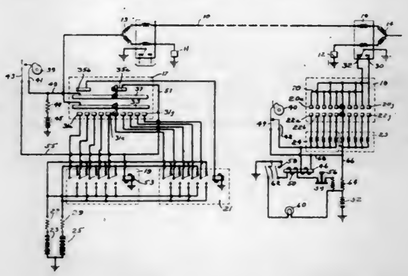
and cooperating with said pair of gears and acting in the same direction for causing rotation of the fountain drive shaft in a constant direction by whichever gear of the pair is rotating in said direction.

2,351,014

ALARM FOR SYNCHRONOUS TELEGRAPH CIRCUITS

Alder F. Connery, Great Neck, N. Y., and Eric R. C. Coe, Chatham, N. J., assignors to Postal Telegraph-Cable Company (New York), New York, N. Y., a corporation of New York

Application December 30, 1942, Serial No. 470,574
11 Claims. (Cl. 178—53)



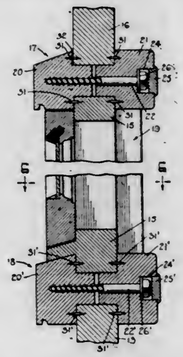
1. In a synchronous telegraph system, in combination, a transmitting terminal comprising a transmitter and a distributor, a receiving terminal comprising a receiving relay, receiving distributor and a recorder, means for periodically interrupting transmission from said transmitter, means for transmitting a special signal during said period of interruption, circuit means controlled jointly by said receiving relay and receiving distributor for normally rendering inoperative the recorder during substantially undistorted reception of the special signal, an alarm device in circuit with the recorder, and means operating synchronously with the transmitter interrupting means for rendering said alarm device operative during transmission of the special signal whereby an alarm is given when said special signal is abnormally distorted during transmission.

2,351,015

BUILDING CONSTRUCTION

Robert L. Davison, New York, N. Y.

Application December 16, 1941, Serial No. 423,142
5 Claims. (Cl. 20—4)



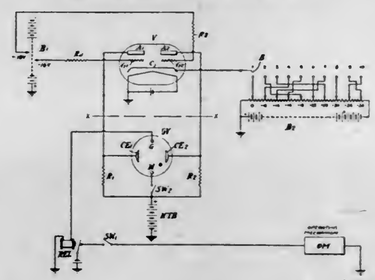
1. In building construction, structurally joining means comprising a pair of long jaw elements having jaw faces defining long receiving pocket means on mutually opposite sides thereof for receiving, and for clamping into position therewith, associated structure; and adjustable connecting elements joining said jaw elements at spaced locations along the lengths thereof and arranged for clamping said jaw elements together and for unclamping said jaw elements, one of said jaw elements providing a continuous outer window framing structure, and the other jaw element providing a continuous inner window framing structure.

2,351,016

ELECTRICAL CONTROL SYSTEM

Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application September 14, 1942, Serial No. 458,297
23 Claims. (Cl. 179—16)



1. An electrical control system comprising two current conducting means having different voltage-current characteristics such that for a predetermined voltage applied to them the difference between the magnitudes of the currents flowing through them is a maximum and for voltages either greater or less than said predetermined voltage the said current difference rapidly decreases, means for deriving from said currents a potential difference dependent upon said current difference, a control means arranged to be actuated only by a potential exceeding a predetermined value, and means for applying said potential difference to said control means.

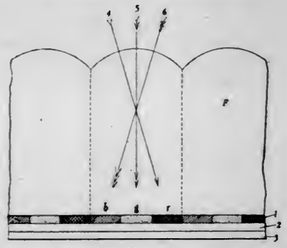
2,351,017
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application October 26, 1942, Serial No. 463,437
4 Claims. (Cl. 252—334)

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier comprising the 2-amino-2-methylpentanol-4 salt of water-soluble, non-hydrophobe petroleum sulfonic acids of the green acid type.

2,351,018
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application November 30, 1942, Serial No. 467,476
7 Claims. (Cl. 252—340)

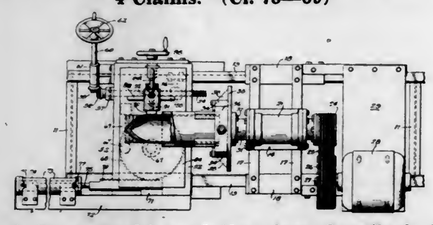
1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier comprising an oxyalkylated drastically-oxidized dehydrated ricinoleic said compound.

2,351,019
COLOR FILM
Anne Henri Jacques de Lassus Saint Genies, Versailles, France; vested in the Alien Property Custodian
Application June 10, 1940, Serial No. 339,812
In France March 31, 1938
8 Claims. (Cl. 95—2)



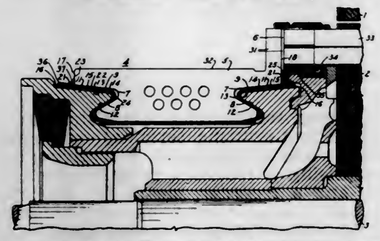
1. Method of obtaining a photograph in color on a lenticular film with the separation records distributed in at least three layers of emulsions sensitized to different spectral radiations and superposed on the smooth surface of said lenticular film, which comprises exposing through the lenticultions and developing the film to form in the layer adjacent to the smooth surface of the film a complete temporary, lenticular three color record in black and white of the subject, successively subjecting the film to illuminations of different radiations directed through the lenticulations, each time in such a direction as to illuminate with the proper radiation one only of said black and white separation records to produce in one only of the emulsion layers, while beginning by the layer the most distant from the smooth surface of the film, a latent record of the separation record illuminated, developing and coloring said latent record, repeating for each successive layer the illuminating and developing and coloring operations for the remaining separation records, the treatment of these layers being one at a time starting with that layer in contact with the air, and dissolving out any remaining reduced silver and silver halide from all of the layers.

2,351,020
MACHINE FOR INTURNING TUBE ENDS
Clarence L. Dewey, Elkhart, Ind.
Application November 14, 1942, Serial No. 465,628
4 Claims. (Cl. 78—89)



1. In a machine of the class described, the combination of a chuck member adapted to engage the rear end of a tube section and present its forward end in position to be acted upon, a carriage located in laterally spaced adjacent relation to the forward end of the tube section, means for imparting relative longitudinal and rotational movements between the carriage and the chuck, an oscillating member carried by the carriage and mounted to swing on an axis extending transversely to the axis of the tube section, adjusting means connecting the oscillating member and carriage and operable to impart relative transverse movement therebetween for laterally adjusting the position of the axis of the oscillating member with respect to the axis of the tube section, and a forming tool carried by the oscillating member and positioned to engage the more distant end edge wall of the tube section.

2,351,021
COMMUTATOR ASSEMBLY
Winfred O. Dick, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 6, 1942, Serial No. 446,043
8 Claims. (Cl. 171—321)



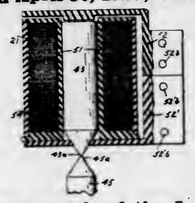
1. A substantially pre-seasoned V-ring commutator-assembly of commutator-bars and insulating bars separating the commutator-bars, said bars having V-grooves in the ends thereof, said V-grooves having inclined inner, arch-binding surfaces; insulating V-rings; clamping V-rings having inner, conical surfaces tightly engaging the inner, arch-binding surfaces of the V-grooves, with the insulating V-rings interposed in between, and with the outer surface of the clamping V-rings spaced out of pressure-transmitting engagement with respect to the outer surface of

the V-grooves; and means outside of the entrance to each of the clearance-spaces between the outer surfaces of the clamping V-rings and the V-grooves for flexibly sealing said clearance-space against the accidental entry of foreign matter thereinto.

2,351,022
FLOORING
William W. Donelson, Boston, and John W. Downey, Newton Center, Mass., assignors to The Federal Flooring Corporation, Boston, Mass., a corporation of Massachusetts
No Drawing. Application December 17, 1941, Serial No. 423,330
8 Claims. (Cl. 106—106)

1. A composition flooring non-productive of sparks due to impact of other materials therewith and including in its construction calcined magnesite and finely divided coke mixed with liquid magnesium chloride, the coke being proportionately in excess of the magnesite and graded and sized to give substantial strength to the flooring and form a smooth top surface and the flooring being a good conductor of electricity under dry and moist conditions, and electro-conductive means grounding the flooring to dissipate static charges therefrom.

2,351,023
CHRONOGRAPH
James V. Dunham, Southampton, Pa.
Application November 13, 1941, Serial No. 419,033
9 Claims. (Cl. 161—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a chronograph of the Le Boulenge type wherein the current in at least one magnetic coil circuit embodying a core and a movable registrar in association with said coil is altered in the process of measuring a time interval, the combination with the said coil and said core of an insulating support which permits a minimum flow of eddy currents when the current in the coil alters.

2,351,024
GLYCERINE ARYL METHYL ETHERS
Theodore W. Evans and Kenneth E. Marple, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 30, 1940, Serial No. 354,836
10 Claims. (Cl. 260—615)

1. A process for the production of an aryl methyl diether of glycerol which comprises the steps of reacting a phenol with sodium hydroxide to form a sodium salt of said phenol, reacting said sodium salt with α-monomethyl ether of glycerol monochlorhydrin in the presence of dioxane, filtering formed sodium chloride from the reaction mixture, and distilling the α-aryl α'-methyl glyceryl diether from the reaction mixture at subatmospheric pressure.

2,351,025
PREPARATION OF ARYL ETHERS OF TRIHYDRIC ALCOHOLS
Kenneth E. Marple and Theodore W. Evans, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 21, 1941, Serial No. 375,256
4 Claims. (Cl. 260—613)

1. A process for the production of an aryl ether of a trihydric alcohol which comprises reacting a phenol with an alkali metal hydroxide to form an alkali metal salt of said phenol and subsequently reacting said alkali metal salt of the phenol with a derivative of a trihydric alcohol, which derivative contains at least one hydroxy group substituted by a halogen atom, each of said reactions being conducted in the presence of a sufficient amount of a dioxane as the sole added reaction medium to precipitate alkali metal halide salt formed in the etherification step from the reaction mixture under the reaction conditions.

2,351,026
THERMIONIC TUBE
Edwin C. Ewing, Chicago, Ill., assignor to Zenith Radio Corporation, Chicago, Ill., a corporation of Illinois
Application April 1, 1941, Serial No. 386,377
8 Claims. (Cl. 250—27.5)

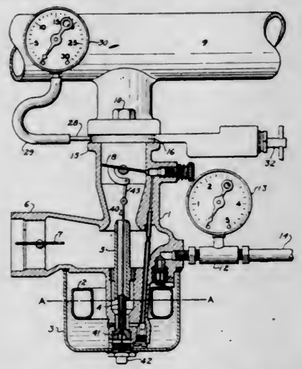


1. A vacuum tube comprising an envelope, a filament therein supported by its two ends, a grid encircling said filament and being flattened in cross section whereby two opposite wall portions thereof are in close proximity to the filament and the wall portions at 90 degrees from the first named wall portions are relatively remote from the filament, and a plate comprising an end portion and two wing portions extending lengthwise of the filament outside said first named grid wall portions but not outside said second named grid wall portions.

2,351,027
METHOD OF TESTING CARBURETORS
William M. Ewart, Webster Groves, and John H. Klasey, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Original application June 15, 1940, Serial No. 340,850. Divided and this application February 21, 1942. Serial No. 431,848
1 Claim. (Cl. 73—51)

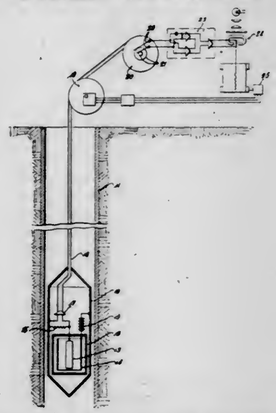
The method of testing a carburetor of the type, in which the mixture is regulated in accordance with the position of the throttle valve, which comprises mounting the carburetor on an engine, running the engine without load so as to apply the engine suction to the carburetor and draw fuel mixture therefrom, setting the throttle valve in a predetermined open position, restricting the flow of mixture from the carburetor to a predetermined rate corresponding to the flow rate normally produced with the throttle in a more nearly closed position, determining the rate of flow

of liquid fuel to the carburetor, and comparing said last rate to the corresponding rate obtained



from a properly functioning carburetor with its throttle in said position and delivering mixture at the same rate.

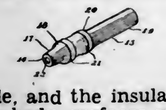
2,351,028
WELL SURVEYING METHOD AND APPARATUS
Robert Earl Fearon, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application September 17, 1941, Serial No. 411,226
6 Claims. (Cl. 250—83.6)



1. A method of determining the nature of substances that comprises deriving from individual quanta of gamma rays emanating therefrom an ionization proportional to the energy in each quantum, separately converting the ionization caused by each quantum into an electrical impulse, amplifying, and recording the magnitude of the current corresponding to each quantum, separately.

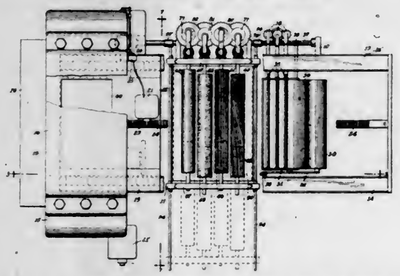
2,351,029
SPARK PLUG MANUFACTURE
Harold R. Feichter, Canton, Ohio, assignor to United States Quarry Tile Company, Canton, Ohio, a corporation of Delaware
Application May 20, 1942, Serial No. 443,733
10 Claims. (Cl. 123—169)

1. A spark plug including an outer tubular metal shell, a tubular ceramic insulator within the shell, and a center metal electrode within the insulator, the insulator including at one end a nose and tip having surfaces spaced from inner surfaces of the outer shell, one end of the center electrode extending beyond the insulator nose and tip, a metal electrode on the shell beyond the insulator nose and tip and spaced from the



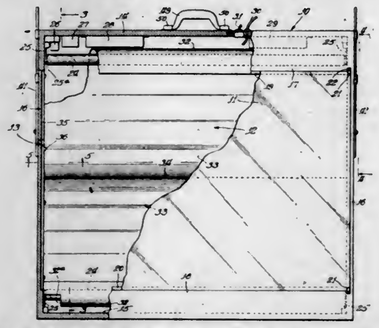
center electrode, and the insulator consisting of a fired ceramic body, surfaces of the body at the nose and tip being smooth and continuous with each other in elemental areas and substantially free from projections and intervening pits of sufficient size to provide lodging places for carbon accumulations of a magnitude detrimental to continuous satisfactory ignition by the plug.

2,351,030
INTAGLIO PRINTING APPARATUS
Fernando Fernández, Mexico City, Mexico
Application June 27, 1941, Serial No. 399,979
10 Claims. (Cl. 101—161)



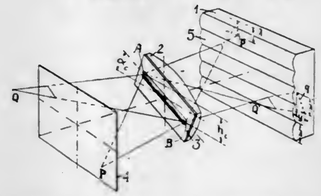
1. In a press for printing from engraved metal plates: means for wiping and polishing an inked plate preliminary to printing therefrom, comprising a plurality of adjacently disposed, rotatable, indented-surface wiping cylinders to contact the plate surface, successive cylinders having respective contacting surfaces of different finish.

2,351,031
DRAFTSMAN'S TRACING BOARD
George E. Froelich, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application March 6, 1942, Serial No. 433,615
5 Claims. (Cl. 45—131.2)



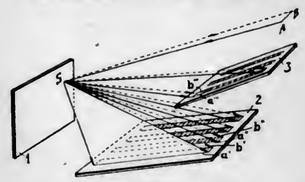
1. A draftsman's tracing board comprising, in combination, a relatively large shallow casing, a flat translucent top panel therefor, lighting means within the casing, said lighting means including a pair of fluorescent tubes arranged along the rear and forward inner margins of the casing, and a reflector element about the lighting means embodying a somewhat semi-cylindrical portion about each tube, the interiors of the semi-cylindrical portions being in opposed relation and their lower ends being continued toward each other in shallow trough-like form to meet angularly along a medial line extending across the board parallel with the top panel and spaced therebelow whereby to enhance the distribution of light through the said top while minimizing the space occupied by the board.

2,351,032
SYSTEM OF PHOTOGRAPHY AND PROJECTION IN RELIEF
Dennis Gabor, Rugby, England
Application August 3, 1940, Serial No. 350,803
In Great Britain May 3, 1940
15 Claims. (Cl. 88—16.6)



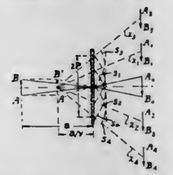
8. Apparatus for taking pictures in relief on an elongated lenticular film with cylindrical lenticules at substantially less than right angles to the transversal direction of the film, comprising means for discontinuous motion of said film, an optical system serving as objective, and in the plane of the aperture of said objective at a distance large against the focal length of the lenticules a stop with two parallel edges at an acute angle to the lenticule axes.

2,351,033
SYSTEM OF PROJECTING PICTURES IN STEREOSCOPIC RELIEF
Dennis Gabor, Rugby, England
Application August 3, 1940, Serial No. 350,804
In Great Britain May 3, 1940
18 Claims. (Cl. 88—16.6)



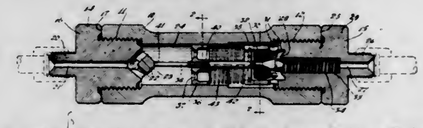
1. In a system for producing pictures in stereoscopic relief in a cinema theatre a front projection viewing screen comprising a transparent base plate fitted on its front side with an array of equally spaced vertical cylindrical lenticules which have focal surfaces at least approximately coinciding with the rear face of said plate, means at said rear face for diffuse reflection of elemental beams incident from the projector both in horizontal and in vertical direction, and in front of said plate at least one array of plane mirrors, vertically spaced, each mirror having the shape of a horizontally elongated strip, the array being arranged in the manner of a Venetian blind.

2,351,034
OPTICAL SYSTEM COMPOSED OF LENTICULES
Dennis Gabor, Rugby, England
Application August 3, 1940, Serial No. 350,805
In Great Britain May 3, 1940
1 Claim. (Cl. 88—1)



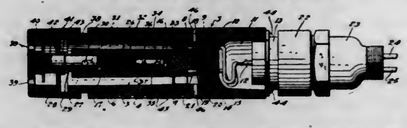
An optical system, consisting of a sheet of transparent material, embossed at both sides with cylindrical impressions parallel to the same direction, forming two arrays with different spacings, the sum of the focal lengths of any two opposing lenticules being equal to the thickness of the sheet.

2,351,035
CUTOFF VALVE
Harry C. Grant, Jr., New York, N. Y., and Walter M. Haessler, Jersey City, N. J., assignors to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application August 29, 1942, Serial No. 456,614
10 Claims. (Cl. 137—153)



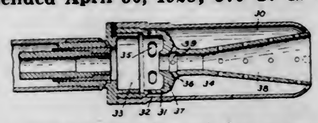
. 1. The combination with a conduit adapted to conduct fluid, of a plug interposed in said conduit and formed with a seat, a valve cooperating with said seat, a spring for normally maintaining said valve in unseated condition, fluid flow metering means in said conduit, a piston operatively associated with and adapted in conjunction with said fluid flow metering means to seat said valve in response to a greater than a predetermined rate of flow of fluid through said valve device, and a spring to normally hold said piston means out of operative engagement with said valve.

2,351,036
IMMERSION ACTUATOR
Harry C. Grant, Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application May 14, 1941, Serial No. 393,401
11 Claims. (Cl. 200—152)



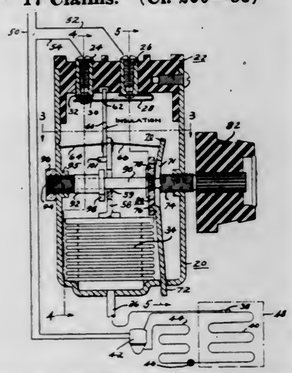
1. An immersion actuator for an electrical circuit comprising housing means having a chamber therein and having an opening at one end thereof, electrodes in said chamber and secured to said housing means, closure means for said opening having fluid inlet means, and means associated with said housing means and said closure means for removably securing said closure means to said housing means.

2,351,037
STABILIZER FOR GUNS
Samuel G. Green, Gray, Ga.
Application October 16, 1936, Serial No. 105,948
10 Claims. (Cl. 89—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. In a muzzle attachment for a gun, means securable to a gun adjacent the muzzle thereof so as to receive only the gases of discharge of the gun, said means comprising a cylindrical expansion chamber, an inner chamber and an outer forwardly constricted chamber both disposed forwardly of the expansion chamber, the walls forming said inner and outer chambers being secured to each other adjacent their forward ends, said walls being provided with ports establishing inter-communication between each of said chambers, and means for venting the outer constricted chamber at its front end directly to the atmosphere.

2,351,038
REFRIGERATING APPARATUS
Albert O. Grooms, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 5, 1941, Serial No. 377,529
17 Claims. (Cl. 200—83)



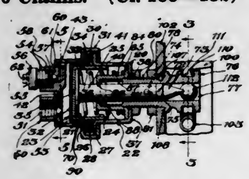
1. A control comprising an actuating means, toggle means connected to the actuating means, a control device operated by one of said means, and adjustment means for varying the movement of the actuating means and the toggle means said adjustment means including means effective in one position to cause the movement of said toggle means to be confined to one side of the dead center position of the toggle means, and effective in another position to cause the limits of movement to extend to opposite sides of the dead center position of the toggle means.

2,351,039
MAKING SIMULATED WOVEN FABRIC
Alden W. Hanson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application March 11, 1942, Serial No. 434,164
2 Claims. (Cl. 28—72)

1. The method of producing a simulated woven fabric at a faster rate than can be obtained by weaving on a loom which comprises braiding a tube of filaments in which the filaments cross at an angle to each other and slitting said braided tube parallel to the path of one filament in a helical direction along the longitudinal axis of the braided tube.

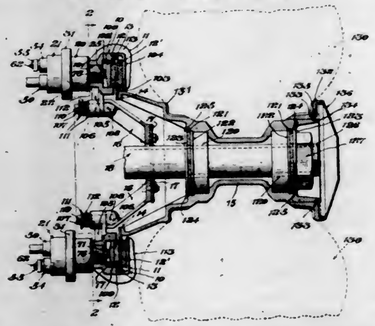


2,351,040
POWER UNIT
Jesse G. Hawley, Painted Post, N. Y.
Application May 24, 1940, Serial No. 337,102
6 Claims. (Cl. 188—152)



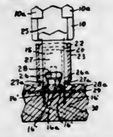
1. A self-contained power unit comprising a fluid cylinder, a piston cylinder, a resilient seal interposed between these two cylinders and comprising a bottom portion whose area is equal to the internal cross-section of the fluid cylinder, a continuous side wall in contact with the inner wall of the fluid cylinder, and a projecting flange for clamping between adjacent portions of the fluid cylinder and piston cylinder, and a piston actuated by movements of the resilient seal, the piston comprising an end portion and a continuous side wall, the latter fitting snugly within the side wall of the resilient seal and the bottom portion of the piston conforming to and supporting the bottom portion of the resilient seal, the piston also having a piston rod with a tapered end projecting beyond the piston cylinder and a pair of thrust-imparting metal balls actuated by said tapered end.

2,351,041
BRAKE
Jesse G. Hawley, Painted Post, N. Y.
Application September 3, 1940, Serial No. 355,263
5 Claims. (Cl. 188—152)



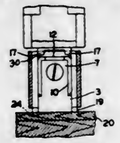
1. A brake, comprising a fixed support, an open-jawed clamp of less than annular extent carried thereby, a friction imparting member loosely supported therein, an annular disc rotatable through the open jaw of the clamp, and a sealed hydraulic power unit for forcing the friction imparting member against the rotatable disc, the clamp and power unit being detachably connected to the fixed support through a spring-pressed stud and being removable from the fixed support without removing any other parts.

2,351,042
STAPLING MACHINE
Harold S. Heller, Cleveland Heights, Ohio
Application December 8, 1941, Serial No. 422,077
5 Claims. (Cl. 1—49)



1. In a stapling machine, means for holding a staple, said staple having a top portion and two depending leg portions, means for driving said leg portions, and means underlying and engaging at least a part of said top portion and coacting with said driving means for shearing away at least a part of said top portion by operation of said driving means.

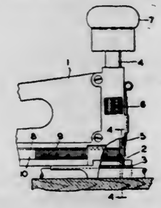
2,351,043
STAPLING MACHINE
Harold S. Heller, Cleveland Heights, Ohio
Application June 25, 1942, Serial No. 448,358
4 Claims. (Cl. 1—49)



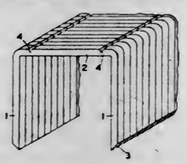
1. A stapling machine for use with U-form staples having the crown portion weakened at two points to provide a head for each leg and presenting curved surfaces upwardly and inwardly where the legs are joined to the heads, comprising a frame provided with a staple guiding channel having an open mouth adapted to be applied to the work, said channel being open and unobstructed across its full area from end to end, means for supplying staples one by one to said channel, and a driving tool movable in said channel and having its leading edge portion recessed between its ends to provide two driving arms, one on either side of the recess, and having depending projections at the outer ends of said arms, to thereby conform the arms to the heads, the tool recess forming two edge portions located so as to engage the staple near to its weakened portions, whereby the staple crown at its ends is embraced by and held between said projections during the driving operation and the heads are severed from the crown when it engages the work and both the legs and heads may be driven into the work without distortion at the bend between them.

2,351,044
STAPLING MACHINE
Harold S. Heller, Cleveland Heights, Ohio
Application June 25, 1942, Serial No. 448,360
1 Claim. (Cl. 1—49)

A stapling machine for more or less permanently attaching an elongated cylindrical member to the surface of a supporting member by means of a staple having substantially parallel straight legs spaced apart by a substantially straight connecting crown portion which is longer than the diameter of said cylindrical member, comprising a frame provided with staple guiding means, said frame being so formed and arranged that when the machine is applied to the work the staple is presented thereto with its legs straddling but each spaced from said cylindrical member, and a driving tool slidable in said frame in a direction parallel to the legs of the staple to be driven, said tool being of plate-like form and having at the middle of its working edge an open recess provided with straight parallel side edges and an arched semi-circular upper portion and being approximately as wide and deep as the diameter of said cylindrical member but shorter than said working edge, to thereby present to the end portions of the staple crown above the spaced legs the working edge portions of two alined driving arm portions of equal width, spaced apart by the width of said open recess, whereby the driving tool by impact upon the crown end portions of the staple drives the lower end portions of the staple legs into the supporting member, bends the crown end portions inwardly around the cylindrical member, and bends a like upper portion of each staple leg at right angles to the leg and drives it into contact with the surface of said supporting member, thereby preventing any crushing or breaking impact upon the cylindrical member.



2,351,045
STAPLE
Harold S. Heller, Cleveland Heights, Ohio
Application June 25, 1942, Serial No. 448,361
1 Claim. (Cl. 85—49)



A staple of the type adapted for temporary gang assembly in strip form for use in a hand stapling machine, said staple comprising a section of material bent into channel-like form to provide a pair of laterally spaced legs and a cross piece or crown connecting said legs at their upper ends, each of said legs having a length of the general order of that of said crown and the length of said crown being such that said legs can be simultaneously driven into the work by the driving blade of a hand stapling machine, said crown being weakened at two points close to but spaced from said legs, the two weakened points of said crown enabling the middle portion thereof, between said weakened points, to be severed and thereby removed as the end portions of the crown are sunk into

the work, with the spaced legs, by driving impact simultaneously applied to the crown end portions, said crown end portions extending toward each other and serving as heads for the spaced and now separated legs.

2,351,046

DYEING VINYL POLYMERS

Karl Heymann, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 7, 1940, Serial No. 322,844
16 Claims. (Cl. 8—55)

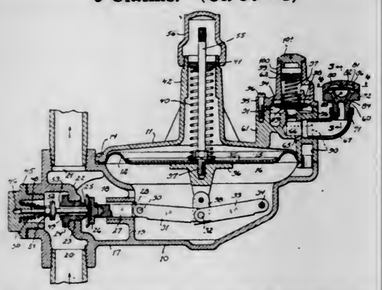
1. A method of dyeing yarns and other shapes comprising vinyl polymers, comprising the step of treating the yarn or shape with a dye bath containing a suspension dyestuff, in the presence of an organic compound selected from the group consisting of p-chlorobenzaldehyde, 2,4-dimethoxybenzaldehyde and p-dimethylaminobenzaldehyde.

2,351,047

FLUID PRESSURE REGULATOR

Ralph C. Hughes, Anderson, Ind., assignor to Reynolds Gas Regulator Company, Anderson, Ind., a corporation of Indiana

Application September 8, 1941, Serial No. 409,962
9 Claims. (Cl. 50—4)



1. In a fluid pressure regulator having an inlet and an outlet, a valve member to control the flow of fluid between the inlet and outlet, a flexible diaphragm responsive to the pressure at the outlet side of the regulator to control the position of said valve, means whereby said diaphragm acts to move said valve to an extreme open position whenever the pressure at the outlet side of said regulator rises above a predetermined maximum or drops below a predetermined minimum, a second valve to control the flow of fluid between the inlet and outlet, and means to move said second valve into a closing position whenever the first valve moves to an extreme open position.

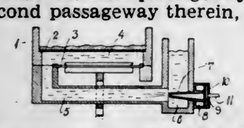
2,351,048

SCREEN FOR PAPER STOCK AND THE LIKE

Otto Imset, Skoyen, near Oslo, Norway; vested in the Alien Property Custodian

Application November 4, 1939, Serial No. 302,919
In Norway November 5, 1938
2 Claims. (Cl. 92—32)

1. A screen for paper stock and the like, comprising a trough, a number of screen plates disposed side by side in the said trough, a number of vertical partitions between and below the said screen plates dividing the space below the screen plates into a corresponding number of separate chambers, a number of diaphragms disposed one below each of the said screen plates, the said diaphragms constituting the bottoms in the said chambers, a vibrating mechanism for giving the said diaphragms and oscillating movement, a discharge box extending along the said trough, a number of passageways disposed transversely to the trough below the diaphragms and each connecting the chamber between one of the screen plates and the corresponding diaphragm to the said discharge box, a number of injectors in the said discharge box, each extending against the open outlet of one of the said passageways and adapted to deliver a jet of liquid under pressure into the said passageway, thereby forcing the contents of this passageway back into the said chamber and sucking suspension from the discharge box into the said passageway, a housing having a second passageway therein, said second



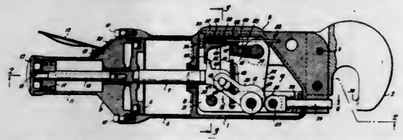
passageway connecting all of said injectors, means for supplying liquid under pressure to said second passageway, a second diaphragm at the outer end of each injector, means cooperating with the outer face of each of said second diaphragms to form a second chamber, the second diaphragm being adapted to close the outer end of the said injector when a pressure fluid is applied to said second chamber and to open the same when the pressure in the said second chamber is decreased, a source of fluid under pressure, a separate pipe connecting each of said second chambers with said last-named source, and a controlling device cooperating with said pipes for relieving fluid pressure from said last-named source upon said second chambers one at a time, to thereby relieve pressure upon the associated second injector diaphragm and permit the flow of liquid from said second passageway through the injector.

2,351,049

SQUEEZE RIVETER

Frank A. Kaman, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware

Application December 26, 1941, Serial No. 424,461
8 Claims. (Cl. 78—48)



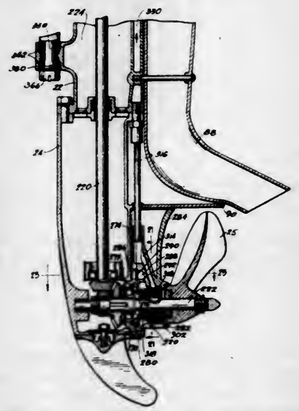
1. In a riveting machine for setting rivets of different lengths, a support, an anvil carried thereby, a riveting plunger slidably mounted on said support, a member movably mounted on the support rearwardly of the plunger, power multiplying means carried by said member and operable on said plunger, power actuated means on the support for moving said member and said plunger as a unit until the plunger grips the rivet between itself and the anvil and thereafter operating said power multiplying means to increase the pressure of the plunger on the rivet to upset the same, and power biased stop means movably mounted on the support independently of and following along with the member as the plunger is engaged with the rivet to hold the member against reverse movement upon the operation of the power multiplying means on the plunger to upset the rivet to compensate for rivets of different lengths.

2,351,050

OUTBOARD MOTOR

Romuald Karey, Agawam, Mass., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original application April 11, 1939, Serial No. 267,218, now Patent No. 2,289,124, dated July 7, 1942. Divided and this application January 23, 1941, Serial No. 375,596
3 Claims. (Cl. 115—17)



1. In an outboard motor having a drive shaft and propeller shaft in coacting relationship and a housing having streamlined front and trailing edges enclosing said drive shaft and a part of said propeller shaft, the combination with said propeller shaft and housing of a pump comprising an annular resilient pumping element having a slotted peripheral portion, means embedded within said element to prevent distortion thereof, an eccentric secured to said propeller shaft and in operable engagement with said element, a pump housing secured to said first mentioned housing adjacent said first mentioned housing's trailing edge, said pump housing enclosing a part of said propeller shaft, a chamber within said pump housing within which said element is enclosed, a boss extended from an inner wall of said chamber into the slot of said element whereby a pumping action is imparted to said element during each revolution of said propeller shaft, said element, eccentric and chamber within said pump housing being of such size as to permit the external streamlining of said pump housing at its point of jointure with said first mentioned housing in substantially the same vertical and horizontal planes, and a propeller secured to said propeller shaft adjacent the rearward edge of said pump housing, whereby the portion of said pump housing extended rearwardly from said first mentioned housing's trailing edge acts to eliminate operational slip stream and propeller cavitation is lessened.

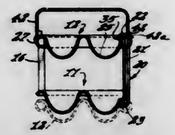
2,351,051

EGG TRAY SET

Harry Kenigson, Brooklyn, N. Y.

Application February 28, 1942, Serial No. 432,773
2 Claims. (Cl. 211—126)

1. A tray set comprising a bottom tray having means to receive eggs, a pair of upright rods fixed to the rear corners of the bottom tray, and formed with longitudinal slots, a pair of upright rods fixed to the front corners of the bottom tray, and having shoulders at the upper ends thereof, a top tray provided with pivot pins received within said slots, and having means to engage said shoulders, said slots having offset



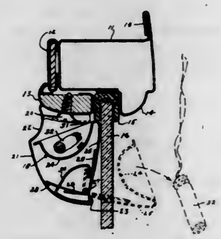
portions at their upper ends to support said pivot pins, said top tray adapted to be swung below the bottom tray in nested relation.

2,351,052

CIGARETTE TRAY

John M. Kisselle, Detroit, Mich.

Application December 12, 1938, Serial No. 245,136
20 Claims. (Cl. 206—19.5)



4. A cigarette and ash ejector device to be used with a movable window panel which normally closes an opening which comprises a tray for receiving said ash, means adjacent the opening of said window and supported at the margin of said opening for movably mounting said tray whereby said tray may pass through said opening and dump, means normally urging said tray to pass through said opening, said tray being designed to bear against said window panel when closed, whereby moving said window panel away from said opening will result in said tray passing through said opening to dump its contents.

2,351,053

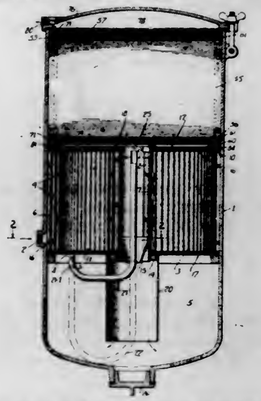
APPARATUS FOR PURIFYING LIQUIDS

Fred F. Klett, Brooklyn, N. Y., assignor to Moritz Gaertner, New York, N. Y.

Application March 31, 1938, Serial No. 199,080
11 Claims. (Cl. 210—43)

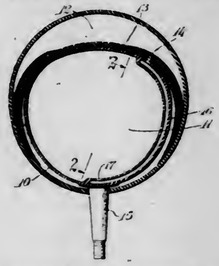
1. In a device for purifying liquids, the combination comprising a casing, vertical means in said casing adapted to define a substantially ribbon-like flow channel, an inlet port in said casing connected with one end of such flow channel for introducing liquid to be purified thereinto, upper and lower outlet ports at the other end of such flow channel connected with the upper and lower portions of the channel respectively, said means comprising vertical partitioning disposed in said casing and formed with oppositely disposed corrugations extending into such flow channels to constrict the same at spaced intervals, said corrugations extending across such flow channel, and deflecting members mounted on said partitioning and engaging said oppositely disposed corrugations and having surfaces at an angle other than right angles to the direction of the flow adapted

to cooperate with said corrugations to deflect said flow into a downward direction whereby said flow will be separated into an upper flow of relative



purity and a lower flow having detrimental impurities suspended therein, said flows capable of being selectively withdrawn through said upper and lower outlet ports.

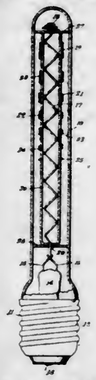
2,351,054
VALVE FOR SAFETY INNER TUBES AND THE LIKE
Frederick A. Krusemark, Chicago, Ill., assignor to The Mansfield Tire and Rubber Company, Mansfield, Ohio, a corporation of Ohio
Application August 7, 1940, Serial No. 351,714
5 Claims. (Cl. 152—342)



3. A safety inner tube comprising an inner air chamber and an outer air chamber and an intervening wall therebetween, an air inlet for said inner air chamber, an aperture in said intervening wall, and valvular means connecting said aperture to said inlet, said valvular means comprising a tubular normally open collapsible conduit exposed exteriorly to air pressure within said inner air chamber and collapsible upon a reduction of pressure within the conduit and said outer air chamber upon failure thereof.

2,351,055
TUBE FOR PRODUCING MULTIPLE WAVE LENGTHS
George Lakhovsky, New York, N. Y.; Anne-Marie Louise Lakhovsky, administratrix of said George Lakhovsky, deceased, assignor to Henry S. Blum, Chicago, Ill.
Application November 21, 1941, Serial No. 420,006
11 Claims. (Cl. 250—33)

1. A device of the character described comprising a vacuum tube having an envelope and base, primary inductance means, and a plurality of separate secondary inductance means of different length for radiating waves of various



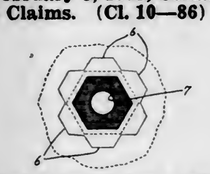
lengths extending above said primary inductance means, all said inductance means being arranged within said envelope.

2,351,056
ELECTRIC CONDUCTOR
Jean Lepetit, Clichy, France; vested in the Alien Property Custodian
Application February 25, 1939, Serial No. 258,571
In France March 2, 1938
4 Claims. (Cl. 174—102)



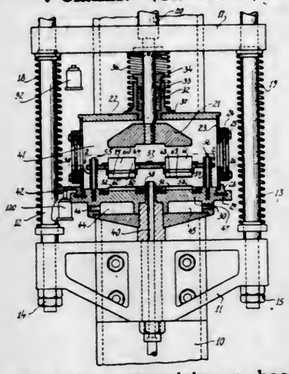
1. An electric conductor comprising a core, a metallic sheath and a powdered insulating material located between said core and sheath, said insulating material comprising a mixture of calcium oxide and magnesia, said calcium oxide comprising between 25 and 40% of said mixture and said magnesia the remainder of said mixture.

2,351,057
METHOD OF MAKING THREADED LOCKING DEVICES
Richard W. Luce, Southport, Conn.
Application February 5, 1943, Serial No. 474,762
6 Claims. (Cl. 10—86)



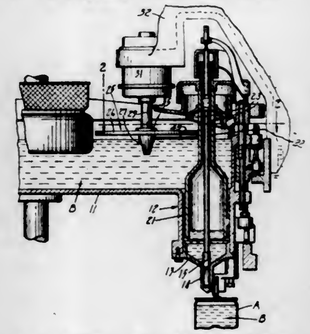
6. The method of producing a self-locking nut of the kind in which an elastic washer effects the locking action, which method includes the steps of heading a blank to include a nut body with a polygonal depression at one end and an outwardly flaring flange joined to the end of the body in a smooth curve, trimming the flange to form a plurality of strips corresponding in number to the faces of the polygonal depression, forming a hole through and tapping the body, placing a polygonal washer in the depression, and rolling the flange inwardly to extend over and engage the washer.

2,351,058
IMPRESSER MECHANISM
Alvin M. Marks, Beechhurst, N. Y.
Application November 9, 1940, Serial No. 364,985
7 Claims. (Cl. 154—1)



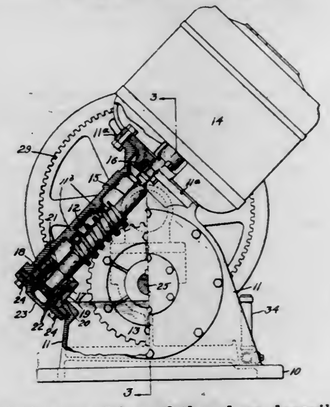
4. An apparatus comprising a base, a hood, means for moving said hood into sealing engagement with said base to form a vacuum chamber, means for evacuating said vacuum chamber, said means for evacuating said vacuum chamber being actuated immediately after said hood moves into sealing contact with said base, a pressure element adapted to perform a pressing operation located within said hood, means for causing said pressure element to be actuated after a predetermined condition of vacuum is established within said vacuum chamber, said means for causing the pressure element to be actuated including a time control element, means for breaking the vacuum in the vacuum chamber after the pressure element has performed its operation, and means for retracting said pressure element and said hood from said base.

2,351,059
FILLING MACHINE
William McK. Martin, Maywood, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application April 15, 1941, Serial No. 388,683
3 Claims. (Cl. 226—69)



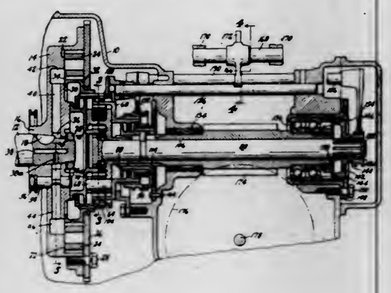
2. In a machine for filling foam producing liquids into containers, the combination of a tank for retaining a quantity of the liquid, a filling unit mounted on said tank for receiving and discharging liquid from said tank into a container, a vertically disposed rotatable shaft located in said tank, a rotatable centrifugal pump mounted on said shaft and extending beneath the level of the liquid in said tank, said pump having a horizontal surface portion spaced above said liquid level, said pump also having an upwardly and outwardly inclined port terminating at its upper end directly beneath said horizontal surface portion, the lower end of said port terminating beneath said liquid level, means for rotating said shaft and pump to draw the liquid in the tank upwardly through said port to discharge such liquid directly beneath the pump horizontal surface portion and throw the liquid outwardly adjacent said filling unit and over the surface of the liquid in the tank, whereby to destroy foam on the liquid to prevent such foam from reaching said filling unit and thence passing into the container during the filling operation.

2,351,060
HOISTING MACHINE
Martin B. McLauthlin, Malden, Mass.
Application November 12, 1940, Serial No. 365,390
1 Claim. (Cl. 74—425)



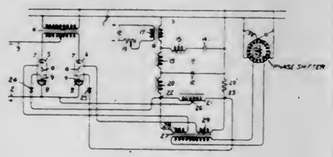
A hoisting machine of the class described comprising a frame including a supporting base made with an upstanding housing extension adapted to hold a fluid lubricant and having at its top an aperture surrounded by an inclined motor-seat; a horizontal countershaft journaled on said frame and having a portion thereof disposed within said housing extension; a worm gear fast on said portion and disposed within said housing extension directly below said seat with its lower portion submerged in said lubricant; an electric motor mounted on said inclined seat directly above said worm gear with its armature shaft extending obliquely downwardly through said aperture at an acute angle away from a vertical line intersecting the axis of said worm gear and provided with a worm meshing with the top portion of said worm gear; a journal-box unit provided interiorly with opposed thrust bearings for rotatably supporting the lower end of said armature shaft and for holding the latter against endwise displacement in either direction, said journal-box unit being closed at its outer end, and means removably fastening said journal-box unit within an aperture provided in a side wall of said housing extension with its inner end above the level of the lubricant contained within the latter and with its outer end a substantial distance above the base of said frame so that said journal-box unit occupies an exposed position at one side of said extension where it is accessible for removal and installation, said worm gear operating to transfer lubricant to said worm from which it flows downwardly under the influence of gravity along said armature shaft to said opposed thrust bearings.

2,351,061
TRANSMISSION
André J. Meyer and Ross E. Taylor, Lexington, Ky., assignors to Mawen Motor Corporation, New York, N. Y., a corporation of Delaware
Application January 23, 1940, Serial No. 315,148
15 Claims. (Cl. 74—268)



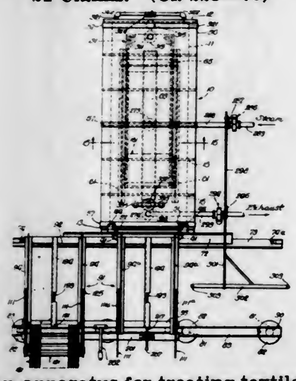
1. In a power transmission, a driving element, a driven element, planetary gear mechanism including a sun gear member, a ring gear member and a planet carrying member, each of said members having teeth associated therewith, a casing providing a rotationally stationary abutment, axially shiftable means rotationally fixed with respect to said casing and having teeth thereon, and means for selectively moving the last mentioned means axially to engage the teeth thereon with the teeth of said planet carrying member, with the teeth of said ring gear member, or with the teeth of said sun gear member to maintain the selected member stationary.

2,351,062
ELECTRIC VALVE CIRCUITS
Albert H. Mittag, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 30, 1942, Serial No. 445,177
5 Claims. (Cl. 250—27)



5. In combination, an alternating current circuit, a load circuit, electric translating apparatus connected between said circuits and comprising a pair of electric valve means each including an anode, a cathode, arc ignition means and a relieving anode, phase shifting means energized from said alternating current circuit, excitation means energized from said phase shifting means for transmitting impulses of current alternately to the arc ignition means of the electric valve means and including an impedance element, means for connecting the relieving anodes to the impedance element, and means energized from said phase shifting means for impressing on said relieving anodes periodic voltages having a substantially quadrature relation with respect to the voltage applied to said excitation means.

2,351,063
GARMENT TREATING APPARATUS
Leslie H. Oswald, Chicago, and Arthur S. Mann and John H. Wahlbeck, Kankakee, Ill., assignors to Paramount Textile Machinery Co., Kankakee, Ill., a corporation of Illinois
Application August 22, 1941, Serial No. 407,952
21 Claims. (Cl. 223—76)



1. In an apparatus for treating textile articles; a plurality of forms to receive the articles; a chamber to receive the treating medium, closed except for at least one aperture therein to permit movement of said forms into and out of said chamber; a swingable closure for said aperture adapted when open to take a position interiorly of said chamber and adapted, when closed, to seal said chamber under the influence of the pressure of the treating medium, said closure being provided with counter weight means to open said closure automatically upon release of said pressure.

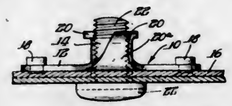
2,351,064
ENGINE FUEL PUMP
Lewis Pengilly, Loma Mar, Calif.
Application September 8, 1941, Serial No. 409,942
8 Claims. (Cl. 103—164)



1. In a liquid elevating system which includes a chamber having an outwardly seating inlet valve and an inwardly seating outlet valve, a delivery pipe controlled by the latter valve and an air pipe leading to said chamber, a pump comprising a cylinder, a piston reciprocable therein, said cylinder having a port opening into said air pipe, means for releasing a pressure impulse through said port substantially at the end of the compression stroke of the piston and applying a suction impulse to said air pipe upon the return stroke, and means automatically limiting the degree of vacuum created in the air pipe by said suction impulse.

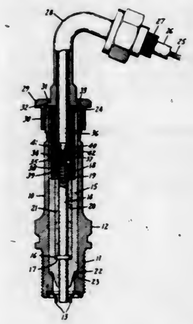
2,351,065
FASTENER DEVICE
Ouglesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 26, 1943, Serial No. 477,186
12 Claims. (Cl. 151—25)

1. A fastener device including a sheet metal base section, a screw receiving section non-rotatable with respect to said base section and having an internal screw accommodating helix, and locking means for frictionally engaging the thread of a screw member complementary to and projecting axially beyond the helix of said screw receiving section, said locking means including a resilient thread engaging arm supported by and superimposing the base section, said arm having a free extremity presenting a circumferential



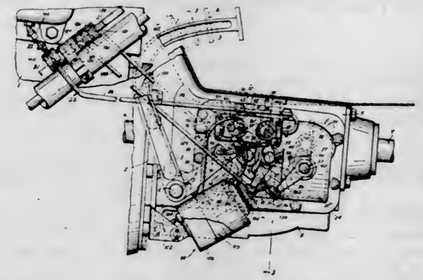
thread gripping surface adapted to slidably resist screw rotation in opposite directions, said circumferential surface being shiftable radially outward about an axis extending transversely of said base as an incident to the engagement therewith of a complementary screw member during relative rotation between said internal helix and said screw member whereby to increase frictional locking resistance between said resilient arm and screw thread.

2,351,066
ELECTRICAL DISCHARGE DEVICE
Hubert H. Race, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 15, 1942, Serial No. 443,059
4 Claims. (Cl. 315—326)



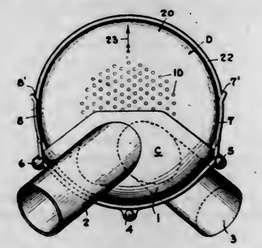
1. A spark plug including a shell having a grounding electrode, a discharge electrode arranged within said shell, means including an insulating element arranged about a part of said discharge electrode in said shell for supporting said electrode, a distribution lead, means for connecting said lead to said discharge electrode within said shell, a heat resistant bushing of deformable resilient insulating material arranged between said shell and said electrical connection of said lead to said discharge electrode, means including a relatively non-deformable insulating element arranged about said lead in engagement with said deformable bushing deforming said bushing for substantially filling a portion of the space about said lead connection for providing a seal thereabout with said insulating member and around said non-deformable insulating element, and means about said lead within said non-deformable insulating element between said shell and the connection of said lead to said electrode providing a sealed space within said shell about said connection for eliminating free open gas electrical discharge paths between said shell and said connection.

2,351,067
CONTROL MEANS FOR CHANGE-SPEED TRANSMISSIONS
Glenn T. Randol, St. Louis, Mo.
Application February 27, 1941, Serial No. 380,752
43 Claims. (Cl. 192—3.5)



1. In a control mechanism for a change speed transmission provided with a member shiftable to two gear ratio operative positions and to a neutral position, means for shifting said member, control means for said shifting means including a manually-operated member, means for so operating said control means by said manual member that the shiftable member will be moved alternately from one operative position to the other by successive movements of the manually-operated member, means comprising a second manually-operated member for moving the shiftable member to the neutral position from an operative position and independently of the first manually-operated member, and means controlled by the movement of the said second manually-operated member to place the shiftable member in neutral position for disabling the control means.

2,351,068
DUST INDICATOR FOR AIR-METHOD CLEANING SYSTEMS
Daniel Benson Replogle, Berkeley, Calif.; Bank of America National Trust and Savings Association, Carl S. Replogle, Harold E. Queen, and Laurie H. Bullock, executors of said Daniel Benson Replogle, deceased, assignors to The Ohio Citizens Trust Company, Toledo, Ohio, a corporation of Ohio, as trustee
Application October 8, 1941, Serial No. 414,212
8 Claims. (Cl. 302—65)

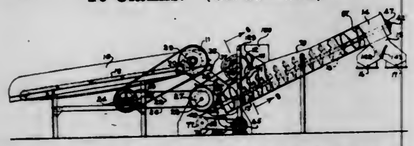


1. In a suction cleaning system, a dust indicator comprising a coupling element having entrance and exit pipes at diagonally opposite sides of a central receiving trough; and a transparent globular dust indicating member shaped to conform to said trough and releasably and yieldingly supported therein, said transparent member having a pair of apertures communicating with the inlet and outlet pipes respectively of said coupling element.

2,351,069
PROCESS OF MAKING HETEROCYCLIC NITROGEN-CONTAINING COMPOUNDS
William L. Ruigh, Princeton, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 7, 1940, Serial No. 369,139
6 Claims. (Cl. 260—289)

2. The process comprising reacting the lithium derivative of quinaldine with an anhydride of an aliphatic acid, and hydrogenating the reaction product.

2,351,070
APPARATUS FOR MAKING MOLASSES FEEDS AND SIMILAR MATERIALS
Hermann Henry Schmidt, Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo., a corporation of Missouri
Application August 8, 1941, Serial No. 405,962
16 Claims. (Cl. 99—235)



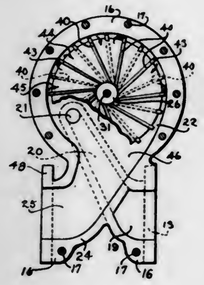
1. In a machine of the character described, means for conveying dry feed material in a predetermined path, means for feeding said material to said conveying means, and means for finely dividing and centrifugally spraying a coating liquid onto said dry material while on said conveying means, said spraying means unrestrictedly discharging said liquid in finely divided form at high velocity onto said material longitudinally of said path, said conveying means comprising means for agitating said material while having said liquid sprayed thereon and while being advanced along said path.

2,351,071
METHOD OF MAKING FEED PRODUCTS
Hermann Henry Schmidt, Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo., a corporation of Missouri
No Drawing. Application October 1, 1941, Serial No. 413,181
13 Claims. (Cl. 99—6)

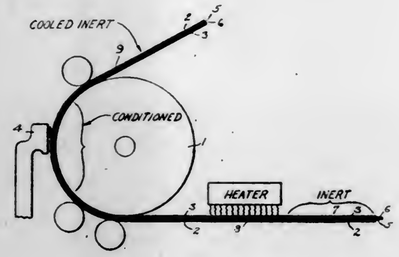
1. The method of making a coated product comprising reducing solid material to desired size, simultaneously continuously centrifugally whirling a mobile coating material in a chamber, continuously centrifugally discharging said coating material from said chamber in a fine mist-like spray under the influence of the centrifugal force of said whirl, continuously feeding the freshly reduced solid material into said spray to coat the same, and agitating said reduced material transversely of the direction of said spray and of said feed while in said spray.

2,351,072
METHOD OF PRODUCING VAPOROUS MIXTURES CONTAINING AIR
Hermann H. Schmidt, Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo., a corporation of Missouri
Application October 1, 1941, Serial No. 413,187
14 Claims. (Cl. 48—180)

1. The method of producing a uniform mixture of a liquid and a gas, comprising separating said liquid and gas into portions, rotatively impelling each of said portions to whip the same about separately to create a centrifugal whirl of said gas and liquid of each of said portions, directing streams of said gas containing said liquid from each of said centrifugal whirls into violent engagement with each other around the periphery of said whirls while under the influence of the centrifugal force created by said whipping, to mix said streams, and continuously positively rotatively impelling said mixed streams to finely divide and intimately blend said liquid and gas.



2,351,073
NORMALLY INERT MANIFOLDING MATERIAL
John Q. Sherman, Dayton, Ohio; Katherine M. Sherman, William C. Sherman, and Wellmore B. Turner, executors of said John Q. Sherman, deceased
Original application January 27, 1934, Serial No. 708,631. Divided and this application April 15, 1936, Serial No. 74,511
2 Claims. (Cl. 282—28)

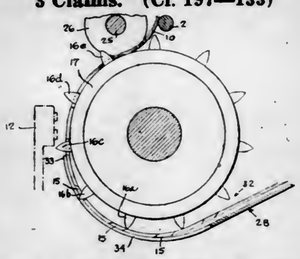


1. In a transfer device for manifolding purposes, a supporting sheet, a coating thereon of material normally non-transferable in response to pressure and rendered transferable by subjection to a preconditioning treatment, and while under the influence of which preconditioning treatment portions of the coating less in size than the entire coated area of the supporting sheet are transferable to a contiguous record sheet, and a second coating of material normally non-transferable in response to pressure and rendered responsive thereto by the same preconditioning treatment as the first named coating but of a different color superimposed on the first named coating.

2,351,074
LOW MELTING POLYAMIDES
Leroy Frank Salisbury, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 9, 1941, Serial No. 392,761
9 Claims. (Cl. 260—78)

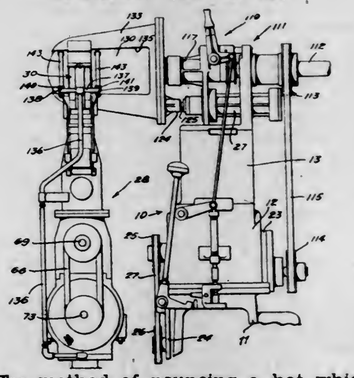
1. A process for obtaining an improved polyamide composition from a mixture of a plurality of different polyamides each of which melts below 150° C., said process comprising heating at a temperature of at least about 180° C. and below the temperature at which substantial pyrolytic degradation occurs a substantially dry melt of said mixture, maintaining the reaction mixture substantially dry throughout the reaction, and continuing the reaction at said temperature until the polyamides from which said mixture was formed are physically inseparable in substantial amount, and discontinuing the heating at a stage where the melting point of the product obtained is higher than that of an interpolymer obtained by interpolymerization of the reactants from which the polyamides in said mixture are formed, said polyamides being the reaction product of a linear polymer-forming composition selected from the class consisting of (*a*) monoaminomonocarboxylic acids, and (*b*) mixtures of diamine with dibasic carboxylic acid.

2,351,075
TYPEWRITING MACHINE
Frank Schultz, Cliffside Park, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application April 7, 1942, Serial No. 437,964
3 Claims. (Cl. 197—133)



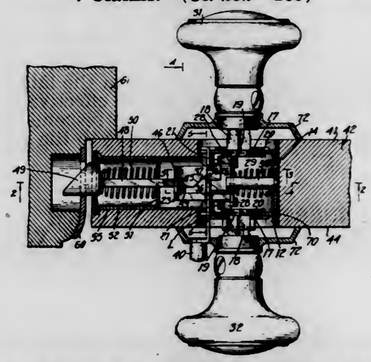
1. In a typewriting machine, a rotary platen, a pinwheel rotated with the platen and having fixed thereon a series of equispaced radially extending feed pins for engagement with similarly spaced feed holes in superposed strips in substantial registration to feed the latter around the platen in substantial registration with each other and in alignment with the platen, and a paper table forming with the adjacent surface of the platen, a throat through which the pile of strips passes, means for applying a yielding drag to the superposed strips in the throat to move the same toward the axis of the platen, the introductory side of the table having its surface spaced substantially from the adjacent surface of the platen to permit the superposed strips supported upon the ends of the pins to pass between the ends of the pins and the table so that the pins may enter the holes in the strips under the urge of the drag thereon at any point from the introductory side of the platen forward at which the holes are sufficiently aligned to receive the pins, the surface of the table gradually approaching the surface of the platen as it extends upwardly and forwardly to guide the strips into engagement with the pins as the writing line is approached.

2,351,076
METHOD OF POUNCING HATS
Paul Schultze, Danbury, Conn., assignor to John C. Doran, doing business as Doran Brothers, Incorporated, Danbury, Conn.
Original application August 24, 1938, Serial No. 226,442. Divided and this application December 1, 1939, Serial No. 307,039
10 Claims. (Cl. 223—20)



1. The method of pouncing a hat which includes the steps of, supporting the hat closely adjacent but out of contact with a rotating block, forcing a portion only of the hat against the block to effect rotation of the hat, and continuously abrading the rotating hat along a path extending from the tip to the brim edge of the hat.

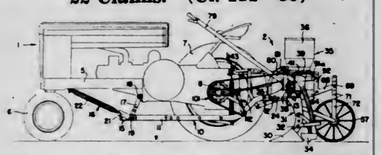
2,351,077
TUBULAR LOCK
Samuel Segal, Brooklyn, N. Y.
Application September 5, 1941, Serial No. 409,741
7 Claims. (Cl. 292—169)



1. A tubular lock mounted on a door and controlled by an outside rotatable knob and spindle and by an inside rotatable knob and spindle for withdrawing a slidable bolt from a keeper secured to the jamb of said door; said lock comprising a casing, rotatable control means carried by said casing and comprising spaced wings defining a gap therebetween and adapted to be actuated by said outside knob and spindle, rotatable control means carried by said casing and adapted to be actuated by said inside knob and spindle, a slidable latch mounted on said casing and extending in advance of the inside face of said door and having projecting means and a projection, spring controlled slidably guided bolt operating means connected to said bolt and sev-

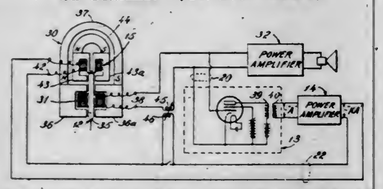
erally actuated by either of said control means and comprising a hollow member having spaced sides one of which includes a cam slot receiving said projection, said latch adapted to be manually shifted towards the outside of said door to arrange said projecting means in said gap to interlock with said wings to prevent rotation of said outside knob, said cam slot having a side cooperating with said projection upon rotation of said inside knob to automatically and bodily shift said latch in a direction away from said outside face to remove said projecting means out of interlocking relation with said wings to permit rotation of said outside knob, a tongue projecting from said bolt operating means, and detent means on said latch cooperating with said tongue to resist accidental longitudinal displacement of said latch to prevent said projecting means to interlock with said wings if unlocked therefrom and to prevent unlocking of said projecting means from said wings if interlocked therewith.

2,351,078
LISTER
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 12, 1940, Serial No. 356,433
22 Claims. (Cl. 111—59)



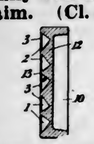
1. The combination with a tractor having means from which power may be taken, of an implement having a mechanism adapted to be driven from said means, hitch means for connecting said implement with the tractor and arranged to accommodate generally longitudinal movement of the implement relative to the tractor, a driving connection between said power means and said mechanism, and means responsive to the movement of the implement relative to the tractor and connected with the latter and the implement for changing the effective length of said driving connection to correspond to the position of the implement relative to the tractor.

2,351,079
INERTIA CONTROL SYSTEM
Howard M. Strobel, Allegany, N. Y.
Application October 25, 1940, Serial No. 362,885
21 Claims. (Cl. 179—100.4)



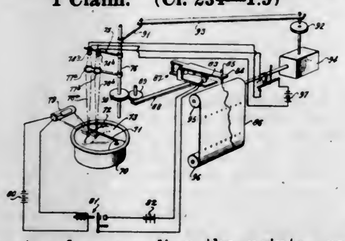
1. In a pickup system comprising primary and secondary systems, said primary system including an energizing source and a converter impressing a predetermined mode of motion upon the movable mass of said pickup comprising said secondary system, the method of inertia control which includes the steps of, analyzing said predetermined mode of motion for its equivalent acceleration component effect upon said secondary system, controlling said acceleration component as to magnitude and phase, and utilizing the value of said component to control a supplementary force actuating said secondary system, whereby control over the effective inertia of said secondary system as viewed from said primary system is established by said supplementary force.

2,351,080
SIGNAL DEVICE
Daniel Swarovski, Wattens, Tyrol, Germany; vested in the Alien Property Custodian
Application March 4, 1940, Serial No. 322,151
In Germany February 11, 1939
1 Claim. (Cl. 88—78)



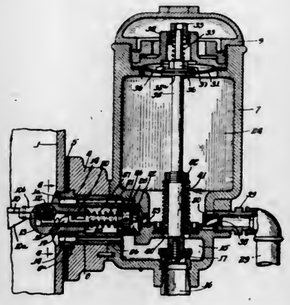
In a signal device having a plurality of small slightly spaced reflecting elements arranged in a plurality of parallel rows, the combination comprising reflecting elements each of which has a plane light entrance surface and facet surfaces sloping outwardly and rearwardly from said light entrance surface, and a one piece holder of moldable material in which said elements are mounted, said holder tightly surrounding said elements except for the light entrance surfaces thereof and having a plane and uninterrupted face surface formed substantially by the light entrance surfaces of said elements to provide a unitary structure with said elements, the facet surfaces of said elements being covered by said holder, and each of said elements having a reflecting surface extending rearwardly from each facet surface and sloping inwardly and towards each other to meet in an apex, the portion of each element having the reflecting surfaces being embedded in said holder.

2,351,081
RECORDING MEASURING INSTRUMENT
Gilbert Swift, Tulsa, Okla.
Application July 29, 1941, Serial No. 404,560
1 Claim. (Cl. 234—1.5)



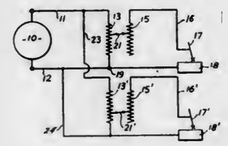
Apparatus for recording the pointer readings and the scale markings of a meter upon a single record surface that comprises light sensitive means to scan by reflected light two lines across the face of the meter, one of said lines crossing the pointer of the meter and the other line traversing the scale markings of the meter, a marking device, means to repeatedly move the scanning means, means to move said marking device in synchronism therewith across a recording surface, means to advance the marking device and recording surface relative to each other so that the markings will occur progressively along the recording surface, and means responsive to the reception of reflected light by said light sensitive means to actuate the marking device each time the reflected light is interrupted by the pointer or a scale marking of the meter.

2,351,082
FLOW RESPONSIVE ALARM VALVE
Emil Tyden, Hastings, Mich.
Application March 9, 1942, Serial No. 433,884
5 Claims. (Cl. 169—23)



1. In combination with a flow passage, a flow indicator including a vane extending into the passage, said passage having a single lateral opening, a plug secured in said opening and supporting said vane swingably for response to flow in the passage, a conduit leading through said plug to an alarm mechanism, a normally closed alarm valve controlling delivery of liquid to said mechanism, a chamber having a movable wall connected to the alarm valve and having an inlet port communicating with the aforesaid conduit, a normally closed valve controlling said port, and operating means extending through said plug from said vane to the controlling valve to open it in response to flow in the passage, the resulting accumulation of liquid in the chamber actuating its said movable wall to open the alarm valve.

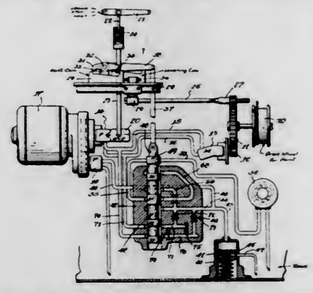
2,351,083
ELECTRIC ARC WELDING
Joseph M. Tyrner, Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1941, Serial No. 421,905
11 Claims. (Cl. 315—299)



1. The method of supplying current for arc welding which comprises connecting the work and electrode with a source of welding current, shunting a portion of the current from said source through a circuit in parallel with the arc circuit, and varying the resistance of the arc circuit and the shunt circuit to reduce the current flowing at the arc to a greater extent than would result from the change in the resistance of the shunt circuit alone.

7. Arc control apparatus for eliminating the crater at the end of a weld bead, said apparatus including a circuit in series with the arc, a circuit in parallel with the arc, and means for increasing the resistance of the series circuit and decreasing the resistance of the parallel circuit to cause the arc to fade.

2,351,084
HOIST BRAKE AND CONTROL SYSTEM
Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Application December 15, 1939, Serial No. 309,459
5 Claims. (Cl. 192—144)



1. A braking apparatus for a hydraulically operated mechanism, including a motor for driving said meachanism and a driven member, means for driving said motor, a brake for holding said mechanism against movement, means for holding said brake in engaged position, means for releasing said brake comprising a piston and cylinder, a source of pressure, a conduit connecting said source and said cylinder, a valve in said conduit for controlling the supply of liquid under pressure to said piston and cylinder, a supplementary source of pressure comprising a cylinder, a movable member within said cylinder for resisting the entrance of liquid therein, means connecting said conduit with said supplementary supply means, and means responsive to the movement of said mechanism for controlling the position of said valve and the admission of liquid under pressure to said brake releasing means.

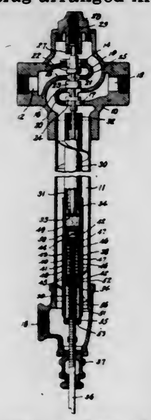
2,351,085
PROCESS OF PRODUCING ALKALI METAL PHENYL MALONIC ESTERS
Vernon H. Wallingford, Ferguson, and August H. Homeyer, St. Louis, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application July 28, 1939, Serial No. 287,000
18 Claims. (Cl. 260—475)

8. The process of making alkali metal metallophenylmalonic esters which comprises reacting a phenylmalonic ester with an alkali metal alcoholate in the presence of a dialkyl carbonate.

2,351,086
THERMOSTATICALLY CONTROLLED DEVICE
Herbert J. C. Wells, Atlantic Highlands, N. J.
Application December 11, 1942, Serial No. 468,644
5 Claims. (Cl. 236—12)

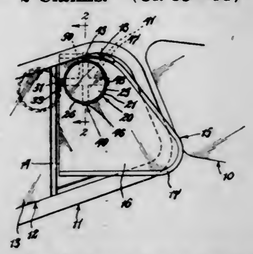
3. In a thermostatically controlled device including a valve and a thermostat for actuating the same, an auxiliary thermo-sensitive safety means operable upon failure of the thermostat to actuate said valve and consisting of a longitudinally extensible member composed of mating telescopically associated tubular sections one of which is provided with an opening, an internal abutment at one end of each section the abutment of one section being disposed at the end opposite to that of the other section, a coiled expansion spring housed by said sections with

the opposite ends thereof engaging the abutments, and a fusible plug arranged in the radial opening



of said one section and fused to the wall of the other section to hold the spring normally under tension.

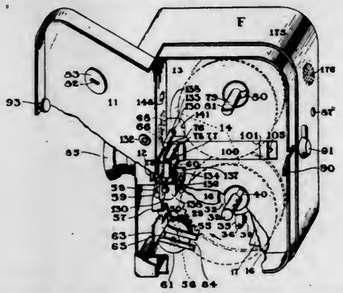
2,351,087
MOUNTING FOR REAR-VISION MIRRORS
Edward T. Welsh, Buffalo, N. Y.
Application May 27, 1941, Serial No. 395,379
2 Claims. (Cl. 88—93)



2. A mounting for securing a rear vision mirror to a window in the side of the car adjacent the driver which window is capable of being swung about a vertical central axis, comprising a support secured to the upper part of said window in rear of the vertical axis thereof, a single horizontal pivot pin carried by said support and projecting perpendicular to said window, a round mirror panel secured to said pivot pin to swing about the axis thereof, said mirror panel being normally arranged with its back against the inside of said window and with said pivot pin adjacent the rear edge of said window whereby upon swinging the rear edge of said window outwardly said mirror panel is moved to provide a rear vision mirror and the mirror panel being movable about said pivot pin to project beyond the rear edge of said window and also to be arranged at different vertical positions to suit the eye height of the driver.

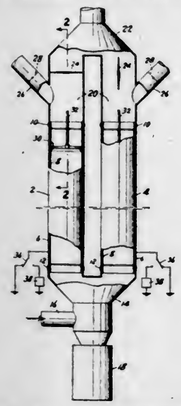
2,351,088
FILM HANDLING APPARATUS
Oliver Whitwell Wilson, New York, N. Y., and Warren Dunham Foster, Washington Township, Bergen County, N. J.; said Wilson assignor to said Foster
Application September 21, 1940, Serial No. 357,802
88 Claims. (Cl. 88—18)

1. In combination, a film magazine and a self threading motion picture camera adapted for alternative use with a film housed within a magazine and a film coiled upon an open reel; said camera having a film-receiving compartment, spindles mounted within said compartment for supporting open reels therewithin, and guiding means engageable by the film and positioned within said compartment for directing the film through said camera, said guiding film-engaging means being so disposed in relation to the space within said compartment which is occupied by said magazine when said magazine is being placed therein that said means does not then engage said magazine and hence block its introduction into said compartment but engages and guides the film supported by said magazine said disposition of said guiding means also being such that when



no magazine is disposed in said compartment but open reels are mounted therewithin it engages the film mounted upon said open reels and effectively directs it from one of said reels to the other thereof; means independent of said spindles for mounting the film within said magazine, means independent of said spindles for engaging a surface of said magazine for mounting it within said compartment as the magazine is placed therewithin, and guiding formations for directing the film housed within the magazine into operative relation with said guiding film-engaging means within said compartment as the magazine is placed in said compartment whereby a film housed within said magazine is automatically threaded by the introduction of the magazine into said compartment.

2,351,089
DUST PRECIPITATOR
Robert G. Abbey, Wynnewood, Pa.
Application November 4, 1941, Serial No. 417,764
2 Claims. (Cl. 183—7)

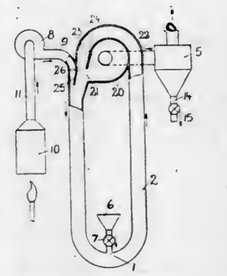


1. Apparatus for the precipitation of electrically charged dust or the like from suspension in an elastic fluid comprising a passage presenting a wall of insulating material to said suspension, the outside of at least a portion of said wall being substantially covered with grounded conducting material, and said passage having no substantial potential gradient within its interior.

2,351,090
PROCESS OF PREPARING RUBBER-COATED ARTIFICIAL FILAMENTS
Francis P. Alles, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 21, 1941, Serial No. 419,998
4 Claims. (Cl. 18—54)

1. A process of preparing artificial cellulosic filaments having a coating of rubber which comprises extruding a coagulable solution containing a cellulosic filament-forming material and a coagulant for a rubber latex into a dispersion comprising the rubber latex and coagulant for the cellulosic material whereby to form filaments having a solid core of cellulosic material and a sheathing of rubber.

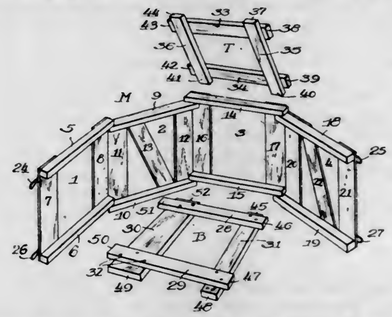
2,351,091
APPARATUS FOR TREATING SOLIDS IN FLUIDS
Peter Joachim Bar, Twickenham, England
Application December 19, 1941, Serial No. 423,674
In Great Britain December 24, 1940
6 Claims. (Cl. 34—57)



1. In an apparatus for treating solid particles in a conditioning fluid comprising an endless duct, an injection nozzle for introducing fluid into said endless duct and maintaining continuous circulation of fluid within said duct, a deflector plate forming one wall of said nozzle and serving for controlling the fluid jet produced by the nozzle, means for introducing solid particles into said endless duct, said duct having an outlet located approximately opposite said injection nozzle, and a fan outside the endless duct producing the necessary pressure drop for operating the nozzle and for passing fluid through said outlet.

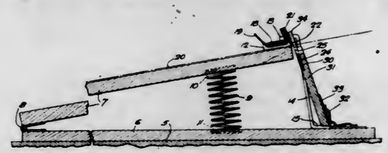
2,351,092
LOCK END WIRE-BOUND SHIPPING CONTAINER
Len W. Bauer, Paterson, N. J., assignor to General Box Company, Chicago, Ill., a corporation of Delaware
Application May 9, 1941, Serial No. 392,635
4 Claims. (Cl. 217—36)

1. A wire bound shipping container comprising a plurality of sides, each of said sides having longitudinally extending cleats along two parallel edges to form two sets of cleats, one along each edge, the cleats of each set being alternately offset laterally so that the adjacent ends can be folded with relation to each other, slats extending across the cleats of each side, wire secured longitudinally along the cleats and over the slats to extend beyond the farthermost end of each of the end cleats, the adjacent cleats being out of longitudinal alinement to enable folding of the sides with relation to each other, said wire extending angularly from one cleat to the next at the folding joints, means for securing the wire



to the cleats and slats, ends for said container, said container ends each having two pairs of crossed parallel rigid cleats of substantial thickness and formed with projecting ends, the ends of one pair of the crossed cleats extending outside of the cleats of two of the sides, and the ends of the other pair of crossed cleats extending inside of the cleats of two other of said sides, each of the crossed cleats of each of said container ends laterally contacting with an adjacent cleat of one of the sides to form a strong container for heavy objects.

2,351,093
CUTTER
Charles O. Beckley, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 11, 1942, Serial No. 454,436
1 Claim. (Cl. 164—43)



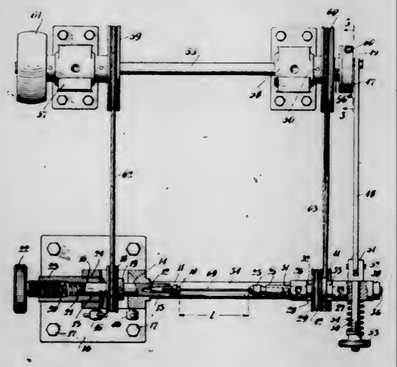
A cutter for sheet material comprising a depressible hinged table, a pair of spacer blocks mounted adjacent opposite edges of said table, a blade and guide positioning member mounted on said blocks and having angularly disposed portions held in spaced relation to the table, a cutting blade fixed to one of said angularly disposed portions and held in spaced relation parallel to the edge of the hinged table, a guide member for guiding sheet material under the cutting blade supported on another angularly disposed portion of the positioning member, said guide member being of appreciably greater height than the guide-positioning member to guide material to be cut to position adjacent the cutting blade on the table, a second cutting blade urged into cutting engagement with the first-mentioned blade, and means normally urging the table in a direction to hold the blades out of cutting engagement.

2,351,094
CHROMIUM OXIDE CATALYST
David G. Blaker, Webb City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application November 12, 1940, Serial No. 365,369
12 Claims. (Cl. 252—232)

11. A process for modifying the catalytic properties of a catalyst consisting of dried and reduced unglowed chromium oxide, which comprises subjecting said catalyst to the action of an aqueous solution of a water-soluble alkaline compound of a metal selected from the group consisting of alkali and alkaline-earth metals.

12. A catalyst consisting of unglowed chromium oxide and containing from approximately 1 to approximately 5 per cent by weight of a compound of a metal selected from the group consisting of alkali and alkaline-earth metals resulting from subjecting said catalyst to the action of an aqueous solution comprising a water-soluble alkaline compound of the metal.

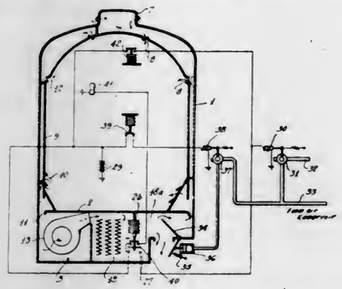
2,351,095
POLISHING MACHINE FOR V JEWELS
Louis C. Blanchon, New York, N. Y., assignor to Meyer Koulish Co. Inc., New York, N. Y., a corporation of New York
Application January 11, 1943, Serial No. 471,996
10 Claims. (Cl. 51—31)



1. A polishing machine for V cavities in jewels comprising, in combination, a rotatable chuck for holding the jewel; a spindle mounted for rotation with its axis normally coaxial with said chuck with freedom of oscillating movement about an axis parallel to the axis of said chuck; means for rotating the chuck and said spindle in opposite directions; and means including an oscillating support for the spindle for periodically displacing said spindle to either side of the chuck axis while maintaining the spindle axis parallel with the chuck axis.

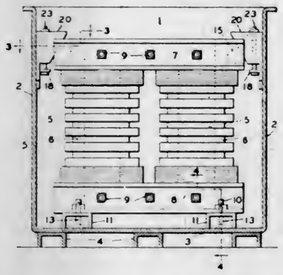
2,351,096
HEATING AND VENTILATING SYSTEM FOR CAR BODIES
Lebert E. Blue, Teaneck, N. J., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application July 16, 1941, Serial No. 402,692
9 Claims. (Cl. 98—10)

1. A ventilating system for a street car having a body with an intake ventilator and a compartment containing a motor circuit resistance, comprising dual air pumping means, one of said pumping means having its outlet connected to said resistance compartment, a passageway leading from said resistance compartment to the interior of said body a common air duct means connecting each of said dual pumping means with the interior of said car body whereby each is effective to withdraw air from said



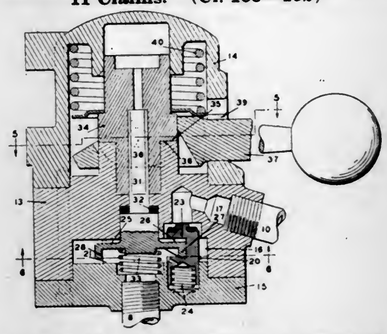
car body and whereby both set up a negative pressure in said common duct, and means responsive to temperature conditions in said resistance compartment for disconnecting the other of said dual pumping means from said common air duct whereby the negative pressure therein is decreased and a greater quantity of air is passed through said resistance compartment by the first of said dual means.

2,351,097
TRANSFORMER ANCHORING MEANS
Ralph Boeringer, University City, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application February 23, 1942, Serial No. 431,947
2 Claims. (Cl. 175—361)



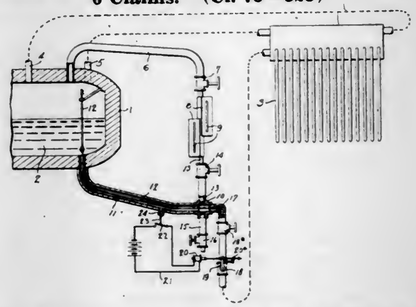
1. In a device of the class described, a containing case, a transformer assembly including a core positioned in said case, a clamp plate comprising two bars separated by and extending beyond the core, a block carried by the inner side of each bar, each block being provided with an inclined face beyond which a corner of the bar projects, a fixed bracket carried by a wall of the case adjacent the end of the clamp plate, a movable bracket having interlocking sliding connection with the fixed bracket and positioned between the wall of the case and the clamp plate, said movable bracket engaging with the inclined faces of the blocks and with the projecting corners of the bars, and a threaded connecting member extending between the fixed and movable brackets for moving them relatively to impart a downward and transverse wedging action to the transformer assembly.

2,351,098
HYDRAULIC ACTUATING SYSTEM
Werner F. Boldt, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application January 6, 1943, Serial No. 471,410
11 Claims. (Cl. 188—152)



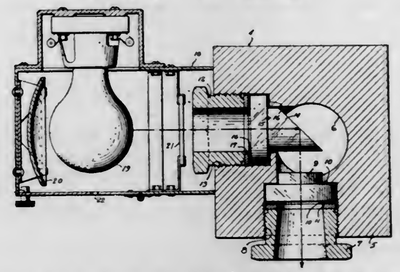
1. In a fluid pressure system, a source of fluid pressure, three fluid motors for actuating devices, conduit means connecting the source with each fluid motor, three normally open shut-off valves associated with the conduit means and each comprising an element having reciprocable movement only capable of cutting off communication between the source and a motor, and means comprising a single operable member movable relatively to all the elements for so controlling the closing of the elements of said shut-off valves that one valve together with either one of the other two valves can be selectively placed in closed condition.

2,351,099
LIQUID LEVEL GAUGE
Harry E. Brelsford, Birmingham, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application November 28, 1941, Serial No. 420,760
6 Claims. (Cl. 73—328)



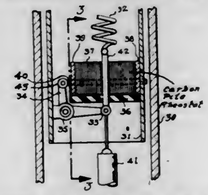
1. The combination of a gauge for indicating the level of water in a boiler, a connection from the top of said gauge to the steam compartment of said boiler and a connection from the bottom of said gauge to the water compartment of said boiler comprising a pipe, and means imparting heat to said pipe along the length thereof comprising a conduit extending longitudinally of said pipe and projecting into the water compartment of said boiler to a height substantially above the water level therein and open at its upper end to admit steam, a vent at the outer end of said conduit into a region of pressure lower than that in said steam compartment and valvular means near the gauge for controlling the flow of steam through said conduit.

2,351,100
PRISMATIC ACCUMULATOR GAUGE
Harry E. Brelsford, Birmingham, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application December 2, 1941, Serial No. 421,387
4 Claims. (Cl. 73—293)



1. A gauge for indicating liquid levels comprising a gauge body having a passageway longitudinally therethrough and connections from each end of said passageway to a liquid reservoir, a set of transparent windows set into said gauge body along the length thereof and exposed to said passageway, a second set of transparent windows through said gauge body also exposed to said passageway, each window of each of said sets being at a height along said body corresponding to the height of a window of the other set, said windows each being formed by a threaded bore having a transparent glass inset therein, a hollow plug threaded into said bore and gaskets inwardly and outwardly of said glass accepting the pressure imposed on said glass by said plug, a source of light adjacent each window of one of said sets, and a reflecting prism in said passageway at the height of each of said windows, means individual to each of the last named set of windows for directing a beam of light from said source through its adjacent window into the adjacent reflecting prism, each of said reflecting prisms being constructed and arranged to deflect rays from said light source and from said means and through its other adjacent window, or not, depending on whether said reflecting prism is or is not immersed in liquid.

2,351,101
LIQUID LEVEL INDICATOR
Harry E. Brelsford, Birmingham, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application March 9, 1942, Serial No. 433,952
2 Claims. (Cl. 73—313)



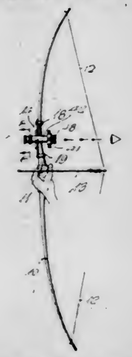
2. A liquid level indicator for a pressure chamber comprising a pile of comparatively loosely packed carbonaceous-like material placed in the chamber above the highest liquid level, said pile being composed of a plurality of flat disc-like elements positioned in side by side vertical relation whereby relief of loading permits expansion of said material, an electric circuit in which said pile is incorporated, a weight in said cham-

ber extending in length substantially from the highest to the lowest possible liquid levels therein, a spring sustaining said weight, means positioned between said weight and said spring reacting against a wall of said chamber and acting on said weight to transfer a portion of said weight to said pile when acting to relieve substantially all loading on said pile when said weight is fully immersed whereby said carbonaceous-like material expands, and means indicating the current flow in said circuit.

2,351,102
POLYMERIC VINYLIDENE CHLORIDE COMPOSITION
Edgar C. Britton and Fred Lowell Taylor, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 29, 1940, Serial No. 363,352
8 Claims. (Cl. 260—36)

1. A composition of matter consisting on the solids basis essentially of a polymeric vinylidene chloride product plasticized with from about 5 to about 20 per cent of a nuclearly substituted alpha-phenyl-ethyl phenol ether wherein the substituent is selected from the class consisting of methoxyl, chlorine, and phenyl radicals.

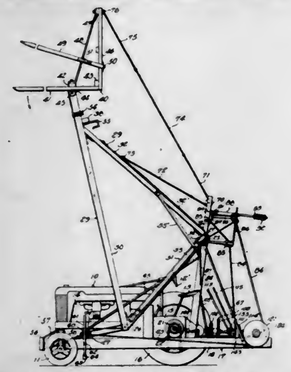
2,351,103
SIGHT DEVICE FOR ARCHERY BOWS
Oliver H. Brown, Waupaca, Wis.
Application July 27, 1943, Serial No. 496,320
6 Claims. (Cl. 33—46)



6. A sight device to be mounted upon an archery bow, comprising an attaching plate to be mounted upon the face of the bow, elements secured to the ends of the plate and embracing the bow, adjustable set screws carried by the ends of the plate and having pointed ends to be embedded in the face of the bow, the elements and set screws serving to positively hold the attaching plate to the bow against displacement, and sight means carried by the plate.

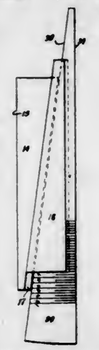
2,351,104
COMBINED PUSH RAKE AND STACKER
Perry E. Carter, Guilford, Mo.
Application June 11, 1943, Serial No. 490,507
16 Claims. (Cl. 214—140)

1. Apparatus of the character described comprising a tractor, an elevating frame pivoted to said tractor to swing on a horizontal axis spaced a substantial distance above the ground, means for applying force substantially in a horizontal plane to said frame substantially below said pivot axis to swing the forward end of said frame upwardly, a gathering receptacle pivoted on a horizontal axis to the forward end of said frame, said receptacle having a normally substantially horizontal bottom, and means for retaining said



bottom substantially horizontal during swinging movement of said frame, comprising a cable connected to said receptacle and to said frame forwardly of the pivotal connection thereof to the tractor, and a pulley arranged above said pivot axis and around which said cable passes.

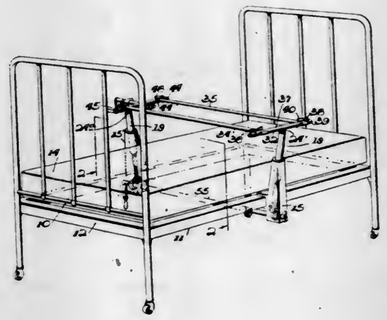
2,351,105
OFFSET KEYWAY GAUGE
Anthony J. Casali, Canton, Ohio
Application October 14, 1943, Serial No. 506,151
4 Claims. (Cl. 33—162)



1. An offset keyway gauge including a pair of wedge-shaped pieces slidably engaged at their inner faces for endwise movement and having outer parallel gauge faces, one of said wedge pieces having an upwardly projecting portion and having a tapered longitudinally extending horizontally disposed slot in said upwardly projecting portion, and a tapered gauge bar slidably engaged in said slot, said gauge bar having an outer edge parallel with and adapted to extend laterally beyond the gauge face of said one wedge piece.

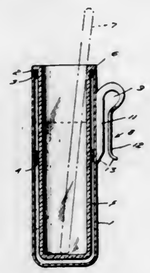
2,351,106
BED LIFT
James O. Chambers, Fort Worth, Tex.
Application May 18, 1943, Serial No. 487,503
12 Claims. (Cl. 5—83)

6. In combination with a bed, an invalid lifting device comprising a pair of casings disposed on opposite sides of the bed and connected to the side rails thereof, each of said casings having a vertically inclined internally threaded tubular member axially movable therein, a worm extended into the tubular member and engaging the threads thereof for moving the same, flexible supporting means extending across the bed, means connecting the ends of the supporting



means to said tubular members, means for simultaneously rotating the worms to impart axial movement to the tubular members, said tubular members when raised being moved away from each other so as to tighten the flexible means, and means carried by one of the tubular members and connected to one end of the flexible means for adjusting the tension of the latter.

2,351,107
HOLDER FOR THERMOMETERS
Maurice Charnysh, Meriden, Conn.
Application February 19, 1941, Serial No. 379,673
1 Claim. (Cl. 206—16.5)



A holder for thermometers comprising a cylindrical shell having an open top and a closed bottom, a cylindrical container for the thermometer smaller in diameter and shorter than said shell and adapted to be housed in the latter, and means to frictionally lock the container in the shell in spaced relation thereto comprising a resilient annular gasket in the shell substantially midway of the ends thereof and in which the container is frictionally slidable, a rabbeted annular resilient gasket fitting in the open end of the shell and seating on the rim thereof, and an outturned annular rim flange on said container seating against said gasket and holding the same seated against said rim.

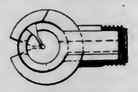
2,351,108
MERCAPTAN MODIFIED POLYMERIC DERIVATIVES OF NONBENZENOID ACETYLENE POLYMERS AND PROCESS FOR MAKING SAME
Arnold M. Collins, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 31, 1940, Serial No. 348,975
10 Claims. (Cl. 260—79)

1. Process of making a film-forming material which comprises polymerizing for a time insufficient to cause gelation non-benzenoid polymers of acetylene having less than 9 carbon atoms in the presence of a mercaptan, the molecular ratio of mercaptan to acetylene polymers being less than 1/3.

2,351,109
BOTTLE LABELING ADHESIVE
John F. Corwin and Robert C. White, Bainbridge, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 17, 1941, Serial No. 411,250
7 Claims. (Cl. 106—146)

1. An adhesive paste suitable for labeling bottles, such adhesive comprising water as its largest component, casein, an organic amide in amount less than the casein as the largest component of the casein-dissolving agent, a zinc compound in an amount less than said amide, and an alkaline solvent in an amount that, with said amide, will dissolve the casein, such adhesive paste being substantially stable against putrefactive fermentation for at least several months, and having a working life of at least several months, and such adhesive paste giving paper labels attached therewith to glass bottles and dried, the property of resisting the action of ice water and of water at about ordinary room temperature, for at least several days, and such adhesive paste being free from added alkaline earth bases.

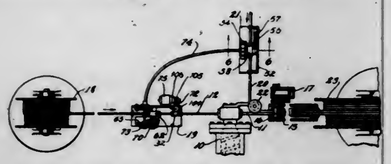
2,351,110
APPARATUS FOR LIQUID TREATMENT OF FILAMENTARY MATERIAL
Hobart O. Davidson, Swarthmore, and Henry J. McDermott, Prospect Park, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 30, 1942, Serial No. 441,202
6 Claims. (Cl. 68—147)



1. An apparatus for treating filamentary material with liquids comprising an outer casing having an internal generally cylindrical surface, an inner casing having an external generally cylindrical surface and rotatably mounted in the outer casing with their cylindrical surfaces in liquid sealing engagement, openings at opposite ends of said casings for entrance and discharge of the filamentary material with respect to the interior of the inner casing, the opening at the lower end of said chamber being relatively small to allow passage of the material with a minimum passage of liquid, a longitudinal slot in the wall of each casing communicating with the openings at the ends of its respective casing, an overflow opening extending through the side wall of the inner casing, means for rotating one casing

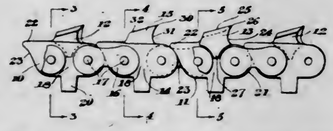
with respect to the other to bring the slot of the outer casing alternately into communication with the slot and overflow opening of the inner casing, and liquid inlet passages in said casings arranged to be in communication at least when the overflow opening is in communication with the slot in the outer casing.

2,351,111
ASSEMBLING STRIP MATERIAL
Edward A. Davis, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 17, 1942, Serial No. 427,193
7 Claims. (Cl. 154—8)



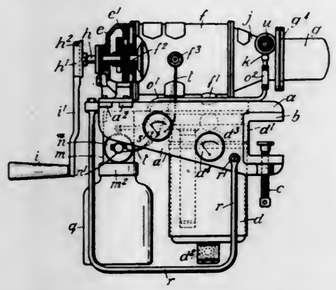
1. Apparatus for progressively assembling a plurality of extensive strip elements into adhesive engagement with each other, said apparatus comprising means for progressively coating one of the strip elements with an adhesive material, means for progressively feeding a second strip element into contact with the adhesive coating on the first said strip element, means for progressively tensioning one of said strip elements, and means responsive to the speed of the other strip element for varying the degree of said tensioning to maintain the strip elements in synchronized speed at their contacting position.

2,351,112
CHAIN SAW TEETH
Jabe Day, Courtenay, British Columbia, Canada
Application October 8, 1942, Serial No. 461,320
In Canada October 6, 1941
1 Claim. (Cl. 143—135)



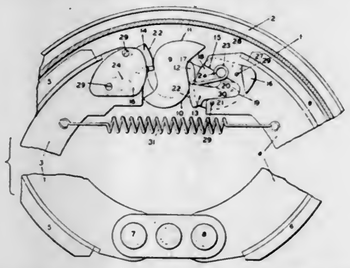
A chain saw having cutter teeth and raker teeth pivotally connected by side links, each of the side links having rounded ends, each of the cutter links having one end rounded and a shoulder formed at its outer end with the curved portion projecting over the curved portion of the adjacent cutter or raker link, each cutter tooth having a cutting edge formed along its forward end and another cutting edge formed along the outer edge of the tooth terminating in a point, said outer cutting edge sloping towards the body of the tooth from its forward end, the portion of the cutting tooth forming the cutter edges extending beyond the side of the body portion and extending downwardly along the said side to form a shoulder having curved sides extending around the curved end of the adjacent connecting links as well as partly over the body portion, each raker link being formed with a body portion of similar form to the cutter link and having a raker tooth projecting upwardly from the upper edge of the link, then extending outwardly from both sides of the body to form a wide cutting edge with a forward concave face.

2,351,113
WATER PURIFICATION APPARATUS
David Johnson Evans, Tonbridge, England, assignor to E. C. D. Limited, Tonbridge, Kent, England
Application November 3, 1941, Serial No. 417,714
In Great Britain December 20, 1940
7 Claims. (Cl. 210—29)



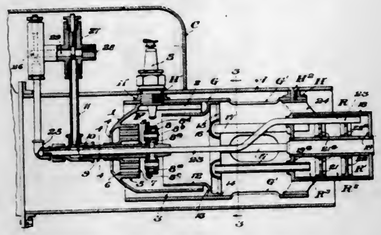
1. Water purification apparatus, comprising a pump having a suction side and a delivery side, an electrolytic cell, an electric generator, means for supplying current to said cell from said generator, a chemical tank, manual driving means, operative connections between said driving means and said pump and generator, a connection from the suction side of said pump to a source of water supply, a branch pipe from said connection to said cell, a connection from said cell to said chemical tank, and means for regulating the flow through said branch pipe, said regulating means consisting of an adjustable needle-valve aligned with one end of said branch pipe.

2,351,114
CAM-ACTUATED BRAKE
Walter R. Freeman, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application March 31, 1943, Serial No. 481,220
11 Claims. (Cl. 188—78)



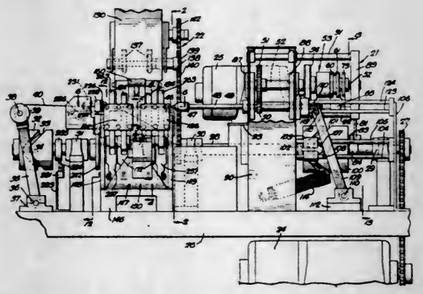
1. In a brake, a drum, a brake shoe having an end to be actuated into engagement with the drum, a member pivoted on the end of the shoe and having a curved surface, a rotatable actuating member having a cam surface for engaging the curved surface of the pivoted member, means for limiting the extent of pivotal movement of the pivoted member, and means for causing the cam surface to have sliding engagement with the curved surface when the rotatable member is initially rotated to bring the shoe into engagement with the drum but permitting a subsequent rolling engagement between the cam surface and the curved surface during continued rotation of the rotatable member.

2,351,115
HORIZONTAL BURNER
Joseph E. Farrell, Toms River, N. J., assignor to National Engineering Foundation, Inc., Washington, D. C., a corporation of Delaware
Application June 10, 1942, Serial No. 446,507
2 Claims. (Cl. 158—53)



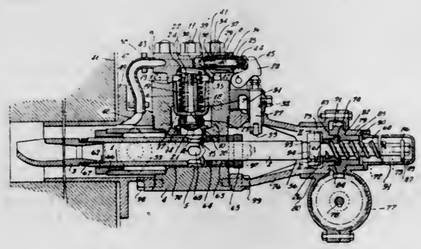
1. A gaseous fuel burner, comprising, in combination, a blower including a housing, a barrel communicating with the blower housing to conduct an air stream therefrom; a gasifying unit disposed in the said air stream of the barrel and including, a tubular carrier of less diameter than the barrel, means for suspending the carrier in the barrel in spaced relation thereto to provide an air space between the carrier and the inner surface of the barrel, a gasifying retort supported at the outlet end of said carrier, said retort having rearwardly extending gas discharge tubes, means for shielding the outlet ends of said gas tubes from the direct blast of the air stream and tending to produce a vacuum in said gas tubes when the air stream passes said means, a flame initiator unit supported in the intake end of the carrier and exposed to the air blast issuing from said blower, said carrier having medial openings for admitting air from the space between the same and the barrel into the carrier in the zone of the gas tubes, valve controlled pipe means leading into the barrel for supplying liquid fuel respectively to the retort and flame initiator, and an igniter device carried by the barrel and having its sparking end disposed in flame propagating proximity to the flame initiator.

2,351,116
ARTICLE ASSEMBLY APPARATUS
Alexander C. Frankwich and George A. Seeley, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 30, 1942, Serial No. 449,108
18 Claims. (Cl. 29—84)



1. A fuse threading machine comprising means for holding a fuse shell, a needle insertable through said shell, means engageable with fuse material and movable in a circular path for causing fuse material to be moved around and hooked by said needle, means for advancing and retracting said needle through the shell, means for rotating the needle during its movement in one direction through the shell, and actuators for operating said several means in timed relation one to another.

2,351,117
FLUID HEATER CLEANER
Roy James Glinn and Percy Gilbert Handoll, London, England, assignors to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application July 19, 1940, Serial No. 346,410
In Great Britain July 26, 1939
2 Claims. (Cl. 122—392)



1. In a fluid heater cleaner comprising a movable blower tube adapted to be projected from a retracted position and after operation to be withdrawn to that position, the combination of a casing for the blower element having a fluid inlet through the wall thereof, a valve guarding said inlet and having its housing forming a part of said casing, and a relay valve positioned in said housing for the control of said valve and having a tappet extending through said casing for actuation by said blower tube, said valve being located sufficiently close to the opening occupied by the blower element and to that end of the opening from which the blower element is withdrawn that leakage of fluid past the valve may be observed in said opening and a tool may be inserted through the opening to manipulate said valve on its seat in an effort to dislodge foreign matter.

2,351,118
COLORING MATTERS OF THE PHTHALOCYANINE SERIES
Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 15, 1942, Serial No. 451,075. In Great Britain June 6, 1939
11 Claims. (Cl. 260—146)

1. A water-soluble dyestuff consisting of a phthalocyanine molecule coupled by azo bridges onto azo-coupling components selected from the group consisting of the naphthol-sulfonic acids, the amino-naphthol sulfonic acids, the aryl-pyrazolone-carboxylic acids, the sulfo-aryl-pyrazolones and the N-substituted amino-naphthol-sulfonic acids.

2,351,119
COLORING MATTER OF THE PHTHALOCYANINE SERIES
Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 15, 1942, Serial No. 451,076
9 Claims. (Cl. 260—146)

1. A compound of the general formula

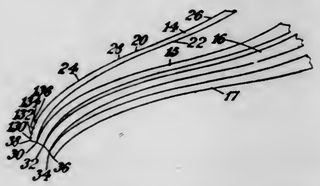
$$(M=Pc)(N=N-Q)_x$$

wherein M=Pc represents the radical of a benzenoid phthalocyanine compound of the group consisting of the metal-phthalocyanines and metal-free-phthalocyanine, Q represents the radical of a coupling component free of water-solubilizing radicals and being selected from the group consisting of the naphthols, the acyl-acetarylides, the 1-aryl-3-methyl-5-pyrazolones, the arylamides of 2,3-hydroxy-naphthoic acid and the arylamides of 2-hydroxy-carbazole-3-carboxylic acid, while x stands for an integer not less than 2 and not greater than 4, and wherein the N=N bridges are attached to the phthalocyanine radical in the phenylene nuclei of the latter.

2,351,120
POLYMERIZATION OF ETHYLENIC MATERIALS
William Edward Hanford, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 6, 1942, Serial No. 453,851
9 Claims. (Cl. 260—67)

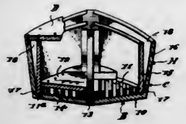
1. The products obtained by reacting with an aldehyde substance the normally solid polymers obtained by polymerization of carbon monoxide with a polymerizable organic compound containing ethylenic unsaturation, the aldehyde-polymer reaction being carried on in the presence of an alkaline catalyst.

2,351,121
CURVED STRUCTURE
Norman Hart, Sutton, England
Application May 6, 1941, Serial No. 392,112
In Great Britain May 9, 1940
1 Claim. (Cl. 20—0.5)



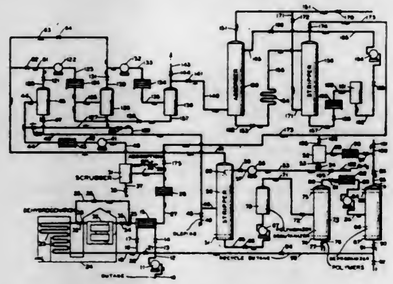
A resilient curved structure of the kind described made from flat resilient sheet material without stressing the same beyond its elastic limit, comprising a plurality of strips of the sheet material having marginal portions with curved edges joined together edge-to-edge with curved parts of an edge of one marginal portion of compound curvature joined to curved parts of an edge of an adjacent marginal portion of different curvature, which parts in the final structure are curved in two directions lying transversely one of the other due to the stresses set up in the material at opposite sides of the joints.

2,351,122
BOAT CONSTRUCTION
Harrison C. Hartzog, Port Lavaca, Tex.
Application May 14, 1942, Serial No. 442,968
1 Claim. (Cl. 114—82)



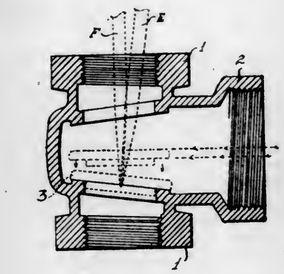
A boat of the class described comprising a hull having a bottom, the bottom comprising an inner and an outer bottom skin of plywood, longitudinal spaced ribs interposed between and secured to the inner and outer bottom skins to provide a plurality of buoyant compartments extending longitudinally of the bottom, each side of the hull having an inner and outer side skin, the lower edges of the inner and outer side skins fitting in close relation and being secured to the side edges of the bottom, the ends of the inner and outer side skins being secured together at the stern of the hull and spaced at the bow, the inner and outer side skins diverging upwardly to space the inner and outer side skins along their upper edges throughout the major portion of the length of the hull, and a deck fastened to the upper edges of the inner and outer side skins for holding the inner and outer side skins in set spaced relation to provide a pocket longitudinally of each side of the hull for receiving buoyant material.

2,351,123
PROCESS FOR PREPARING HYDROCARBONS FOR POLYMERIZATION
Harrison L. Hays, Phillips, and Joseph L. Maher, Odessa, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application May 20, 1940, Serial No. 336,250
6 Claims. (Cl. 260—683.1)



1. A process which comprises passing a normally gaseous mixture containing butenes, propene, hydrogen and methane to a separating means, passing to said separating means propene vapors as subsequently recited, separating in said separating means a major portion of said hydrogen and methane, passing the residual mixture containing butenes and propene together with any residual minor proportion of unseparated hydrogen and methane in liquid phase to a fractional distillation means, withdrawing from said fractional distillation means a liquid polymerization feed stock consisting essentially of C_3 and C_4 hydrocarbons, including butenes and propene, the ratio of C_3 to C_4 hydrocarbons in said stock being substantially greater than that of the charge passed to said separating means, subjecting said feed stock withdrawn from said fractional distillation means to catalytic polymerization to effect polymerization of substantially all of said butenes and a substantial portion of said propene, subjecting the polymerization effluent to treatment to recover an essentially C_3 fraction of unreacted hydrocarbons containing propene, liquefying at least a portion of said unreacted propene in said C_3 fraction, passing said liquefied unreacted propene to said fractional distillation means in heat-exchange relationship with overhead vapors of said fractional distillation means to condense substantially all of the C_4 fractions and at least a portion of the C_3 fractions in said vapors and concomitantly to vaporize at least a portion of said liquefied propene, passing the propene thus vaporized to said separating means and utilizing said condensed fractions as refluxing liquid in said fractional distillation means.

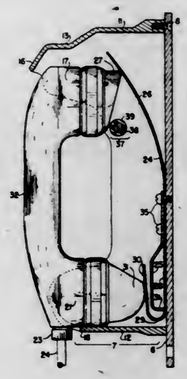
2,351,124
GRINDING TOOL FOR RESEATING GATE VALVES
John C. Hendrick, Wichita, Kans.
Application May 22, 1943, Serial No. 487,993
2 Claims. (Cl. 51—205)



1. In a grinding tool for reseating gate valves, a circular disc, a shoulder formed on one side of the disc inward of its periphery as registering means for the disc on the annular seat of a gate valve, the other side of the disc having a slotted eye concentrically positioned therein, the side walls of the eye diverging outward and the said eye having an aperture centrally positioned and extending through the disc, a stem having one end portion flattened and having a spur axially extending from its flattened portion, the spur and its adjacent end of the stem to engage the eye and aperture simultaneously as centering and turning means for the disc.

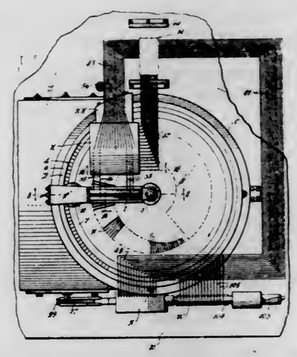
2,351,125
HAND TELEPHONE MOUNTING
Oscar W. Henrikson, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application May 25, 1942, Serial No. 444,364
20 Claims. (Cl. 179—146)

1. A mounting for a handset telephone having transmitter and receiver units, said mounting comprising a cup-shaped member for receiving the receiver unit of the handset, a cup-shaped member for receiving the transmitter unit of the handset, and means directly engaging one of said



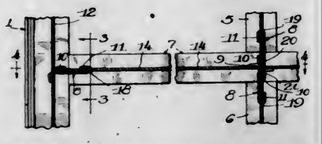
units to maintain each of said units in engagement with its associated cup-shaped member.

2,351,126
MACHINE FOR PHOTOGRAPHICALLY COMPOSING TYPE CHARACTERS
Alexander G. Highton, Paterson, N. J.
Application May 5, 1941, Serial No. 391,836
12 Claims. (Cl. 95—4.5)



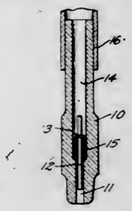
9. In a machine for composing single type characters, the combination of a support holding in predetermined relation to each other for movement in a predetermined common path one behind another, an assortment of different single type characters of different widths required for composing at least one line of words, means for selecting individual characters in succession, means including said support for continuously moving said selected characters in the order of selection in said common path one behind the other past a common exposure point, means for projecting an image of each selected character while it is in motion and during movement of the character past said point, a carriage for a sensitized surface to receive said images, and means for variably moving said carriage in timed relation to the projection of said images and in steps each of a length corresponding to the width of the character image next to be projected.

2,351,127
MUNTIN ASSEMBLY CLIP
Milo G. Hodson, South Bend, Ind., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application October 31, 1941, Serial No. 417,298
4 Claims. (Cl. 189—76)



1. A metal window comprising encompassing sash rails, intersecting horizontal and vertical muntins for dividing the frame into smaller transparencies and a clip for connecting the end of each muntin to its adjoining sash rail, the sash rails being provided with spaced openings and the end of the muntin to be joined thereto having a notch and an opening spaced therefrom, each clip having spaced projections extending in opposite directions, the projections extending in one direction being adapted to project through the openings in the sash rail and connect therewith and those extending in the opposite direction projected through the notch and opening in the muntin and when assembled and bent down upon the muntin, rigidly connecting the muntin to the sash rail.

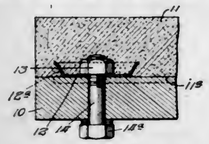
2,351,128
METHOD OF EFFECTING SEAL BETWEEN CENTER ELECTRODE AND INSULATOR OF SPARK PLUGS
Joseph A. Jeffery, Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware
Application February 23, 1942, Serial No. 432,025
5 Claims. (Cl. 49—81)



1. The method of providing a seal between the insulator and center electrode of a spark plug wherein the electrode is received by an insulator bore of greater diameter than the electrode to form a space therebetween, which consists in supplying a quantity of sealing medium of glass or glaze to one end of the bore, softening the medium by application of heat, introducing the electrode through the sealing medium to proper assembled relation to the insulator and when the sealing medium is soft forcing the sealing medium into the bore around the electrode by fluid pressure.

2,351,129
ANCHOR STUD FOR ABRASIVE WHEELS
Rudolph Jockel, Chicago, Ill., assignor to Titan Abrasive Company, a corporation of Illinois
Application January 9, 1943, Serial No. 471,908
6 Claims. (Cl. 51—209)

1. In combination with a cast abrasive wheel, a perforated sheet metal cup with its flared flange embedded in said wheel, and a stud projecting from said wheel through said perforation, said



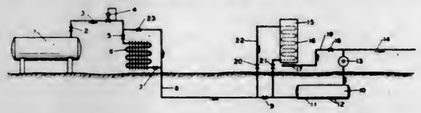
stud having a head within the cup embedded in the wheel.

2,351,130
GRIDDLE PLATE
Edwin A. Jones, Webster Groves, Mo., assignor to Majestic Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application July 21, 1941, Serial No. 403,314
2 Claims. (Cl. 99—425)



1. A griddle plate construction comprising a cast iron, relatively warp-free plate having one surface machined and polished to its edges, and a rim member originally separate from the plate but integrally and permanently united therewith, said rim extending around a major part of the entire edge of the plate, said rim member extending upwardly above said polished surface of the plate with the inner edge of the rim member at a sharp angle relative to said surface, said rim member extending outwardly beyond a portion of said griddle plate to provide an opening between the edge of the griddle and the extending parts of the rim member, and a chute secured within the opening to receive and control flow of material passing off the griddle plate.

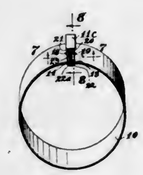
2,351,131
SYSTEM FOR STORAGE AND UTILIZATION OF FUEL GASES
Arthur N. Kerr, Los Angeles, Calif., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 28, 1940, Serial No. 367,647
4 Claims. (Cl. 62—1)



1. A liquefied gas vaporizing and dispensing system comprising in combination a container for the liquefied gas disposed above the ground, conduit means for withdrawal of said liquid from said container comprising in the direction of withdrawal a pressure reducer for vaporizing and thereby cooling at least a portion of said liquid by pressure reduction, and a heat exchange means disposed above ground for vaporizing at least a portion of any remaining liquid by re-

heating to at least substantially the temperature of said container, a carburetor chamber disposed under the ground below the frost line in heat exchange relation with the ground, said conduit means from said heat exchange means being disposed in communication with the lower portion of said chamber, whereby any remaining liquid is vaporized in said chamber by absorbing heat from the ground and by evaporating into and carbureting gas entering the chamber, and a dispensing conduit for withdrawal of gas from the upper portion of said carburetor.

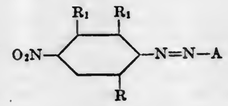
2,351,132
HAT SWEATBAND AND MEANS FOR JOINING THE ENDS THEREOF
Ferd R. Kling, New York, N. Y.
Application June 25, 1942, Serial No. 448,355
1 Claim. (Cl. 2—181)



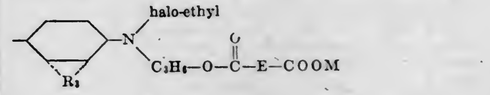
In a hat sweat band having a sweat band member, means for joining the ends of said member, comprising an overlapping welt to conceal said ends, grooved portions in said welt to join said ends, said grooved portions being disposed in spaced relation on opposite sides of said welt to form a channel between them; a flap extending from said welt, comprising a face portion adapted to receive hat indicia, and a back portion extending beneath and secured to said grooved portion; and means adapted to securely unite said grooved portions and ends.

2,351,133
MONOAZO DYESTUFF
Arthur Howard Knight, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application December 22, 1938, Serial No. 247,209. In Great Britain December 28, 1937
6 Claims. (Cl. 260—205)

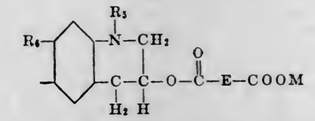
1. A compound represented by the formula



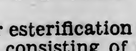
in which R is one of a group consisting of hydrogen, nitro and halogen, one R_1 is hydrogen and the other R_1 is a member of the group consisting of hydrogen, nitro and halogen, no more than one nitro group being present among the R and R' groups; A is the residue after coupling of a coupling component of one of a group consisting of ammonia and alkali metal salts of dicarboxylic acid half-esters represented by the formulae



and

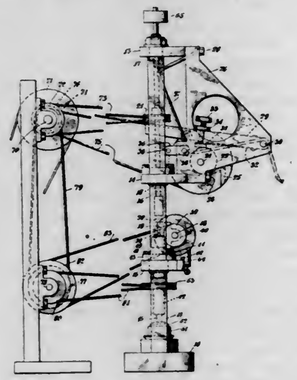


wherein R_2 is a member of the group consisting of alkyl, monohydroxyalkyl, phenyl, naphthyl, phenyl-alkyl, cyclohexyl and alkyl-cyclohexyl, wherein alkyl in said members has 1 to 6 carbons, R_3 is one of a group consisting of hydrogen, alkyl having 1 to 6 carbons and halogen, R_4 is an alkylene group having 2 to 3 carbons, R_5 is a member of the group consisting of alkyl, phenyl-alkyl and naphthyl-alkyl wherein alkyl in said members has 1 to 6 carbons, R_6 is a member of the group consisting of hydrogen, alkyl having 1 to 6 carbons and halogen; the group



is the residue after esterification of a dicarboxylic acid of the group consisting of maleic acid, and straight and branched chain aliphatic acids having a formula $HO_2C—C_nH_{2n}—CO_2H$ wherein n is 2 to 6; and M is one of a group consisting of hydrogen, ammonia and the alkali metals, the azo group being para to nitrogen.

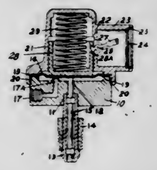
2,351,134
MACHINE FOR GRINDING "V" JEWELS
Meyer Koulish, New York, N. Y., assignor to Meyer Koulish Co., Inc., New York, N. Y., a corporation of New York
Application January 8, 1943, Serial No. 471,667
6 Claims. (Cl. 125—30)



1. A machine for grinding V jewels comprising in combination, a collet chuck for holding a

jewel, the chuck being mounted for rotation about a substantially vertical axis; a rotatable shaft mounting said chuck, a thrust bearing upon which said shaft rests and rotates; a vertical tool spindle mounted for rotation coaxially with said chuck and for axial movement towards, and away from, said chuck; a shoulder on said tool spindle; gravity means for urging said spindle towards said chuck; a grinding tool carried by said spindle, said tool having a conical point corresponding in shape to the V-cavity to be ground; means including a cam and a rockable lever adapted to engage said cam and said shoulder for periodically moving said spindle away from said chuck against the action of said gravity means; means for jointly driving said chuck and spindle in opposite directions and for rotating said cam; a second lever having a member to engage said first lever, said second lever being manually operable to disengage said first lever out of control of said cam and to cause said first lever to move said spindle away from said chuck.

2,351,135
PRESSURE REGULATOR
Allen D. Krugler, Pontiac, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 10, 1941, Serial No. 401,849
3 Claims. (Cl. 50—23)



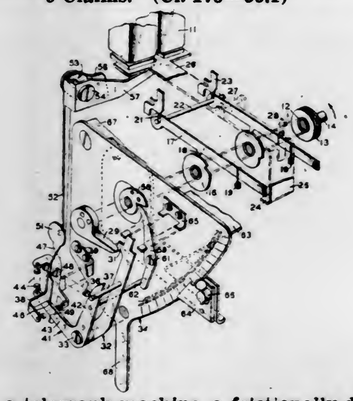
1. For use in a liquefied petroleum gas dispensing system which includes a tank of gas under pressure having a thrust-operated outlet valve serving as a closure therefor, an improved regulator-indicator comprising in combination a body, a diaphragm separating said body into two compartments, the diaphragm having a central portion mounted for movement axially of the diaphragm, an inlet and an outlet formed in the walls of one of said compartments whereby the gas under pressure urges the diaphragm in one direction, said inlet establishing pressure-tight communication with the interior of said tank, a thrust member slidably mounted in said inlet operable by said central portion of said diaphragm to control said tank outlet valve, a hollow cup-shaped member slidably mounted in the other of said compartments and having a slot in the side wall thereof and operatively engaged with said diaphragm, the body of the cup-shaped member forming a wall of the slot a chosen distance from the portion engaged with the diaphragm, a regulator spring received within said cup whereby the spring urges the diaphragm against said gas under pressure, a semaphore arm pivotally mounted within the housing having one end extending into said slot and engaged by the wall thereof as the cup-shaped member is moved in one direction whereby pivoting movement of the semaphore arm occurs upon said movement of said cup-shaped member and an inspection port opposite the other end of said arm to indicate visually the position of the semaphore arm, and thereby the known related position of the diaphragm.

2,351,136
HOE
John Ferdinand Linden, Caledon, Ontario, Canada
Application March 10, 1941, Serial No. 382,592
5 Claims. (Cl. 97—66)



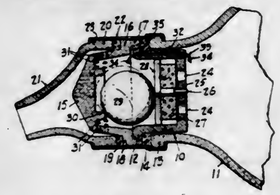
1. In a hoe, an operating blade comprising in combination, an intermediate head and a bevelled transversely disposed rearwardly inclined cutting flange extending from one longitudinal margin of the head and a second bevelled transversely disposed forwardly inclined cutting flange extending from the opposite longitudinal margin of the head; the plane of the first mentioned cutting flange being disposed at a greater angle to the plane of the head than the second mentioned cutting flange; each of said cutting flanges having its end edges inclined inwardly at an acute angle to the longitudinal edge and merging with the adjacent end of the head.

2,351,137
TELEGRAPH APPARATUS
James W. Long, Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application June 13, 1942, Serial No. 446,890
9 Claims. (Cl. 178—53.1)



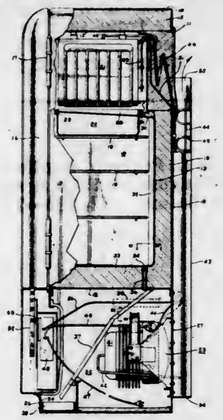
1. In a telegraph machine, a frictionally driven rotatable distributor member normally tending to rotate, a stop arm rotatable with said member, a lock arm normally locking said stop arm to thereby hold said distributor member at rest, a signal responsive means, a resilient member, an inertia member operated by said resilient member and engageable with said lock arm to operate the same, said inertia member having a period of free movement before engagement with said lock arm, means controlled by said signal responsive means and including said resilient member and the inertia attained by said inertia member during said free movement period to operate said lock arm to unlock said stop arm and thereby permit rotation of said rotatable member and means operative during the rotation of said rotatable member to store energy in said resilient member to operate said inertia member to unlock said stop arm as controlled by said signal responsive device to initiate a subsequent revolution of said rotatable distributor member.

2,351,138
NONREFILLABLE BOTTLE
Frank R. Lueck, Los Angeles, Calif.
Application August 2, 1940, Serial No. 352,037
8 Claims. (Cl. 215—22)



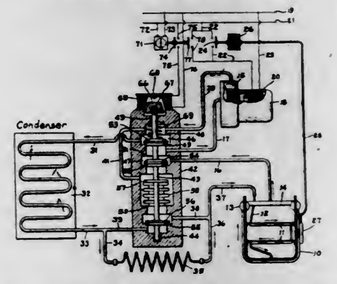
1. An attachment for rendering bottles nonrefillable, said attachment comprising a ported housing for application to a bottle outlet, a buoyant valve moveable in said housing for controlling the flow of fluid through said outlet, axially spaced means at opposite ends of said valve having a minimum area of contact with said housing for supporting and centering the same within said housing and spaced from the side walls of the latter to thereby permit free flow therebetween, and means within said housing for maintaining a closing pressure against said valve except when said bottle is inclined downwardly into or below a predetermined downwardly inclined pouring position.

2,351,139
REFRIGERATION APPARATUS
Graham S. McCloy, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 10, 1941, Serial No. 401,691
4 Claims. (Cl. 62—103)



1. Structure for removing condensate from a refrigerator having a food-storage chamber including a side wall, a cooling unit in the upper portion of said chamber, an open groove on the interior surface of said side wall extending downwardly from a point adjacent the cooling unit, means for conducting liquid condensate from said cooling unit to the groove at said point, and a drain communicating with the lower end of said groove, said groove extending in a substantially direct path along said side wall from said point to said drain, whereby condensate from said cooling unit flows downwardly in said groove to said drain.

2,351,140
REFRIGERATION APPARATUS
Graham S. McCloy, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 6, 1941, Serial No. 417,984
5 Claims. (Cl. 62—115)



1. In a defrosting valve for a compressor-condenser-evaporator type refrigerating system in which a fixed orifice controls the flow of refrigerant to the evaporator, the combination of a hollow valve body having two annular, coaxial, and spaced-apart recesses in the interior thereof, each of said annular recesses providing two oppositely-facing valve seats, an annular shoulder in said valve body coaxial with said annular recesses, said annular shoulder being spaced from said two spaced-apart recesses and providing an additional valve seat, a valve stem in said body adapted for longitudinal movement, three valve discs on said valve stem adapted to simultaneously seat respectively on said additional valve seat and on said valve seats facing in the same direction as said additional valve seat when the valve stem is in one position and two of said valve discs being adapted to simultaneously seat respectively on the remaining two of said valve seats when the valve stem is in another position, sealing means between the valve stem and the valve body located between the valve disc adapted to seat on said annular shoulder and the annular recesses nearest to said annular shoulder, said valve body having a plurality of ducts communicating with the exterior thereof, one of said ducts communicating with the space between the annular shoulder and the end of said body beyond said shoulder, another communicating with the space between said shoulder and said seal, another communicating with the space between said seal and the annular recesses nearest to said seal and with the space beyond the annular recess farthest from said seal and the end of said body adjacent said last-mentioned recess, another duct communicating with one of said annular recesses at a point between the valve seats thereof, another duct communicating with the other of said annular recesses at a point between the valve seats thereof, and another of said ducts communicating with the space between said recesses.

2,351,141
SADDLE COUPLING
Patterson D. Merrill, South Bend, Ind., assignor to M. B. Skinner Company, South Bend, Ind., a corporation of Indiana
Application May 15, 1941, Serial No. 393,541
4 Claims. (Cl. 285—108)

1. In saddle coupling, a saddle plate adapted to seat against a pipe, a drill tube integral with

said saddle plate, and a branch connector tube integral with and branching from said drill tube, said drill tube having an integral drill guide therein between said connector tube and said

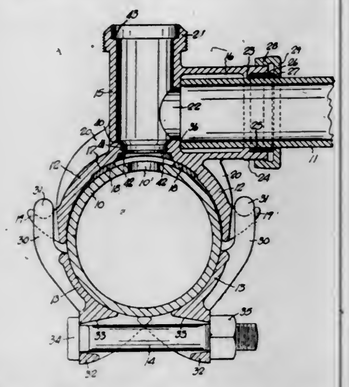
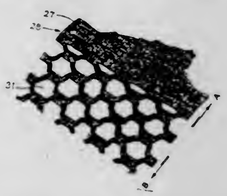


plate and spaced from the concave face of said plate, said guide comprising an annular reduced diameter portion of short longitudinally stepped formation.

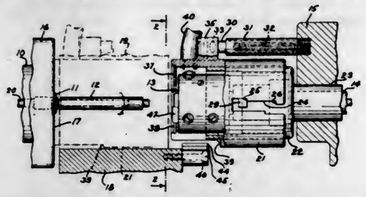
2,351,142
CAMOUFLAGING METHOD AND DEVICE THEREFOR
Meldon Mitchell, New York, N. Y.
Application November 26, 1941, Serial No. 420,490
6 Claims. (Cl. 41—10)



6. In a military camouflaging device, a camouflage covering sheet of pliable material, at least one layer of reinforcing material applied over said sheet, said reinforcing material being of greater stiffness than said pliable sheet whereby the combined sheet and layer will be self-supportable over a limited extent and yet bendable, a plurality of slits at predetermined intervals in said sheet, said slits being adapted to be separated to form interstices in the material, and a plurality of camouflage elements secured to the surface of said sheet between the said slits thereof.

2,351,143
TOOL GUARD
Kasper F. Moller, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1940, Serial No. 368,816
10 Claims. (Cl. 82—34)

1. In an automatic work cutting machine wherein the tool is moved longitudinally of the work by a movable member during the cutting operation, a guard surrounding the tool, means for slidably supporting said guard, means for releasably retaining said guard in a longitudinally retracted position relative to the tool, means for releasing said guard, and means for advancing said guard longitudinally relative to the tool, the



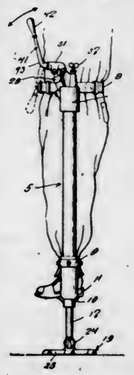
guard and tool being advanced thereafter by said movable member while the tool is operating upon the work.

2,351,144
PICKUP MECHANISM
Alvin W. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 11, 1943, Serial No. 498,439
6 Claims. (Cl. 56—364)



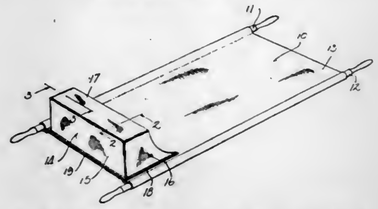
1. In a pick-up device for a harvester, comprising a flexible endless belt adapted to travel upwardly and rearwardly to deliver crops to said harvester during operation, the combination of a plurality of transverse rows of resilient fingers attached at their leading ends to said belt and unsupported at their trailing ends, and a plurality of vine shields for said fingers, each of said shields comprising a bar disposed transversely on said belt along the leading ends of said fingers and having a shielding portion extending outwardly from said belt ahead of the attached ends of said fingers for preventing vines and other vegetation from being caught on said fingers.

2,351,145
STILT
Martin L. Pearson, Pontiac, Mich.
Application August 17, 1943, Serial No. 498,953
6 Claims. (Cl. 272—70.1)



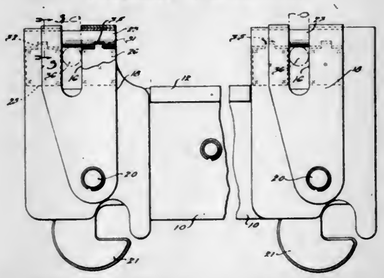
1. In stilts for workmen, hydraulically operated stilt elements, and means for detachably securing said stilt elements to a person whereby said person may stand and walk and carry out operations at various elevations.

2,351,146
STRETCHER
John E. Pike, Milwaukee, Wis., assignor to Cream City Trimming Co., Inc., Milwaukee, Wis., a corporation of Wisconsin
Application April 27, 1942, Serial No. 440,629
1 Claim. (Cl. 5—82)



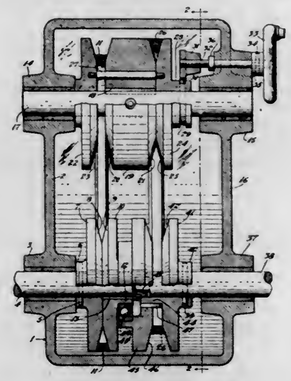
In a field stretcher, a body receiving web having pole receiving means and adapted to be carried with its burden in longitudinally horizontal or inclined positions, a fabric-like collapsible box-shaped member at one end of said web, said member having a bottom disposed transversely of the web between the poles and positionable approximately at right angles to said web to constitute a foot support for a person thereon, box side walls secured to the web and to the bottom whereby to support and brace the bottom in foot supporting position, and a top wall spaced from the web at all points and connected to the bottom and side walls, whereby said top wall is held free of said web to receive a patient's foot, said box-shaped member being mounted on said web independently of poles received in said means.

2,351,147
BOMB SHACKLE
Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, Detroit, Mich., a corporation of Michigan
Application November 7, 1942, Serial No. 464,883
2 Claims. (Cl. 89—1.5)



1. In a bomb shackle, an outer U-shape plate element, a pair of spaced U-shape anchoring plate elements disposed within and in spaced relation along the outer element and each having its legs rigidly fastened respectively to the legs of such outer element, said outer element having a transverse slot coinciding with the space between the inner elements, said elements having their base portions spaced and similarly curved so as to provide a cylindrical recess, a pin disposed in and substantially fitting said recess and having notches in its side next to the base of the anchoring elements, and means on the base of the anchoring elements which project into the notches for preventing movement of the fin, said fin being adapted for engagement with a shackle suspension hook projecting through said slot.

2,351,148
VARIABLE SPEED UNIT
Albert Rafter, Glen Ridge, N. J., assignor to Rafter Machine Company, Belleville, N. J., a partnership of New Jersey
Application April 14, 1942, Serial No. 438,961
3 Claims. (Cl. 74—230.17)

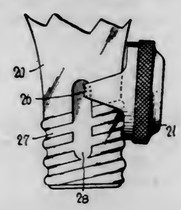


1. In a variable speed unit, a casing, a driving shaft and a driven shaft rotatably supported in said casing in alignment with each other, a sheave fixed to said driving shaft and a sheave fixed to said driven shaft, a sheave keyed to one of said shafts for rotation therewith and for lateral movement thereon relative to the fixed sheave, a sheave keyed to the other fixed sheave for lateral movement thereon relative thereto, hubs on said keyed sheaves disposed toward each other in overlapping spaced relation, and bearing means interposed between said overlapping portions to cooperate in the relative rotation thereof.

2,351,149
PLASTIC COMPOUND
Marc de Becker Remy, Detroit, Mich.
No Drawing. Application April 28, 1941, Serial No. 390,745
1 Claim. (Cl. 260—747)

A plastic compound comprising 5% to 25% by weight of wheat gluten, casein up to 15% by weight, rubber up to 2% by weight, and the balance consisting principally of proteins derived from a class of materials consisting of soya beans, rice, and maize.

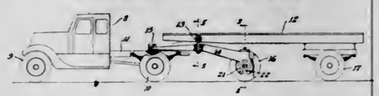
2,351,150
CONTAINER
Hugh W. Sanford, Knoxville, Tenn.
Application February 3, 1941, Serial No. 377,265
20 Claims. (Cl. 215—70)



4. The combination of a container having a neck of substantially circular cross section pro-

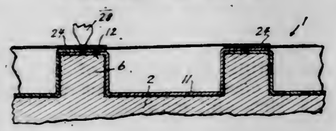
vided with an axial orifice and having at each side a circumferential groove portion and a longitudinal channel communicating with the groove portion and extending above and below the same, a cap rotatable on the neck and movable into sealing relation with the orifice having at each side a leg provided with an inturned foot working in a groove portion during such rotation and adapted to move out of the groove portion and into the upper end portion of the channel and to be pivotally turned therein to swing the cap to uncover the orifice, and said container having a projection carried by the neck above the level of the lower end portion of each channel constituting a stop for holding the cap in orifice-uncovering position when the container is inverted with the cap in said position.

2,351,151
SEMITRAILER CONSTRUCTION
Edward J. Sattler, Mineral City, Ohio
Application December 24, 1942, Serial No. 469,973
8 Claims. (Cl. 280—33.1)



1. In semi-trailer construction including a tractor, a semi-trailer, and a load distributing member swiveled to the semi-trailer and having its front end normally coupled to the tractor and its rear end supported on a set of auxiliary wheels, screw means mounted in the rear end of said load distributing member and adapted selectively for engaging said semi-trailer for maintaining the front end of said member in position to be recoupled when said semi-trailer is uncoupled from said tractor and for raising said auxiliary wheels when said semi-trailer is coupled to said tractor.

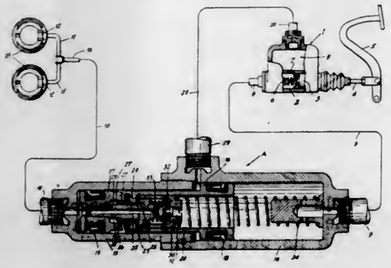
2,351,152
AIRPLANE BODY CONSTRUCTION
Herbert M. Schick, San Francisco, Calif.
Application August 23, 1940, Serial No. 353,847
9 Claims. (Cl. 219—10)



1. The method of forming a rigid airplane body or the like which comprises the steps of spirally winding a continuous flanged metal channel upon a mandrel having a spiral rib, with the flanges forming a seam on the rib, then winding a flat strip of sheet metal to bridge the channel and with margins overlapping on the seam, and electrically welding the overlap to the seam while using the mandrel as one of the electrodes.

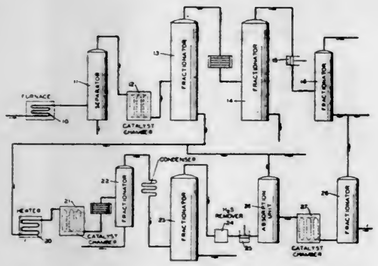
2,351,153
BRAKING SYSTEM
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application September 30, 1942, Serial No. 460,208
11 Claims. (Cl. 60—54.5)

1. In a fluid pressure actuating system, a master cylinder device, an actuating fluid motor, conduit means between the master cylinder device and the motor, and means comprising a pressure transformer and by-pass means therefor associated with said conduit means for the establishing of a predetermined fluid pressure in the motor by operation of the master cylinder device, for the maintaining of said predetermined



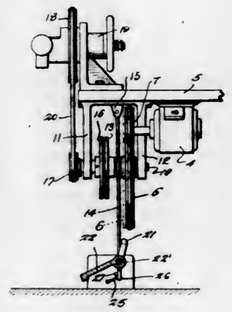
pressure in the motor when the master cylinder developed pressure is lowered to a value below that developed for the establishing of the predetermined pressure and for the varying of the motor fluid pressure below the predetermined pressure by the varying of the master cylinder developed fluid pressure below said lower value.

2,351,154
PROCESS FOR TREATING HYDROCARBONS
Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 8, 1940, Serial No. 328,545
5 Claims. (Cl. 196—28)



2. The process for producing motor fuel from crude petroleum oil which comprises flash distilling said oil at a temperature between 600° and 800° F., separating the total material vaporizable at said temperatures from residual oil, passing said total vaporizable material without substantial cooling over a bauxite catalyst at pressures between atmospheric and 100 pounds per square inch, and flow rates between 1 and 10 liquid volumes of feed stock per hour per volume of catalyst, whereby a substantial proportion of the organic sulfur impurities is decomposed to hydrogen sulfide, fractionating the desulfurized material to separate a straight run gasoline, stabilizing said straight run gasoline to remove normally gaseous hydrocarbons and hydrogen sulfide and produce an end-point gasoline of low sulfur content and high lead response; heating the heavy fraction of said desulfurized material substantially denuded of gasoline and passing same over a bauxite catalyst at temperatures between 800° and 1050° F. and pressures between atmospheric and 300 pounds per square inch to partially convert said heavy fraction by cracking into gasoline hydrocarbons, fractionating the vapors from the cracking catalyst to remove vapors comprising a high octane cracked gasoline from unconverted heavy hydrocarbons, condensing and stabilizing said cracked gasoline and combining same with the low-sulfur straight run gasoline to obtain a superior yield of a low sulfur, high lead response motor fuel.

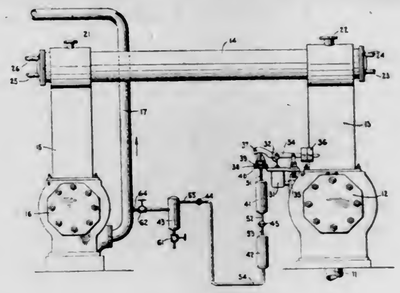
2,351,155
CLUTCH ASSEMBLY FOR FERRULING MACHINES
Marshall O. Searle, Beverly Hills, Calif.
Application May 2, 1942, Serial No. 441,491
3 Claims. (Cl. 192—99)



3. A clutch device of the class described comprising a driven-shaft, a drive shaft sleeved on the driven shaft, a clutch element secured to said drive shaft, a second clutch element secured on the driven shaft, a pendulum type lever disposed transversely behind the first clutch element and adapted to move the latter into engagement with the second clutch element upon an actuation of the lever in one direction, said lever gravitating in an opposite direction for disengaging the clutch elements, and a foot pedal having an upwardly inclined crank engaging the lower end of the lever and adapted to actuate the latter.

2,351,156
REGULATOR AUXILIARY
Joseph Segel, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 25, 1942, Serial No. 432,283
4 Claims. (Cl. 230—21)

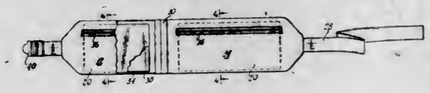
1. In combination with a regulator for controlling the gas supplied to a reservoir by a cylinder of a reciprocating gas compressor, said compressor having a discharge pipe extending between the exhaust port of the cylinder and the reservoir wherein the pressure pulsates above and below the mean pressure in the reservoir and wherein there is a drop in pressure between the cylinder and the reservoir, said regulator having a displaceable element which is responsive to gas pressure for actuating the regulator; means for diminishing the mean pressure change for actuating the regulator which comprises a fluid pressure conduit communicating at one end with said displaceable element and at the other end to the discharge pipe at a point where the pressure therein pulsates above and below the mean regulated pressure in the reservoir, said conduit having interposed between its ends at least one constriction forming an orifice therein and at least one enlargement forming a receiver therein for dampening the pulsations and anticipating changes in the the mean regulated pressure in the receiver due to changes in the loading of the compressor.



2,351,157
PURIFICATION OF NITRILES
Waldo L. Semon, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application October 30, 1943, Serial No. 508,395
3 Claims. (Cl. 202—42)

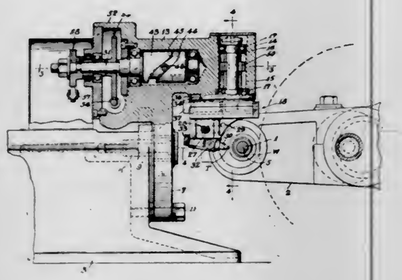
1. The method of purifying aliphatic nitriles to remove hydrogen cyanide therefrom which comprises treating the impure nitrile with an aqueous suspension of a freshly precipitated heavy metal hydroxide, and then distilling the so treated nitrile.

2,351,158
MONEY BELT
Harry Stelzer, Forest Hills, N. Y.
Application January 26, 1943, Serial No. 473,610
1 Claim. (Cl. 224—5)



A flexible money belt adapted to be worn around the waist, comprising a fabric material divided into two sections by transverse stitching, an opening in the front wall of each section near the top thereof, an open-top inner pocket having a rear wall, as seen when positioned in said belt, stitched only at its top to the top of the rear wall of each section in its interior, the walls of said pocket cooperating with the outer walls of said money belt to form additional outer and inner pockets by virtue of the spaces therebetween, the opening to said open-top inner pocket being normally concealed above the opening of the outer pocket but still accessible through the opening of said outer pocket, a strap secured to one end and a buckle secured to the other end of said belt.

2,351,159
DRESSING MECHANISM FOR GRINDING WHEELS
Gilbert Stewart, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application October 17, 1941, Serial No. 415,373
5 Claims. (Cl. 125—11)



2. A dressing mechanism comprising, in combination, a base, a swivel plate mounted for angular adjustment on said base, a bracket on said swivel plate, a rock shaft on said bracket and extending perpendicularly to the swivel axis, a dressing tool holder mounted on one end of said rock shaft and adapted to be oscillated thereby, a rotary cam journaled in said bracket and having a continuous spiral cam groove, means coacting with said groove and operatively connected to said shaft to oscillate the latter back and forth for each complete revolution of said cam, and means for rotating said cam in one direction.

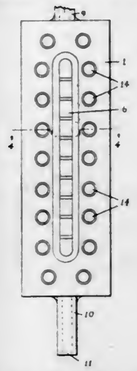
2,351,160
ART OF REGENERATING ZEOLITES
Norman G. Stone, Canton, and Samuel W. Holliday, Greentown, Ohio, assignors to The Dacar Chemical Products Company, Pittsburgh, Pa., a corporation of Ohio
No Drawing. Application March 4, 1943, Serial No. 478,050
13 Claims. (Cl. 23—112)

1. A zeolite regenerating compound for use in salt brine consisting of an aqueous solution of sodium bicarbonate, potassium carbonate, trisodium phosphate, sodium metaphosphate and caustic soda.

2,351,161
BISMUTH-CONTAINING DERIVATIVE OF TRIHYDROXY GLUTARIC ACID AND PROCESS OF MAKING IT
Alvah Lloyd Taylor, Kew Gardens, N. Y., and Kruger W. Wallen, Murfreesboro, Tenn.
No Drawing. Application August 2, 1940, Serial No. 350,068
4 Claims. (Cl. 260—447)

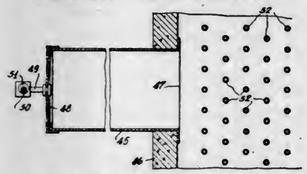
1. The steps in the process of making a bismuth-containing derivative of trihydroxy glutaric acid, which consists in treating xylo-trihydroxy glutaric acid in solution with an excess of a hydroxide of the class consisting of alkali-metal and ammonium hydroxides, and then subjecting it to elevated temperature in the presence of bismuth hydroxide.

2,351,162
GAUGE GLASS
Willis P. Thomas, Highland Park, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application November 28, 1941, Serial No. 420,755
6 Claims. (Cl. 73—330)



1. A composite gauge glass comprising a plurality of vertically disposed sections arranged so that the top of one section lies in a horizontal plane parallel with and slightly spaced from a plane containing the bottom of an adjacent section, the top and bottom sections being rounded at their outer ends, the intermediate sections each having all sides thereof rectangular, each section being separated from its adjacent sections by common gaskets.

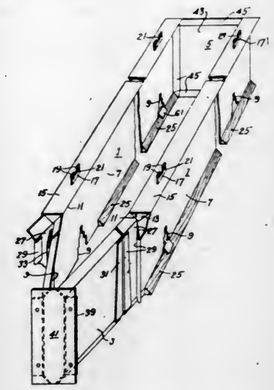
2,351,163
BOILER CLEANER
Willis P. Thomas, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Substituted for abandoned application Serial No. 352,494, August 14, 1940. This application January 21, 1943, Serial No. 473,080
6 Claims. (Cl. 122—379)



1. The method of cleaning heat exchange surfaces of solid particles from combustion gases which consists in subjecting said gases to a series of impacts at short intervals such that said gases are vibrated continuously on regular wave lengths, such impacts being of a severity and from a direction such that the solid particles are caused to deflect from their normal travel whereby lodgment on the surfaces is discouraged.

2,351,164
PILE FORM
Arthur E. Troiel, Berkeley, Calif., assignor to Troiel Companies, Inc., Berkeley, Calif., a corporation of California
Application August 1, 1941, Serial No. 405,027
10 Claims. (Cl. 25—121)

1. A form wall comprising a substantially rectangular sheet of material having a supporting side, said side being provided with spaced notches, the edges of each of which are stepped to impart a decreasing width thereto to receive supporting



means of different sizes in accordance with a desired effective height of said wall when embodied in a form.

2,351,165
CARTON
Robert William Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application July 24, 1940, Serial No. 347,138
6 Claims. (Cl. 229—37)



1. A carton formed from thin, flexible board stock, comprising: a body portion of generally rectangular shape provided with a flap joined thereto along fold lines and formed as an extension of each panel thereof, whereby two narrow flaps and two relatively wide flaps are arranged opposite each other, the two narrow flaps and one of said wide flaps being disposed in overlapping relation and completely closing the open end of the carton, said overlapping flaps being so shaped and arranged that a substantial area of each of the three overlapping flaps is exposed at the portion thereof adjacent its fold line, the other of said wide flaps having a shape and area corresponding to that of the carton end and being adhesively secured to the exposed areas of the three underlying flaps, the flexibility and thinness of the board stock assuring a tight seal against the exposed area of said three underlying flaps.

2,351,166
CARTON
Robert William Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Original application July 24, 1940, Serial No. 347,138. Divided and this application September 2, 1942, Serial No. 456,971
5 Claims. (Cl. 229—37)



1. A carton formed from a relatively thin and flexible board stock comprising a body portion of general rectangular shape provided with a flap joined thereto along a fold line and formed as an extension of each panel thereof whereby two narrow and two relatively wide flaps are arranged opposite each other, three of said flaps being folded down and shaped to expose substantial portions of each when in their folded relation, the first folded flap being one of the wider flaps of the carton and the other two the narrow flaps, the last folded flap being the other wide flap and being adhesively affixed to the exposed portions of each of the remaining flaps, the first folded flap having its exposed area adjacent its fold line, whereby to provide a relatively firm support against which the last folded flap is pressed, the relative thinness and flexibility of the board stock permitting a substantially tight seal against the underlying flaps.

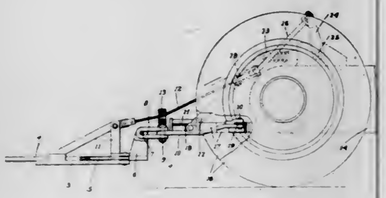
2,351,167
REMOVAL OF OXYGEN FROM NORMALLY GASEOUS OLEFINS
Virgil W. Ware, Arden, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1941, Serial No. 413,699
12 Claims. (Cl. 266—677)

5. In a process for removing oxygen from a normally gaseous olefin containing the same, the step which comprises passing such olefin through a deoxidizer comprising a series of at least two vessels, containing a catalyst selected from the group consisting of copper, cobalt and platinum and their reduced oxides, and separated by a vessel containing an absorbent material and maintained at a lower temperature than the catalyst-containing vessels.

2,351,168
HYDRAULIC CONTROL MEANS FOR TRACTOR-DRAWN DISK HARROWS
Frederick C. Warne, Mansfield, Ohio, assignor to Farm Tools, Inc., Mansfield, Ohio, a corporation
Application December 18, 1940, Serial No. 370,656
7 Claims. (Cl. 55—83)

1. In a disk harrow and tractor combination, said harrow including gang frames, a draft unit

projecting forwardly from and swivelly connected to the gang frames at certain points, said unit including separate front and rear sections and a vertical pivot connecting the sections; and another draft unit swivelly connected to said frames at other points and including a portion slidable on the rear section of the first unit whereby relative longitudinal movement of said units will ef-



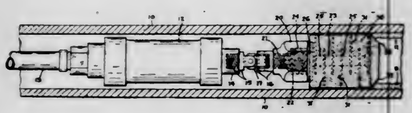
fect relative angling and straightening of the frames, a pivot connection between the front section and the tractor, the latter having a power actuated movable member thereon, a cable operatively connected to said member and extending thence to said other draft unit, and guide means for said cable mounted in vertical alinement with said pivot connection.

2,351,169

ABRASIVE DEVICE FOR CLEANING STILL TUBES AND THE LIKE

Hermon G. Weinland, Springfield, Ohio, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application April 16, 1941, Serial No. 388,860
3 Claims. (Cl. 51—206)



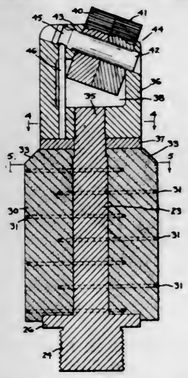
1. A rotary abrasive element for cutting encrustations on the interior wall of a tube of a still or the like comprising a spindle carrying an abrasive element having a generally cylindrical portion relatively long axially as compared to its radius and being of a radius to enter the tube and having a leading or front end portion for abrading action on encrustation which it meets upon movement axially into said tube, said abrasive member comprising silicon carbide grains bonded together and a plurality of metallic elements embedded in said member and distributed therethrough, said metallic elements being of substantial dimension in a direction inwardly from the operative surface of said abrasive member and providing, as the bonded silicon carbide member wears, a plurality of metal island-like surfaces substantially concentric with the operative surface of the abrasive member as the latter wears, interposed between the bonded silicon carbide and the wall of a tube into which said abrasive element is inserted.

2,351,170

ABRASIVE DEVICE FOR CLEANING STILL TUBES AND THE LIKE

Hermon G. Weinland, Springfield, Ohio, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 18, 1941, Serial No. 415,562
5 Claims. (Cl. 15—104.09)



2. An apparatus for cutting encrustations on the interior wall of a tube of a still or the like comprising a rotary member having thereon an abrasive portion substantially concentric with said member and of substantially the inside diameter of a tube to be cleaned and tapering forwardly from a maximum to a minimum diameter, and other cutting means mounted on said member in advance of said abrasive portion, said other cutting means being adapted to clean a circular area the diameter of which corresponds substantially with the minimum diameter of said abrasive portion, said abrasive portion having a maximum diameter sufficiently greater than the diameter of the circular cutting area of said other cutting means to space said other cutting means from the wall of the tube being cleaned, and having within itself at spaced intervals around its periphery, metal islands positioned to that they are interposed between the main body of said abrasive portion and the wall of a tube into which said portion is inserted.

2,351,171

PROCESS FOR MANUFACTURING CARBAZOLE

Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 2, 1943, Serial No. 493,303
9 Claims. (Cl. 260—315)

1. The process of making a carbazole which comprises heating a mixture comprising an ortho-amino-diphenyl and an organic nitro-substituted compound.

2,351,172

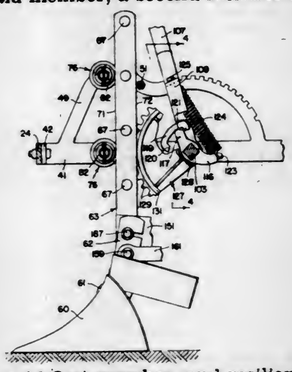
TOOL LIFT MECHANISM

Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Original application July 8, 1940, Serial No. 344,310. Divided and this application November 30, 1942, Serial No. 467,449
11 Claims. (Cl. 97—47)

1. An agricultural machine comprising means serving as a supporting frame, a ground working

tool carried thereby, a member for raising and lowering said tool, means serving as a pair of stops on said member, a second member movable



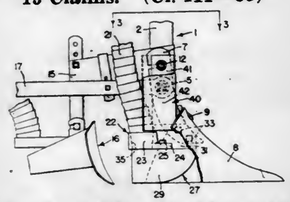
relative to said first member, and resilient means interconnecting said members whereby said first member may be actuated by said second member through said spring means to lower said tool.

2,351,173

FURROW OPENER FOR PLANTERS AND THE LIKE

Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Original application July 8, 1940, Serial No. 344,310. Divided and this application November 30, 1942, Serial No. 467,450
15 Claims. (Cl. 111—85)



1. In a planter having a tool beam and a sweep attached to the lower end thereof, a spout shield comprising a member having an attaching section and a laterally directed section adapted to be disposed in front of a spout disposed at one side of said tool beam, means for fixing said attaching section to said tool beam so that the lower end of said shield extends below the upper edge of said sweep and said laterally directed shield section is in front of and protects the spout from trash, dirt and the like coming over the sweep, and a furrow opener fixed to said beam behind the sweep and having a laterally extending spout-receiving section below said shield in a position to support said spout behind said shield.

2,351,174

COATED MATERIAL

William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 16, 1941, Serial No. 393,781
10 Claims. (Cl. 117—144)

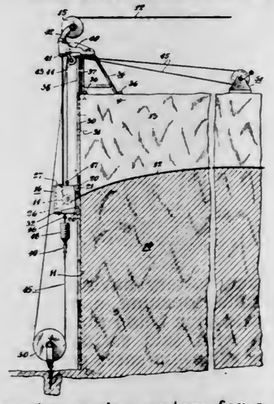
4. A coated material characterized by having an improved bond between the fabric base and the coating applied thereto, comprising a fabric base containing doubled yarns, said doubled yarns containing at least one end of filamentary materials of a derivative of cellulose, selected from the group consisting of cellulose esters and cellulose ethers, and at least one end of filamentary materials of non-plastic material, and bonded to said fabric base a coating composition comprising a derivative of cellulose selected from the group consisting of cellulose esters and cellulose ethers.

2,351,175

WIRE SAWING

Harold F. Wilhelm, Orange, N. J.

Application July 13, 1939, Serial No. 284,205
7 Claims. (Cl. 262—28)



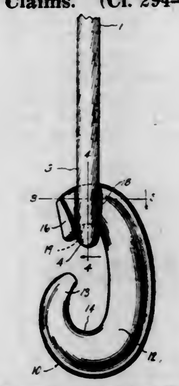
3. In a wire sawing system for a ledge having a generally flat, open working face, a runway on said open working face extending continuously in the direction of the depth of the cut, said runway following the general contour of said face regardless of the shape of the contour of said face, said runway throughout its entire length being substantially continuously backed by the rock of said ledge, a shoe riding on said runway, means for guiding said shoe along said runway, a sheave journalled on said shoe, a wire saw passing around said sheave and located in its cut in the ledge, driving apparatus for said wire saw, and means for applying cutting pressure on said shoe, whereby said shoe is held stable against said runway by the tension of said wire saw and by said cutting pressure.

2,351,176

HOOK AND CABLE CONNECTION

Oscar A. Wirkkala, Seattle, Wash.

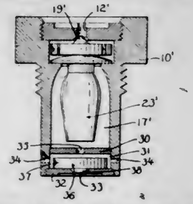
Application February 20, 1943, Serial No. 476,525
7 Claims. (Cl. 294—82)



1. In combination, a rigging hook having a body shank terminating at its attaching end in a bend

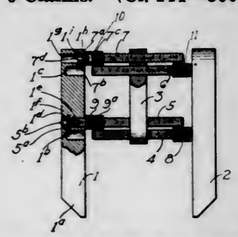
that is turned in a direction to overlie the entrance to the hook seat and providing a cable seat at the inside of the bend, a cross head formed at the end of the bend adjacent the cable seat and a cable formed with an eye loop applied about the shank; the base of the loop being engaged in the said cable seat and the side portions of the loop being engageable with the cross head to retain the hook against disconnection from the cable.

2,351,177
NONSPILL VENT PLUG FOR BATTERIES
George W. Younkman, Jersey City, N. J.
Application December 16, 1942, Serial No. 469,205
2 Claims. (Cl. 277—70)



1. In a storage battery having a casing provided with a filling opening, a plug for closing said opening, said plug being hollow and having communication with said casing and provided with a vent for releasing gases generated in the casing to the atmosphere, a shoulder in said plug beneath said vent, a valve means for closing said vent, a swingable member having a head resting on said shoulder and engaging beneath said valve means to normally support the valve means in a venting position, said swingable member depending from said shoulder and rocking said head on the shoulder when the battery is tilted from the vertical to shift said valve means to a vent closing position, said head being provided with means for passing gases therethrough, first and second spaced walls at the lower end of said plug, said plug being provided with passage means communicating with the space between said first and second walls, said first wall having a vent opening communicating with the interior of said plug, a gravity responsive body in the space between said first and second walls and having a face engageable with said first wall to close the vent opening therein, and coacting means on said gravity responsive body and said second wall for shifting said gravity responsive body into engagement with the first wall to close the vent opening therein when the battery is tilted from the vertical.

2,351,178
CLAMPING DEVICE
Henry Zimmerman, Del Mar, Calif.
Application February 10, 1942, Serial No. 430,261
6 Claims. (Cl. 144—300)



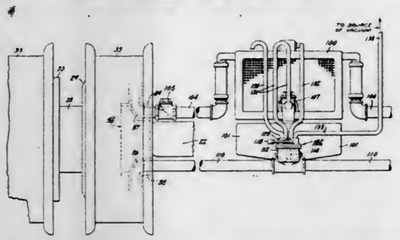
1. In a clamping device of the class described, the combination of two spaced clamping members, a compression screw swivelly mounted at one of its ends within one end of each of said clamp members, a tension screw swivelly mounted at one of its ends within each of said clamp members near its middle and an intermediate screw support through which all of said screw members are screw threaded.

2,351,179
WELL CASING PERFORATOR
Millio F. Aloi, Maywood, Calif.
Application February 22, 1943, Serial No. 476,666
12 Claims. (Cl. 164—0.5)



1. In a well casing perforator, an elongated body composed of a plurality of detachably connected sections, the upper section being provided with a cartridge-receiving chamber, a firing pin disposed above said chamber, a duct leading downwardly from said chamber through the sections of said body a plug removably seated in each section below said upper section, which plug is provided with an explosive charge chamber and with ducts between said chamber and said first mentioned duct, a projectile carrying barrel removably seated in each plug and means positioned between said barrel and the explosive charge in said chamber for protecting said explosive charge against moisture and hydraulic pressure.

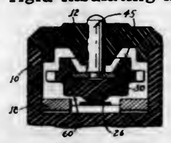
2,351,180
BRAKE MECHANISM
Charles S. Ash, Milford, Mich.
Application October 22, 1941, Serial No. 416,042
14 Claims. (Cl. 188—18)



1. Fluid braking means for a set of independently rotatable dual wheels including in combination a braking element associated for rotation with each wheel and means common to said elements for retarding rotation of said elements by fluid contact therewith.

2,351,181
ELECTRIC SWITCH CONSTRUCTION
Louis W. Bangasser, Freeport, Ill., assignor to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois
Application December 21, 1942, Serial No. 469,651
8 Claims. (Cl. 200—166)

1. In combination in a switch of the class described, of an operating plunger comprising a guide pin finished for smooth reciprocation in a bearing surface having a foot fixed thereto at one end, said foot having a diameter greater than said pin and extending beyond the radial periphery of the pin on all sides thereof, a button of substantially rigid insulating material molded



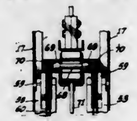
on to said foot with the surface-boundary of said insulating material lying on the side of said foot adjacent said pin and spaced clear of said pin.

2,351,182
PROCESS FOR TREATING FABRIC AND PRODUCT PRODUCED THEREBY
Alva W. Bateman, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 3, 1940, Serial No. 350,257
11 Claims. (Cl. 117—73)



9. An open weave fabric having the interstices closed with individual films which do not become sticky when subjected to a temperature of about 400° F. for a period of two or three minutes comprising, as an essential ingredient, at least 5% of polyvinyl acetate, a 10% solution of said polyvinyl acetate dispersed in equal part of ethyl acetate and ethyl alcohol having a viscosity characteristic of 3–15 seconds as determined by the falling ball method, and a surface coating of a thermoadhesive composition over said individual films.

2,351,183
LONG STROKE DEEP OIL WELL PUMPING JACK UNIT
Luther A. Blackburn, Huntington Park, Calif.
Application November 25, 1941, Serial No. 420,364
1 Claim. (Cl. 74—37)

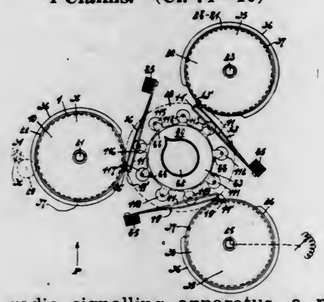


In a device of the character described, a crosshead comprising a pair of parallel members, a block movable in said crosshead, a pin extending laterally from said block and terminating in a ball-shaped end, a chain, a master link in said chain having a socket therein for the reception of said end of said pin to transmit motion from said chain to said pin and block.

2,351,184
VEGETABLE OIL REFINING
Paul D. Boone, Washington, D. C.
No Drawing. Application June 20, 1938,
Serial No. 214,846
10 Claims. (Cl. 260—424)

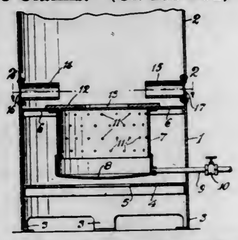
1. In a continuous process for refining a vegetable oil containing gums in which a sufficiently high temperature of the aqueous oil mixture is employed to coagulate the gums, the steps of mixing an aqueous liquid with the oil to secure a mixture having a degree of acidity substantially of the pH numerical values 3–5, cooling the advancing stream and decreasing the agitation of the liquid and then submitting the mixture to a centrifugal separation in order to continuously separate purified oil from the aqueous medium containing the impurities.

2,351,185
WIRELESS TRANSMITTING OR RECEIVING SET
Dirk Boterweg and Florus Cornelis Willem Slooff, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y.,
Application June 17, 1940, Serial No. 341,032
In the Netherlands June 17, 1939
4 Claims. (Cl. 74—10)



1. In radio signalling apparatus, a plurality of control shafts, a set of position-determining means adjustably mounted on each of said shafts, a set of adjustable stops positioned in cooperative relation with each set of position-determining means, there being a stop for each position-determining means, a selector device carrying a plurality of means for simultaneously adjusting a predetermined stop in each set to cooperate with a predetermined position-determining means in each set in accordance with the desired position of said shafts, and single means for driving said shafts in unison to bring each thereof to a position determined by the adjustment of the position-determining means on their respective shafts.

2,351,186
POT TYPE BURNER AND MEANS FOR DELIVERING SECONDARY AIR THERETO
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application July 11, 1941, Serial No. 401,919
3 Claims. (Cl. 158—91)



1. In a pot type heater, an outer housing, a burner pot located in a lower portion of said housing, a closure extending from an upper portion of the pot to the housing, the pot having a plurality of primary air inlet apertures located at various levels in its wall, a centrally apertured flame ring partially closing the top of the pot, a closed bottom for the pot and means for delivering a liquid fuel to the interior of the pot, and means for delivering secondary air to the mixture of primary air and vaporized fuel rising from the pot which includes a plurality of tubes inwardly extending from the wall of the outer housing and terminating at a level above the top of the pot and adjacent the aperture in said flame ring, the interior of said tubes being in communication with

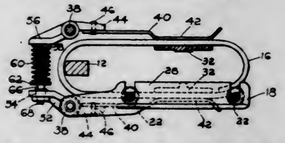
outside air, said tubes being provided with an air delivery aperture located adjacent the aperture in said flame ring the axis of each said tube extending toward the pot, but being inclined in relation to a radius extending from the center of the pot to the inlet end of such tube.

2,351,187
PIPE CUTTER
Cicero C. Brown and Jaros J. Hastik, Houston, Tex., assignors to Brown Oil Tools, Inc., Houston, Tex., a corporation of Texas
Application June 5, 1941, Serial No. 396,724
15 Claims. (Cl. 164—0.7)



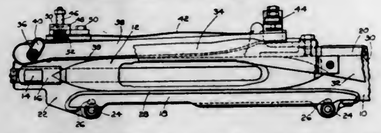
1. A pipe cutter having a body for insertion into a pipe to be cut, cutting means on the body, an anchor on said body, locking means on the body for locking the anchor in the pipe, latching means for holding said locking means in inoperative position, said latching means being releasable upon relative rotation of the body and anchor in one direction to free the locking means, and dogs carried by the anchor and having portions for engaging the inner surface of the pipe, the portions of the dogs engaging the inner surface of the pipe having elongated teeth inclined to the axis of the pipe to impart rotary motion to the anchor as the latter is introduced into the pipe in a direction opposite to that effecting release of the latching means to prevent premature release of said latching means.

2,351,188
PICKER CHECK FOR LOOMS
Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application November 30, 1942, Serial No. 467,330
9 Claims. (Cl. 139—165)



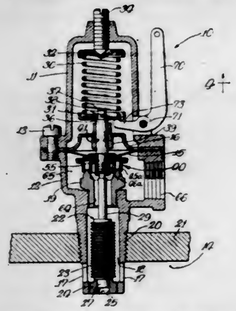
1. A picker check for looms having in combination a picker and a picker stick, a strap embracing the picker stick and arranged to be bodily moved by engagement with the picker stick when the latter approaches either end of its stroke, members arranged for engagement with the front and back runs of the strap, means for pressing the strap into engagement with each of said members, and a single member for varying the pressure of said pressing means.

2,351,189
SHUTTLE CHECKING MEANS
Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application November 30, 1942, Serial No. 467,332
4 Claims. (Cl. 139—185)



1. In a fly shuttle loom, a lay having a shuttle box comprising front and back box plates, a binder forming a part of said back plate and having a surface arranged to be engaged by an incoming shuttle, said binder having a rearwardly and inwardly inclined slot in its outer end portion, and a pin in said slot supported by the lay to permit the binder to swing about said pin as a pivot when the incoming shuttle first engages the binder and to cause the binder to move bodily rearwardly and longitudinally of the shuttle box as the shuttle continues its movement into the shuttle box.

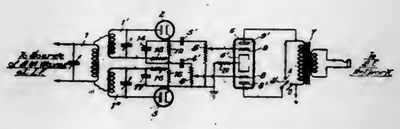
2,351,190
PRESSURE AND TEMPERATURE RELIEF VALVE
Oscar F. Carlson, Kenilworth, Ill.
Application July 8, 1942, Serial No. 450,121
7 Claims. (Cl. 236—92)



1. A pressure and temperature relief valve comprising, in combination, a casing composed of an upper and a lower portion, said upper and lower portions being securely fastened together and clamping between them a guide plate and a flexible diaphragm to seal the upper portion of said casing from said lower portion, an inlet and an outlet in the lower portion of said casing for release of steam and liquid when the valve opens, an annular valve seat having inclined surfaces in the lower portion of said casing between the inlet and the outlet, a valve means for said seat comprising a pair of inverted concentric cups the rim of one of which cups seats on the outer inclined surface and the rim of the other on the inner inclined surface of the annular valve seat, an adjustable spring in the upper portion of the casing for loading said valve means, a shaft guided within said guide plate for transmitting the force of said spring to the valve means and for supporting at an intermediate portion the flexible diaphragm and carrying at its lower end the valve means, said other of said cups being fixed to said shaft for movement therewith, and means for mounting said one of said cups upon said shaft whereby it is movable relative thereto and to said other of said cups, a heat responsive

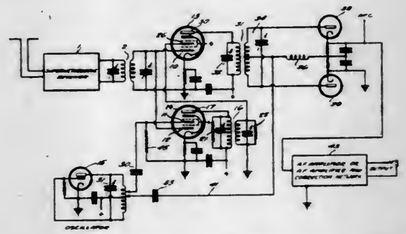
bellows between the inlet and the valve seat, a thrust member borne by said bellows, said bellows being adapted to unseat or to continue unseated said double cupped valve when temperature in excess of the predetermined value is reached by means of the thrust member bearing against the said shaft and raising it against spring pressure.

2,351,191
HETERODYNE ELIMINATION CIRCUIT
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 25, 1941, Serial No. 420,362
12 Claims. (Cl. 250—20)



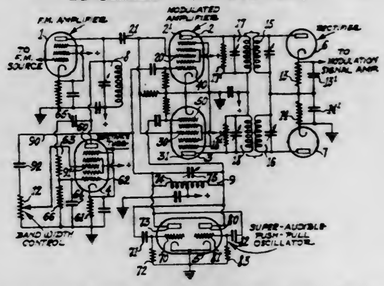
1. In combination with a source of amplitude modulated carrier waves which include a heterodyne interference frequency, means for rectifying the combined amplitude modulated carrier wave energy and interference energy to produce rectified modulation voltages corresponding thereto, a second means for rectifying the frequency modulation component of the interference energy to provide a second rectified modulation voltage corresponding to the frequency modulation component, and means for combining said two rectified modulation voltages in a predetermined phase relation such as to balance out said frequency modulation component thereby to provide cancellation of the heterodyne interference.

2,351,192
FREQUENCY MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 13, 1942, Serial No. 434,509
5 Claims. (Cl. 250—20)



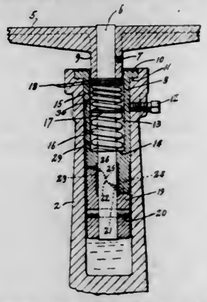
1. In an angle modulated wave receiver, a wave frequency converter having an input and an output, a source of oscillations coupled to said input, connections for impressing angle modulated wave energy on said input, said energy having predominantly the characteristics of frequency modulation, a circuit which converts said angle modulations into corresponding phase deviations coupled to said output, a second wave frequency converter excited by said angle modulated wave energy and by wave energy passed by said circuit coupled to the output of said first converter, and a phase modulated wave demodulator coupled to said second wave frequency converter.

2,351,193
FREQUENCY MODULATION DETECTOR CIRCUIT
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 13, 1942, Serial No. 446,876
19 Claims. (Cl. 250—27)



1. In combination with a source of angular velocity-modulated carrier wave energy, a pair of opposed detectors, a resonant circuit normally tuned to a frequency located on one side of the mean frequency of said energy, means for feeding said energy to said resonant circuit, means for feeding energy developed across said resonant circuit to each of said detectors, means for providing a reactive effect across said resonant circuit such as to change the resonant frequency of said circuit to a value on the opposite side of said mean frequency, and additional means for rendering said reactive effect means ineffective concurrently with rendering of one of said detectors inoperative, said last additional means being adapted to render said one detector and reactive effect means concurrently effective when the other detector is rendered ineffective.

2,351,194
SWIVEL MECHANISM FOR SEATS
Arthur E. Davies, deceased, late of Los Angeles, Calif., by Carrington Herman, administrator, Los Angeles, Calif., assignor of twenty percent to Flossie P. Shadden, Los Angeles, Calif., and eighty percent to Shirley Anne Davies
Application June 2, 1941, Serial No. 396,270
4 Claims. (Cl. 155—95)



2. A swivel seat construction comprising: a pedestal having a vertical cylindrical bearing means therein, a seat assembly comprising a journal member journaled in said bearing means for vertical and rotary movement therein, a cam mechanism for vertically moving said journal member with respect to said pedestal in response to rotation therebetween, said cam mechanism comprising a first cam means connected to said pedestal and a second cam means connected to

said journal member and slidable with respect to said first cam in response to rotation of said journal member with respect to said pedestal, each of said cam means having a first surface of constant pitch and a second surface of constant pitch greater than the pitch of said first surface, the said first surface on one of said cam means being longer than the cooperating said first surface on the other cam means, whereby rotation of said journal member with respect to said pedestal through an initial range slides said one first cam surface along the other said first cam surface while making contact therewith over the entire area of the said other cam surface until said second cam surface on said second cam means contacts said second cam surface on said first cam means and further rotation causes said second cam surface on said second cam means to slide along the second cam surface on said first cam means and carry said first cam surfaces apart.

2,351,195

FINGERNAIL ENAMEL REMOVER COMPOSITION

Alfred Dreyling, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 12, 1940, Serial No. 369,757

7 Claims. (Cl. 252—119)

1. A finger nail enamel remover composition in cream-like form consisting of at least about 75% by weight of a fluid substantially anhydrous organic solvent portion capable of dissolving nitrocellulose, the remainder comprising a mixture in the ratios by weight of 10 parts of a solid fatty acid from the group consisting of stearic and palmitic acids, 2 to 4 parts of ethyl cellulose, 2 to 10 parts of a cosmetic aid from the group consisting of castor oil, olive oil and lanolin, and 2 to 4.6 parts of concentrated aqua ammonia.

2,351,196

REDUCTION OF ORGANIC COMPOUNDS

Arthur L. Fox, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 25, 1942, Serial No. 436,205

8 Claims. (Cl. 260—609)

1. The process which comprises reacting a mixture of saturated hydrocarbon sulfonyl chlorides of at least 5 carbon atoms free from aromatic groups with a strong reducing agent and recovering a mixture of mercaptans.

2,351,197

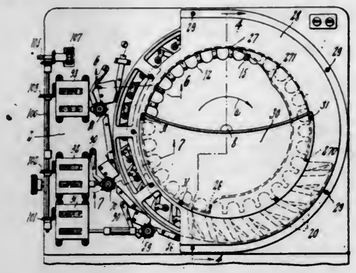
COIN SORTING MACHINE

Joseph N. Francis, Woburn, Mass., assignor to Sattley Company, Detroit, Mich., a corporation of Michigan

Application February 15, 1941, Serial No. 379,007

6 Claims. (Cl. 133—3)

2. A machine of the class described comprising a coin-receiving hopper, an inclined rotary disk forming one of the walls of said hopper, means for rotating said disk in one direction, said disk having a plurality of coin-receiving pockets having open outer ends arranged in circular series concentric to the axis of rotation of said disk, a stationary partition closing the open ends of said pockets where said pockets are moving upwardly, means positioned inwardly of said pockets and closing access of coins thereto from said hopper where said pockets are descending, a plurality of pairs of spaced partitions defining coin discharge passages for said pockets carried by said disk and spaced from said pockets sufficiently for said partition to extend therebetween, movable baffles cooperating with one of each of said pairs of passage partitions to restrict each discharge passage, and means for controlling the position of each baffle



to progressively open said passages during a portion of the rotation of said disk in accordance with selected progressively increased coin diameters to permit the discharge from said passages of the corresponding diameter coins.

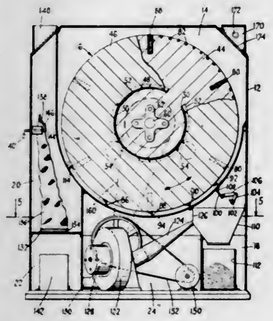
2,351,198

MACHINE FOR CLEANING FUR

Samuel Friedman, Brooklyn, N. Y.

Application November 29, 1939, Serial No. 306,628

8 Claims. (Cl. 15—12)



3. A fur cleaning machine comprising a rotatably mounted cage-like tumbler, a curved plate disposed therebeneath and spaced slightly therefrom, blades on the outside of said tumbler adapted to scoop sawdust from said plate so as to circulate the same through the tumbler for "drumming," an openable door on said plate at a point substantially offset sidewardly from the vertical plane passing through the axis of the tumbler, a brush on the outside of said tumbler for sweeping all of the sawdust through the door preparatory to "caging," and means pivotally yieldably mounting said brush to avoid excessive packing of the sawdust.

2,351,199

ELASTIC BAND, ARTICLE OF WEARING APPAREL EMBODYING THE SAME, AND THEIR METHOD OF PRODUCTION

Samuel R. Fry, Wyomissing, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania

Application August 10, 1939, Serial No. 289,334

10 Claims. (Cl. 66—172)

10. A stocking comprising upper and lower knitted sections and an intermediate section having a one-way stretch elastic portion and a two-way elastic portion and means connecting said



knitted sections and said elastic portions together to form the stocking including at least two seams.

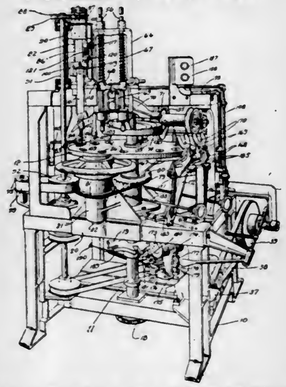
2,351,200

RUBBER VALVE HANDLING APPARATUS

Everett D. George, Ridley Park, Pa., and Harold M. Brown, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Original application March 4, 1938, Serial No. 193,938, now Patent No. 2,269,658, dated January 13, 1942. Divided and this application September 18, 1941, Serial No. 411,338

7 Claims. (Cl. 198—209)



1. A valve-treating machine having a rotary carrier with valve supports including a bore to receive the stem thereof, and a recessed portion aligned with said bore for receiving the base of the valve, means for engaging the stems of the valves for moving the bases thereof out of their recesses, and means movable radially of the carrier and into a position between the carrier and the base of the valve for ejecting a valve from the carrier.

2,351,201

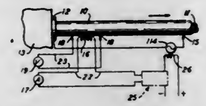
METHOD OF AND MEANS FOR MEASURING

Randall Gillis, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 16, 1942, Serial No. 451,238

14 Claims. (Cl. 175—183)

1. The method of measuring the thickness of a sheet of metal which comprises steps of passing an alternating electric current through a portion of the sheet between two points thereof relatively far apart, measuring the voltage between two other points which are between the first named points and relatively close together, and measuring the amperage of current flowing between the two second named points, the thickness measure of the sheet being then a linear function of the ratio of the measured voltage to the measured amperage.



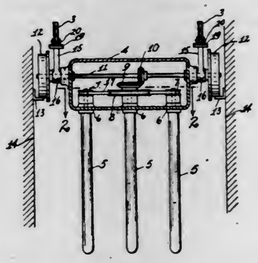
2,351,202

MANUFACTURING THIN RUBBER ARTICLES

Frederick E. Hahne, New York, N. Y., assignor to Chemical Enterprises, Inc., New York, N. Y.

Application March 4, 1942, Serial No. 433,317

5 Claims. (Cl. 18—24)



1. An apparatus of the class described for manufacturing thin rubber goods by the dipping process, comprising a plurality of dipping forms divided into several groups, a carrier for each group of dipping forms, each individual dipping form of a group being rotatably secured to its group carrier, a pulley operatively connected with each individual dipping form, a master wheel provided on each group carrier, a driving belt coupling said master wheel with all pulleys, at least one driving wheel provided on each group carrier and operatively connected with said master wheel, vats, treatment tunnels, a conveyor for moving said group carriers along and through said vats and tunnels, at least one stationary friction rail adapted to engage and revolve said driving wheel when said moving group carriers pass said stationary friction rail and means for introducing said dipping forms into and withdrawing them from said vats.

2,351,203

THERMOSTATICALLY CONTROLLED ENGINE FAN COOLING SYSTEM

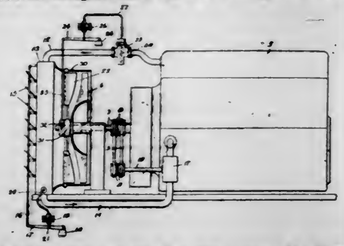
Milton E. Hanson, Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass.

Application February 3, 1943, Serial No. 474,558

2 Claims. (Cl. 236—35)

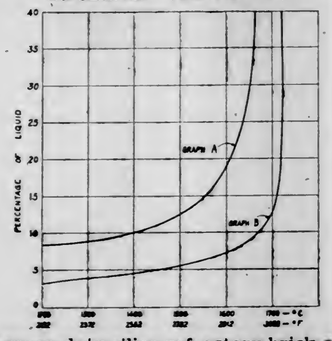
2. In a liquid cooled engine having a radiator with a pump for circulating liquid from the engine therethrough, having adjustable shutters extending across a surface of the radiator, and having an axial flow fan for moving air through the radiator, means including a thermostat responsive to the temperature of the liquid for opening said shutters at a predetermined relatively low temperature, spin vanes upstream with re-

spect to air flow of said fan, and means including means responsive to the temperature of said



liquid for adjusting said vanes towards closed position at temperatures below said predetermined temperature.

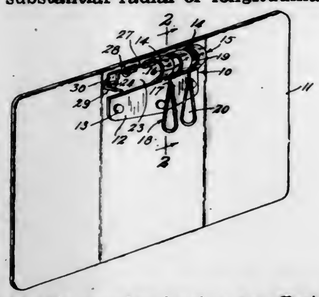
2,351,204
SILICA REFRACTORY
Frederic A. Harvey, Pittsburgh, and Raymond E. Birch, Mount Lebanon, Pa., assignors to Harbison-Walker Refractories Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 30, 1940, Serial No. 367,910
10 Claims. (Cl. 106—58)



1. A super-duty silica refractory brick containing alumina, titania and alkalies in a total amount not over about 0.5 per cent, at least one oxide of the group consisting of oxides of calcium, magnesium, strontium, manganese, zinc, nickel, cobalt, and ferrous iron, the total amount of the oxides of said group exceeding the sum of the alumina, titania and alkalies by at least 3.3 to 1 but being not over about 5 per cent, and the remainder substantially all silica.

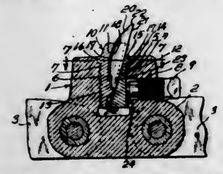
2,351,205
KEY HOLDER SUPPORT FOR KEY CASES
Robert P. Harvey, Longmeadow, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application November 4, 1942, Serial No. 464,538
6 Claims. (Cl. 70—456)

1. A key holder support comprising a plate portion for securing the support to a key case, a plurality of spaced members extending from one edge of said plate portion and curved to form a generally cylindrical portion, the spaces between said members forming slots to receive the shanks of key holders having enlarged heads by which heads the holders are normally retained in said slots, each of said slots having one end open to permit passage of the heads of the key holders from the generally cylindrical portion, at least two cylindrical bearings positioned adjacent the wall of the generally cylindrical portion and having their axes substantially parallel with the axis of the generally cylindrical portion, a gate member pivotally mounted in said bearings to swing within the said generally cylindrical portion, said gate being held by said bearings against substantial radial or longitudinal move-



ment, said gate member having an offset portion which bars outward passage of the key holders from the open ends of the slots when the gate is in one position and permitting outward passage of the key holders when the gate is swung in its bearings to a second position, and means tending to retain said gate in its slot-closing position.

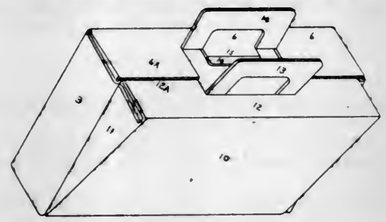
2,351,206
CUTTER CHAIN
John A. Hayward, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application November 5, 1942, Serial No. 464,588
7 Claims. (Cl. 262—33)



1. In a cutter chain, a chain block having a circular socket provided with threaded walls, and bit holding means receivable in said socket and including cooperating separable holder parts for supporting a cutter bit in cutting position on said block and separable to permit release of the cutter bit therefrom, said holder parts each having a threaded portion engageable with the socket threads and said parts being rotatable concurrently in said socket to effect adjustment of said holding means axially in said socket to vary the gauge of the cutter bit with respect to the chain block.

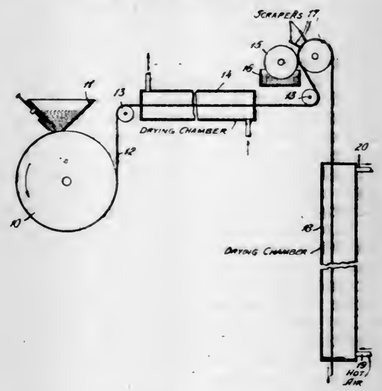
2,351,207
LUGGAGE BOX
George T. Henderson and Norbert A. Ringholz, Sandusky, Ohio, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application October 23, 1941, Serial No. 416,224
2 Claims. (Cl. 229—52)

1. A one piece fibre board container comprising a back tray composed of a back wall and top, bottom and end walls joined to the top, bottom and end edges of the back wall, said top and bottom walls having integral tabs and said end walls having inwardly folded flaps interlocked with said tabs at the corners of the tray, a front tray comprising a front wall hingedly connected at its bottom edge to the forward edge of the bottom wall of the back tray and flaps integral with the side and top edges of the front wall and adapted to enter the back tray closely adjacent the end and top walls thereof, said end and top flaps being unconnected and said end flaps having their upper ends inset to permit the top flap to have sufficient pivotal movement to enter beneath the top wall of the back tray without distortion of the end flaps or front wall, said top wall and top



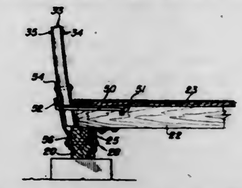
flap having registering slots centrally thereof and integral handle members at the inner ends of said slots adapted to engage face to face when the trays are telescoped, the slot of said top wall having parallel edges engageable with opposite ends of the handle carried by said flap and said top wall having an integral tongue disposed centrally of its slot and adapted to engage the under side of said flap beneath the handle portion to provide a frictional interlock between the flap and top wall when the trays are fully telescoped.

2,351,208
PROCESS OF MAKING SUPERPOLYAMIDE FILMS
Otto Herrmann, Wiesbaden, and Anton Wunderer and Hans Böttger, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian
Application June 25, 1941, Serial No. 399,750
In Germany July 6, 1940
7 Claims. (Cl. 18—57)



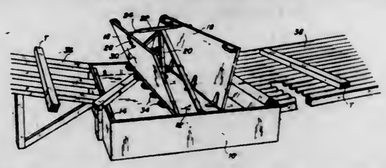
1. In the process of casting superpolyamide films wherein a solution of a superpolyamide in a solvent is cast on a casting support and dried thereon and the dried film removed from the support, the method for overcoming the tendency of rolling of the thus obtained film which comprises treating the film after its removal from the casting support only on the side which had been in contact with said casting support with a liquid swelling agent, and then drying the thus treated film.

2,351,209
BUILDING CONSTRUCTION
Frank Hobbs, Seattle, Wash., assignor to Colotyle Corp., Seattle, Wash., a corporation of Washington
Application August 19, 1942, Serial No. 455,271
3 Claims. (Cl. 20—2)



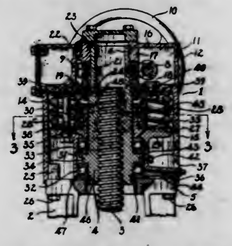
1. A building construction, comprising: sill, side, and platform members contiguous to each other, and a T shaped tie member; the head of the T being secured to and joining two of said side members to the sill member and the stem of the T joining the T to a platform member.

2,351,210
IMMERSING VAT
Frank Hobbs, Seattle, Wash.
Application April 12, 1943, Serial No. 482,122
1 Claim. (Cl. 21—62)



An immersing vat, comprising: a container to receive a fluid pool, a structural member across said container in a mid-position above a fluid pool contained therein, curved guide rails supported by said structural member each having a mid portion downwardly curving to a point below the normal level of a fluid pool in the container, hinged closure means between said structural member and the edges of the container, and means for retaining said closure means in inoperable position.

2,351,211
DRIVE FOR VALVES AND THE LIKE
Howard E. Hodgson, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 29, 1942, Serial No. 448,962
3 Claims. (Cl. 74—424.8)



1. In an operating unit for a valve having an axially movable non-rotatable threaded stem and a yoke through which said stem extends, in combination, an enclosing casing having a skirt on

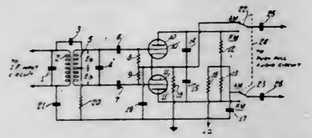
the underside thereof to rest upon and to be secured to the valve yoke, an internally threaded elongated sleeve nut mounted upon said stem and rotatable to move said stem axially, said sleeve nut being rotatably supported by spaced bearings located within said casing and being capable of limited axial movement from a normal position in a direction away from the valve yoke, a motor carried by said casing, a speed reducing gear drive between said motor and said nut, said drive being located within said casing and including a slow speed gear held against axial movement between said bearing parts and having a splined driving connection between the same and said nut to permit the aforementioned axial movement of said nut, and a spring thrust mechanism comprising an annular thrust member held against rotative movement by the skirt on the underside of said casing and supported upon said sleeve to move axially therewith, and a plurality of coil springs mounted to bear against said thrust member at points around the valve nut to resist the aforementioned limited movement of said valve nut.

2,351,212

CONVERTIBLE DEMODULATOR CIRCUIT

William D. Houghton, Setauket, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application February 10, 1942, Serial No. 430,171
16 Claims. (Cl. 250—27)



1. In combination with a pair of grid leak detector tubes having a common signal input circuit upon which may be impressed either frequency modulated carrier waves or amplitude modulated carrier waves, a common output load impedance connected to said detector tubes, means for deriving modulation voltage from across said output impedance upon the application of frequency modulated carrier waves to said common input circuit, a resistive impedance connected to a point on said output impedance such as to divide the latter into sections of substantially equal magnitude, a second resistive impedance connected between the cathodes of said detector tubes and a point of invariable potential, and means for deriving modulation voltages across said two resistive impedances upon the application of amplitude modulated carrier waves to said common input circuit.

2,351,213

TRANSMISSION

William S. James, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware

Application August 21, 1941, Serial No. 407,714
23 Claims. (Cl. 74—189.5)



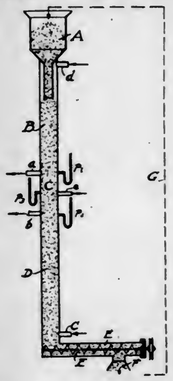
1. In a transmission, a torque converter having a driving element, a driven element and a reaction member, a driven shaft, a planetary gear system interposed between said converter and said shaft including a ring gear secured to said shaft, a planetary spider having a connection to said reaction member, and a sun gear having a connection to said driven element, and control means including brake and clutch means for locking said spider against rotation or for conjoint rotation with said ring gear, respectively, and secondary brake and clutch means for locking said driven element against rotation or for conjoint rotation with said driving element, respectively.

2,351,214

PROCESS OF CARRYING OUT CATALYTIC GAS REACTIONS

Hermann Kaufmann and Rudolf Keinke, Leuna, Germany; vested in the Alien Property Custodian

Application August 5, 1939, Serial No. 288,546
In Germany August 8, 1938
7 Claims. (Cl. 196—52)



. A process of carrying out the catalytic cracking of hydrocarbon oil vapors at a temperature of from 350° to 650° C. while using a catalyst in piece form, which must from time to time be regenerated, which comprises passing the catalyst in a cycle through an elongated vessel in the first part of which the reaction and in the second and longer part of which the regeneration of the catalyst is carried out by means of gas containing oxygen, passing said hydrocarbon oil vapors concurrently with said catalyst through said first part and passing said gas containing oxygen countercurrently to said catalyst through said second section, separately withdrawing gaseous products from each of said sections at spaced points therebetween and passing an inert gas across said elongated vessel in the zone between said spaced points of withdrawal of gaseous reaction products to maintain therebetween a zone of higher pressure than that prevailing at both the points of withdrawal of said gaseous products.

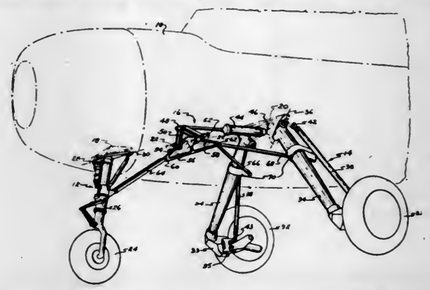
2,351,215

RETRACTABLE LANDING GEAR

Earl Schuyler Kleinhans and David E. Dunlap, Santa Monica, Calif., assignors to Douglas Aircraft Company, Incorporated, Santa Monica, Calif.

Application December 12, 1939, Serial No. 308,790
14 Claims. (Cl. 244—102)

12. In an aircraft having a body, a retractable landing gear including a nose wheel and a pair of main wheels, means connected to said body for carrying said nose wheel, means connected to each side of said body at a station longitudinally removed from that of said first mentioned connection for carrying one of said pair of main



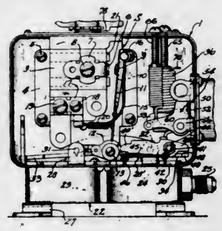
wheels, and means for simultaneously retracting said wheel carrying means, said nose wheel carrying means and said two main wheel carrying means moving longitudinally toward each other into transverse juxtaposition in said body.

2,351,216

CONTROL

George Knaak, Milwaukee, Wis.

Application July 16, 1942, Serial No. 451,101
16 Claims. (Cl. 200—81.5)



1. A control device for the compressor motor of a refrigerating system comprising a single pole, single throw electric switch equipped with a permanent magnet to provide for snap action, a spring for biasing the switch to closed position, cut-out and cut-in bellows responsive to the pressure on the low pressure side of the refrigerating system, two sets of levers, one connecting the cut-out bellows to the switch and the other connecting the cut-in bellows thereto, the latter lever set having a yieldable element therein stronger than the switch spring but weaker than the combined force of the switch spring and the permanent magnet, spring means combined with each set of levers to oppose the action of its bellows thereon, and an independent adjustment for each spring means whereby difference between start and stop can be adjusted to cover the entire range.

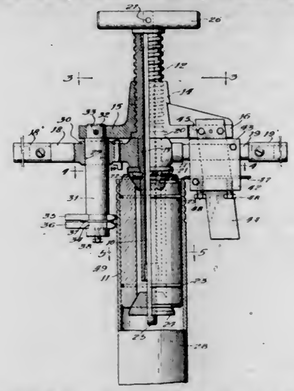
2,351,217

CUTTING AND THREADING TOOL

Carl J. Kopp, Chicago, Ill., assignor to Federal Electric Company, Inc., Chicago, Ill., a corporation of New York

Application July 26, 1943, Serial No. 496,176
3 Claims. (Cl. 10—101)

1. A device of the class described comprising a shaft formed with a thread adjacent one end thereof and an intermediate adjacent smooth cylindrical portion, and cutting mechanism rotatably carried by both the threaded and smooth portions of the shaft, said mechanism comprising a smooth bore hub carried by the smooth shaft portion between longitudinal confining means thereon, radial operating arms projecting from said hub, one of said arms being formed with an aperture and the other carrying a radially slidable tool carriage including an end trimming cutting tool, a threaded hub carried by the threaded shaft portion having radial arms projecting therefrom, a tool holder carried by one of its arms parallel to said shaft and extending through said aperture including a thread cutting tool mounted on the projecting end portion thereof, and an outwardly inclined laterally extending slide member carried by the opposed arm and slidably engaged with said radially slidable tool carriage whereby actuation of the cutting mechanism to cause movement of the threaded hub towards the longitudinally restricted hub will cause inward radial movement of said slidable carriage.

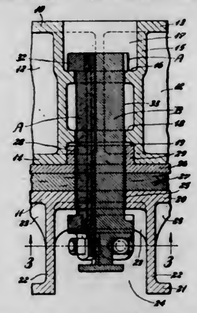


2,351,218

CAR CONSTRUCTION

Harvey J. Lounsbury, Glen Ellyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

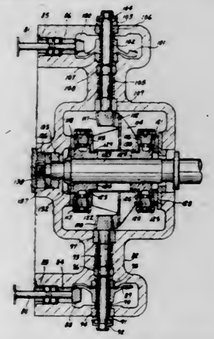
Application July 9, 1941, Serial No. 401,553
2 Claims. (Cl. 105—200)



1. In car construction, the combination with body and truck bolsters having alined center pin receiving openings, each of said bolsters being provided with an annular shoulder adjacent the outer end of the opening thereof; of a sectional center pin including three similar outer sections shouldered at opposite ends and adapted to be entered through said openings, and a filler element comprising a central member and three

radially extending wings, said wings being engaged between said outer sections to hold the latter spread apart with the shoulders thereof in overlapped relation with the annular shoulders of the bolsters, said outer sections having perforated protruding lugs at one set of ends thereof, the axis of perforation of each of said lugs being to one side of the longitudinal center line of the pin, said filler element having laterally extending lugs at one end thereof adjacent said perforated lugs of the outer sections spaced inwardly from the latter, and a disclike head projecting from said end of the filler element; and retaining elements extending through the perforations of said lugs and into underlying relation with said laterally extending lugs of said filler element to be engaged by said last named lugs and support said filler element against removal.

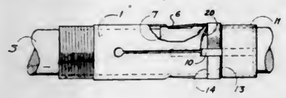
2,351,219
GEARING
Frederick E. McMullen, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application March 13, 1943, Serial No. 479,011
6 Claims. (Cl. 74—282)



1. In a power drive, two shafts which are adapted to be connected to a low pressure and a high pressure turbine, respectively, a third shaft and a fourth shaft, reduction gearing for driving the third shaft from the shaft which is driven by the low pressure turbine, reduction gearing for driving the fourth shaft from the shaft which is driven by the high pressure turbine and at the same speed as the third shaft, a fifth shaft, a gear journaled coaxially thereof for rotation relative thereto, two identical pinions secured to the third and fourth shafts, respectively, and meshing with said last named gear at spaced points around its periphery to drive said last named gear on rotation of the third and fourth shafts, and a planetary reduction gearing mounted coaxially on the fifth shaft for driving the fifth shaft from said last named gear, one member of said planetary being secured to said last named gear, another member of said planetary being fixed against rotation, and the pinions of said planetary being connected to said fifth shaft.

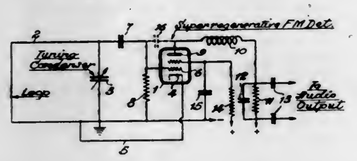
2,351,220
PUSHER
Stoddard B. Martin, Lakewood, Ohio
Application May 28, 1941, Serial No. 395,582
15 Claims. (Cl. 29—62)

1. A pusher comprising a resiliently expansible shell, an expansible bushing within the shell, a spring surrounding the bushing and compressing the same radially inward upon the stock to be fed, said bushing projecting from one end of the shell and having an outwardly extending abutment engaging said end of the shell and



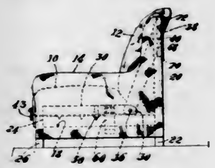
preventing relative axial movement of the shell and bushing in one direction, and interengaging abutments on the shell and bushing preventing relative axial movement thereof in the other direction.

2,351,221
SUPERREGENERATIVE RECEIVER CIRCUIT
Garrard Mountjoy, Manahasset, and Charles W. Finnigan, Little Neck, Long Island, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application November 8, 1941, Serial No. 418,278
12 Claims. (Cl. 250—20)



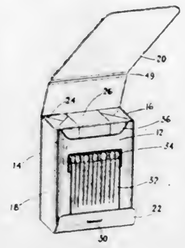
1. In a receiver of ultra-high frequency signal modulated carrier energy provided with a superregenerative detector, the method which includes quenching the oscillations produced in the detector at a super-audible frequency, deriving signal modulation energy and quench frequency components from the detector, amplifying the signal modulation and quench frequency components, removing the amplified quench frequency component without in any way affecting the modulation component, and directly reproducing said signal modulation component.

2,351,222
COMBINED RECLINING CHAIR AND COUCH
Charles Muskin and Benjamin Sheinman, New York, N. Y.
Application December 7, 1942, Serial No. 468,074
7 Claims. (Cl. 155—45)



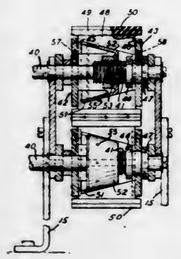
1. In a chair, a seat, means for slidably carrying the seat between the sides of the chair, a pair of separated uprights, each upright having a slot therein, a pin in each slot for movement therein and a back member between the uprights and pivotally connected at its lower end to the seat and at its upper end to the pins, a wall of the slot being hinged to the upright for opening and closing the slot.

2,351,223
COMBINED CIGARETTE AND MATCH PACKAGE
Harry Neivert, New York, N. Y.
Application May 25, 1940, Serial No. 337,146
2 Claims. (Cl. 206—48)



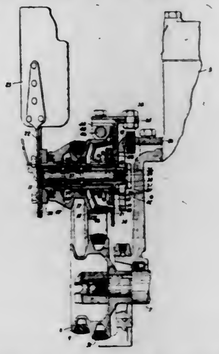
1. A match-carrying folder intended for use with a package of cigarettes, said folder being made of paper patterned and folded to provide front, back and side walls dimensioned to receive a package of cigarettes, paper matches secured on the outside of the front wall of said folder, the top of said folder being closed by a single flap long enough to extend downwardly over the matches on the front of the folder, said flap when opened exposing both the matches and the top of the cigarette package, the front wall of said folder being cut away at the heads of the matches to partially receive the same and so reduce the apparent thickness thereof, the cutaway portion being localized at the heads of the matches.

2,351,224
MARKING DEVICE
Axel C. Nystrom, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 5, 1941, Serial No. 386,959
2 Claims. (Cl. 101—376)



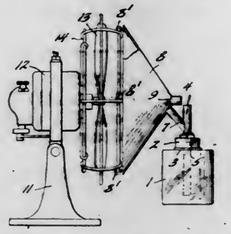
1. A marking device comprising a wheel rotatable in a direction relative to an advancing material and including spaced heads with opposing sets of radial grooves therein, marking elements, to make distinguishing marks on the material, disposed with their ends in their respective sets of grooves and having slots therein extending diagonally with respect to the axis of the heads, and a supporting element having portions extending into the slots and movable relative thereto to move the marking elements in their grooves toward and away from the axis of the wheel, and means to move the supporting element.

2,351,225
ENGINE AND FAN ASSEMBLY
Grover C. Patrick and Harry R. Greenlee, South Bend, Ind., assignors to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application October 5, 1942, Serial No. 460,892
9 Claims. (Cl. 230—271)



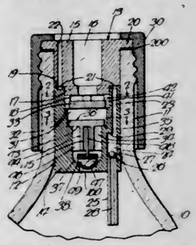
1. In combination, a crank shaft, a fan shaft spaced from said crank shaft, a fan having blades which extend beyond the axis of said crank shaft carried by said fan shaft, means adapted to transmit driving force from said crank shaft to said fan shaft to rotate the latter, and means for substantially simultaneously braking said fan shaft against rotation and declutch said fan shaft from said crank shaft.

2,351,226
ATOMIZER
William P. Pernhall, Atlantic City, N. J.
Application September 27, 1943, Serial No. 504,004
1 Claim. (Cl. 261—30)



An atomizer including a vertically extending entraining tube, a cap secured to said tube, a container fitted within the cap and the lower portion of said tube extending into said container, a relatively large imperforate hood, a nozzle formed in the apex of the hood, an angular support for the hood also formed on said entraining tube just above the said cap to so position the hood that the nozzle will extend directly in front of the upper end of the entraining tube, the bottom of the container extending in a plane slightly below the lower edge of the hood, fastening means formed on the outer periphery of the hood and adapted to clamp the hood to the outer periphery of the guard of an oscillating fan, the bottom of the container adapted to extend in a plane slightly above the base of the oscillating fan, the base of the container being flat, whereby the said container will be self-supporting when not clamped to the said fan guard.

2,351,227
STOPPER FOR NONREFILLABLE RECEPTACLES
Robert Petrone, Chicago, Ill.
Application November 9, 1940, Serial No. 365,064
2 Claims. (Cl. 215—25)

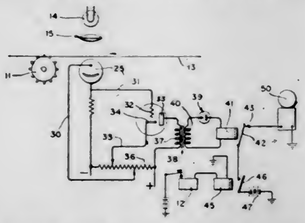


1. In combination, a container having a neck provided with an axial opening, said container being adapted to contain a liquid, a sectional stopper within said opening, said stopper comprising a lower body portion having an axial passage therethrough leading to said container, said passage being restricted at its lower end to form a valve seat, a valve for said seat for closing said passage against the entry of a liquid to said container, said valve having an upwardly extending stem, said valve being light enough to float in said liquid, a weight loosely mounted on said stem, a guide for said stem, an air passage formed by a groove in one of the sections of said stopper and extending through said stopper, said passage having its intermediate portion curved through a large number of degrees, a valve within said air passage for admitting air to said container only when said container is inverted, and means for preventing a liquid from traveling in a straight line from said container to the exterior thereof when the same is inverted.

2,351,228

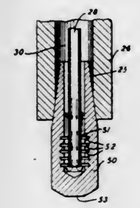
WITHDRAWN

2,351,229
TAPE FEED ALARM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application April 27, 1942, Serial No. 440,654
21 Claims. (Cl. 178—42)



1. In a tape feed alarm, feeding means for advancing a tape, an alarm circuit, a light sensitive circuit responsive to the advancement of said tape and normally rendering said alarm circuit ineffective, and means for conditioning said alarm circuit for operation for each operation of the tape feeding means, said light sensitive circuit being operative to render said alarm circuit effective when defective tape feeding conditions are manifested.

2,351,230
WELDING ELECTRODE
Raymond E. Powell, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 5, 1942, Serial No. 467,941
1 Claim. (Cl. 219—4)



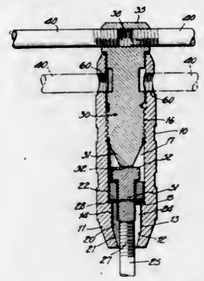
A welding electrode comprising a body having a work face, a circular passageway for a cooling fluid formed therein, the walls of which provide a heat transfer area terminating short of the work face, and a plurality of equally spaced annular grooves formed in the outer wall of the passageway to increase the heat transfer area and to disturb the travel of the cooling fluid through the passageway to effect reduction of the temperature of the work face.

2,351,231
AUTOMATIC FACSIMILE TELEGRAPH SYSTEM
Garvice H. Ridings, Summit, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 3, 1942, Serial No. 449,548
7 Claims. (Cl. 178—6.6)



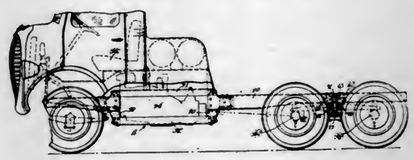
7. In a facsimile telegraph system, an automatic transmitter, an automatic recorder, said recorder being normally in an idle condition awaiting reception of a message, means in said transmitter for receiving a message bearing sheet and automatically transmitting signals representative of the message on said sheet to said recorder, means responsive to the receipt of said sheet by said means for preparing said recorder for operation, means at said recorder for starting said recorder in phase with said transmitter, means in said transmitter for discharging said sheet from said transmitter, said signal transmitting means being responsive to a marking on said message sheet for generating a control signal following transmission of said message representative signals, control means at said recorder responsive to said control signal to control the operation of said sheet discharging means at the transmitter, and means operable upon discharge of said message bearing sheet for restoring said recorder to its idle condition, said control means being responsive to continuous control signals of a predetermined duration and being non-responsive to similar signals of a shorter duration fortuitously occurring in message representative signals.

2,351,232
STUD SETTING AND REMOVING TOOL
Samuel Schnabolk, Paterson, N. J.
Application March 18, 1942, Serial No. 435,139
2 Claims. (Cl. 81—113)



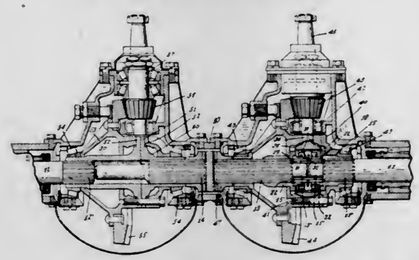
1. A tool of the type described comprising in combination, a cylindrical casing open throughout its length, a tapered seat within said casing at one end thereof, a shoulder within said casing inwardly of said tapered seat, an internally screw threaded split sleeve slidably mounted in said casing for threading and gripping engagement with a stud, a tapered seat provided at one end of said sleeve complementary to said first mentioned tapered seat for engagement therewith for contracting said sleeve into gripping engagement with a stud, an enlarged head at the other end of said sleeve integral therewith and disposed adjacent said shoulder, a resilient spring washer surrounding said sleeve and interposed between said head and said shoulder to normally urge the seat of the sleeve away from the seat on the casing, means preventing rotation of the sleeve relative to said casing, a driving pin slidably mounted in said split sleeve and having an enlarged head disposed beyond the enlarged head of said sleeve, a driving plug threaded within said casing, a tapered driving portion formed in the inner end of said driving plug axially with respect to the head of the driving pin, and handle means provided on the outer end of said driving plug for normally imparting rotation thereto to effect threading movement of the plug inwardly to cause the driving portion thereof to forcibly engage the head of the driving pin and subsequently slide the sleeve to cause the tapered seat thereof to wedgingly engage the tapered seat of the casing to effect a contraction of the split sleeve about a stud to be gripped.

2,351,233
DUAL MOTOR CHASSIS
Pierre Schon, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application September 14, 1942, Serial No. 458,287
12 Claims. (Cl. 280—106)



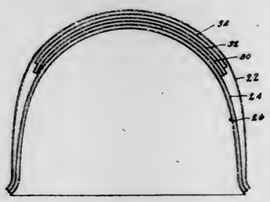
1. In a motor vehicle chassis frame comprising, side-bars and cross-braces connecting the side-bars adjacent their ends and at intermediate points, a longitudinal central beam having an overall length to span the distance between two cross-braces between which at least one intermediate brace exists, said beam being notched to receive each intermediate cross-brace, a bridge plate spanning the open end of each notch, fastening means connecting lower regions of the central beam and each intermediate cross-brace with the ends of said bridge plate secured to upper regions of the beam adjacent the overlaid cross-brace, and means for fastening the ends of the beams to adjacent cross-braces.

2,351,234
DUAL POWERED AXLE
Pierre Schon, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application July 22, 1943, Serial No. 495,705
3 Claims. (Cl. 74—389.5)



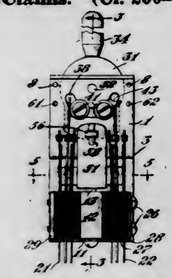
1. An axle structure comprising, a housing, two output shafts journalled in said housing, two input shafts journalled in said housing, a clutch type differential connection between one of said input shafts and the two output shafts, and a driving connection between the other input shaft and only one of the output shafts.

2,351,235
HELMET
George A. Shroyer, Louis P. Gould, and Rex E. Moule, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 18, 1942, Serial No. 447,492
2 Claims. (Cl. 2—6)



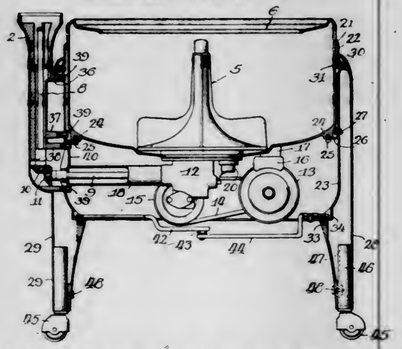
1. A non-metallic helmet for use as a liner in metal helmets comprising a substantially integral unit including a reenforced crown portion and a brim portion, said unit consisting of a plurality of layers of superimposed fabric material wherein the number of layers in the crown portion exceed the number of layers in the brim portion, said layers being held together by means of a thermosetting resin impregnated within the fabric and being present in quantities above 30% and below 50% of the total weight of the helmet, said element being light, relatively resilient and strong.

2,351,236
ELECTRIC SWITCH
Gilbert Smiley, Hingham, and Chauncey L. Delano, Waltham, Mass., assignors to General Control Company, Cambridge, Mass., a corporation of Massachusetts
Application July 10, 1942, Serial No. 450,398
12 Claims. (Cl. 200—1)



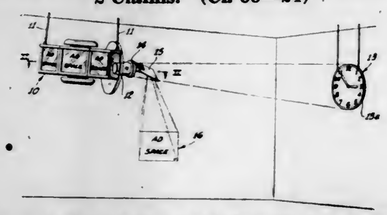
1. An electric switch comprising a frame having two juxtaposed plates with a space therebetween, a contact block, a group of spring contacts mounted on said block outside each plate, an actuator movably mounted in said space, switch operators extending from the actuator through openings in said plates for operating said groups respectively, said plates having opposed slots extending thereinto from corresponding edges, and the contact block being slidably fitted in said slots with grooves to receive the edges of the slots, whereby the block holds the plates together and the plates hold the block in alignment.

2,351,237
SUPPORT AND MOUNTING FOR WASHING MACHINE TUBS
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application July 29, 1940, Serial No. 348,276
2 Claims. (Cl. 68—3)



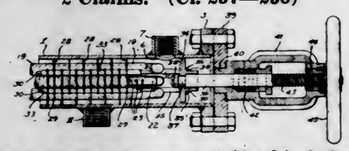
1. A support and mounting for a washing machine tub, comprising a shoulder provided on the exterior of the tub adjacent to but located below its upper edge, a frame adapted to encompass the tub and enclosing and insulating the wash water and the tub throughout the greater portion of the height of the tub and having an inturned upper edge for engaging under the shoulder on the tub and an angular offset at its lower edge, brackets on the frame for connecting the bottom of the tub to an intermediate portion of the frame for additionally supporting the tub, the frame being spaced in parallel relation from the side walls of the tub and projecting to a substantial distance therebelow, and legs spaced about the exterior of the frame and connected thereto adjacent the upper edge of the frame and to the angular offset at the lower edge of the frame for supporting the frame and tub above the floor.

2,351,238
DISPLAY DEVICE
Max M. Teuber, Los Angeles, Calif.
Application June 1, 1942, Serial No. 445,305
2 Claims. (Cl. 88—24)



1. A device of the class described, comprising a casing, a clock in said casing having a reversed dial and hands moving in reverse direction, a lamp in said casing for illuminating said clock dial and an objective lens system in said casing on the same side of said dial as said lamp for projecting an image of the clock onto a distant surface, said clock dial consisting of a mirror having light absorbing numerals and hands and being so positioned with respect to said lamp as to reflect light from said lamp directly into said objective lens system.

2,351,239
HEAT EXCHANGER
William H. Thompson, Chatham, N. J., assignor to Davis Engineering Corporation, Elizabeth, N. J., a corporation of Delaware
Application September 19, 1942, Serial No. 458,933
2 Claims. (Cl. 257—238)

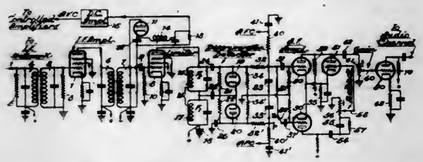


1. In a heat exchanger of the kind described, the combination comprising a shell having inlet and outlet openings for the medium to be heated, tubes within the shell extending longitudinally thereof for carrying the heating medium, a plurality of spaced, transverse baffles within the shell between said inlet and outlet openings, the baffles engaging the tubes and the wall of the shell and arranged to cause the medium to be heated to make a plurality of passes transversely of the tubes and being movable longitudinally of the tubes and making a scraping fit therewith, means connecting the several baffles together and arranged to sustain the baffles transverse to the tubes, and means for moving the baffles along the tubes, whereby the baffles scrape the tubes.

2,351,240
PHASE AND FREQUENCY MODULATION RECEIVER
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 13, 1941, Serial No. 418,927
12 Claims. (Cl. 250—20)

1. In a receiver of phase modulated carrier waves, a limiter tube provided with input and

output electrodes, a discriminator-detector network following the limiter, said network comprising a diode rectifier circuit provided with a resonant input circuit and a resistive output load, a second diode rectifier circuit provided with a second resonant input circuit and a second resistive output load, means connecting said resistive loads in phase opposition, said input circuits being oppositely and equally mistuned relatively to the center frequency of said waves and arranged in series relation with each other and in series with the space discharge paths of said rectifier diodes, said resistive loads being connected in series between the anodes of said diodes,



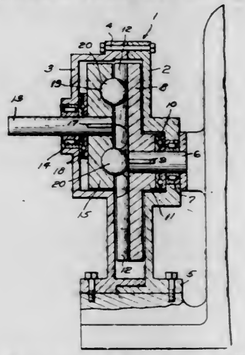
said loads being connected directly in shunt with said series arranged input circuits, a condenser connecting the junction of the resistive loads to the junction of said input circuits, a second condenser connecting the anode end of one resistive load to that side of the input circuit associated therewith, a third condenser between the anode end of the second resistive load and that side of the input circuit associated therewith, said three condensers being of equal value, a resistive path in shunt with said diodes, the midpoint of said last path being grounded, and a balanced push-pull audio amplifier coupled to said resistive path thereby to provide a perfect balance for amplitude modulation components.

2,351,241
ROAD CONSTRUCTIONAL MATERIAL
Heinrich Ulrich, Ernst Ploetz, and Oskar Ferrares, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application November 14, 1940, Serial No. 365,650
2 Claims. (Cl. 106—281)

2. Bituminous road constructional materials comprising in intimate combination a bituminous binding agent and a stone material and a sulfonamide having the nitrogen atom substituted by an aliphatic chain to which is attached a terminal amino group, which sulfonamide is obtainable by reacting a substance selected from the class consisting of alkylene diamines and polyalkylene polyamines with a sulfochloride resulting from the interaction of halogen, sulfur dioxide and a substance selected from the class consisting of aliphatic hydrocarbons and halogenated aliphatic hydrocarbons containing at least 10 carbon atoms in the molecule.

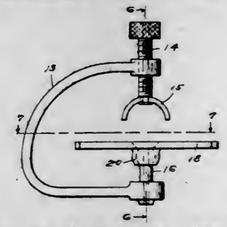
2,351,242
POWER TRANSMISSION
Albert L. Vaughn, Elko, Nev.
Application May 28, 1942, Serial No. 444,881
1 Claim. (Cl. 74—69)

A power transmission comprising a housing including a pair of detachably connected sections, one of said sections comprising a central circular protuberance having an outer end wall, a drive shaft journaled in said protuberance centrally of the latter, a disk fixed on the drive shaft and operable in the housing, said disk including a projecting hub portion operable in the protuberance, a radial bearing for the drive shaft in the protuberance, a thrust bearing for the disk between the hub portion thereof and the outer end wall of the protuberance, the other section of the housing having a second larger circular protuberance out of alignment with the first-named protuberance, a driven shaft journaled in the other protuberance of said other section of the housing centrally of the latter protuberance and longitudinally offset from the drive shaft, a disk



centrally fixed on the driven shaft and operable in the second-mentioned protuberance of the housing in opposed relation to the first named disk, said first named disk having radial ball races in its inner face, the second named disk having sockets in its inner face at opposite sides of and equi-distant from its center, and balls journaled in the sockets and operable in the races for connecting the second named disk to the first named disk for actuation thereby, one of said balls being coincident with said drive shaft.

2,351,243
COMBINATION DRILL GUIDE AND CLAMP
Johannas Vetter, San Diego, Calif.
Application October 13, 1942, Serial No. 461,903
3 Claims. (Cl. 77—62)

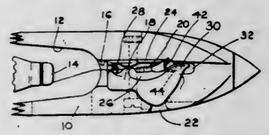


1. In a device of the class described, a substantially U-shaped holder having opposed ends, and a pair of tubular combined drill guiding and work clamping members at the ends of said holder axially aligned and one threaded in the holder for adjustment toward and from the other, one of said members having mounted on the inner end thereof a bowed clamping foot rotatable on said end.

2,351,244
LOOM SHUTTLE
Antonio Villani, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application April 3, 1943, Serial No. 481,727
7 Claims. (Cl. 139—223)

1. An automatically threading loom shuttle comprising a shuttle body having a threading

block and a side delivery eye, said threading block having a longitudinal thread passage, a horn forming a lateral extension of the front wall of said passage, and a member supported by the rear wall of said passage and having a thread



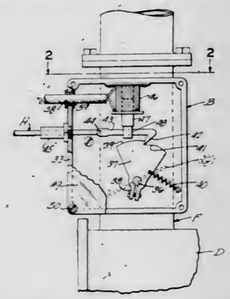
engaging portion projecting forwardly and downwardly from said rear wall and a second portion having a free end extending laterally and outwardly from said first portion under said horn to trap the filling thread as the shuttle is threaded.

2,351,245

AUTOMATIC SPEED REGULATOR

Ralph Thomas Walker, Nashville, Tenn.

Application September 18, 1942, Serial No. 458,812
4 Claims. (Cl. 180—82.1)



1. In combination with the throttle valve and valve shaft and the throttle rod of a motor vehicle internal combustion engine, a device of the kind described, the same comprising a flat segmental cam anchored by its angular end to the valve shaft and extended vertically therefrom with its plane perpendicular to the shaft, the cam having a free arcuate margin concentric with the shaft and there being a notch cut in the said margin, means for normally rotating the valve shaft and cam to close the throttle valve, a latch member pivoted to the working end of the throttle rod and adaped to releasably engage the marginal notch of the cam for holding the cam and shaft as rotated contrary to the pull of the means provided for normally rotating these elements for closing the throttle valve, thereby releasably holding the throttle valve in opened position.

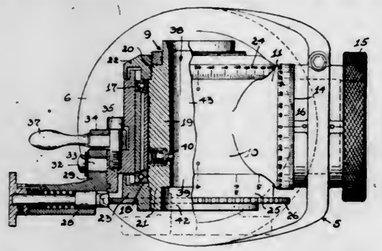
2,351,246

UNIVERSAL HEAD FOR MACHINE TOOLS

Clyde E. Walling, Cleveland, Ohio

Application September 11, 1943, Serial No. 502,057
6 Claims. (Cl. 51—216)

1. In a universal tool supporting head for machine tools a rotatable support including a sleeve member rectangularly related to the axes of rotation of said support, a T-shaped barrel member rotatably mounted in said sleeve member so that the axis of the barrel of said barrel member tilts in a plane through the axis of rotation of said support, a quill axially rotatably mounted in said barrel, means to arrest rotation of said quill and means supporting said arresting means on said barrel for limited movement with respect there-



to to effect proper adjustment of the quill in said barrel without disconnecting the said arresting means when coupled with said quill.

2,351,247

AMINO-SUBSTITUTED COMPOUND OF THE BENZENE SERIES AND METHOD OF MAKING THE SAME

Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 1, 1941, Serial No. 413,167
7 Claims. (Cl. 260—578)

6. A primary amino-benzene in which a substituent group meta to $—NH_2$ is a chloro-aliphatic group having two nuclear carbons, both carbons of which are substituted by chloro, said chloro-aliphatic group containing 3 to 5 chloro substituents.

2,351,248

PRODUCTION OF HYDROCARBONS

Gustav Wirth, Franz Sabel, and Hans Laudenklos, Leuna, Germany; vested in the Alien Property Custodian

No Drawing. Application April 20, 1940, Serial No. 330,730. In Germany November 25, 1938
4 Claims. (Cl. 260—449.6)

1. In a process for the production of hydrocarbons having more than one carbon atom in the molecule by the catalytic conversion of carbon monoxide with hydrogen in a plurality of consecutive reaction vessels with removal behind each reaction vessel of the liquid hydrocarbons formed, the improvement of maintaining in all reaction vessels substantially the same throughput within the range from 200 to 600 cubic meters of gas per cubic meter of catalyst per hour.

2,351,249

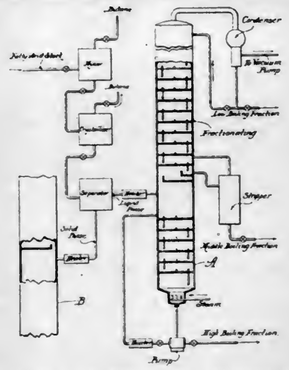
TREATING FATTY ACIDS

Albert H. Zeigler, Evanston, Dale V. Stingley, Downers Grove, and James M. Kiefer, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

Application September 28, 1940, Serial No. 358,792
7 Claims. (Cl. 202—62)

1. In a method for treating a mixture of saturated and unsaturated fatty acids including relatively low boiling saturated fatty acids and relatively high boiling highly unsaturated fatty acids, to obtain a high yield of highly unsaturated fatty acids, the steps of subjecting the mixture to low temperatures to bring about crystallization of a saturated acid portion, separating the crystallized saturated portion from the uncrystallized unsaturated portion, and separately fractionally distilling said unsaturated

fatty acid portion, without imparting sufficient heat to the same to produce substantial thermo-alteration of the unsaturated fatty acids, to ob-



tain a plurality of fractions of said portion of different boiling points, including a relatively large high boiling fraction consisting predominantly of highly unsaturated fatty acids.

2,351,250

BATTERY SERVICE TOOL

Harold W. Yerian, Cumberland, Ohio

Application January 10, 1942, Serial No. 426,283
2 Claims. (Cl. 81—3)



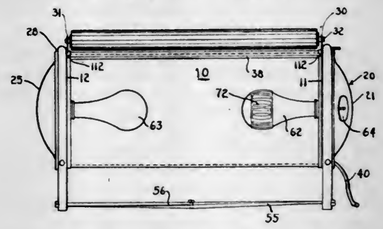
1. A storage battery service tool comprising a shank portion having a handle intermediate its ends, a head formed on one end of said shank portion, said head including a wedging surface arranged generally in continuation of one side of said handle portion and a cooperating wedging surface diverging from said first wedging surface and from the axis of said handle, said wedging surfaces extending substantially to a point at the free end of said head, and a hammering shoulder extending laterally from said handle portion to said last-mentioned wedging surface, whereby said hammering shoulder is arranged between said handle portion and said head.

2,351,251

BLUEPRINT MACHINE

Emerson L. Davenport, Grand Rapids, Mich.

Application February 6, 1942, Serial No. 429,735
1 Claim. (Cl. 240—2)



In combination with a cylindrical surface to be uniformly illuminated, a pair of electric light bulbs located at the axis of said cylindrical surface and spaced from each other, each light bulb having a bulbous housing and a lighting filament within said housing, a light shield surrounding the girth of each light bulb leaving its respective inner and outer ends unshielded, each light shield comprising a series of spaced segments and each segment being of varying width having its wider portion located between the filament and the area of the surface closer thereto and a stationary reflector located at each end of said cylindrical surface and shaped to reflect light rays to areas of the surface near the respective ends thereof.

2,351,252

ENAMEL

Alden J. Deyrup, Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 9, 1943, Serial No. 498,001
5 Claims. (Cl. 106—49)

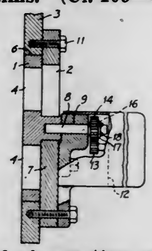
1. A vitreous enamel composition suitable for use in enameling electrical resistors which comprises: lead oxide in amounts ranging from 45–65%; silica in amounts ranging from 4–15%; boric oxide in amounts ranging from 4–20%; alumina in amounts ranging from 3–9%; and ferric oxide in amounts ranging from 9–20%, said percentages being by weight based on the total weight of said vitreous enamel.

2,351,253

ARMORED OBSERVATION PORT

James J. Downey, San Mateo, Calif., assignor of twenty-five per cent to Joseph J. Downey and twenty-five per cent to Fitz-Gerald Ames, both of San Francisco, Calif.

Application August 27, 1941, Serial No. 408,475
2 Claims. (Cl. 109—58.5)



1. An armored observation port for armored compartments which comprises a wall of armoring material having a circular opening, a rotor housing member secured to the wall upon its inner side and provided with an observation port aligned with a portion of the opening, a rotor of armoring material journaled upon the housing member and positioned within the wall opening with its outer surface substantially flush with the outer surface of the wall, said rotor having a plurality of slots arranged to be moved successively into alignment with the observation port, and a motor mounted upon the inner side of the rotor mounting means and connected to the rotor.

2,351,254

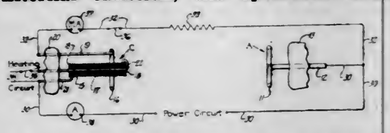
ELECTRIC DISCHARGE DEVICE

Duryea E. Elmendorf, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Application July 25, 1941, Serial No. 404,023
5 Claims. (Cl. 176—126)

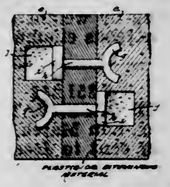
1. An electrode structure for electric discharge in a low pressure atmosphere, said electrode struc-

ture comprising an internally activated but externally unactivated openwork hollow cathode structure closed against free electric discharge to its interior, with means for passing current through said cathode to heat it to a temperature of internal emission, the openwork members



being so closely spaced together that when maintained at negative potential relative to the surrounding discharge, while said cathode is functioning as such, they limit the positive ions entering the interior of the open work and the discharge current to be drawn from said interior by coacting anode means.

2,351,255
APPARATUS FOR JOINING SPACED ELEMENTS
Albert C. Fischer, Chicago, Ill.
Application January 28, 1937, Serial No. 122,833
11 Claims. (Cl. 94—18)

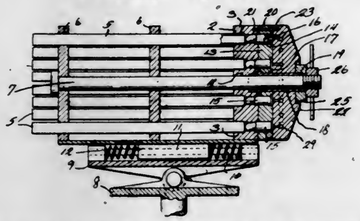


1. In a device of the class described, two pavement slabs having a gap therebtween filled with a sealing medium capable of flowing deformation, a transloading element having one end thereof anchored in one of said slabs and the other end thereof having an enlarged face, a confining chamber attached to the other slab and extending into said gap adapted to accommodate tightly the enlarged face of said transloading element, said space adapted to receive the excess sealing medium when said gap is narrowed and to return said sealing medium when said gap is widened in response to expanding and contracting movements of said slabs.

2,351,256
METHOD OF FERTILIZER DISTRIBUTION
Albert C. Fischer, Chicago, Ill.
No Drawing. Application June 10, 1940, Serial No. 339,830
1 Claim. (Cl. 47—58)

In the art of promoting the growth of plants, the improvement which comprises laying at the bottom of a bed of soil, a moisture arresting septum, interposing in said bed at a level intermediate of the top of the bed and said septum, a substantially horizontal prefabricated self-sustaining and plant food-bearing sheet-like vehicular body which divides the soil bed into an upper growing stratum of soil and a lower moisture salvaging and plant-finishing stratum of soil; planting plants in the upper growing stratum of soil with root-systems spaced above, but within tropic range of said vehicular body whereby tropism-exciting food and moisture are applied through the medium of said vehicular body to the root systems, and while the plant roots are developing in the upper growing stratum.

2,351,257
MULTIPLE BARREL GUN
Calvin G. Formhals, Smithfield, Ill.
Application May 13, 1941, Serial No. 393,251
3 Claims. (Cl. 89—1)



1. A multi-barrel gun, comprising a plurality of barrels, cartridges for said barrels each including a casing carrying an explosive charge and a primer opening in its rear end, a body disposed against the rear ends of the cartridges and having a flame chamber formed therethrough and extending across the ends of the cartridges and further having lateral passages leading from the flame chamber each toward a cartridge primer opening, means for supporting a blank cartridge at one end of said chamber, means forming an exhaust port at the opposite end of the chamber, and means for firing said blank cartridge whereby the burning gases therefrom will pass through the chamber and through said passages to ignite the charges of the cartridges, said exhaust port comprising a removable plug having a restricted exhaust opening therethrough, the diameter of which controls the degree of rapidity with which the burning gases passed through the flame chamber.

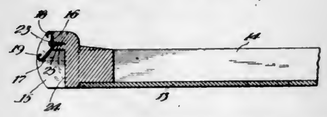
2,351,258
RECOVERY OF WATER-SOLUBLE SALTS OF CARBOXYALKYL CELLULOSE
Richard D. Freeman and Robert C. Anthonisen, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 16, 1942, Serial No. 469,220
3 Claims. (Cl. 260—232)

1. The method of recovering a water-soluble alkali metal salt of a carboxyalkyl cellulose in readily filterable form from an aqueous solution thereof, which comprises acidifying the solution to a pH of less than 1, then neutralizing the acidified solution with an alkali, adding a water-soluble monohydric alcohol to the neutralized solution in amount sufficient to precipitate completely the salt of the carboxyalkyl cellulose, and separating the precipitated salt from the solution by filtration.

2,351,259
METHOD OF CONDITIONING WATER
Charles T. Fuetterer, Cuyahoga Falls, Ohio
No Drawing. Application October 29, 1941, Serial No. 416,993
23 Claims. (Cl. 210—23)

1. In the process of conditioning water containing an objectionable hardening agent in solution, the steps which comprise adding to the water a softening agent and a material comprising a protein capable of forming a colloidal aqueous solution, and agitating the water, said softening agent being present in an amount sufficient to react with at least a major proportion of said hardening agent to form an insoluble precipitate, said material being free from ingredients which absorb and ingredients which adsorb the protein in the presence of water, and said protein being of such nature and being added in such amount that it hastens the reaction between the hardening agent and the softening agent.

2,351,260
DRAWER OR TRAY FRONT
Marchand B. Hall, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Illinois
Application October 12, 1942, Serial No. 461,774
9 Claims. (Cl. 40—8)



1. In a drawer having a recessed front wall portion, a forwardly projecting ledge within said recess adjacent the top thereof and a unitary label holder and drawer pull device mounted within said recess, the upper edge portion of said device being secured to the forward face of said ledge and the lower edge portion depending freely therefrom to permit finger ingress.

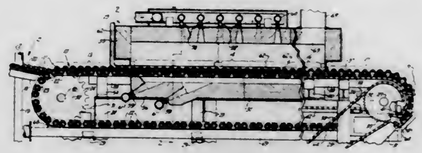
2,351,261
FENCE POST
Newton L. Hall, Long Beach, Calif.
Application June 23, 1942, Serial No. 448,107
5 Claims. (Cl. 189—23)



3. A fence post substantially V-shaped in cross section, the apex providing a substantially straight rib, the lower end portions of the side walls of the post being outwardly folded to provide outstanding wings, the lines of fold converging toward and terminating closely adjacent to the lower extremity of the rib.

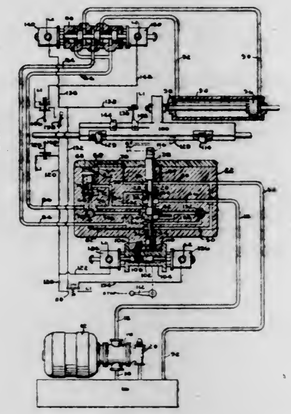
2,351,262
LEHR
Clarence E. Hahn, Euclid, Ohio, assignor to General Electric Company, a corporation of New York
Application February 10, 1941, Serial No. 378,182
6 Claims. (Cl. 49—47)

1. A lehr for heat treating vitreous tubes comprising a furnace adapted to produce heat treating temperatures above the softening temperature of the tubes, and a conveyor extending through said furnace comprising a series of uniformly spaced rolls disposed in a substantially horizontal position and adapted to support the full length of each of a plurality of tubes placed longitudinally between successive rolls, means for



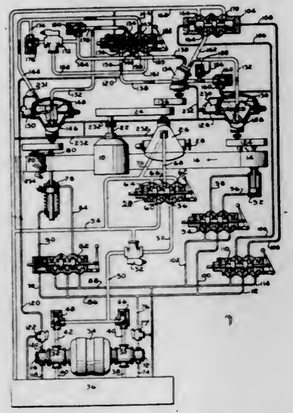
carrying said rolls through the furnace at a desired rate of speed to soften the tubes, and means for rotating said rolls during said movement to cause the tubes to be rotated during the heat treatment so that distorted tubes are straightened by their contact with the rolls.

2,351,263
POWER TRANSMISSION
Ferris T. Harrington and Raymond C. Griffith, Detroit, Mich., and Robert A. Shartle, Rockford, Ill., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application December 30, 1939, Serial No. 311,856
1 Claim. (Cl. 121—45)



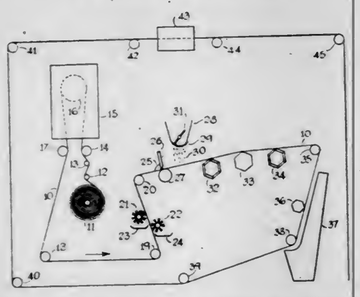
In a hydraulic power transmission system the combination with means forming a source of pressure fluid, fluid motor means connected to the source for operation thereby, a standard control panel connected between the motor and source and of the type having a control member normally shiftable between at least four positions providing rapid traverse forward, feed forward and rapid traverse reverse movement of the motor with a motor stopping position intermediate the forward and reverse positions, a reverse valve connected in series with the control panel, and operating means for the panel and reverse valve and controlled by the motor, said operating means acting to shift the panel control member in opposite directions only as far as the forward and stop positions, respectively, and to shift the reverse valve in sequence to produce a cycle of motor travel including rapid traverse and feed strokes in each direction.

2,351,264
POWER TRANSMISSION
Ferris T. Harrington and James Robinson, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application September 23, 1940, Serial No. 357,896
11 Claims. (Cl. 242—75)



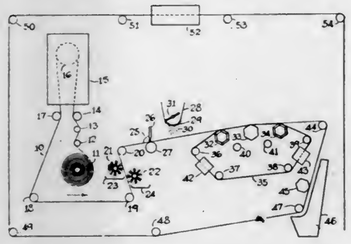
1. In a sectional machine for operating on strip material the combination of a driving section having means for engaging the strip and moving it longitudinally, power means for driving the driving section at a controlled speed, a supply reel section from which the strip is unreeled by the pull of the driving section, and means for controlling the tension of the strip between said sections comprising a variable displacement pump mechanically coupled to the reel section in predetermined speed ratio, a hydraulic motor mechanically coupled to the driving section in predetermined speed ratio, a series hydraulic circuit connecting the pump to deliver all its fluid output to the motor, and means responsive to an increase in pressure in said circuit for reducing the pump displacement to maintain said pressure substantially constant.

2,351,265
FLOCKING OF COTTON AND LIKE FABRICS
Glen Sefton Hiers, Bala-Cynwyd, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 2, 1941, Serial No. 386,427
3 Claims. (Cl. 91—8)



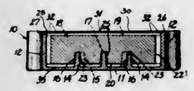
1. In an apparatus for the production of flocked fabrics, the combination of parts which includes means for feeding a base fabric through the device under tension, a drier device through which the base fabric may be fed, a blade for applying the adhesive to the base fabric after it leaves the drying unit, means for distributing pile flock onto the base fabric, and a dielectric beater bar positioned to contact the base fabric on its reverse side.

2,351,266
FLOCKING APPARATUS
Glen Sefton Hiers, Bala-Cynwyd, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 2, 1941, Serial No. 386,429
1 Claim. (Cl. 91—8)



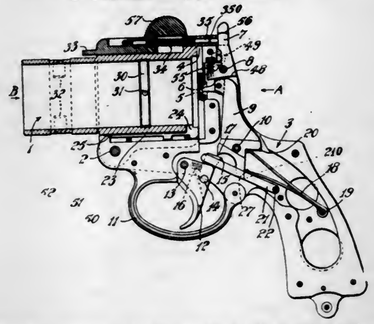
In an electrostatic field generator for flocking fabrics the combination with means for longitudinally feeding a base fabric and means for applying flock fibers thereto of, means comprising a pair of relatively movable members of dielectric materials in frictional contact when in motion for generating an electrostatic field through which the base fabric moves to orient the flock particles deposited on the base fabric, and means for imparting relative motion to said members, one of said members being a rotatable beater and another of said members being an endless web.

2,351,267
CHEMICAL CONTAINER
George C. Irwin, St. Louis, Mo.
Application January 25, 1943, Serial No. 473,577
3 Claims. (Cl. 299—24)



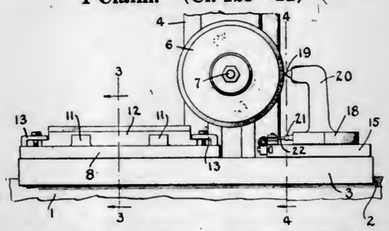
1. In a container of the character described, a perforated casing including a removable closure therefor, provided for receiving a volatile chemical compound in mass form, characterized by a volume less than that of the casing interior, and by spaced, relatively convergent channels of wedge-shape in section, arranged in one face thereof and extending inwardly from the periphery toward the central zone of the compound, and tapered flange elements integral with the casing and extending convergently therein toward the central zone of the casing interior, said flange elements corresponding in number and relative convergence to the channels in the compound, and being adapted for wedging reception in the channels of the compound, the compound channels and casing flange elements cooperating in assembly to frictionally support and substantially center the compound within the casing such that the surfaces of the latter are free of contact with the interior wall surfaces of the casing and closure.

2,351,268
SIGNAL PISTOL
Donald Richard Patrick Jackson, Deptford, London, England, assignor to Molins Machine Company, Limited, Deptford, London, England
Application February 10, 1942, Serial No. 430,299
In Great Britain February 14, 1941
5 Claims. (Cl. 42—41)



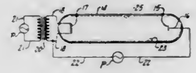
1. In a breech-loading pistol of the type having a body, a barrel pivoted to the body, and a hammer on the body, the combination with a latch for retaining said barrel in firing position with respect to the body, said latch being yieldingly urged to barrel retaining position, of means displaceable with said latch on movement thereof from barrel retaining position for locking said hammer against displacement to cocked position, and a manually releasable spring-pressed detent for locking said latch against unintentional displacement from hammer locking position.

2,351,269
GRINDING WHEEL DRESSER
Henry W. Kropf and Arthur J. Brickner, Muskegon Heights, Mich., assignors to Brickner-Kropf Machine Company, Muskegon Heights, Mich., a corporation of Michigan
Application September 28, 1942, Serial No. 459,930
1 Claim. (Cl. 125—11)



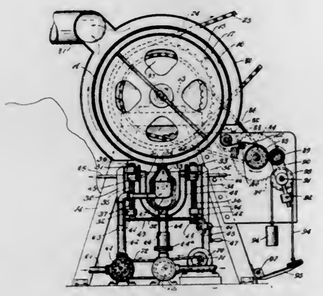
A grinding wheel dresser comprising a horizontal bed adapted to be rigidly attached to the work table of a grinding machine, a dressing tool freely slidable on the upper surface of said bed, a feeler on said dressing tool, a member having a part lying over and against the upper surface of said bed at an edge portion thereof and a part extending downwardly alongside said edge, means for releasably securing said member to said bed, a horizontal screw threading into said member and having a connection with the bed whereby turning said screw will adjust said member to different positions relative to the bed, a templet and clamping means for securing said templet to and over said member, said templet having a projecting portion at the side thereof opposite its templet edge engaged by said clamp whereby upon release of the clamp the templet may be adjusted in a direction at right angles to the adjustment of the member upon which it is mounted.

2,351,270
ELECTRIC DISCHARGE DEVICE AND METHOD OF OPERATION
Eugene Lemmers, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application August 1, 1941, Serial No. 405,060
9 Claims. (Cl. 315—174)



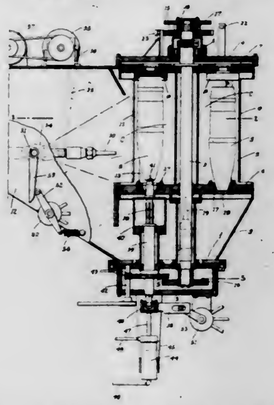
1. A method of producing and controlling intermittent electric discharge through an ionizable atmosphere; which method comprises applying across a main discharge gap between electrodes in said atmosphere a main pulsating voltage of peak value sufficient to sustain discharge across said gap, but insufficient to initiate such discharge; intermittently applying across a gap between electrodes in said atmosphere an ionizing potential sufficient to initiate a discharge thereacross, which ionizes said atmosphere and thus ignites a main discharge pulse under said main pulsating voltage; and timing the intermittent application of said ionizing potential to allow the ionization accompanying each main discharge pulse ignited as aforesaid to die out before ignition of the next succeeding main discharge pulse.

2,351,271
METHOD OF AND APPARATUS FOR DEPOSITING FILMS
Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application November 27, 1940, Serial No. 367,436
7 Claims. (Cl. 18—15)



1. Apparatus for progressively depositing a continuous film of material from a liquid dispersion thereof upon a surface, said apparatus comprising means for moving the surface progressively past a station, an upwardly directed nozzle located at said station below the path of said surface and in spaced relation and normal thereto for accommodating a copious flow of the dispersion against said surface and overflow both forwardly and rearwardly of the nozzle with respect to the direction of surface movement, and means for projecting a copius continuous flow of said dispersion through said nozzle in continuous contact with said surface and in an excess to provide said overflow.

2,351,272
SANDBLASTING MACHINE
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application June 23, 1942, Serial No. 448,091
16 Claims. (Cl. 51—15)



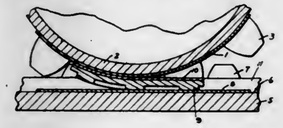
1. In a sand blasting machine, a horizontally movable platform, drive means to move the platform through a predetermined path, said platform having a plurality of openings therethrough in spaced alined relation lengthwise of said path, the platform being adapted to support a plurality of upstanding hollow members open at the lower end, and separately in register at said end with the openings, a pair of sand blast nozzles, one disposed to discharge into the interior of one of said members through the corresponding opening and the other disposed to simultaneously discharge against the exterior of one of said members, control mechanism for the drive means arranged to effect step by step movement of the platform and a predetermined time lag between each step, said openings successively aligning with said one nozzle upon such movement of the platform, and means to rotate said members when each has moved to position for blasting by said other nozzle; said last named means including a driven spindle disposed below the platform in position to aline with said openings at each step, and means to elevate the spindle when the platform is stationary whereby said spindle projects through one of said openings, and engages and rotates the corresponding member.

2,351,273
RUNWAY FOR AIRPORTS AND THE LIKE AND METHOD OF MAKING SAME
Glenn C. Littlefield, Monterey, Calif., assignor of one-half to Mary H. Littlefield and one-half to Joseph P. Mayo, both of Monterey, Calif.
Application November 14, 1942, Serial No. 465,582
8 Claims. (Cl. 94—2)



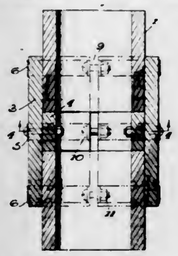
1. The method of making a turf-covered runway, landing field, or the like, that comprises the steps: substantially leveling the ground soil of the desired area for such runway; planting a runner forming, binder grass in said leveled soil at a plurality of points distributed throughout said area and spaced from each other such distances as are within the capacity of the grass runners to cover the soil in said area with turf; spreading a substantially uniform layer of rock particles over the turf covering said area after said turf is formed; permitting the runners from said turf and grass to grow through said layer of rock and thereover until a second turf is formed over said layer whereby a double layer of turf is formed above said ground with a uniform layer of rock therebetween.

2,351,274
REGISTERING DEVICE FOR PRINTING
William L. McCarter, Hanford, Calif.
Application November 9, 1942, Serial No. 464,995
5 Claims. (Cl. 33—184.5)



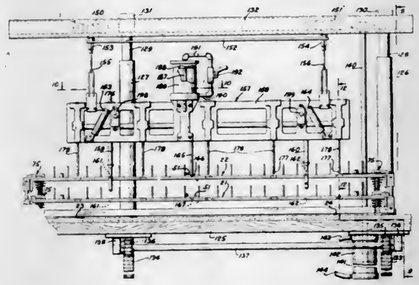
1. In combination with a flexible removable covering adapted to be secured to a printing cylinder, a cylindrical registering member adapted removably to carry said covering about the periphery thereof and adapted to have type elements secured thereto, a copy holding tray presenting a plane type positioning surface of an area comparable to that of the area of said covering, longitudinal guides and a notched flange extending along one side of said base, said cylindrical member with the covering attached thereto being adapted to be rolled longitudinally over the type positioning surface of said base, a notched cylindrical member secured to one end of said cylindrical member and adapted for engagement with said notched member, whereby said cylindrical member is maintained in alinement and registration with said base when it is rolled over the latter.

2,351,275
PORTABLE MAST
Frederick Louis McConnel, Emporia, Va.
Application July 10, 1942, Serial No. 450,479
2 Claims. (Cl. 20—99)



1. A portable mast including a plurality of imperforate, laminated, plywood, tubular sections composed of thin sheets of veneer secured together by an adhesive and a coupling connecting the adjacent ends of the mast sections and comprising laminated plywood semi-tubular sections spaced apart at their longitudinal edges and arranged in overlapping and clamping relation with the ends of the mast sections and spaced apart at opposite sides thereof, spacing and shoulder forming semi-tubular members interposed between the ends of the mast sections and consisting of divided plywood tubes, said semi-tubular members being located within the clamping sections of the coupling and spaced apart at the spaced longitudinal edges of the coupling sections, intermediate and end metal clamping bands composed of sections having their terminals located at the spaced edges of the coupling sections, adjustable fastening devices connecting the ends of the clamping band sections and maintaining the coupling sections in clamping relation with the mast sections, and separate fastening devices piercing the intermediate band sections and the spacing and shoulder forming members and located between and spaced from the ends of the imperforate mast sections and securing the said spacing and shoulder forming members and the coupling sections together, the spacing and shoulder forming members being of material axial length and the coupling being adapted to impart flexibility to the mast to permit whipping and bending of the same without breakage.

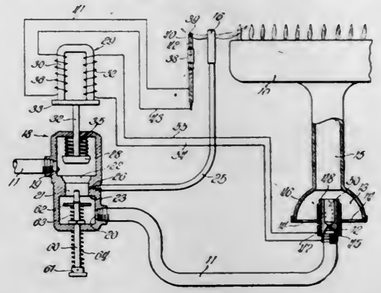
2,351,276
ARTICLE ASSEMBLING APPARATUS
Eugene L. Malhiot, Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1942, Serial No. 465,940
13 Claims. (Cl. 29—84)



1. The combination of a fixture including separable plates one of said plates provided with means for supporting articles during their assembly and the other plate being movable for stripping articles from said plate and said means, with stripping mechanism for moving said movable plate comprising a trackway adjacent said fixture, a stripper carrier supported by and movable along said trackway to a position to align said carried with said fixture, and means supported by said carrier for engaging and moving the movable plate of the fixture to strip articles from the fixture.

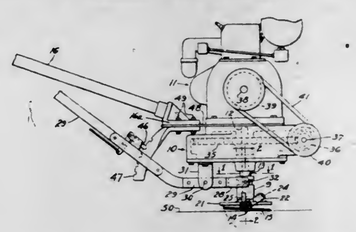
2,351,277
SAFETY DEVICE
Harold A. Mantz, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 20, 1940, Serial No. 336,090
8 Claims. (Cl. 158—117.1)

6. In a fuel supply control system, a main burner, a fuel supply pipe connected to said burner, an automatic shutoff valve yieldingly urged closed for controlling flow of fuel to said burner, a pilot burner, means comprising an armature attached to said shutoff valve, and an electromagnet effective, when energized, for holding said shutoff valve open, said electromagnet comprising a magnet frame and a pair of windings each independent of the other, a thermoelectric generator adapted to be heated by the flame of the pilot burner for energizing one of said windings of said electromagnet to hold said armature in attracted position and said shutoff valve open, and a second thermoelectric generator disposed to be subjected to the heat of a flame at the point of admission of fuel to said



main burner, said second thermoelectric generator being connected in circuit with the other winding independently of the thermoelectric circuit including said first thermoelectric generator and acting, when heated by the latter flame, in opposition to said first thermoelectric generator.

2,351,278
FLOOR FINISHING MACHINE
Lee G. Mathews, Los Angeles, Calif.
Application April 27, 1942, Serial No. 440,665
7 Claims. (Cl. 94—45)

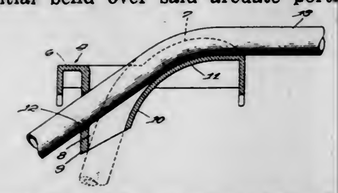


1. A device of the kind described comprising a plurality of trowels, a frame, a rotatable mounting means carried by said frame whereon each of said trowels is pivotally supported in a horizontally offset relation to its axis for tiltable adjustment, means to rotate said mounting means together with said trowels over the surface of the floor, and means to tiltably adjust said trowels and maintain them in adjusted position during their rotation, the weight of said frame being supported by said trowels at points located adjacent to the vertical planes occupied by the trailing edge portions of the latter.

2,351,279
PIPE BENDER
Albert J. Matter, Park Ridge, Ill., assignor to The Nye Tool & Machine Works, a corporation of Illinois
Application July 15, 1942, Serial No. 450,983
1 Claim. (Cl. 153—32)

A supporting member having an opening, an arcuate portion over which to bend a pipe located at one side of said opening and means at the opposite side of said opening disposed at different elevations and in line with said arcuate portion for engagement in succession with the end of the pipe at which it is to be bent over said arcuate portion, whereby a pipe engaging

said means at the higher elevation may be given an initial bend over said arcuate portion and

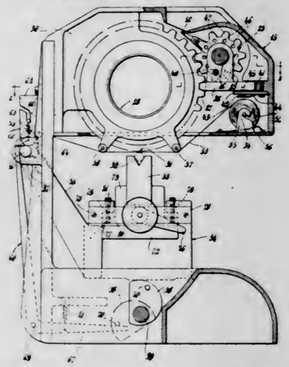


when repositioned for engaging said means at the lower elevation may be given a greater bend over said arcuate portion.

2,351,280
LUBRICANT
John D. Morgan, South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
No Drawing. Application July 16, 1942, Serial No. 451,219
8 Claims. (Cl. 252—35)

1. A lubricant comprising a major portion of an alkyl benzoate as a base lubricant and a small amount of a lithium soap blended therewith to produce a stable grease.

2,351,281
STAMPING MACHINE AND THE LIKE
Leonard Nachemov, New York, N. Y., assignor to Abraham J. Sossner, Theodore T. Sossner, and Nettie Sossner, copartners doing business as Sossner Steel Stamps, New York, N. Y.
Application April 27, 1943, Serial No. 484,693
1 Claim. (Cl. 101—110)



In a machine of the character described, the combination of a frame, a shaft mounted on the frame, a series of gear wheels carried on the shaft loosely for rotation thereon; said wheels having an identical number of teeth and teeth of each wheel having characters thereon from which an impression can be made, a driving gear mounted slidably along its axis on the frame; said driving gear being adapted to be positioned in engagement with any of said wheels of the series one at a time whereby each of the wheels of said series is individually turnable whereby a selected tooth on same present in sequence characters in alignment composing the matter to be impressed, a plate member slidable with the driving gear, adapted to lie between aligned rows of successive teeth respectively of said wheels whereby said wheels are locked against rotation; said plate member having a slot co-planar with the driving gear through which slot the particular wheel in engagement with the driving gear is free to revolve unrestrained by the plate member; the driving gear being provided with a series of sockets arranged in a circle thereon; the spacing of said sockets being as the spacing of the teeth of said driving gear, a rotatable shaft slidably mounted on the frame in parallel relation with the shaft carrying the wheels, a bracket carried on said rotatable slidable shaft; the plate member being secured to the bracket and the driving gear being securely carried on said rotatable slidable shaft, a spring mounted on the bracket, a ball positioned between spring and driving gear and in contact with said driving gear along the line of the sockets; the spring being adapted to maintain the ball against said driving gear and said ball being adapted to engage said driving gear in the respective sockets consecutively upon movement of said driving gear about its axis upon rotation of said slidable rotatable shaft, to assure proper movement of the wheel engaged by the driving gear the distance of one tooth of said wheel and whereby upon approach of a socket to the ball, movement of the driving gear is automatically accelerated by action of the spring in shifting the ball into the approaching socket.

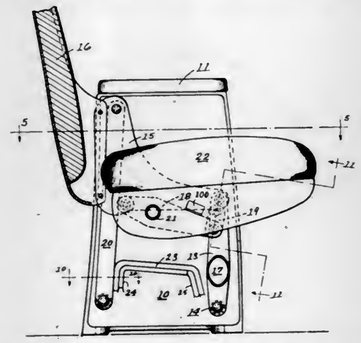
2,351,282
MICROSCOPIC SLIDE
William Harold Oliver, Jr., Oakland, Calif.
Application April 27, 1940, Serial No. 332,002
1 Claim. (Cl. 88—40)



A microscope slide for confining a living microbe or cell within a restricted area on a predetermined plane comprising: a transparent plate formed with an object-receiving chamber defined by straight side walls and an optically flat floor not greater than one centimeter in width or length, and with a countersink over said chamber for the reception of a cover slip, said countersink being formed with a pocket adjacent said object-receiving chamber for the reception of an oxygen liberating agent so that oxygen generated in said pocket can pass between the floor of said countersink and said cover slip into said object-receiving chamber.

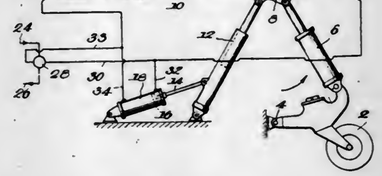
2,351,283
CHAIR
Merritt K. Orton, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application December 16, 1940, Serial No. 370,365
10 Claims. (Cl. 155—115)

8. A chair comprising a pair of spaced vertically disposed standards; a chair back interposed between the standards whose opposite sides are each provided with a forwardly extending portion; a pair of upwardly extending arms, each pivotally connected at its lower end to a standard and each pivotally connected at its upper end to a forwardly extending portion of the chair back; an equalizing strut interposed between the upwardly extending arms; a pair of upwardly extending links disposed rearwardly of the upwardly extending arms, each pivotally connected at its lower end to a standard and each pivotally connected at its upper end to a side of the chair back; a pair of toggles, each having one of its links pivotally connected to a side of the chair back below the pivotal connection of an upwardly extending arm and each having its other link pivotally connected to an upwardly extending arm; a strut interposed between like links of the toggle; a seat tiltably supported on the strut;



and a stop interposed between each upwardly extending arm and each upwardly extending link adapted to engage an arm or a link for limiting the forward-rearward movement of the seat and back.

2,351,284
AIRCRAFT CONSTRUCTION
John W. Overbeke, Anneslie, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application May 29, 1940, Serial No. 337,818
4 Claims. (Cl. 244—102)



1. In combination with a retractable landing gear for aircraft including a trolley movable along a track into engagement with a locking mechanism, said mechanism comprising a housing adapted to receive said trolley, trigger means mounted within said housing for locking engagement with said trolley, means for operating said trigger means, and spring biased latch means actuatable by movement of said trolley for releasing said trigger from a latched non-locking position for movement into locking engagement with said trolley.

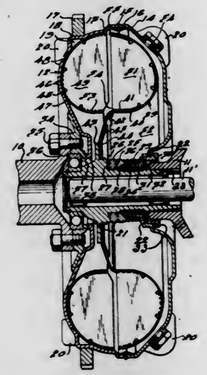
2,351,285
WINDOW REGULATOR MECHANISM
John B. Parsons, Toledo, Ohio
Application October 20, 1942, Serial No. 462,676
5 Claims. (Cl. 268—125)

1. A regulator for a vehicle window comprising a swinging arm adapted to be operatively connected to the window, a pivotal mounting for the inner end of the arm, an arcuate cam guide in advance of and eccentric to said pivotal mounting, a member in fixed relation to and movable with said arm and engaging said cam guide during swinging movements of the arm, and means to apply actuating force to said member, said last means including a piston pivoted



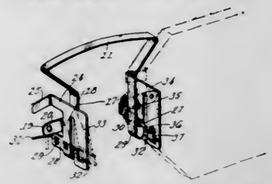
to said member for moving the arm in one direction and a spring for moving the arm in the opposite direction.

2,351,286
FLUID COUPLING
Gordon R. Pennington, Bloomfield Hills, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 13, 1940, Serial No. 334,755
1 Claim. (Cl. 60—54)



In a fluid coupling, a rotatable casing including a sheet metal wall having an annular dish-shaped portion, and a central opening, a part of said wall portion being deflected relative to an adjacent part to form an annular seat on the external surface thereof and a registering internal pocket, a ring gear on said seat, an annular dish-shaped sheet metal vane carrying member received in said wall dish-shaped portion and drivingly secured thereto, said member extending across said pocket, and a hub-like member for drivingly securing the casing to a coupling driving means having an attaching face abutting the external surface of said dish-shaped wall portion at a point intermediate said seat and the axis of rotation of the casing and welded thereto, said hub-like member having a central journalling opening therein and an attachment-receiving body intermediate its attaching face and central opening provided with spaced attachment receiving openings, said wall overlapping said perforated body in spaced relation thereto and having the edge portion at said opening deflected generally longitudinally with respect to said axis, the end face of said deflected edge portion abutting said hub-like member in fluid tight relation therewith, and attaching studs respectively threaded into said attachment receiving openings and removable therefrom when the hub-like member is welded to said casing wall as aforesaid.

2,351,287
SUNGLASS ATTACHMENT FOR EYEGLASSES
Ellsworth Reichert, Baldwin, Md.
Application December 31, 1941, Serial No. 425,195
10 Claims. (Cl. 88—41)



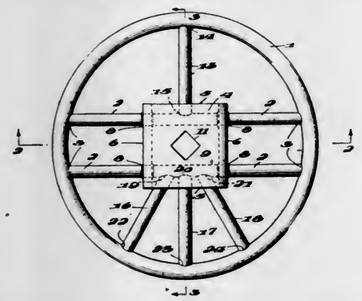
9. A frame for cover glasses, comprising a bow spring, a pair of lens mountings connected to opposite sides of said bow spring, a pair of permanent glass engaging members, each member including a pair of spaced hooks projecting laterally of one of the lens mountings, one hook of each pair being movably mounted on said frame, and finger-engaging members carried by said frame and connected to said last-mentioned hooks, said members being arranged in substantially parallel relation to each other whereby they may be grasped between the thumb and forefinger to actuate the movable hooks and thereby move the latter away from the other hooks to facilitate attachment and removal of the cover glasses from the permanent glasses.

2,351,288
CONCRETE PILE
Harry Gordon George Greatorex Riches, Singapore, Straits Settlements, assignor to Shaw Darby & Company Limited
Application November 17, 1939, Serial No. 305,034
In Great Britain November 22, 1938
3 Claims. (Cl. 61—56)



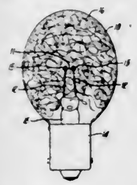
1. A pair of similarly shaped concrete pile units each having an end shaped to engage and interlock with an end of the other in a spigot and socket manner, each unit having imbedded longitudinal reinforcing members some of which extend beyond the spigot end of the respective units, the spigot receiving socket portion of each unit being axially extended to receive the protruding end portions of the reinforcing members, and transverse locking means passing through the shaped ends of adjacent units and interlocking with imbedded portions of the reinforcing members of both units, said socket extension being filled with concrete to imbed the protruding ends of said reinforcing members.

2,351,289
TUBULAR STEERING WHEEL OR THE LIKE AND PROCESS OF MAKING SAME
Arthur Rickard, Dallas, Tex., assignor to Universal Building Products Corp., Dallas, Tex.
Application October 29, 1942, Serial No. 463,806
8 Claims. (Cl. 29—159)



1. In a method of making steering wheels comprising the steps of forming a plurality of hollow tubes of different lengths from sheets of high carbon steel, forming a wheel rim from one of said tubes and spokes of different lengths from others of said hollow tubes, forming a box-shaped head from another of said steel sheets, providing aligned apertures in said head, threading said longer spokes through said apertures, welding intermediate portions of said spokes in said apertures, and welding the ends of said spokes to said wheel rim, and welding a plurality of smaller spokes at their respective ends to said wheel rim and to the portions of said longer spokes located between said aligned apertures of said box-like head.

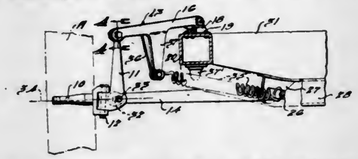
2,351,290
FLASH LAMP
Francis J. Rippl, Cleveland, and Elmer B. Isaac, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application April 8, 1942, Serial No. 438,198
4 Claims. (Cl. 67—31)



1. In a flash lamp of the character described comprising a sealed light transmitting container, a combustible filling material consisting of a fluffed out mass of fine metallic strands having burrs thereon serving to render said strands more easily ignitable.

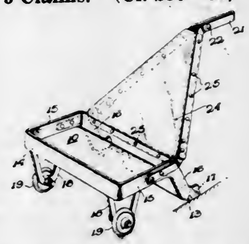
2,351,291
MOTOR VEHICLE SUSPENSION
Albert W. Ross, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 16, 1940, Serial No. 365,994
8 Claims. (Cl. 267—20)

1. In a suspension for a motor vehicle ground wheel, a wheel carrying structure including a spindle and an upright arm; supporting and guiding means for said structure including an upper arm pivotally connected to the upper end portion of said upright arm and the vehicle frame and having means depending therefrom disposed between the upright arm and the vehicle frame, a lower arm pivotally connected to the lower end



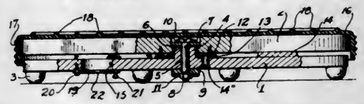
portion of said upright arm and the vehicle frame, the connection between said lower arm and said upright arm lying approximately in a horizontal plane containing the axis of said spindle, and a coil spring secured to said depending means and said lower arm and extending generally transversely of the vehicle.

2,351,292
HOT TAR ROOF CART
William R. Rose, Arlington, Va.
Application July 9, 1943, Serial No. 494,066
5 Claims. (Cl. 280—60)



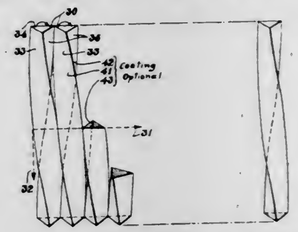
1. A hot tar roofing cart including a body adapted to receive a container of hot tar and having its bottom wall continued at the rear side of the body to form an apron sloping rearwardly and downwardly from the body for directing by gravity onto a roof hot tar spilled in the body, said apron terminating in a foot to contact the roof and of a length coextensive with the apron to afford distributed frictional drag against the roof for holding the cart stationary when at rest, and wheels supporting the body for movement over the roof.

2,351,293
EXERCISER
Bertha Saunders, Los Angeles, Calif.
Application December 27, 1941, Serial No. 424,567
4 Claims. (Cl. 272—57)



1. An exercising device having an upper rotatable plate means and subjacent means of support therefor, pivot means at the center of the plate means and subjacent means, spacer means at the pivot means fixed to one of the aforementioned means intermediate the plate means and the subjacent means and radially spaced from the pivot means, and a plurality of bearing blocks spaced apart in a circular row intermediate the center and perimeter of the device to provide friction and stability to the device.

2,351,294
TELEVISION VIEWING SCREEN
Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application October 17, 1940, Serial No. 361,503, now Patent No. 2,302,147, dated November 17, 1942. Divided and this application March 24, 1942, Serial No. 435,928
6 Claims. (Cl. 178—5.4)

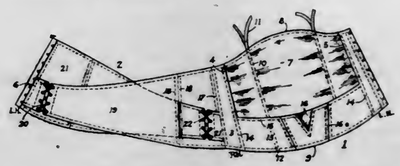


1. A viewing screen scanned by a beam of light for television reception comprising an equilateral prism having similar warped lateral surfaces each being of a material which liberates light of a different color from the others when scanned by said beam.

2,351,295
METHOD OF RINSING SOAP FROM WASHED CLOTHING
Albert Schellenberg, Joliet, Ill.
No Drawing. Application March 27, 1941, Serial No. 385,467
2 Claims. (Cl. 8—137)

1. The method of rinsing alkali soap from washed fabric in a rinsing bath containing a metallic salt of a character so as to react with alkali soap to form an insoluble metallic soap, said method comprising squeezing the soap-containing fabric into a compressed mass to expel most of the alkali soap solution from the fabric and leaving a small amount of alkali soap in the fabric, quickly passing the compressed fabric under the surface of the rinsing bath to provide complete saturation of the fabric by its expansion from compressed condition, flexing the fabric under the surface of the bath and continuing its movement therethrough to rinse out at least a portion of the soap in the fabric, the passage of the fabric into, through and out of the bath being continuous and completed in less than one minute so that the retained alkali soap in the fabric is not converted to insoluble metallic soap.

2,351,296
MATERNITY SUPPORT GARMENT
Minna R. Schubert, Saginaw, Mich., assignor to Le Monde Corset Company, Saginaw, Mich., a corporation of Michigan
Application January 4, 1943, Serial No. 471,311
7 Claims. (Cl. 2—41)



1. A maternity garment having side panels and a body portion comprising a front panel of soft

fabric formed with gathers along its side marginal hems and having intermediate upright pull cords adapted to change at will the height of said soft panel; a girdling support member overlying the lower region of said front panel, its side and bottom edges being secured to the marginal side and bottom hems of the panel, its upper marginal edge being free; a V-shaped extensible means inserted in the girdling member at mid length thereof, being adapted for greatest extension near its top margin and less toward the bottom; the back portion of said garment comprising two bands tapered lengthwise and extending across the wearer's back in overlapped arrangement from one side diagonally downward to the opposite side at the hip region, the narrow end of one of said bands and the wide end of the other being secured to an upright seam of a side panel of the garment at the said hip bone region, girth adjusting means in the narrow end portion of each band; one of said bands being formed with a slit near its wide end slidingly receiving the narrow end portion of the other band, thereby permitting movements of said overlapping bands relatively to each other in their lengthwise direction.

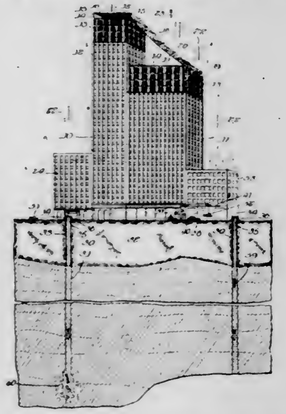
2,351,297

DEVICE FOR PROTECTION OF MUNICIPALITIES AGAINST INCENDIARY BOMBS AND DELAYED-ACTION BOMBS

Martin C. Schwab, Chicago, Ill.

Application September 27, 1941, Serial No. 412,584

6 Claims. (Cl. 109—49.5)



1. In a building construction, devices for protecting said building against incendiary bombs, comprising a wire netting extending above the top of said building, a plurality of posts mounted along the edge of the roof of said building and supporting said wire netting, and a plurality of bags filled with sand covering said netting.

2,351,298

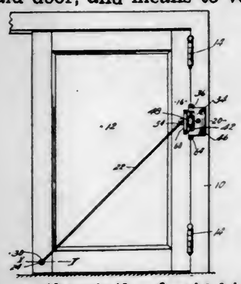
ADJUSTABLE DOOR STAY

Sixten Shogran, Kansas City, Kans.

Application March 29, 1943, Serial No. 481,042

5 Claims. (Cl. 16—138)

3. An adjusting means for a door hinged for horizontal oscillation to a jamb comprising a rigid tension rod connected to the free edge portion of the door and extending diagonally upwardly therefrom to an ear of a hinge member carried by said jamb, said hinge member having a pintle disposed in axial alignment with the axes of the hinges of said door, and means to vertically adjust said ear on the pintle of said hinge member whereby the tension rod is adjusted to vertically adjust the outer edge of said door.



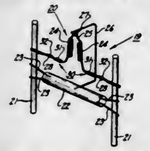
2,351,299

FILAMENT CONNECTION FOR ELECTRIC LAMPS

Richard E. Smith, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application October 11, 1943, Serial No. 505,734

6 Claims. (Cl. 176—38)



6. In an electric lamp, the combination of a lead-in wire, a filament having an end coil provided with a widely open-coiled section, and a spud wire extending through the said end coil, the spud wire and open coil section having portions thereof extending transversely across said lead-in wire in side-by-side relation and being individually welded thereto at different points along the length of said lead-in wire.

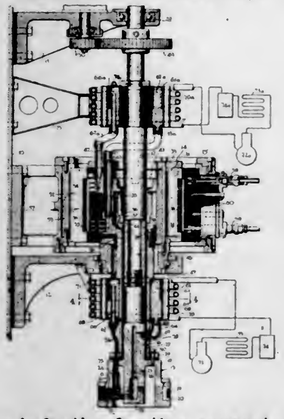
2,351,300

INDUCTION HEATING APPARATUS

Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan

Application May 25, 1942, Serial No. 444,344

13 Claims. (Cl. 219—13)



1. In an induction heating apparatus, a rotatable support and a heating element secured to said support for rotation therewith and having a passage therethrough provided with an inlet and an outlet, means for cooling said heating element comprising a condensing element fixed to said support for rotation therewith, said condensing element having a chamber therein adapted to contain a vaporizable liquid refrigerant, a connection from said chamber to said inlet for conducting liquid refrigerant thereto, a connection from said outlet to said chamber for conducting refrigerant vapors thereto from said heating element, and means for rotating said support.

2,351,301

PLASTIC COMPOSITION

Harold Marvin Sonnichsen, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 2, 1941, Serial No. 409,267

8 Claims. (Cl. 260—36)

1. An elastic, resilient, rubber-like molded article free from water and composed essentially of a substantially homogeneous mixture of a partial ester of polyvinyl alcohol wherein 15 to 65% of the hydroxyl groups are esterified and a compound of the formula $RO(CH_2CH_2O)_nR'$ wherein R and R' designate members of the group consisting of hydrogen and alkyl radicals and n is an integer of from 2 to 10, said mixture containing 35 to 50% by weight of said polyvinyl alcohol and 65 to 50% by weight of said compound.

2,351,302

PRODUCTION OF METHYL GLYCEROL

Hanns Peter Staudinger, Ewell, and Karl Heinrich Walter Tuerck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application March 12, 1941, Serial No. 383,028. In Great Britain March 18, 1940

2 Claims. (Cl. 260—635)

1. The manufacture of alphamethylglycerol from the reaction mixture obtained by the oxidation of crotonaldehyde in the presence of water and at a temperature below about 40° C. and containing alphamethylglyceraldehyde, which comprises subjecting said reaction mixture to hydrogenation by treatment in the presence of alcohol with hydrogen under superatmospheric pressure and at a temperature not in excess of 100° C. and in the presence of a hydrogenation catalyst, and recovering the alphamethylglycerol so formed.

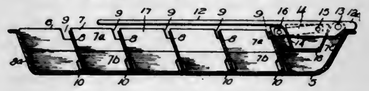
2,351,303

APPARATUS FOR HARVESTING ICE

Richard M. Storer, Denver, Colo., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application February 16, 1937, Serial No. 125,997

6 Claims. (Cl. 62—108.5)



5. In combination, a tray having an inclined wall, a unitary grid structure removably disposed in said tray, said grid structure comprising a longitudinal member and a plurality of spaced apart substantially non-flexible members extending transversely thereto and cooperating therewith to form compartments on each side of said longitudinal member in which a liquid is frozen into individual ice blocks, said transverse members being mounted for movement relative to said longitudinal member, an element on the grid adapted to engage said transverse members and impart movement thereto in a direction toward the inclined tray wall to break the bond between the ice blocks and said tray and grid, and an operating lever pivotally mounted on the grid and having a connection with said element for moving same, said lever acting directly on the grid only.

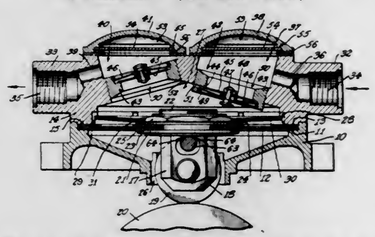
2,351,304

FLUID TRANSFER APPARATUS

Warner T. Tabb, Brooklyn, N. Y., assignor to Eisemann Corporation, a corporation of Delaware

Original application October 22, 1940, Serial No. 362,179. Divided and this application March 17, 1942, Serial No. 435,117

8 Claims. (Cl. 103—203)



1. Fluid transfer apparatus comprising, in combination, a casing, a flexible diaphragm peripherally supported on said casing and cooperating therewith to form a pump chamber above said diaphragm, inlet and outlet passages in the top of said casing, valves located in the passages with the seat of the inlet valve inclined with respect to a horizontal plane, the portion of said inlet valve seat at highest elevation being adjacent said outlet valve with at least a portion of the latter being located above the portion of the inlet valve which is at highest elevation whereby indrawn relatively light fluid or gases that would otherwise tend to collect immediately below said inlet valve will pass to said outlet valve and escape therethrough, there being no intervening structure to interfere with such flow.

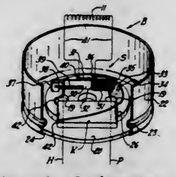
2,351,305

DISCHARGE LAMP BASE AND STARTER

Richard N. Thayer, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application February 14, 1942, Serial No. 430,894

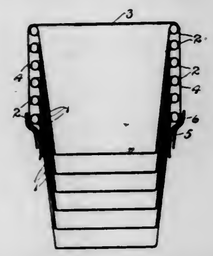
2 Claims. (Cl. 176—126)



1. A base or terminal structure for an electric discharge device having therein a discharge electrode, said structure comprising a disc provided with contact terminals exposed at one side of the disc, switch means comprising a contact and a flexible bimetallic strip anchored by one end at the

other side of said disc and exposed to the ambient temperature there, and having its free end retroverted and extending back toward the anchored end for coacting with said contact, said strip being arranged to flex toward said contact at its retroversion with rising temperature there while flexing away from said contact adjacent its anchorage with rising temperature there, an electric heater for locally heating said bimetallic strip adjacent its anchorage substantially without directly heating its retroversion, and means for connecting said switch means, said electrode, and said heater in circuit between said contact terminals.

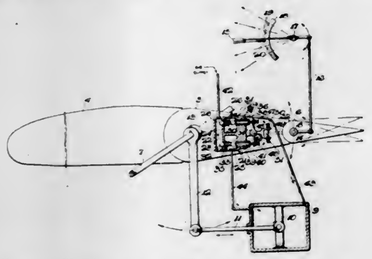
2,351,306
PACKAGE
Howard B. Tuthill, Grand Rapids, Mich., assignor to Oliver Machinery Company, Grand Rapids, Mich., a limited partnership of Michigan
Application October 19, 1942, Serial No. 462,573
1 Claim. (Cl. 206—65)



A package comprising a plurality of nested cup-like articles each having a closed bottom, upwardly and outwardly diverging sides, and an open upper end, each of said articles around its upper end having an annular outwardly extending rim, a covering member of thin flexible material and of substantially circular form located centrally over the upper open end of the uppermost article in the package and having marginal portions turned downwardly and with portions thereof overlapping other portions to enclose and cover the upper ends and said rims therearound of all of said articles, said depending portions of the covering member terminating a short distance below said upper rim of the lowermost article in the package, and a sealing strip comprising a band of thin flexible material having vertical spaced slits therein from its upper edge downwardly for a distance approximately one-half of the width of the strip and pressing against the lower portions of the depending sides of said covering member, said vertical slitting of the sealing strip providing upwardly extending tongues which separate and spread upon engaging the upper end portion of the lowermost article in said package around the rim thereof, and said sealing strip being secured in an endless band around the package below and against the upper end rim of the lowermost article.

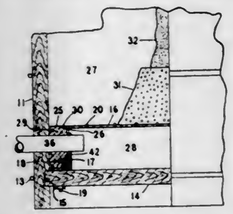
2,351,307
CONTROLLING MECHANISM
Stephen Vorech, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application August 18, 1941, Serial No. 407,363
19 Claims. (Cl. 244—85)

1. The combination with an airplane having a fixed airfoil, a second airfoil pivotally mounted on said first airfoil and a third airfoil pivotally mounted on said second airfoil, of means for controlling the operation of said second and third named airfoils with respect to said first named airfoil including power means for operating said second named airfoil, manually controlled means



for operating said third named airfoil, and means controlled by the relative movement of said second and third named airfoils for controlling the energization of said power means including a power controlling element responsive to the power supplied to the power means for apprising the operator of the degree of energization thereof.

2,351,308
FILTER UNDERDRAIN
Edward W. Welp, Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc., a corporation of Delaware
Application March 1, 1943, Serial No. 477,670
5 Claims. (Cl. 210—124)

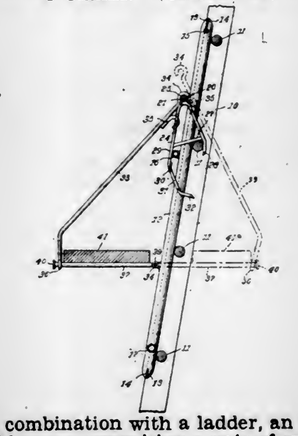


1. Apparatus of the filter type comprising a series of wood staves assembled to form a substantially cylindrical wall, a bottom to close a lower part of said wall and thereby to form a tank, a flat, circular steel plate of slightly smaller diameter than the inner diameter of said wall, said steel plate having numerous small openings regularly distributed over a major part thereof, which part is concentrically and centrally disposed with respect to said plate, and said steel plate being disposed in said tank substantially concentrically with respect to said wall and bottom and spaced above said bottom, whereby there are formed in said tank a treatment chamber overlying the top plane of said plate, an underdrain chamber underlying said major part of said plate, and an annular zone around said underdrain chamber and below said treatment chamber, means comprising a seal and support ring to hold said plate disposed and spaced as aforesaid and to seal said treatment chamber from said underdrain chamber, said ring being installed in said annular zone, a conduit communicating with said underdrain chamber and extending through said ring and wall to the outside of said tank, and at least one conduit communicating with said treatment chamber and extending to the outside of said tank.

2,351,309
BOTTLE LABEL ADHESIVE
Robert C. White, Bainbridge, N. Y., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 24, 1943, Serial No. 476,979
6 Claims. (Cl. 106—146)

1. An adhesive paste suitable for labeling bottles, such adhesive containing water as its largest component, casein, an organic amide in an amount which is a major fraction only of the amount of said casein, said amide constituting the major component of the casein dissolving agent, a zinc compound in an amount which is only a minor fraction of the amount of said amide, and a water soluble alkaline solvent in an amount that, with said amide, will dissolve said casein, and fine linseed meal in an amount less than the amount of said casein, such adhesive paste being free from added alkaline-earth bases, and having a working life of at least several months, and such adhesive paste giving to paper labels attached therewith to glass bottles and dried, the property of resisting the action of ice water and water at about normal room temperature, for at least several days.

2,351,310
ADJUSTABLE SCAFFOLD HANGER FOR LADDERS
William C. Yarmolowich, Alliance, Ohio, assignor of one-fourth to Louis Bacon, Alliance, Ohio
Application August 7, 1943, Serial No. 497,760
8 Claims. (Cl. 304—10)



1. In combination with a ladder, an adjustable scaffold hanger comprising a pair of spaced, parallel longitudinal members for longitudinal sliding movement upon the rungs of the ladder, said longitudinal members being of a length sufficient to span at least three rungs of the ladder, cross braces connecting said longitudinal members together, a transverse pivot pin connected to the upper portions of the longitudinal members and projecting beyond the sides of the ladder, a U-shape rod pivotally connected to the lower portions of the longitudinal members, tie rods pivotally connected to the legs of the U-shape rod and having hooks at their upper ends for engaging said pivot pin to support the legs of the U-shape rod in horizontal position, a scaffold plank supported upon said legs of the U-shape rod, and a catch carried by the pivot pin for engagement with a rung of the ladder for holding the hanger in adjusted position upon the ladder, said catch providing the only connection between the scaffold hanger and the ladder.

2,351,311
CONDENSATION PRODUCT
Kurt Alder and Hans-Ferdinand Rickert, Cologne, Germany; vested in the Alien Property Custodian
No Drawing. Original application December 17, 1938, Serial No. 246,492. Divided and this application May 24, 1941, Serial No. 395,000. In Germany December 22, 1937
7 Claims. (Cl. 260—648)

1. The process of producing diene-synthesis products which comprises reacting a hydrocarbon compound containing two conjugated C=C double linkages with a halogenated ethylene compound of the formula:



wherein X stands for halogen and R_1 and R_2 each stand for a member of the group consisting of halogen and hydrogen, the reaction being performed by heating a mixture of said compounds under such conditions as to prevent any substantial polymerisation.

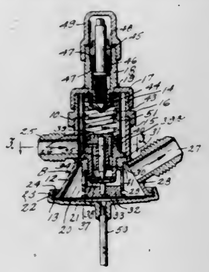
2,351,312
GATE VALVE
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Houston, Tex., a corporation of Texas
Application April 15, 1942, Serial No. 438,970
13 Claims. (Cl. 251—68)

1. In a gate valve, a body having a flow passage therethrough, a gate movable laterally with respect to said flow passage to close and open the same, variable mechanical advantage means including a link and a pivotal connection between the link and gate for moving said gate toward closed position with an increasing mechanical advantage as the gate approaches closed position, and means on the link engaging a surface on the gate at a region spaced from said pivotal connection for forcing said gate against its seat at the end of its closing movement.

2,351,313
THERMOSTATIC EXPANSION VALVE
August P. Anderson, Goshen, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application September 16, 1941, Serial No. 411,023
4 Claims. (Cl. 137—153)

1. In a thermostatic expansion valve, a body member, a diaphragm therein, a diaphragm guide mounted in said valve body, a diaphragm follower guided thereby, a valve unit in said valve body comprising a body element having removable screw-threaded connection with said diaphragm guide and a plurality of openings there-

in, said valve unit including a valve pin slidable in one of said openings, a guide pin slidable in another of said openings and a head connecting said pins together, said body element having a shouldered part, and a valve disc mounted there-



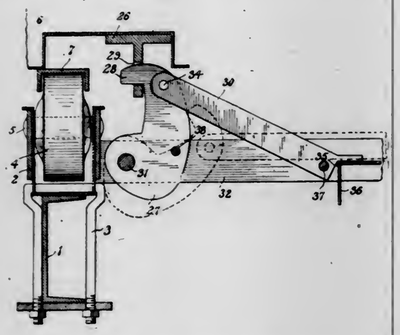
in and provided with a valve seat for coaction with said valve pin, the annular marginal edge of said body element being bent over the peripheral edge of said valve disc to retain the disc in position relative to said body element.

2,351,314

LOCKING DEVICE FOR ROLL-OFF VAN BODIES

Rudolf Ario, deceased, late of Brooklyn, N. Y., by Stephania Ario, executrix, Brooklyn, N. Y.

Application May 20, 1943, Serial No. 487,726
3 Claims. (Cl. 296—35)



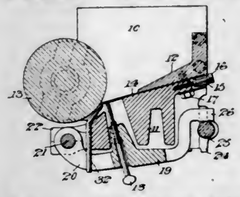
2. In a roll-off van body mounting, a vehicle chassis, a van body provided with means by which it is rolled off the chassis, the van body having an under-beam, the chassis having a frame provided with spaced members disposed transversely of the under-beam, the under-beam having an aperture, a swinging latch pivoted between the spaced members and swingable to engage with the aperture, said latch having a hooked end entering into said aperture, a brace having one end pivoted to the latch adjacent to the hooked end thereof, said brace having a free other end, the other end being notched for removable fitment over a chassis part to cause the brace to act as a prop to thereby hold the latch in engagement with the aperture, a spring-pressed locking pin mounted on one of the chassis members, the latch being provided with an opening through which said pin is extended when the latch is engaged with the aperture, and a manually movable bolt for engaging the brace member to hold said brace member in position to act as a prop for the latch.

2,351,315

INK FOUNTAIN

Howard M. Barber, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware

Application June 11, 1942, Serial No. 446,599
3 Claims. (Cl. 101—366)



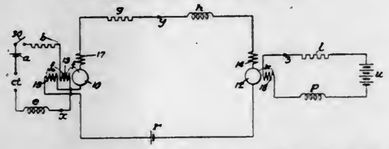
1. An ink fountain comprising side, bottom and front members, an ink fountain roll, a doctor blade mounted on the fountain between the bottom and front members, means for adjusting the doctor blade edgewise into proper position with respect to the fountain roll, a support pivoted to the rear end of the bottom member of the fountain beneath the fountain roll, adjusting screws carried by the said support in position to engage the underside of the doctor blade at its free portion for locally adjusting the blade with respect to the fountain roll, a horizontally disposed cam shaft having its cams supporting said support, and a vertically disposed hand shaft having a worm and gear connection with the said cam shaft for rocking the support to adjust the free portion of the blade as a whole with respect to the fountain roll.

2,351,316

MOTOR CONTROL SYSTEM

Joseph H. Borden, Philadelphia, Pa., assignor to Atlantic Elevator Company, a corporation of Pennsylvania

Application February 23, 1942, Serial No. 432,075
3 Claims. (Cl. 172—239)



1. In a rapid responsive control system a dynamoelectric machine having a control winding and an armature winding, the time constant of the control winding being substantially equal to the time constant of the armature winding, and means for applying a transient voltage to the control winding equal to

$$a\left(1+\frac{D}{2}t\right)$$

where a is the steady state value of voltage across the control winding, D is the time constant of either winding and t is time to the steady state value of voltage across the control winding.

2,351,317

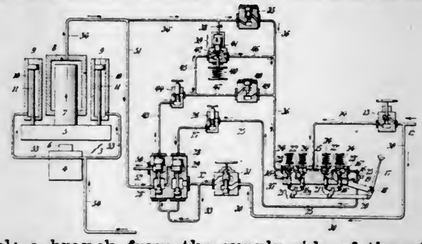
HYDRAULIC PRESS SYSTEM

Louis A. Camerota, Burlington, N. J., assignor to Florence Pipe Foundry & Machine Company, Florence, N. J., a corporation of New Jersey

Application August 17, 1942, Serial No. 455,057
3 Claims. (Cl. 121—38)

1. In systems operated by fluid pressure for energizing a device productive of mechanical work,

dual reciprocative means respectively designed to impart effective and ineffective movements to said device; a main control and pipe arrangement governing supply and venting of high-pressure fluid to and from the reciprocative means; associated stop, directive and check means in an inflow portion of the conduit arrangement, said directive means including relatively small pressure-and-exhaust devices, and the check means serving to prevent "in-flow" shock to the main con-



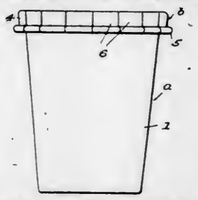
trol; a branch from the supply side of the pipe arrangement aforesaid and stop means in circuit with the main control to impart effective movements to the reciprocative means; and a loop-section in the pipe arrangement including a fluid-pressure loaded check device with reactive means effective to "damp" exhaust flow from the reciprocative means during the ineffective movements of the latter, whereby the system is prevented from destructive operating shocks.

2,351,318

CONTAINER AND CLOSURE CAP THEREFOR

Herman Carew, Easton, Pa., assignor to Dixie Cup Company, a corporation of Delaware

Application July 30, 1940, Serial No. 348,538
4 Claims. (Cl. 229—5.5)



1. In combination with a container having an outwardly directed bead around its normally open end, a paper closure cap, said cap including a top portion and a depending flexible expansible flange having an outwardly directed bead formed around its bottom edge, the flange being normally free of substantial indentations or protrusions between the top portion and bead, and the diameter of the beaded end of the container being greater than the interior diameter of the closure cap flange, the beaded end of the container snapping past the bead of the cap flange when the cap is applied to the container and outwardly flexing the wall of the cap flange above the beaded edge thereof to form a seat for the beaded end of the container above the outwardly directed bead of the cap and provide resistance against removal of the cap.

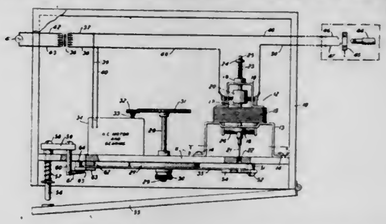
2,351,319

STYLUS OPERATING MEANS

Leland H. Chase, Port Washington, and Le Roy C. Spenard, Brooklyn, N. Y., assignors to Holmes Electric Protective Company, New York, N. Y., a corporation of New York

Application December 26, 1941, Serial No. 424,448
1 Claim. (Cl. 234—63)

In a recorder having supporting means for a movable record-receiving chart, a stylus for perforating said chart, actuating means for said stylus comprising an electromagnetic device having an armature shaft rotatably mounted between a set of pole-pieces on said device and to the front end of which said stylus is connected in operative relation to said chart, an armature secured on said shaft and normally positioned outside of the direct magnetic field of said pole-



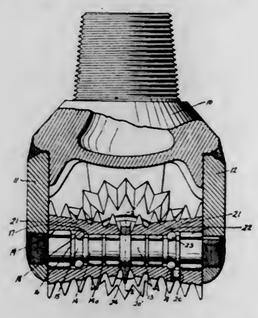
pieces, a normally open electrical circuit including said electromagnetic device and a source of electrical energy, and means for closing said circuit to energize said device whereupon said armature will be drawn into the direct magnetic path between said pole-pieces and rotated, thereby imparting a rotary and reciprocating motion to said shaft and said stylus to cause said stylus to perforate said record receiving chart.

2,351,320

ROCK BIT

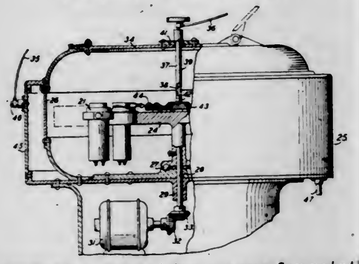
William L. Childs, Houston, Tex., John F. Shaw, Los Angeles, Calif., and Wiley B. Noble, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application October 12, 1939, Serial No. 299,090
7 Claims. (Cl. 255—71)



7. In a roller bit assembly, a bit head, two depending legs, a shaft between said legs, said shaft having two roller bearing races at its ends, two thrust ball bearing races adjacent thereto, two central roller bearing races adjacent the ball races, a first roller cutter mounted thereon having an enlarged bore toward the end of the shaft, a smaller bore toward the center of the shaft, a thrust ball race between the two, large roller bearings in the enlarged bore, balls in the ball race, smaller roller bearings in the small bore, a spacing bridge, a roller cutter having a small bore adjacent the bridge, small rollers in this bore, a ball race, ball bearings in the race, a large bore toward the end of the shaft, large roller bearings in the bore, said last-mentioned cutter having a hole through its side spaced from the ball race a distance of less than the spacing bridge and of a size to receive ball bearings, and a cutting nose on said spacing means.

2,351,321
APPARATUS FOR THE MANUFACTURE OF ELECTROLYTIC CONDENSERS
Kenneth G. Compton, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 27, 1941, Serial No. 412,530
4 Claims. (Cl. 175—315)



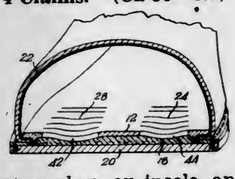
1. Apparatus comprising means for rotating an electrolytic condenser assembly having a liquid electrolyte impregnated therein about an axis of rotation spaced from said condenser assembly while said condenser assembly is disposed in an individual container which prevents the loss of electrolyte from said assembly due to rotation, said means being capable of rotating said condenser assembly at a speed such that a substantial pressure due to centrifugal force is developed in said electrolyte sufficient to remove from said electrolyte bubbles of gas in said electrolyte in the vicinity of an armature of said condenser assembly; and means for supplying a forming current to said condenser assembly during said rotation.

2,351,322
BOTTOM HOLE REGULATOR
Wilfred St. Maur Elmore Crake, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 13, 1942, Serial No. 426,634
5 Claims. (Cl. 166—2)



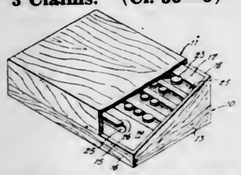
1. In a bottom hole regulator for oil wells having an eduction tubing and casing string depending thereinto, said regulator being adapted to be positioned in the lower portion of the well, passage means longitudinally through said regulator, said passage means comprising a valve port, a reciprocable stem carried within said housing, the lower portion of said stem having a thickened cross-section substantially equal in diameter to that of said valve port, a valve carried by said stem and adapted to seat in said valve port for regulating the flow of well fluids through said passage means, adjustable resilient means for urging said valve into open position, hydraulic means for urging said valve into closed position, said hydraulic means comprising an upper cylinder adapted to receive slidably the upper portion of said valve stem, a passageway communicating with the surface, and means for imparting fluid pressure to said valve stem in said cylinder through said passageway, a lower cylinder adapted to receive slidably the lower thickened portion of said stem, and equalizing passage means to provide pressure communication between the lower cylinder and the housing space directly above the valve, whereby the position of the valve is regulated from the surface and is substantially unaffected by varying pressures below the regulator.

2,351,323
SHOE
Claude H. Daniels, Greenwich, Conn., and Martin P. Foy, Endicott, N. Y.
Application May 24, 1941, Serial No. 395,100
4 Claims. (Cl. 36—8.5)



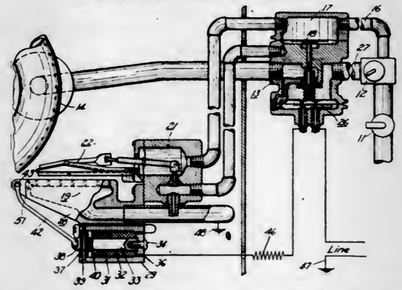
1. In a boot or shoe, an insole, an outsole and a bottom filler between the soles, said insole having an area positioned to correspond with the joint between the first metatarsal and the toe on the inside of the foot and having a second area spaced therefrom positioned to correspond with the joint between the fifth metatarsal and the toe on the outside of the foot, each of said areas having slits cut entirely through the thickness of the insole material whereby each of said areas is freely depressible under pressure of the foot to form conforming pockets in the surface of the insole for said joints, the bottom filler beneath such areas being composed of compressible material, said insole outside of said areas being solid and unslit whereby the insole resists depression except in the areas defined by the slits.

2,351,324
PRACTICE TYPEWRITER
Amy Emanuel, Asheville, N. C.
Application January 27, 1943, Serial No. 473,709
3 Claims. (Cl. 35—5)



1. A practice typewriter or the like formed of wood or similar inexpensive material and comprising a housing including an upper wall having a plurality of rows of spaced apertures therein, a plurality of simulated depressible keys including head portions, shank portions journalled within such apertures for vertical movement, and foot portions, said head and foot portions being of greater diameter than that of the shank portions, thus limiting downward and upward movement, respectively, of said depressible keys, each adjacent row of keys being of increased height to simulate a typewriter keyboard, means for normally retaining the keys in elevated position and for returning such keys to elevated position after they have been manually depressed and released, such means comprising a flat spring formed of wood for each key, one end of such spring yieldingly engaging the lower terminal of the key, and means for rigidly supporting the opposite end comprising a block formed with rows of recesses for receiving such opposite terminals of the spring, the block further being formed with supporting surfaces for a portion of the length of each spring.

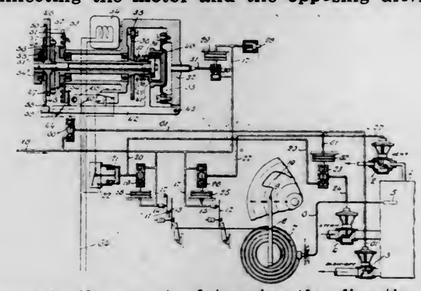
2,351,325
IGNITION MEANS FOR FLUID FUEL BURNERS
John C. English, Cedar Rapids, Iowa, assignor to Johnson Gas Appliance Company, Cedar Rapids, Iowa, a corporation of Delaware
Application December 26, 1940, Serial No. 371,708
3 Claims. (Cl. 175—115)



1. In a fluid fuel burner, means for initiating ignition including a pair of contacts, an electromagnet and a source of electric current in series, a support having a bore receiving said electromagnet, one of the contacts being mounted on a movable member, the movable member having an armature portion so positioned in said bore as to be attracted by the electromagnet, a pivot across said bore for said movable member, an insulating sleeve between said pivot and said movable member, the attraction of the magnet for said armature portion causing the member to move and break the contact thus breaking the electric circuit and de-energizing the magnet permitting the movable member to return to its original position remaking the contact, the alternate making and breaking of the contact causing electric arcs across the gap between the contacts, and means for directing a stream of fuel into or near the gap to cause ignition thereof.

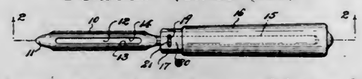
2,351,326
PREDETERMINING SYSTEM
Paul F. K. Erbguth, Brooklyn, N. Y., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y., a corporation of New York
Application August 2, 1940, Serial No. 349,991
13 Claims. (Cl. 236—46)

1. A timing system for a processing plant comprising, in combination, a member whose position is sensitive to the value of a processing condition, a pilot actuated by the member, and means governed by said pilot for controlling said condition; a timing means for predetermining the processing duration and including a timing motor, a timing cam, a means driven by said motor and operatively connected with said cam to actuate said cam in one direction, a means for moving said cam in the opposite direction, a detent for said timing cam for determining the position of the cam at substantially the beginning and end of a processing duration; a starting switch means also governed by said pilot for starting the timing motor, a starting means for initiating the processing duration including a manually operable starting portion and a running switch actuated upon a momentary operation of such portion and connected to the starting switch and to said motor to cause the running of the motor only when both switches are closed, and means for holding the running switch closed from the time when the starting means portion has been operated until the time when the cam reaches its stopping position and for operatively connecting the motor and the opposing driving



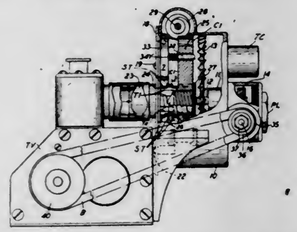
means to the cam to determine the direction of motion of the cam, the last named means being operatively connected with the starting means to effect the stated connection and hence movement of the cam first in one direction and then the other following the actuation of said starting means portion; and means operatively connected with the starting means and effective upon the operation of said starting means portion for operating one processing portion of the plant relative to a processing position of said processing portion and for operatively connecting said pilot with the controlling means which it governs, and a separate means for operating another processing portion of the plant relative to a processing position of the last named processing portion in an adjustably predetermined relation with the position of the sensitive member.

2,351,327
PEELING IMPLEMENT
Homer Gamache, Newark, N. J., assignor to Acme Metal Goods Manufacturing Co., Newark, N. J.
Application October 28, 1943, Serial No. 507,995
4 Claims. (Cl. 30—278)



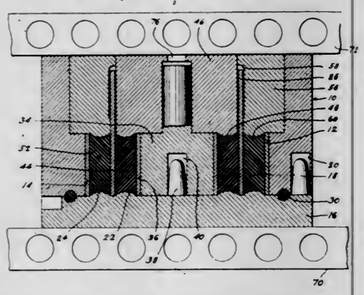
1. A peeling implement comprising a handle member of rigid solid material having an axial bore extending thereinto from its inner end, a blade having a journal extension projecting from its rear end, said journal extension being journaled in the handle member bore to mount said blade for oscillatory movement about the axis of the handle member, said handle member having a transverse slot entering through a side thereof so as to intersect the bore thereof, and a stop pin affixed to the journal extension of said blade to project radially therefrom into said slot, whereby to both retain the blade coupled to the handle member and to limit oscillatory movement of the blade by impingement of the free end portion of said stop pin on the slot ends.

2,351,328
AIR MOTOR
Edgar W. Gent, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,867
7 Claims. (Cl. 253—59)



1. An air turbine comprising a rotor wheel having fin elements at its periphery, an adjustable wheel having screw threads forming air paths at its periphery for directing streams of air toward said fin elements for actuating said rotor wheel, and a rotatable worm operatively engaging said screw threads for rotating said wheel to move it in different spaced positions relative to said rotor wheel for controlling the speed of the latter acording to pressure variations of the air streams impinging on the fin elements of said rotor wheel.

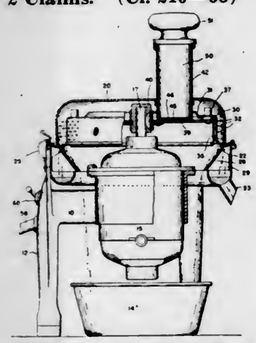
2,351,329
METHOD AND APPARATUS FOR MAKING RUBBER TORSION UNITS
John H. Gerstenmaier, St. Marys, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application December 12, 1941, Serial No. 422,694
10 Claims. (Cl. 18—17)



5. Apparatus for making rubber torsion bushings, and the like, and comprising a mold having an opening receiving and supporting the outer metal sleeve of a bushing, a base removably supporting the mold, a core removably carried at the center of the mold and adapted to support concentrically of the outer sleeve an inner metal sleeve of a bushing, a plunger slidably carried by the core, a second plunger slidably carried between the first-named plunger and the mold, at least one of said plungers having a recess for slidably receiving an intermediate sleeve, and said base being adapted to engage the other end of the intermediate sleeve, said mold being formed with a recess for receiving a body of rubber adapted to be operated on by the said second plunger, and the core being formed with a recess for receiving a body of rubber adapted to be operated on by the first-named plunger.

8. That method of making rubber torsion bushings, and the like, which comprises positioning an outer metal sleeve around an inner metal sleeve and in spaced relation therefrom, positioning at least one metal sleeve of intermediate diameter and greater length than the first-named sleeves between the first-named sleeves and so that the intermediate sleeve extends longitudinally beyond the first-named sleeves, engaging a body of rubber against the inner surface of the intermediate sleeve on the portion thereof extending beyond the first-named sleeves, engaging a body of rubber against the outer surface of the intermediate sleeve on the portion thereof extending beyond the first-named sleeves, forcing the rubber bodies under heat and pressure to positions between and in engagement with the several sleeves, vulcanizing the rubber bodies under heat and pressure to the sleeves, and cutting off that portion of the intermediate sleeve extending longitudinally beyond the inner and outer sleeves.

2,351,330
FOOD TREATING AND JUICE EXTRACTING APPARATUS
Emil Goetz, Detroit, Mich.
Application March 28, 1940, Serial No. 326,539
2 Claims. (Cl. 210—68)

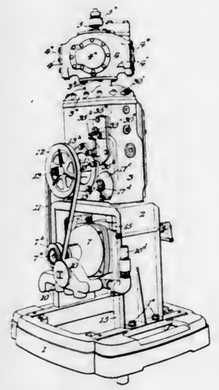


1. In a centrifugal separator, in combination with a motor, a substantially flat feed plate rotatable thereby about a substantially certical axis, masticating means carried by the feed plate, means for feeding material to said feed plate and masticating means, a perforated extractor drum rotatable with the plate and having parts extending both above and below the same including a substantially cylindrical portion surrounding but spaced from the rim of the plate, and extending downwardly therefrom, said drum having a guide portion extending inwardly over and arranged relatively close to but spaced from the plate and joining the peripheral portion, said masticating means being located in such position that material masticated thereby is thrown outwardly into the space between said feed plate and said overhanging guide portion, and the rate of feed of the material to and along the extractor drum may be varied by varying the rate of feed to the masticating means.

2,351,331
LIQUID DISPENSING APPARATUS
Mark J. Goldberg, Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware
Application November 2, 1939, Serial No. 302,524
7 Claims. (Cl. 222—72)

1. In liquid dispensing apparatus; a single unitary casing including an inlet screen chamber,

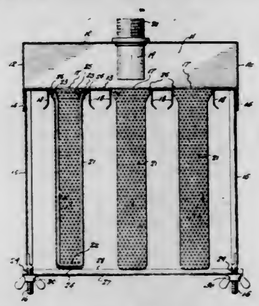
a pump inlet chamber, a pump discharge chamber, a liquid and lighter fluid separating chamber in unrestricted communication with said pump discharge chamber, a control valve chamber in communication with said separating chamber at the bottom of the latter, a liquid discharge chamber leading from said control valve chamber to a dispensing outlet, a lighter fluid discharge chamber continually in restricted communication with said separating chamber at the top thereof, and having a vent from the upper portion thereof to the atmosphere; a by-pass valve chamber leading from said pump discharge chamber to said pump chamber, at the inlet side thereof; a pump in said pump chamber; a control valve in said control valve chamber; a spring in said liquid discharge chamber continually tending to close said control valve and preventing it from



opening until it is subjected to a predetermined pressure desired for dispensing liquid; a float valve in the upper portion of said separating chamber, controlling the restricted communication between said separating chamber and the lighter fluid discharge chamber; a float valve in the last-named chamber controlling a port leading into said by-pass chamber and normally closing said port but serving to open it when any liquid precipitated in said lighter fluid discharge chamber rises above a predetermined level; a spring normally closing said by-pass valve but permitting said valve to open under abnormal pressure of the pump caused by prevention of dispensation of liquid through the liquid discharge outlet at the top of said casing; a head covering for said casing rigidly connected therewith.

2,351,332
LIQUID STRAINING DEVICE
Alfred M. Goodloe, Montclair, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application March 4, 1943, Serial No. 477,955
4 Claims. (Cl. 210—190)

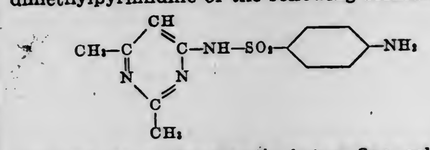
1. A liquid straining device comprising a collecting chamber having intake means in a wall thereof, clean liquid discharge means leading outwardly from said chamber, spaced keeper flanges externally projecting from said wall in straddling relation to said intake means, strainer bag means, frame means inserted within said strainer bag means to expand the same, said frame means having top rim means within the open mouth of said strainer bag means about which marginal portions of the latter are folded to provide seating lip means to abut said collecting chamber wall whereby to dispose the strainer bag means in communication with said intake means thereof and retained against lateral shifting displacement by and between said keeper flanges which bound said intake means,



hanger means extending from said collecting chamber, a thrust and retainer means adapted to cross and engage bottom end portions of said frame expanded strainer bag means, and means to detachably secure said thrust and retainer means in supported connection with said hanger means.

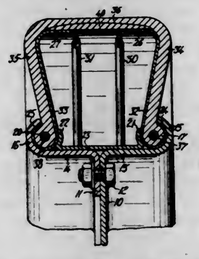
2,351,333
6-(p-AMINOBENZENE SULPHONYL)-AMINO-2:4-DIMETHYLPYRIMIDINE AND ITS MANUFACTURE
Hans Gysin, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a firm
No Drawing. Application October 2, 1941, Serial No. 413,381. In Switzerland October 11, 1940
1 Claim. (Cl. 260—239.6)

The 6-(p-aminobenzenesulphonyl)-amino-2:4-dimethylpyrimidine of the following formula



prepared as a therapeutic being fine colorless needles when crystallised from alcohol, of the melting point 243° C.

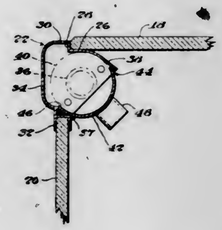
2,351,334
TIRE OR SHOE FOR AUTOMOBILES, AIRPLANES, AND THE LIKE
Christoffer Hannevig, New York, N. Y.
Application September 21, 1942, Serial No. 459,144
4 Claims. (Cl. 152—247)



A tire for automobiles, airplanes, and the like, comprising two frames spaced apart, each

of the latter having the shape substantially as an inverted U, each of said frames comprising integrally, a radially outwardly flaring side wall, a curved top portion, or tread, and an inner vertically disposed rib adapted to reinforce said tread portion; resilient means connecting the upper portions of said frames, a rubber material surrounding the latter, and means for securing said tire to a wheel.

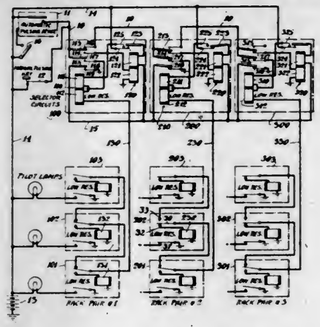
2,351,335
ILLUMINATED SHOWCASE
John E. Holmes, Auburndale, Mass.
Application July 25, 1941, Serial No. 404,038
1 Claim. (Cl. 240—6)



A show case having a frame, glass panels supported by said frame, and means for illuminating the interior of the show case comprising a hollow and relatively narrow elongated front rail secured to and forming a part of said frame, a recess formed in the upper wall of said rail for supporting the adjacent edge of the top glass panel, a groove formed in the side wall of said rail for receiving the adjacent edge of the front glass panel, an elongated and relatively narrow cold cathode fluorescent tube disposed within said hollow rail, a pair of sockets mounted within said front rail between which said tube is supported, means for supporting said sockets comprising spaced arcuate members formed integrally with said rail and forming therewithin substantially cylindrical portions in which the sockets are received, and means for supporting the mid-portion of said tube including a glass insulating member surrounding said tube, and a clip member secured to the interior of said rail and embracing said insulating member, said rail being open to the interior of the show case to permit illumination thereof, said combined rail and illuminating unit being relatively narrow to obstruct from view a minimum of the interior of the show case.

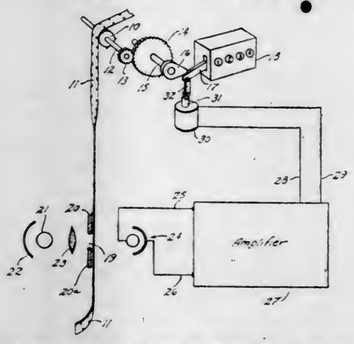
2,351,336
BOMB RELEASE SYSTEM
Frederick J. Hooven, Dayton, Ohio
Application September 25, 1941, Serial No. 412,229
2 Claims. (Cl. 89—1.5)

1. A bomb release system comprising a source of current pulses under control of an operator, a series of selector units, a series of bomb release mechanisms associated with each of said units, a control circuit extending from each of said selector units and passing through said series of release mechanisms, each of said mechanisms having contacts in series with said control circuit therein and means for operating said contacts when said device is cocked to break said control circuit leading to succeeding release mechanisms and connect said circuit to a grounded electroresponsive actuating device comprising part of said mechanism, whereby said contacts transfer said control circuit to said succeeding release mechanisms responsive to actuation and release of said electroresponsive device by a current impulse, each of said selector units comprising a circuit preparing relay and a disconnect relay, a pulsing circuit extending from said source of pulses through normally-closed contact pairs of all of said circuit preparing relays in series and having branches connected thereto at parts preceding each of said pairs of contacts, the control circuit individual to each of said selector units extending to its individual branch circuit through a normally-open contact pair of its individual circuit preparing relay, each of said circuit preparing relays thereby breaking the pulsing cir-



cuit leading to succeeding relays and connecting said pulsing circuit to its individual control circuit when energized and thereby preparing said control circuit to receive a current impulse from said source, the energizing circuit for each of said circuit preparing relays extending through normally-closed contacts of its associated disconnect relay and the energizing circuit for each of said disconnect relays extending to said pulsing circuit through normally-open contacts of its associated circuit preparing relay, each of said disconnect relays thereby opening the energizing circuit for its associated circuit preparing relay responsive to a current impulse, to thereby disconnect its control circuit from said pulsing circuit and extend the operative portion of said pulsing circuit to succeeding selector units.

2,351,337
FILM MEASURING APPARATUS
Herbert W. Houston, North Hollywood, Calif.
Application August 11, 1941, Serial No. 406,345
3 Claims. (Cl. 33—125)



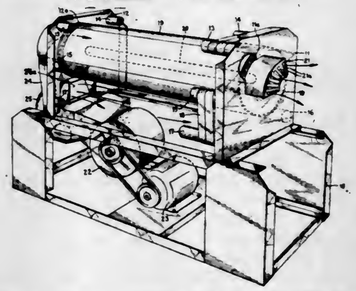
1. An apparatus for measuring the length of photographic film in a combined strip of film

and leader of materially different densities which includes: a source of electromagnetic radiations; a radiometer disposed in the path of said radiations and responsive thereto; means for moving said strip through the path of said radiations so as to vary the flow thereof to said radiometer; means responsive to the movement of said strip for indicating the footage thereof passing said radiometer, which said means includes a sprocket over which said film travels, and a rotating cam connected to said sprocket and adapted to operate a counter; and an electromagnet connected in circuit with said radiometer and adapted to disconnect said counter when said film ceases to pass said radiometer but said leader is passing said radiometer.

2,351,338
TANNING WITH D'-METHOXY-D-HYDROXYMETHYL DIGLYCOLLIC ALDEHYDE
Kenneth L. Howard, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 2, 1943, Serial No. 497,058
1 Claim. (Cl. 8—94.33)

A method of tanning hides and skins which comprises impregnating them with a solution containing D'-methoxy-D-hydroxymethyl diglycollic aldehyde.

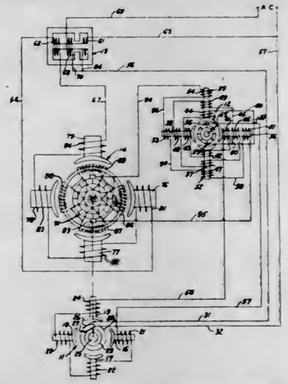
2,351,339
COOLING SYSTEM FOR PHOTOPRINTING MECHANISMS
Joseph H. Hruby, Chicago, Ill., assignor to Charles Bruning Company, Inc., New York, N. Y., a corporation of New York
Application September 3, 1942, Serial No. 457,138
4 Claims. (Cl. 95—77.5)



1. In a photo-printing device having a rotatable transparent cylinder and a source of light within said cylinder; the combination therewith of means for substantially sealing the ends of said cylinder, a heat exchanging device interposed between said light source and a portion of said cylinder and projecting through said sealing means, said heat exchanger comprising an elongated hollow member sealed from the interior of said cylinder, means for supporting said heat exchanger in fixed position, and means for delivering a current of cooling fluid through said hollow member to withdraw heat from the interior of said cylinder.

2,351,340
AUTOMATIC VOLTAGE CONTROL SYSTEM FOR ALTERNATORS
Fenton F. Hutchinson, San Francisco, Calif., assignor to Kohler & Chase, San Francisco, Calif., a corporation of California
Application December 10, 1941, Serial No. 422,346
4 Claims. (Cl. 171—119)

1. An automatic voltage control system for alternators comprising, in combination with an alternator, an exciter for supplying the field of the alternator with direct current of variable magnitude; said exciter including shunt and series field windings as well as an auxiliary field coil of opposite polarity to the polarity of said shunt and series windings; said series field winding of said exciter being connected in series-circuit relation with the field of the alternator and with the exciter armature winding, means



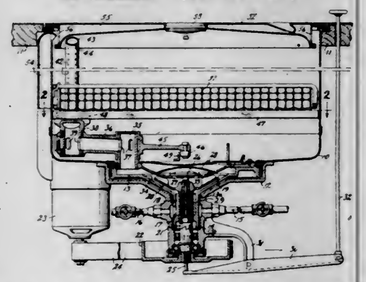
for deriving a variable potential from the work circuit supplied by the alternator, a regulator the field of which is electrically connected to said means, and a rectifying commutator on the shaft of said regulator for rectifying the derived, variable potential obtained from the alternator work circuit by said means and for reducing the field strength of said exciter by applying the rectified, derived potential as a pulsating direct current of variable magnitude to said auxiliary field coil of said exciter.

2,351,341
HANDBAG
Anthony Immordino, Deer Park, N. Y.
Application June 24, 1942, Serial No. 448,249
4 Claims. (Cl. 150—42)



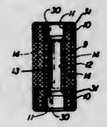
1. A handbag, comprising a front face sheet, a back face sheet connected at its bottom with the bottom of said front face sheet, inwardly directed gussets connecting the sides of said front and back face sheets, stitches pinching together and holding the top adjacent side portions of said front and back face sheets, a single flap directed upwards from the top portion of one of said face sheets, a multiple flap directed upwards from the other of said face sheets and having an upwardly extending panel which continues from the top portion of the last mentioned face sheet and which continues into a downwardly directed panel which has its free end portions attached to the end portions of said upwardly extending panel and said downwardly directed panel continues into an upwardly directed panel located adjacent said single flap, and fasteners connecting the adjacent faces of said single flap and said latter-mentioned upwardly directed panel.

2,351,342
DISHWASHER
Fredrik Johan Robert Karlström, Bo, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application April 11, 1940, Serial No. 329,092
In Sweden April 12, 1939
13 Claims. (Cl. 299—67)



1. In a dish washing apparatus, a casing, a water pump housing, means for rotatably mounting the housing in the casing, an impeller, means for rotatably mounting said impeller in said housing, means for supplying water to said housing, means for driving said impeller, means on the inside of said housing to induce rotary motion thereof by impingement of water thereon, a sprayer member, means to mount said sprayer member for movement along a linear path, means to supply water to said member from said pump, and means connected between said housing and said member for transforming the rotational movement of the housing into linear movement of said member.

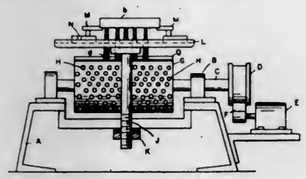
2,351,343
OIL SAVER
John A. L. Kelley, Dallas, Tex., assignor of one-half to Benjamin F. Kelley, Tulsa, Okla.
Application December 26, 1941, Serial No. 424,451
4 Claims. (Cl. 288—2)



1. In an oil saver of the class described, a tubular packing member constructed of resilient rubber-like material having a central bore therethrough, and a plurality of angularly spaced vertical slits in the body of said packing member from end-to-end thereof and extending tangentially from said bore toward but not through the periphery of said packing member.

2,351,344
BRISTLE-TRIMMING MECHANISM
Charles S. King, Osgood, Ind., assignor to Solid Back Brush Machinery Company, Detroit, Mich., a corporation of Michigan
Application May 27, 1942, Serial No. 444,703
5 Claims. (Cl. 300—17)

5. In combination with a rotatable cylinder member provided with sharply shouldered recesses located at selected points in its peripheral surface, a stationary knife having its cutting edge positioned in operative propinquity to the peripheral surface of said cylinder, and guide frame for tuft-filled brush units, which such brush units are adapted to be successively advanced for temporary lodgment of the tuft ends



in appropriate recesses in the cylinder's surface during trimming action thereon by the knife when pressed thereagainst.

2,351,345
PROCESS FOR THE PRODUCTION OF ARTIFICIAL FILAMENTS, FIBERS, AND FOILS
Johannes Kleine, Dessau, Germany; vested in the Alien Property Custodian
No Drawing. Application December 7, 1940, Serial No. 369,127. In Germany December 14, 1939
2 Claims. (Cl. 18—54)

1. A process for the production of fibers, films and ribbons which comprises melting paraffins having mainly straight chains of more than 600 carbon atoms prepared by reacting one part of carbon monoxide with at least two parts of hydrogen under a pressure up to about eleven atmospheres and at an elevated temperature below that at which benzine hydrocarbons would normally be formed under the same conditions, and spinning fibers, films and ribbons from the melt.

2,351,346
PYROLYSIS
Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application June 13, 1942, Serial No. 446,938
2 Claims. (Cl. 260—544)

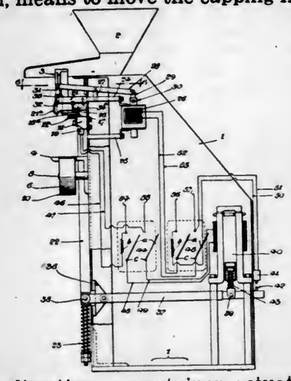
1. The method of converting a trihalopropionyl halide from the class consisting of the chlorine and bromine derivatives to the corresponding dihaloacrylyl halide which comprises pyrolyzing the trihalopropionyl halide to separate one mol of hydrogen halide therefrom.

2,351,347
TURBINE OIL
Daniel B. Luten, Jr., Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 8, 1942, Serial No. 446,291
5 Claims. (Cl. 252—52)

1. A highly refined mineral lubricating oil containing less than 2% of 2,4-dimethyl-6-tertiary octyl phenol.

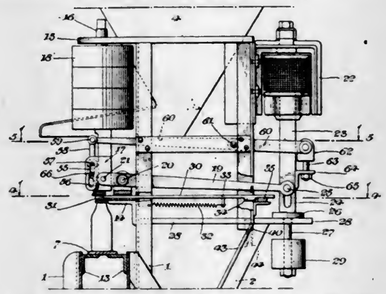
2,351,348
CAPPING MACHINE
Hugh Mair, Cranford, N. J., assignor to The Distillers Company Limited, Linden, N. J., a corporation of Delaware
Application May 22, 1941, Serial No. 394,570
9 Claims. (Cl. 226—81)

1. In a capping apparatus, a container support, a capping head above the container support, an electromagnet including an armature connected to the capping head to move the latter in capping direction, means to move the capping head in the



opposite direction, a container actuated trip to energize said electromagnet, and means actuated by movement of the capping head in a capping direction to de-energize the electromagnet.

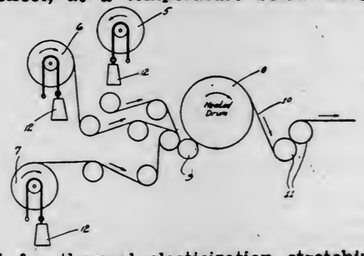
2,351,349
CAPPING MACHINE
Hugh Mair, Cranford, N. J., assignor to The Distillers Company Limited, Linden, N. J., a corporation of Delaware
Application March 23, 1944, Serial No. 527,683
7 Claims. (Cl. 226—81)



1. In a capping machine, a container-support, a vertically reciprocable capping head above said support, pressure means for moving said head toward the container-support, means including a member movably connected with the head and effective against the action of said pressure means to maintain the head in uppermost position, an electromagnet having an armature associated with said movable member for moving the same thereby to release the head for movement to capping position under the action of said pressure means, a container-actuated trip to energize said electromagnet, and means actuated by movement of the head in capping direction to deenergize the electromagnet.

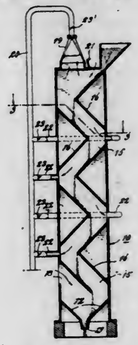
2,351,350
PROCESS OF LAMINATING FILM
Gerald D. Mallory, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Substitute for abandoned application Serial No. 426,224, January 9, 1942. This application April 23, 1943, Serial No. 484,225
2 Claims. (Cl. 18—57)

1. In the lamination of a plurality of plies of rubber hydrochloride film, the improvement which comprises subjecting a ply of rubber hydrochloride film of high internal friction to thermal elasticization so as to reduce the friction and then, during the period of thermo-elastic after-effect, at a temperature below that re-



quired for thermal elasticization stretching it lengthwise to prevent bagging and wrinkling, and while thus stretched uniting it to at least one other ply of rubber hydrochloride by heat and pressure.

2,351,351
APPARATUS FOR DEDUSTING COMMINUTED SOAP
Bernard L. Maxwell, Reading, and Charles T. Atwood, Belmont, Mass., assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine
Original application August 15, 1940, Serial No. 352,738. Divided and this application May 22, 1941, Serial No. 394,590
1 Claim. (Cl. 209—137)



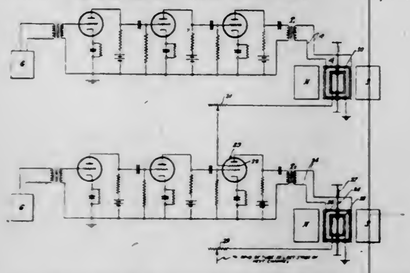
Apparatus for dedusting soap comprising a chamber, means for introducing soap particles at the top of the chamber, a series of vertically spaced inclined ramps arranged in said chamber in position to support the particles in a continuous tortuous flow through the chamber and to form a series of curtains of falling particles between the successive ramps, an exhaust conduit connected to said chamber above the uppermost ramp, suction-producing means connected to the exhaust conduit for inducing a flow of winnowing air upward through said chamber and through said curtains of falling particles to produce a series of winnowing actions on the curtains of particles and for entraining the dust content of said particles and exhausting the dust-laden air from the chamber, means for admitting winnowing air to said chamber only at a point below the lowermost of said ramps, and means for simultaneously and accurately varying the velocity of flow of air through each of said curtains of falling particles including an adjustable damper movable to admit a controlled amount of supplemental air to said apparatus from the exterior

thereof, said damper being located at a point between the uppermost ramp in said chamber and said suction-producing means whereby supplemental air admitted by the damper mingles with the dust-laden air passing to said suction-producing means and operation of the damper serves to vary the action of said suction-producing means on the winnowing air passing through all of the curtains of falling particles and effects such variations simultaneously and accurately.

2,351,352
SEPARATION OF BY-PRODUCTS FROM ISOPHORONE
Sumner H. McAllister, Lafayette, and William A. Bailey, Jr., Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 29, 1941, Serial No. 404,512
4 Claims. (Cl. 260—586)

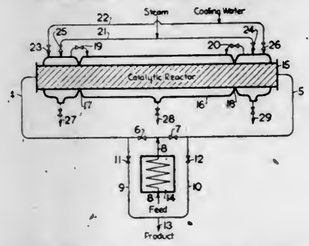
1. In a process for producing isophorone by condensing acetone and recovering a mixture comprising mesityl oxide, diacetone alcohol and isophorone, the improvement of substantially freeing said isophorone from mesityl oxide and diacetone alcohol which comprises commingling said mixture with 0.1- to 1-normal aqueous sodium hydroxide solution in an amount sufficient to provide a great excess of water over that needed to hydrate the mesityl oxide in said mixture and distilling acetone from the reaction mixture at a distilling temperature of from 130° C. to 200° C., said distillate acetone being formed by selective and catalytic reversion of the mesityl oxide and diacetone alcohol without reversion of the isophorone in the operation.

2,351,353
GALVANOMETER
Malcolm D. McCarty, Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application December 19, 1941, Serial No. 423,617
9 Claims. (Cl. 171—95)



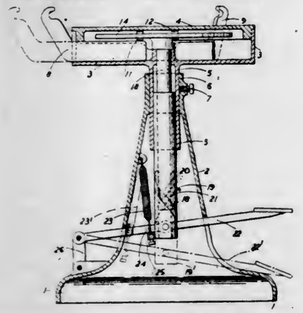
1. A galvanometer comprising in combination a plurality of vibrating elements, means for providing a constant magnetic flux field for each element, each of said vibrating elements comprising at least two independent coils mechanically connected for simultaneous rotation, means for suspending said coils on a common axis so as to move mechanically together in said magnetic field, means for connecting one coil of each element to a signal source circuit, and means for connecting the other coil of each element to an independent circuit, whereby the signal from the signal source circuit flowing in the one coil reacts with the magnetic field so as to move both coils and power for the independent circuit is generated by the other coil.

2,351,354
METHOD FOR EXECUTING CATALYZED VAPOR PHASE REACTIONS
Frank Matthew McMillan, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application November 27, 1939, Serial No. 306,281
1 Claim. (Cl. 260—683.5)



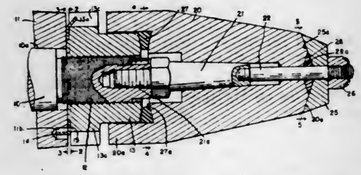
A process for the continuous isomerization of butane in the vapor phase with a catalyst comprising an adsorptive alumina and an effective amount of aluminum chloride which comprises contacting butane entirely in the vapor phase under isomerization conditions first with a portion of said catalyst maintained at an elevated temperature below about 200° C. and then with a portion of said catalyst maintained at an elevated temperature lower than the first and not substantially above 100° C., periodically reversing the relative temperatures of said portions of catalyst and reversing the order of contact of the butane with the portions of catalyst to contact the portion of catalyst maintained at the higher temperature first.

2,351,355
GRIPPING AND SUPPORTING DEVICE SUITABLE FOR SUPPORTING VEHICLE WHEELS
Harry Merrett, Dairymoor, Wickham, England
Application May 23, 1942, Serial No. 444,280
In Great Britain June 12, 1941
3 Claims. (Cl. 144—288)



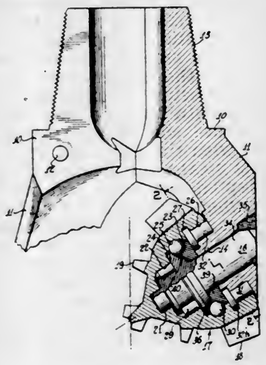
1. A gripping and supporting device suitable for supporting vehicle wheels during tire fitting and removing operations comprising a platform on which a wheel can be rested, a plurality of gripping elements movable radially towards and away from the center of said platform so as to grip or release the rim of a wheel as may be desired, a rotary control plate mounted below said platform and having cam-like slots therein, rollers extending upwardly from said gripping elements and making engagement with said cam slots, pedal operated mechanism provided for positively rotating said control plate in one direction and a spring for raising said pedal and thereby resiliently rotating said control plate in the opposite direction, the arrangement of the cam slots being such that rotation of the control plate pursuant to depression of the pedal moves the gripping elements in a gripping direction and rotation pursuant to the raising of the pedal by said spring moves said gripping elements in a releasing direction.

2,351,356
PROPELLER INHIBITOR
Theodore F. W. Meyer, Birmingham, Mich., assignor to Federal-Mogul Corporation, Detroit, Mich., a corporation of Michigan
Application December 24, 1943, Serial No. 515,547
7 Claims. (Cl. 287—53)



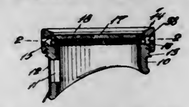
1. An inhibitor for a marine propeller installation designed to be maintained in permanent electrical contact therewith, consisting of a cap projecting beyond the propeller-carrying end of the shaft thereof, said cap being provided with an inner shoulder, a gasket between said shoulder and the outer end of said nut, a shaft extension extending axially through said cap and threaded at its outer end to receive a second nut, a washer fitted over the end of said cap, a gasket between said cap and washer and adapted to seal the opening through which said extension passes, and a nut on the end of the extension whereby to maintain said cap in position.

2,351,357
BEARING FOR ROCK BITS
Edward L. Miller and Robinson W. Brown, Oklahoma City, Okla., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application September 30, 1942, Serial No. 460,202
11 Claims. (Cl. 308—174)



1. An earth boring drill comprising a spindle and a bearing arrangement for mounting a roller cutter on the spindle, said bearing arrangement comprising one or more rows of cylindrical roller bearings for sustaining radial thrusts, friction bearing surfaces and ball bearings for sustaining axial thrusts, and means for locking the cutter on the spindle, said locking means comprising rollers having locking portions of disk shape adapted to be received within complementary recesses in said cutter and spindle, said cylindrical locking rollers being arranged to abut against the ends of some of said cylindrical thrust rollers.

2,351,358
GOGGLE
Frederic I. Miner, Providence, R. I., assignor to Welsh Manufacturing Company, a corporation of Rhode Island
Application October 17, 1940, Serial No. 361,502
7 Claims. (Cl. 2—14)

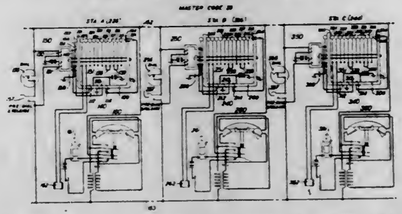


1. In a goggle, an annular eye cup having one end to fit the face, a lens covering the other end, a cap member over said lens and having a flange telescoping said cup, means to secure the cap directly to said cup, a washer independent of said securing means located between the said other end of said cup and the lens and provided with openings for the lateral flow of air, and a guide formation on the edge of the cup engaging and assisting in retaining the washer at all points about the periphery laterally with respect to said cup against inward as well as outward movement.

2,351,359
MOTHPROOFING
Henry N. Mitchell, Sanford, Maine, assignor to M. H. Hoepli, New York, N. Y.
No Drawing. Application October 12, 1939, Serial No. 299,099
3 Claims. (Cl. 167—37)

1. A mothproofing composition adapted to evaporate its water on a woolen and deposit substantially pure salicylic acid as the sole mothproofing agent and also deposit a substantially imperceptible resin and plasticizer, said composition consisting of salicylic acid as a mothproofing agent, and also containing a normally water-insoluble resin, a less but effective quantity of a plasticizer, an organic hydroxy material solvent holding the acid and resin and plasticizer in solution, and several times as much water as solvent holding acid and resin and plasticizer in emulsion.

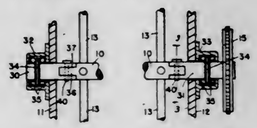
2,351,360
SELECTING SYSTEM
Neal D. Newby, Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1942, Serial No. 470,816
9 Claims. (Cl. 177—342)



6. In a selecting device, a row of resilient magnetic balls in contact with one another, pulse

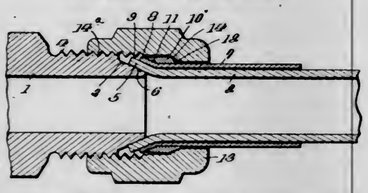
responsive means for delivering an impact to the ball at one end of said row to drive one ball from the other end of said row into an alternative position at each pulse, a magnet for holding said balls in said alternative position, means to energize said holding magnet during trains of pulses under the control of said pulse responsive means, a plurality of circuits for energizing said holding magnet between trains of impulses, said circuits extending through said balls and completed only when a plurality of different numbers of said balls are in said alternative position at the end of each train of pulses in accordance with a predetermined code, said circuits becoming successively effective in response to successive trains of impulses, a signal, and means for operating said signal when the number of balls moved into and held in said alternative position is equal to the total number of impulses in all of said trains.

2,351,361
REMOVABLY MOUNTING EXTRACTOR SHAFTS
William Ockrant and John W. Kinney, Jr., Cincinnati, Ohio; said Kinney assignor to said Ockrant
Application April 19, 1941, Serial No. 389,316
7 Claims. (Cl. 308—15)



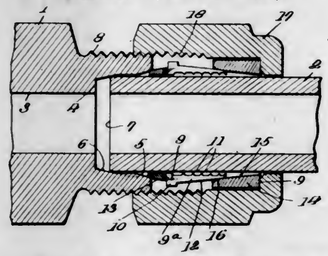
2. In a device of the class described, the combination which comprises a pair of spaced support members, a pair of rotatable stub shafts carried by and secured one to each support member for rotation about a common axis and against axial displacement, a shaft adapted to be removably supported by and between said stub shafts, the adjacent ends of said shaft and stub shafts provided with interlocking means adapted to transmit a driving torque from one of said stub shafts through said removable shaft to the other stub shaft, means for precluding accidental or unintentional disengagement of said interlocking means, and means for driving one of said stub shafts.

2,351,362
COUPLING FOR TUBES
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application June 8, 1942, Serial No. 446,230
1 Claim. (Cl. 285—86)



A coupling for metal tubes comprising a coupling member to which the flared end of the tube is to be connected, said coupling member having a seat conforming to and engaging the inner flared face of the tube, a sleeve surrounding said tube, said sleeve having a clamping head the inner face of which substantially conforms to and engages the outer face of the flared end of the tube, said sleeve having slits formed therethrough extending from a point adjacent said clamping head to the outer end of the sleeve, a clamping ring surrounding said sleeve and adapted to engage the sleeve for clamping the flared end of the tube against the seat of the coupling member, a clamping nut surrounding said sleeve and said clamping ring and having threaded engagement with the coupling member, said sleeve being dimensioned so as to extend some distance along the tube outside of said nut, said nut having an inwardly facing tapered shoulder adapted to engage an outwardly tapered face on the outer end of said ring said tapered face on said nut being of a slightly greater angle than the angle of the tapered face of the ring, whereby when said nut is turned onto said coupling member, said ring will be moved longitudinally of the tube for clamping the flared end of the tube against the seat and said ring will be contracted at its outer end so as to tightly clamp the sleeve against the tube in the region engaged by the ring, and place the portions of the sleeve extending outwardly therefrom in contact with the tube for dampening vibrations imparted thereto.

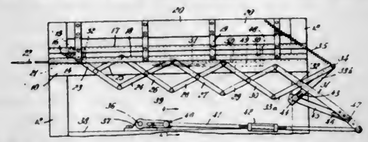
2,351,363
COUPLING FOR TUBES
Arthur L. Parker, John N. Wolfram, and Wilton Margrave, Cleveland, Ohio, assignors to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application August 20, 1942, Serial No. 455,502
6 Claims. (Cl. 285—123)



1. A coupling for tubes comprising a body member to which the tube is attached, a clamping means having a threaded connection therewith, a gripping sleeve surrounding the tube adjacent the inner end therepf, said body member having a bore to receive the tube and a camming surface at the entrance of the bore, said clamping means being dimensioned so that when forced endwise onto the outer end of the gripping sleeve said sleeve will be contracted into gripping contact with the tube and secured thereto, said clamping means and sleeve having cooperating parts adapted to contact and prevent further relative movement between the clamping means and the sleeve for limiting the extent of contraction of the outer end of the sleeve by the clamping means and for positively urging the gripping sleeve against the camming surface into sealing contact therewith and for causing the inner end of the sleeve to be contracted into tight sealing engagement with the tube.

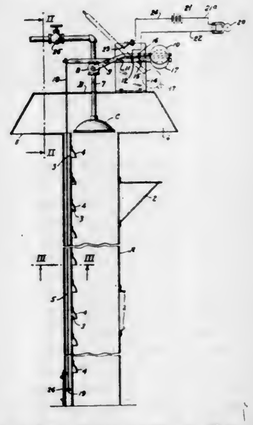
2,351,364
LOOM
Vincenzo Petruccione, Amsterdam, N. Y.
Application December 10, 1943, Serial No. 513,672
9 Claims. (Cl. 139—123)

1. In a loom, the combination of a needle movable into and out of the shed, a lazy-tongs system of levers including an element at one end connected to the needle and a rocker arm and a scissors arm at the other end pivotally mounted on the same pivot, oscillation of the arms in



opposite directions about the pivot causing extension and retraction of the system and corresponding movements of the needle, and means for oscillating said arms.

2,351,365
FIRE EXTINGUISHER
Umberto Piagneri, San Francisco, Calif.
Application December 22, 1941, Serial No. 423,998
4 Claims. (Cl. 169—2)

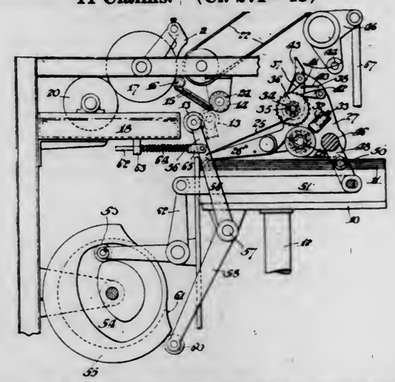


1. The combination with a flue or chute in which combustible material may collect of a sprinkler for directing water into the chute, a valve normally shutting off the water supply to the sprinkler, a flue adjacent the chute, openings formed in the chute in communication with the flue, means for directing flames and products of combustion when a fire occurs in the chute through said openings and upward through the flue, a heat destructible cord extending through the flue, said valve being maintained in closed position by said cord and means for opening the valve upon destruction of the cord.

2,351,366
PROCESS OF PREPARING ACETOACETIC ESTERS
Franz Josef Pohl, Hofheim, and Walter Schmidt, Frankfort - on - the - Main-Hochst, Germany; vested in the Alien Property Custodian
No Drawing. Application June 15, 1940, Serial No. 340,838. In Germany July 3, 1939
8 Claims. (Cl. 260—483)

1. The process which comprises causing diketene to act upon a compound of the group consisting of alcohols, phenols, alkyl mercaptans and thiophenols in the presence of a catalyst of the group consisting of tertiary nitrogen bases and salts having an alkaline reaction in aqueous solution.

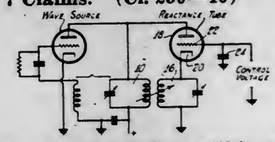
2,351,367
SHEET FEEDING MECHANISM
Ernest G. Rider, Philadelphia, Pa.
Application December 17, 1941, Serial No. 423,273
11 Claims. (Cl. 271—43)



1. A sheet feeding mechanism comprising a strip of material having a surface coated with adhesive, means to mount said strip in stretched condition, said means being contoured to provide a line contact between said strip and a sheet of material, and means to shift said mounting means to deliver a sheet picked up by said strip to a selected location.

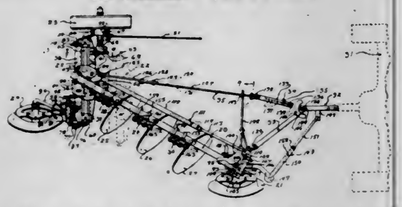
10. A sheet feeding mechanism comprising a support for a stack of sheets to be separated, a sheet separating device having a plurality of substantially linearly disposed teeth, and means for moving said device toward the side of said stack and angularly upwardly along the face of said stack to separate the edge portion of one or more sheets from the stack or from each other.

2,351,368
REACTANCE TUBE
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 3, 1942, Serial No. 445,613
7 Claims. (Cl. 250—40)



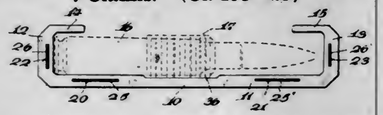
1. In a system for providing, within a selected range of frequencies, a variable reactance between a pair of terminals, one of which terminals is at unvarying potential, a coil connected between said terminals, a reactance tube having a plurality of cold electrodes and a cathode, an inductance connected between said cathode and ground and further elements for producing within said range of frequencies, a substantially pure resistive impedance between said cathode and ground, mutual inductance between said coil and said inductance, a connection between a point on said coil other than the point connected to the terminal of unvarying potential and a cold electrode of said reactance tube, a low impedance radio frequency connection between another cold electrode and ground, and means for impressing control voltage of relatively low frequency upon one of said cold electrodes to control the transconductance of said tube and thereby the effective reactance between said terminals.

2,351,369
DISK PLOW
Alvah E. Rutter, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation
Application October 16, 1941, Serial No. 415,153
13 Claims. (Cl. 97—53)



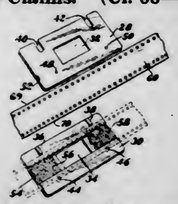
1. In a disk plow having a member of I-beam cross section and providing a channel on either side thereof and means for supporting the forward end of the beam, a rear truck for supporting the rear end of the beam, said beam providing a plurality of holes for a fastening means, said truck having means fitting within the channels and slidably engaging the beam whereby it may be shifted relatively to the beam for changing the length of the disk plow, while remaining in supporting relation to the beam, said engaging means providing a hole for a fastening means, and a fastening means engaging the holes for securing the truck to the beam in various positions.

2,351,370
CHUTE
Louis W. Schaaff, Jackson Heights, N. Y., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York
Application November 30, 1942, Serial No. 467,414
7 Claims. (Cl. 193—25)



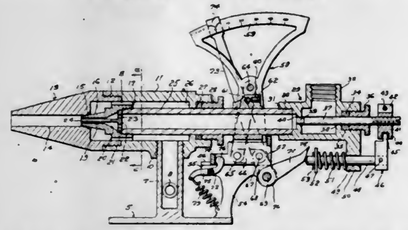
1. A cartridge belt chute comprising a plurality of individual sheet-form elements of channel-shape arranged on edge, the elements being provided with apertures, and flexible means threaded through said apertures and securing the elements in side-by-side relationship.

2,351,371
FILM CLEANER
Roland L. Smith, Belmont, Mass.
Application March 22, 1941, Serial No. 384,683
3 Claims. (Cl. 88—24)



1. The combination of an enlarging camera and a film holder and cleaner, comprising a light source and a lens, a supporting platform on which said film holder and cleaner may be mounted, said film holder and cleaner comprising two separable plates, each plate having an aperture therethrough, means for maintaining said apertures in alignment when said plates are in face-to-face engagement, each plate having areas recessed endwise of its aperture, the areas at the sides of each aperture being higher than the recessed areas, brushes on the interior faces of said plates positioned in said recessed areas, the surfaces of said brushes extending above the areas at the sides of said apertures, means associated with said camera for urging said plates together whereby a film longitudinally positioned between said plates may be cleaningly engaged by said brushes at the ends of said aperture and frictionally engaged by the areas at the sides of said apertures.

2,351,372
OIL BURNER
Clay M. Snyder, Anniston, Ala.
Application August 22, 1942, Serial No. 455,803
5 Claims. (Cl. 299—140)



1. An oil burner comprising a support, a horizontal tubular oil chamber on said support, a nozzle on the forward end of said oil chamber having a discharge passage axially aligned with, but having a substantially smaller diameter than that of the interior of said oil chamber and communicating therewith, said passage terminating at its rear end in a tapered valve seat, a fluid pressure tube axially slidably mounted through the rear end of said oil chamber with the sides of said tube in spaced relation to the walls of said oil chamber, a valve mounted on the forward end of said tube, said valve comprising a body slidably fitting said oil chamber and having peripheral channel forming conduits connecting the forward and rearward parts of the oil chamber, said body being formed with a bore receiving the forward end of the said tube, said bore tapering forwardly to a reduced cylindrical bore portion opening through the forward end of the body, a perforated plate across the entrance to the tapering part of the bore, a rod projecting forwardly from said plate in coaxially spaced relation to said reduced cylindrical bore portion whereby to form an annular orifice, the forward part of said body terminating in a tapering valve terminal for seating relative to the valve seat at the rear end of the passage in the nozzle, oil supply means connected with the oil chamber behind said valve body, a conduit for fluid under pressure connected to said fluid pressure tube, and control means comprising mechanism for moving said pressure tube longitudinally to controllably unseat said valve terminal from the valve seat at the rear end of the discharge passage of the nozzle.

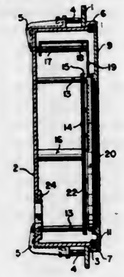
2,351,373
REVERSIBLE WINDOW SHADE
Arthur L. Thexton, Fort Thomas, Ky., assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application December 7, 1942, Serial No. 468,026
6 Claims. (Cl. 160—238)

2. In a reversible window shade, a hem pocket formed at one end thereof, a tubular sheet member positioned within said pocket, said tubular member being coated with adhesive on the inner



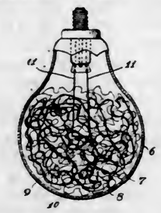
surface thereof and a stiffening slat interposed between the sides of said tubular member and preventing contact between said sides.

2,351,374
INSTRUMENT CASING
Roy Ullman, Roslyn, and Coleman B. Moore, Carroll Park, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 6, 1939, Serial No. 307,822
1 Claim. (Cl. 73—151)



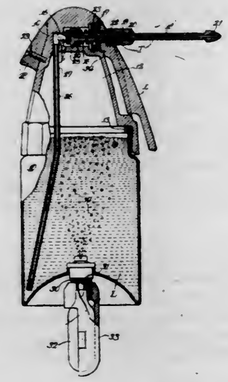
An instrument casing comprising a box-like structure having an open side, a flange extending around said casing adjacent said open side and adapted to abut against a support for the casing, horizontal ledges extending from the flange at the top and bottom of said opening, a door for said opening received within said ledges, means for pivotally mounting said door on said ledges, and wedge means formed on said ledges to guide said door into proper position as it is closed.

2,351,375
FLASH LAMP
Johannes Antonius Maria van Liempt and Pieter Leijdens, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application January 15, 1941, Serial No. 374,592
In the Netherlands December 16, 1939
6 Claims. (Cl. 67—31)



1. A flash lamp comprising a bulb, a gaseous filling, a quantity of comparatively thick wire within said bulb and acting as the secondary light-emitting element, a quantity of wire within the bulb and acting as an intermediate ignition material, said latter wire having a diameter less than about 45 microns and being of a readily-ignited actinic alloy of the group consisting of an aluminum-magnesium alloy other than an aluminum-magnesium alloy containing 13% to 85% by weight of magnesium, an aluminum-zinc alloy containing not more than 20% zinc, an aluminum-cadmium alloy containing not more than 80% cadmium, and an aluminum-cadmim-zinc alloy containing not more than 20% zinc, and an explosive primary ignition paste for igniting said latter wire.

2,351,376
SPRAYING DEVICE
Lawrence T. Ward, Philadelphia, Pa., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application July 7, 1941, Serial No. 401,337
5 Claims. (Cl. 299—95)

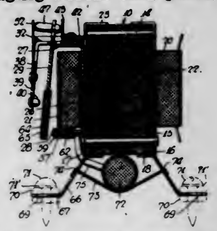


1. A spraying device of the character disclosed comprising a container for liquid and gas under pressure, a passageway through a wall of said container, a discharge tube in said passageway having on its outer end a discharge nozzle and on its inner end a valve plug, a valve seat in said passageway, a nut threaded into said passageway and located outwardly relative to said valve plug, a spring interposed between said nut and said plug to normally retain said plug seated against said seat, a lever having one end surrounding said discharge tube, a shoulder on said tube, said lever having an edge pivoting against said container at a point spaced from the axis of said tube, the surrounding portion of said lever directly engaging said shoulder to effect outward movement of said discharge tube and thereby unseating of said plug relative to said seat, and a syphon tube extending from said passageway to an intake position below the level of liquid in said container.

2,351,377
ELECTROMAGNET STRUCTURE
Adolph Warsher, Maywood, N. J., assignor, by mesne assignments, to Maxwell M. Bilofsky, Newark, N. J.
Application September 25, 1940, Serial No. 358,190
6 Claims. (Cl. 200—87)

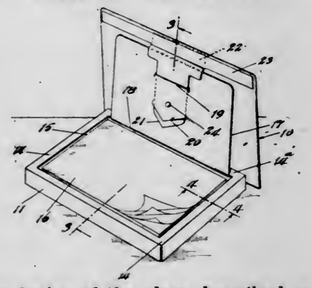
1. In a relay of the type that comprises a magnetic yoke having a fixed air gap, an electro-

magnetic coil about one arm of said yoke and an auxiliary yoke through said coil having a pair of poles straddling said coil and an armature and contact assembly associated with said latter yoke; the combination in which said assembly comprises a non-magnetic sheet metal bracket including a plate and a wing, said plate being removably affixed in face to face engagement with one of said poles, an armature extending through a slot in said bracket plate and having lateral notches straddling the ends of said slot, said armature bridging across said poles, and the ex-



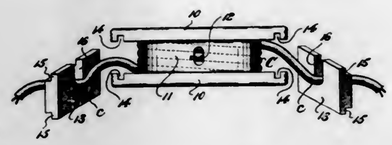
tremity thereof protruding beyond said bracket, an insulating plate affixed to said bracket plate, a pair of contact arms riveted to said insulating plate, one of said contact arms being resilient and biased to open contact position, the wing of said bracket having an armature stop near its lower end, a leaf spring riveted to said wing and extending upward therefrom, and an insulating rod carried by and extending transversely through the protruding end of said armature and engaging and serving as a thrust transmitter between said spring and said resilient contact arm.

2,351,378
COMBINATION DISPLAY BOARD, CONTAINER, AND PAD
Samuel Weissman, New York, N. Y.
Application July 27, 1943, Serial No. 496,339
8 Claims. (Cl. 206—44)



1. In a device of the class described, a display board and a base portion, the base portion comprising a container and pad therein supported by the bottom wall thereof, the upper wall of the container being apertured whereby access may be had to the pad, a cover flap pivotally associated with the container and adapted to overlie the apertured portion of the said upper wall, a flexible tongue attached to the display board and having a free portion detachably secured to said cover flap, said board being attached to the base portion only at the region of the connection of said tongue, the board being otherwise free for relative movement with respect to the flap and base portion, whereby the board may be pivotally moved between various predetermined open positions with respect to the container and a closed position in resting engagement upon the said upper wall of the container.

2,351,379
SHORTENING TAKE-UP FOR CORDS OR THE LIKE
Herman H. Wehringer, Montclair, N. J.
Application November 18, 1942, Serial No. 465,985
3 Claims. (Cl. 24—71.2)



1. A device for the purposes described comprising a spool-like body formed by spaced rectangular flat faced flange members and an intermediate shank portion of substantially less length and width upon which windings of a cord or cable to be served are received and wound between said flange members, a closure element detachably engaged between aligned ends of said flange members at each end of the body, each said closure element having an indented slot to receive an outwardly extending portion of the wound cord or cable, and said slots being disposed perpendicular to the planes of the flange members whereby their open ends are closed against escape therefrom of the cord or cable extension, the closed ends of said slots being positioned in substantial alignment with the longitudinal axis of said body when said closure elements are operatively applied to the body ends, whereby to dispose said cord or cable extensions in substantially axial projection from the body ends and to retain the cord or cable portions wound upon the body against unwinding, loosening or like displacement, said body being adapted to lie flat upon a supporting surface without tendency to roll or shift about.

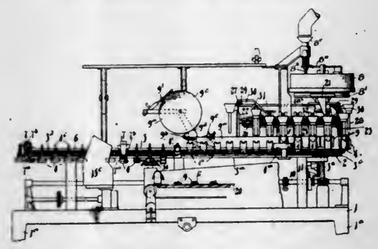
2,351,380
ANTI-RING-STICKING LUBRICANT
Ellis R. White, Albany, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 13, 1942, Serial No. 438,726
10 Claims. (Cl. 252—34)

1. Lubricating oil comprising a mineral lubricating oil and dissolved a small amount of an oil-soluble aluminum salt of an alpha-aromatic amino monocarboxylic acid which contains a sufficient number of carbon atoms in the acid to make said salt oil-soluble and which is resistant to oxidation under normal lubricating conditions in internal combustion engines said amount being sufficient to reduce ringsticking.

2,351,381
PROCESS FOR THE CONVERSION OF KETOXIMES INTO ACID AMIDES
Georg Wiest, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application April 19, 1940, Serial No. 330,467. In Germany May 5, 1939
6 Claims. (Cl. 260—239)

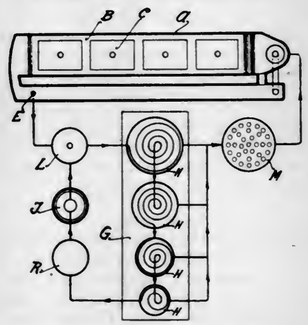
1. In the process for converting ketoximes into acid amides by means of sulphuric acid the step which comprises starting with a moist ketoxime, effecting the conversion by means of an amount of oleum the SO_3-content of which is sufficient to form an about 100 per cent sulphuric acid with the water introduced with the oxime the mixture of the reagents being diluted with a liquid comprising sulphuric acid containing at the most 2 per cent of water the total amount of sulphuric acid being sufficient for substantially assisting the dissipation of the reaction heat.

2,351,382
PACKAGING MACHINE
Victor G. Williams, Toronto, Ontario, Canada
Application January 11, 1940, Serial No. 313,307
In Canada January 17, 1939
4 Claims. (Cl. 226—50)



1. In a packaging machine, in combination, an elongated endless carrier provided with a plurality of equally spaced gripper members each comprising a pair of jaws, means for advancing a V-shaped strip of bag forming material between the open jaws of said grippers, a second elongated endless carrier provided with a plurality of spaced nozzles arranged to be advanced in alignment with said gripper members, means for lowering said nozzles between the walls of said V-shaped strip, material feeding means for depositing a charge of material into successive nozzles, and means for closing successive of said gripper jaws upon said V-shaped strip and about said nozzles prior to arriving at said material feeding means.

2,351,383
PROCESS FOR THE MANUFACTURE OF ZINC
Hermann Wolf, Ernst Kuss, Hans Hohn, and Fritz Stietzel, Duisburg, Germany; vested in the Alien Property Custodian
Application June 21, 1938, Serial No. 214,954
In Germany June 21, 1937
8 Claims. (Cl. 204—117)



1. Process for the production of zinc from zinc-containing lyes which comprises electrolytically depositing zinc continuously from said lyes at a temperature in excess of 55° C. into a mercury cathode to form a readily flowable amalgam which electrolysis is effected without the use of a diaphragm, and circulating the amalgam in horizontal rows or streams while avoiding turbulence and insuring uniform motion, the amalgam being circulated at such a slow rate of speed that no isolated deposits of high zinc concentration occur.

2,351,384
LITHIUM SOAP GREASE
Harold A. Woods and Jacobus M. Plantfeber, Martinez, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 18, 1942, Serial No. 466,068
12 Claims. (Cl. 252—42)

1. A low temperature grease consisting essentially of a hydrocarbon oil having a V. G. C. greater than .84 and a pour point below —60° F., and containing between about 3% and 10% by weight of a lithium soap of a fatty acid of 12 or more carbon atoms, between about .01% and .5% by weight of free fatty acid having 12 or more carbon atoms and between about .01% and 2% by weight of an oxidation inhibitor selected from the class consisting of N-alkylated para-phenylene diamines and polynuclear aromatic amines.

12. A low temperature grease consisting essentially of a hydrocarbon oil having a V. G. C. greater than .84 and a pour point below —60° F., and containing between about 6% and 9% by weight of a lithium soap of a fatty acid of 12 or more carbon atoms and between about .01% and .5% by weight of free fatty acid having 12 or more carbon atoms.

2,351,385
PROCESS OF PREPARING ANHYDROUS SODIUM-ORTHOSILICATE
Eduard Zintl, Darmstadt, Germany; vested in the Alien Property Custodian
No Drawing. Application December 19, 1940, Serial No. 370,863. In Germany November 11, 1939
4 Claims. (Cl. 23—110)

1. A process of preparing anhydrous sodium orthosilicate in a single heating step which comprises, heating a mixture of caustic soda and a compound of the group consisting of silicic acid, sodium metasilicate and sodium disilicate in proportions to form the orthosilicate to a temperature between 300° C. and 402° C. while maintaining the partial pressure of water vapor above said reaction mixture below that calculated according to the equation:

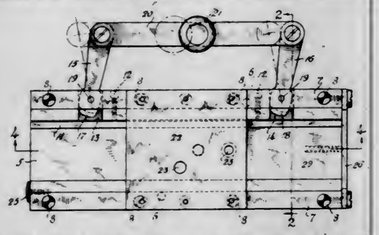
$$\log p_2(\text{mm.}) = -\frac{11980}{4.571.T} + 6.268$$

wherein T is the absolute temperature on the centigrade scale.

2,351,386
ALIGNMENT GAUGE
Frank C. Zucker, New York, N. Y.
Application December 23, 1942, Serial No. 469,933
1 Claim. (Cl. 95—86)

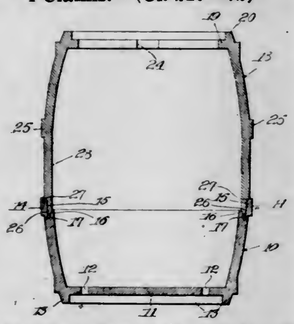
An alignment gauge for photographic equipment comprising a bed plate having a fixed angularly disposed sliding surface and a movable angularly disposed slide bar, a sliding platform having a dove-tailed extension corresponding in angularity to the sliding surfaces of the bed plate, and a double acting locking mechanism for locking said movable slide bar against the dove-tailed surface of the sliding platform, said double

acting locking mechanism comprising a pair of cam levers, having cam surfaces in contact with said movable slide bar, and a cross-bar connecting the opposite ends of the cam levers, whereby movement of said cross-bar in either direction lengthwise thereof causes a corresponding move-



ment of said cam levers and the abutment of their cam surfaces against the movable slide bar to lock said bar against the sliding platform, including a stop bar at one end of the bed plate adapted to be moved from a position in which the raceway of the bed plate is uncovered, permitting removal of the sliding platform from said bed plate, to a position in which said stop bar constitutes an abutment for the sliding platform.

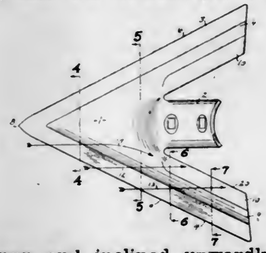
2,351,387
MOLDED BARREL-SHAPED CONTAINER
Edward A. Anderson, Chicago, Ill.
Application December 14, 1939, Serial No. 309,250
4 Claims. (Cl. 217—72)



1. A molded barrel-shaped container formed of two parts, one of said parts constituting substantially one-third of the barrel and the other part constituting substantially two-thirds, an integral rib carried by one of said parts adjacent the junction thereof with the other part, said other part having the mating end portion reduced, the portion of the barrel to the inside of said rib being cut away to provide a recess and a trough receiving the adjacent portion of the other barrel part, said adjacent portion being received entirely within said recess and trough to provide a smooth inner surface for said barrel, and cement sealing said parts together and concealed by said rib.

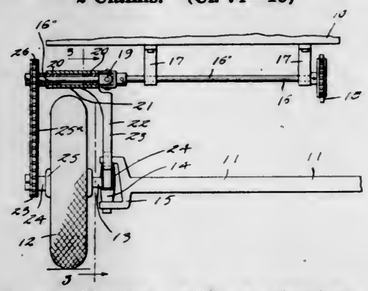
2,351,388
AGRICULTURAL SOIL WORKING TOOL
William R. Baxter, Garfield Heights, Ohio, assignor to The Empire Plow Company, Cleveland, Ohio, a corporation of Ohio
Application May 19, 1941, Serial No. 394,057
1 Claim. (Cl. 97—204)

A one piece wing sweep comprising a forwardly pointed, upwardly convexly rounded body portion, a stem extending upwardly rearwardly from the body portion for attaching the sweep to an implement, a pair of wings diverging rearwardly from the body portion on opposite sides of the stem, each wing comprising a cutting edge, the cutting edges lying substantially in a plane and converging into the forward point, each wing



being planar and inclined upwardly inwardly from the cutting edge at a dihedral angle with the plane of the edges, and each planar wing at portions spaced inwardly from the cutting edge having a planar wing portion extending substantially parallel with the wing edge and disposed substantially parallel with the plane of the edges.

2,351,389
MECHANICAL MOVEMENT
Roy T. Bedard, Escanaba, Mich.
Application August 12, 1942, Serial No. 454,607
2 Claims. (Cl. 74—13)



1. In combination with a steering wheel mounted on a spindle to turn on a vertical axis, bearing means on one side of the wheel rigid with and rising from said spindle, said bearing means being of inverted L shape with one arm in the form of a sleeve disposed above and extending outwardly across the wheel, a power-takeoff shaft means journaled in said sleeve to operate an auxiliary part, said shaft means having a universal joint approximately in line with said axis enabling it to flex in accordance with steering movement of the wheel, and means to drive the shaft from the wheel disposed on the side of the latter opposite to said bearing means.

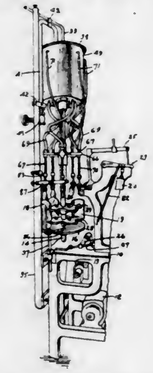
2,351,390
PROCESS OF PREPARING CARBON TETRAFLUORIDE
Anthony F. Benning, Woodstown, N. J., and Joseph D. Park, Wilmington, Del., assignors to Kinetic Chemicals, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application September 15, 1942, Serial No. 458,446
4 Claims. (Cl. 260—653)

4. The process of producing CF_4 which comprises burning $CF_2{=}CF_2$ in an atmosphere comprising oxygen, and isolating the CF_4.

2,351,391
PROCESS FOR MANUFACTURING 1,3-ISOQUINOLINEDIOLS
Herman A. Bergstrom, Albany, N. Y., and Walter V. Wirth, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 15, 1943, Serial No. 472,480
4 Claims. (Cl. 260—289)

1. The process of making a 1,3-isoquinolinediol which comprises treating with ammonia gas a compound of the group consisting of homophthalic acid and its mono-nitro, -chloro and -methyl substituted analogues in solution in a non-reactive liquid organic solvent having a boiling point above 140° C., wherein the reaction mixture is heated to a temperature of at least 145° C. and the ammonia gas is passed into the mixture until the acid is converted to the 1,3-isoquinolinediol.

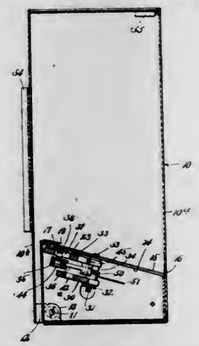
2,351,392
FILLING APPARATUS
George M. Biner, Los Angeles, Calif.
Application March 29, 1941, Serial No. 385,840
4 Claims. (Cl. 226—68)



1. In a machine of the character described, the combination of a rotary upright shaft, a container support connected to rotate with said shaft, a filling tank also rotating with said shaft above the support, filling tube means flexibly connected to the tank and pivotally mounted to swing radially outwardly with respect to the shaft to engage a container for disposition on the support, means in connection with the shaft and cooperating with said filling tube means to hold engaged containers at definite stations on the support, a stationary cover for the tank having liquid supply means for said tank, a standard rising beyond the filling tube means, a bracket arm carried by said standard and stationarily supporting said tank cover, and a member stationarily supported on said standard and projecting toward the path of rotating movement of the filling tube means to swing unengaged filling tube means inwardly toward the shaft to avoid engagement thereof with the standard.

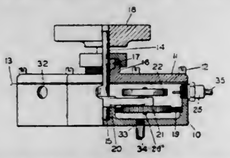
2,351,393
DISPENSING APPARATUS
George J. Bohlman, Somerville, Mass.
Application September 12, 1941, Serial No. 410,550
10 Claims. (Cl. 312—55)

3. A dispensing apparatus for folded paper cups and the like, comprising in combination, a container for receiving a stack of folded paper cups, a housing disposed at the lower end thereof, said housing having a forwardly inclined top portion, the front wall of said container having a delivery outlet adjacent the forward end of the top portion of said housing, cup ejector means mounted for reciprocation on said top portion, said ejector means being provided with means for preventing



the distortion of the cup during the ejection thereof, a manually actuated lever pivotally connected to one of the walls of said housing for movement in a plane substantially parallel to that of the inclined top portion of said housing and projecting through a slot in one of the side walls of said container, and connections disposed within said housing and between said lever and said ejector means.

2,351,394
MULTIPLE-POINT CONNECTING DEVICE
Carlton W. Bristol, Naugatuck, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application February 11, 1942, Serial No. 430,429
14 Claims. (Cl. 74—52)

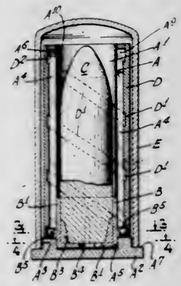


1. In combination with a member adapted to travel in a predetermined path for actuating an element for limited translation in a sense transverse to said path, a stationary gear member disposed with its pitch line substantially parallel to said first-named path, a pinion mounted on an axis carried by said traveling member and meshing with said gear member, a rotatable part integral with said pinion and having a cylindrical surface coaxial with the same and adapted to engage said element at indefinite points of said surface and for a limited portion of the travel of said traveling member.

2,351,395
LIPSTICK CONTAINER-DISPENSER
Harry Broder, New York, N. Y.
Application January 6, 1942, Serial No. 425,728
12 Claims. (Cl. 206—56)

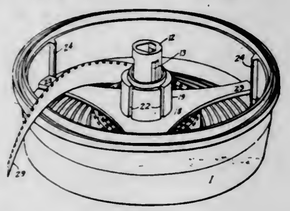
1. A container-dispenser for a lipstick cartridge, said container-dispenser being composed wholly of molded plastic material and including, in combination, a cartridge receptacle, an

inner shell member presenting a bore to accommodate said receptacle, an outer shell member relatively rotatable with respect to said inner shell member, in one direction, to project the lipstick cartridge outwardly from the bore for use and in the opposite direction, to retract the lipstick cartridge into the bore, said inner shell being molded with a base portion and two sub-



stantially semi-cylindrical sections diverging from said base portion and formed with bosses at the ends thereof opposite the base portion, said sections, upon insertion of the inner shell into the outer shell, being maintained in parallel relation under internal stress and said bosses being adapted to seat in a complementary recess formed in the outer shell member and to be held in said recess by the internal stress in said inner shell.

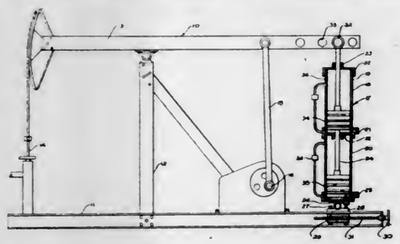
2,351,396
FILM DEVELOPING TANK AND METHOD
Allan Broms, Whitestone, Long Island, N. Y.
Application January 8, 1941, Serial No. 373,582
23 Claims. (Cl. 95—90.5)



1. A film reel comprising spaced apart flanges, one of which is rotatable while the other is held stationary, one of said flanges being provided on its inner face with a spiral groove, while the other of said flanges constitutes an abutment to hold wound film in the groove and is provided on its exterior face with means for supporting the film to be fed to said groove.

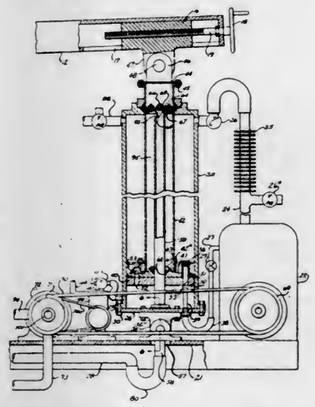
2,351,397
VACUUM OPERATED COUNTERBALANCE
Conrad R. Buchet, Los Angeles, Calif., assignor of one-third to Darrell Marsden Dowding and one-third to John Cummings Tyler, both of Los Angeles, Calif.
Application August 29, 1941, Serial No. 408,781
3 Claims. (Cl. 267—1)

1. In a counterbalance for a walking beam member, a support member, a cylinder, means to pivotally attach the cylinder to one of the members, a piston in the cylinder, said piston including a rod, means to pivotally attach the piston rod to the other member, means to shift the piston rod attaching means along the member to which it is attached, means to at all times bleed one end portion of the cylinder to the atmosphere, said cylinder having a passage in the other end portion thereof extending to the atmosphere, and valve means for controlling communication through said passage to the atmosphere, said valve means including a valve member movable to normally prevent passage of



air into the cylinder but permitting ready passage of air from the cylinder, a conduit having one end opening into the cylinder adjacent the lower end thereof, said conduit also opening into the cylinder adjacent the upper end thereof, the volume in the cylinder below the piston when the piston is in its extreme down position being less than the volume of the conduit, and a mixture of oil and mercury in the cylinder.

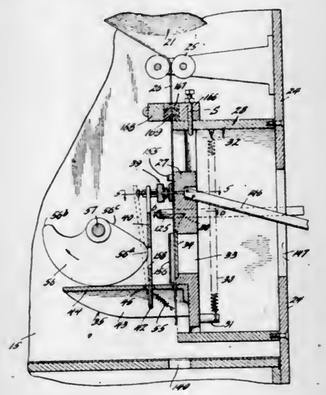
2,351,398
HYDROVACUUMATIC BALANCE
Conrad R. Buchet, Los Angeles, Calif., assignor of one-third to Darrell Marsden Dowding and one-third to John Cummings Tyler, both of Los Angeles, Calif.
Application December 29, 1941, Serial No. 424,761
4 Claims. (Cl. 60—51)



1. In a well pumping device, a hollow tubular supporting post, a walking beam pivotally mounted intermediate its length on the post, a substantially vertical cylinder adjacent to one end of the beam, a piston slidably mounted in the cylinder, said piston including a head portion within the cylinder and a tubular portion, said tubular portion being spaced from the cylinder and projecting beyond the upper end of the cylinder, the upper end of the tubular portion being closed, means pivotally connecting the projecting portion to the walking beam, a hollow column in the piston tubular portion and spaced therefrom, means

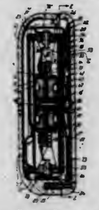
to support the hollow column, said column having a closure at the upper end thereof, said closure including a head portion which slidably receives said piston tubular portion, said closure being spaced from the upper end of the tubular portion, said column having an outlet to the space between the column and the piston tubular portion, conduit means connecting the interior of said column and the lower portion of said post, said conduit means including a pump and a four way valve, means operated by the walking beam to actuate the four way valve so that fluid is alternately moved from the post to the column and vice versa, means whereby passage of fluid into the post compresses air in the upper portion of the post, pipe means to direct air compressed in the upper portion of the post to the upper portion of the cylinder, a valve in said pipe means and means operated by the walking beam to actuate said last mentioned valve, a source of suction, and means to connect the portion of said cylinder below the piston to the source of suction.

2,351,399
PHOTOGRAPHIC APPARATUS
Joseph P. Caracciolo, Felix Caracciolo, and Gennaro Caracciolo, Trenton, N. J.; said Joseph P. Caracciolo assignor to Lucy C. Caracciolo, Trenton, N. J.
Application May 26, 1942, Serial No. 444,574
25 Claims. (Cl. 88—18.4)



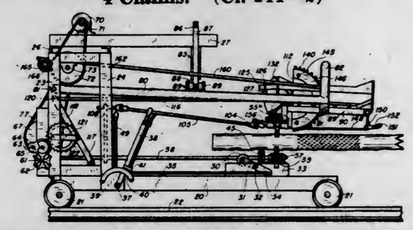
1. A photographic apparatus comprising a lens, means for intermittently feeding a light sensitive strip across the light axis of said lens at substantially the focal point thereof, including a member mounted for reciprocation across the light axis of the lens substantially at the focal point thereof but between the path of said strip and said lens, said member having an exposure aperture movable into and out of alignment with the light axis of the lens as said member is reciprocated, means movable with said member and operable when actuated to hold said strip in fixed relation to said reciprocable member, means for reciprocating said member and for intermittently actuating said strip holding means in timed relation whereby to move said member in one direction independently of the strip to bring a portion of said strip in overlying relation to said exposure aperture, and then to move the strip and said member together in the opposite direction to bring the exposure aperture into alignment with the light axis of the lens.

2,351,400
MICROPHONE
Richard W. Carlisle, Elmsford, N. Y., assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York
Application July 29, 1940, Serial No. 348,108
14 Claims. (Cl. 179—107)



1. In a microphone having a vibratory mechano-electric energy translating element: a diaphragm one side of which is exposed to an adjoining air space in which sound is propagated; said diaphragm having a fundamental resonant frequency in the speech frequency range and having a modal region of a higher modal-frequency mode; means including a wall portion overlying a portion of the modal region and forming with it an acoustic enclosure having vent opening portions to said adjoining space; said enclosure and said vent opening portions being arranged and proportioned so as to resonate at said higher modal frequency and to cause said diaphragm to be effectively excited at its fundamental and modal frequencies; said vibratory element being actuated by a portion of the diaphragm which is set into vibration through excitation by the sound waves in said enclosure and by sound waves acting directly on the part of the diaphragm directly exposed to said exterior space.

2,351,401
POLE INCISING MECHANISM
George Charland, Sandpoint, Idaho
Application December 27, 1941, Serial No. 424,619
4 Claims. (Cl. 144—2)

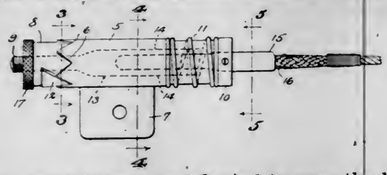


1. Pole incising mechanism comprising a support arm, a track having upturned ends and carried by said support arm, means for raising and lowering said arm to vary the position of said track, a pivot shaft reciprocally movable on said track and guided thereby, means for reciprocating said pivot shaft, a rocker member mounted on said pivot shaft for rocking movement upon reciprocal movement of said pivot means, and means on the curved face of said rocker member for puncturing a pole presented thereto.

2,351,402
SPLICING CLAMP
Ernest E. Clark, Lubbock, Tex.
Application May 20, 1943, Serial No. 487,795
4 Claims. (Cl. 140—121)

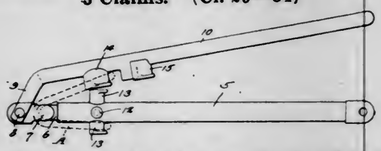
1. In a cable-splicing clamp, a supporting sleeve having open ends and having notches formed in

one end thereof, a tubular body portion positioned within the sleeve and adapted to slide therethrough, a lug on the body portion and adapted to fit within the notches, normally holding the body portion against rotation within the



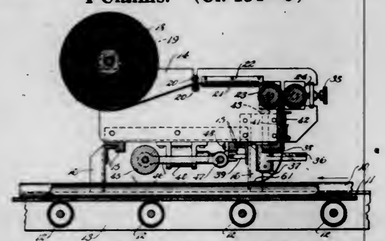
sleeve, yieldable means adapted to urge the body portion in one direction and hold the lug in one of said notches, clamping jaws supported by said body portion, and means adapted to move said jaws into clamping relation with respect to each other.

2,351,403
SHOCK CORD INSTALLATION TOOL
Ernest E. Clark, Lubbock, Tex.
Application June 29, 1943, Serial No. 492,763
3 Claims. (Cl. 29—84)



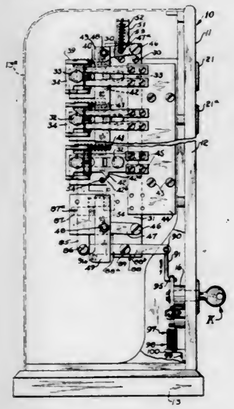
1. A tool adapted for use in stretching and positioning shock cords on airplane landing gear including shock struts having upper, lower and transverse shock cord lugs, comprising a lever, means at one end of the lever for pivotally connecting the same to one end of the shock strut, a lug fixed to and spaced from said end of the lever and adapted to hold one end of a shock cord looped thereover, the shock cord being also looped over the lower lug of the strut, situated on one side of the strut, said lever adapted to be swung upwardly to a position in extended alignment with the shock strut, and downwardly on the other side of the strut, whereby the intermediate portion of the shock cord is stretched over the transverse lugs of the strut, and the end of the shock cord that is looped over the lug of the lever is brought directly over the upper lug of the shock strut situated on the other side thereof, to be transferred to said upper lug of the strut.

2,351,404
PATCH APPLYING APPARATUS
Russell S. Colley, Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 29, 1941, Serial No. 376,451
4 Claims. (Cl. 154—9)



1. Apparatus for applying patches from patch material in extended length to strip material at spaced-apart positions along the same, said apparatus comprising means for advancing the strip material, means for delivering an end portion of the patch material downward into partially flattened disposition in contact with said strip material by intermittent movements, means below said delivering means for severing the end portion of the patch material between the intermittent movements to drop the patches upon the strip material, roller means for pressing said end portion into adhesive engagement with said strip material, and means operatively connected with the patch material delivery means for removing said roller means from the strip material between patch applications.

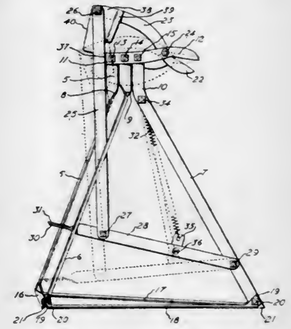
2,351,405
TOLL CHECKING SYSTEM
Benjamin Cooper, Jersey City, N. J.
Application August 3, 1940, Serial No. 350,261
6 Claims. (Cl. 235—92)



6. In a key board, in combination, a plurality of pressible plungers, a switch associated with each plunger, a switch actuating member associated with each switch and its plunger and adapted to be moved upon pressing its plunger to actuate its switch, means to return a pressed plunger to initial position, means to hold the switch actuating member in switch actuating position after the return of its plunger to initial position and to release a switch actuating member previously held in switch actuating position upon subsequently pressing another plunger, a key cylinder, a member movable by said key cylinder, means controlled by said member for locking all of said plungers against movement, and means actuable by said member when it operates said locking means to simultaneously release the last held switch actuating member.

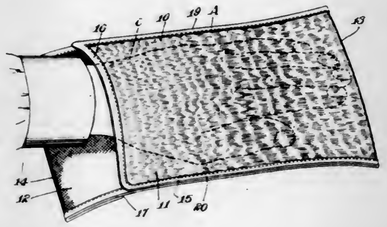
2,351,406
FOOTPOWER SNIP
Charles J. Dalley, Maplewood, N. J., assignor to The W. H. Compton Shear Company, Newark, N. J., a copartnership composed of Max G. Hammerschlag and Arthur L. Myers
Application April 7, 1944, Serial No. 530,075
7 Claims. (Cl. 164—44)

1. A foot power snip, comprising a tripod stand of flat straight bars arranged on-edge in upwardly convergent triangular relation and having the upper ends of two of them twisted into the plane of the third, so that all three occupy the same common plane, a jaw member extending across and fixed to the upper ends of said tripod bars, said jaw member projecting forwardly out over said third tripod bar, a foot lever pivoted on said tripod bar below the fixed jaw member, a



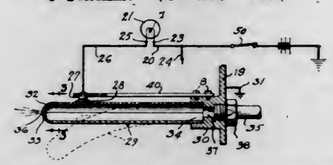
movable jaw member pivoted on the projecting portion of the fixed jaw member, a link pivotally connecting said foot lever with said movable jaw member and spring means for normally supporting the foot pedal and holding the movable jaw member in open position.

2,351,407
SHOE-SHINING KIT
Roger Harry David, St. Paul, Minn.
Application March 4, 1943, Serial No. 477,959
2 Claims. (Cl. 15—227)



1. A shoe shining kit comprising an elongated strip of fabric having a relatively soft fleecy surface and a relatively hard surface, said strip being folded between its ends and one end laid to overlie a portion of the remainder of the strip with the soft fleecy side outermost, the overlying portion of the strip being secured to the remainder of the body of the strip along opposed edges to provide a pocket open at the end of the overlying portion of the strip, the remainder of the strip being folded intermediate its ends with the hard surfaced side of the material outermost, the strip being secured together along opposed edges to provide a pocket having the hard surface of the fabric outermost and with the pocket opening in substantially opposed relation on the opposite side of the strip from the opening of said first named pocket, said second pocket providing a hand hold at one end of said body, a shoe polish stick of a length to fit transversely of the strip adjacent the fold line of the first pocket, said shoe polish stick forming an enlargement at the base of the pocket to provide a means of grasping the folded end of said first pocket.

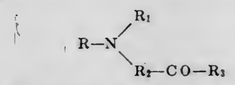
2,351,408
INDICATING SYSTEM
Pierre Stuart de Beaumont, Grosse Pointe, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application October 15, 1941, Serial No. 415,064
6 Claims. (Cl. 177—311)



1. In an indicating system for an engine lubricating system in which oil is delivered to bearings under pressure, a lamp circuit for visibly indicating operating conditions of the lubricating system, and a bimetallic open ended Bourdon tube through which oil from the lubricating system can flow, said tube controlling said lamp circuit through movement in response to temperature and pressure of the oil flowing therethrough.

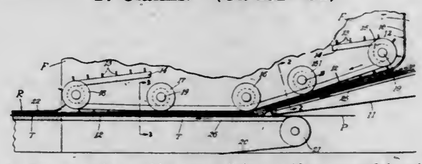
2,351,409
ARYLAMINOKETO COMPOUND AND PREPARATION
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 3, 1941, Serial No. 409,380
7 Claims. (Cl. 260—577)

1. A compound of the following general formula:



wherein R represents an aryl group of the benzene series, R_1 represents a hydroxyalkyl group containing from 2 to 3 carbon atoms, R_2 represents an alkylene radical selected from the group consisting of ethylene and methylethylene and R_3 represents an alkyl group selected from the group consisting of methyl and ethyl.

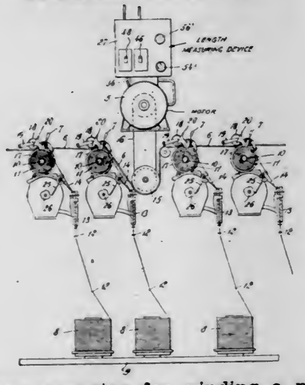
2,351,410
POSITIVE TOBACCO CONVEYER
Frank Di Ianni, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application September 30, 1939, Serial No. 297,253
17 Claims. (Cl. 131—84)



1. In a cigarette machine, the combination with a traveling web having an extended portion for carrying tobacco, of means for guiding a shower of tobacco onto said web, spaced members positioned above said web and forming therewith a trough for the tobacco on said web, spaced tobacco stream confining plates positioned above said spaced members and web to form therewith an elongated trough substantially enclosed on all sides, and tapered flat members fixedly

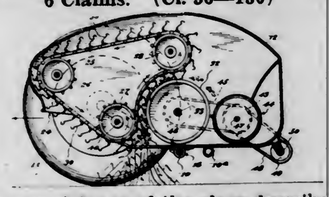
connected to said confining plates and located beneath said plates and in a plane above said web, said tapered flat members being constructed and arranged to project downwardly between said spaced plates to progressively compact tobacco passing through said trough.

2,351,411
THREAD-WINDING APPARATUS
Howard Waters Doughty, Jr., Westfield, Mass., assignor to Tubize Chatillon Corporation, New York, N. Y., a corporation of Delaware
Application August 6, 1941, Serial No. 405,640
13 Claims. (Cl. 33—136)



1. In an apparatus for winding a predetermined length of thread from a primary thread package onto a secondary thread package, the combination with an electric motor for winding the secondary thread package of a length-measuring device operatively connected thereto, a pair of electric switches operatively associated with said length-measuring device, means for alternately closing and opening the switches with one switch closing just prior to the opening of the other switch, manually operated means for alternately including first one and then the other of said switches in an electric circuit supplying current to operate the motor, and means operatively associated with said electric circuit for connecting said motor to a source of electric energy when the electric switch included in the circuit is closed and for disconnecting said motor from said source of electric energy when the electric switch included in the circuit is opened.

2,351,412
GRASS STRIPPER
Erith M. Dowd, Amarillo, Tex., and Clarence S. Johnston, deceased, late of Amarillo, Tex., by Camma L. Johnston, independent executrix, Amarillo, Tex.
Application April 2, 1942, Serial No. 437,448
6 Claims. (Cl. 56—130)



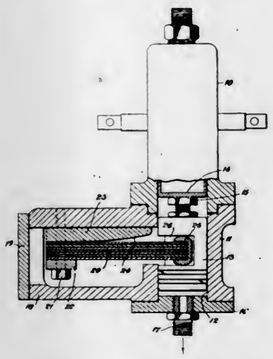
1. A grass stripper of the class described comprising a body, endless stripping means movable within the body and adapted to engage the tops of growing grass stems for pulling seed within the body, a stripping drum carried within the body, rotary supporting elements carried within the body and carrying said endless stripping means, the endless stripping means conforming to the contour of the stripping drum, said rotating supporting elements holding said endless stripping means in close engagement with the stripping drum as the stripping means passes the drum, and the endless stripping means having yieldable seed-gripping elements for pulling seed from the grass and holding the seed in contact with the stripping drum, and means for driving the rotary supporting elements.

2,351,413
METHOD OF TREATING FERMENTED LIQUORS FOR RECOVERY OF GLYCEROL
Eduard Farber, New Haven, Conn., and Victor Dayton and James S. Wallerstein, New York, N. Y., assignors to The Overly Bio-Chemical Research Foundation, Inc., New York, N. Y., a corporation of New York
No Drawing. Application April 3, 1943, Serial No. 481,772
14 Claims. (Cl. 260—637)

1. A method of increasing the yield in the recovery of glycerol by distillation, which comprises acid hydrolyzing the non-volatile residue obtained after distilling out glycerol from a liquor containing the same, and re-distilling the residue after neutralization of the surplus acid.

4. A method of increasing the yield in the recovery of glycerol by distillation, which comprises acid hydrolyzing the non-volatile residue obtained after distilling out glycerol from a liquor containing the same, treating the solution so obtained with a water-soluble form of lignin, and re-distilling the solution after neutralization of the surplus acid.

2,351,414
FUEL INJECTION PUMP
Harold Oatridge Farmer, Hounslow, England, assignor to Alan Muntz & Company Limited, Hounslow, England, a company of Great Britain
Application January 28, 1941, Serial No. 376,259
In Great Britain February 13, 1940
4 Claims. (Cl. 103—50)



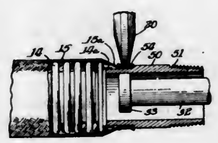
1. In a plunger pump for injecting liquid fuel intermittently into the combustion chamber of an internal-combustion engine, the provision, in operative association with the plunger of the pump, of a leaf spring arranged to oppose movement of the plunger in the fuel-injecting direction and a stop so positioned as to be engaged by said leaf spring and increase the stiffness of the spring as its deflection increases.

2,351,415
GRID SUPPORT
William J. Farrell, Parlin, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application February 2, 1943, Serial No. 474,436
3 Claims. (Cl. 23—288)



1. In an ammonia oxidation converter, a combination of a wire gauze catalyst suitable for ammonia oxidation mounted on a grid support comprising a cobalt-chrome-tungsten alloy substantially free of iron.

2,351,416
COUPLING STRUCTURE
David Wendell Fentress, Barrington, Ill., and Sidney John Hughes, Belvedere Gardens, Calif., assignors to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application August 19, 1942, Serial No. 455,278
6 Claims. (Cl. 285—72)



1. A coupling connection comprising a metal hose, a coupling member secured to the hose end, and a metallic braid in encompassing relation on the hose, the end of the braid also being in encompassing relation upon the coupling member, the wire strands of the braid being relatively welded together along a predetermined annular band portion thereof to form a rigid braid structure and the braid being welded to the coupling member by weld means arranged circumferentially of the structure.

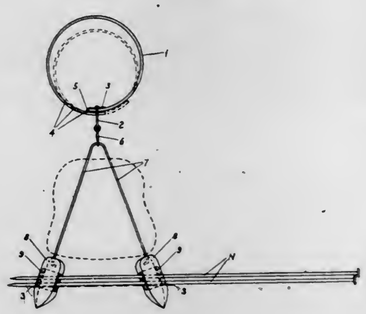
2,351,417
CARTON
George K. S. Ferguson, Wilkinsburg, Pa., assignor to The Baltimore Paper Box Company, Baltimore, Md., a corporation of Maryland
Refiled for abandoned application Serial No. 103,749, October 2, 1936. This application June 2, 1942, Serial No. 445,524
8 Claims. (Cl. 229—6)

1. A fiberboard carton comprising a bottom from which extends side walls converging upwardly from the bottom to the top of the carton, a pair of said walls being secured together at one corner of the carton, the upper end portions of the side walls being folded outwardly and downwardly to provide a rim extending continuously around the walls from said corner back to that corner, means securing the ends of the rim to the



carton, and a cover for the carton formed of fiberboard and having a skirt of double thickness embracing said rim.

2,351,418
YARN AND SPOOL HOLDER
Algernon F. Flournoy, Monroe, La., assignor to Robert Scott Robertson, Shreveport, La.
Application November 7, 1941, Serial No. 418,238
1 Claim. (Cl. 223—106)

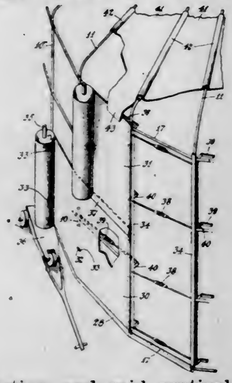


In a holder of the class described, the combination of an arm band and a flexible yarn holding means suspended from the band, said yarn holding means including a pair of flexible downwardly extending diverging spring arms, an elongated knob mounted on the lower end of each spring arm and in alignment with the spring arm, said knobs being rounded at their upper ends and terminating in points at their lower ends to adapt them to be readily pushed into and pulled from a ball of yarn, each of said knobs being provided with a crosswise extending slot, said slots being in non-alignment with each other, whereby to adapt the knobs to yieldably hold a knitting needle or the like.

2,351,419
BUILDING CONSTRUCTION
Richard Buckminster Fuller, New York, N. Y., assignor to The Dymaxion Company, Inc., Wilmington, Del., a corporation of Delaware
Application April 9, 1941, Serial No. 387,589
3 Claims. (Cl. 189—1)

1. A structural unit of the class described comprising a frame-work of compression members arranged to form a support for a continuous polygonal wall, said frame-work comprising peripherally arranged sections and vertically arranged sections, a sheet member wrapped around said frame-work, vertical members secured to the ends of said sheet member, and means disposed between a vertically arranged section of said compression members and one of said vertical

members attached to said sheet for adjustably increasing the distance between said vertically



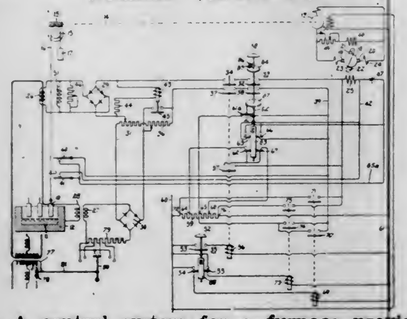
arranged section and said vertical member to tighten said sheet member over said frame-work.

2,351,420

FURNACE CONTROL SYSTEM

Donald E. Garr and George E. Shaad, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application March 27, 1943, Serial No. 480,824
6 Claims. (Cl. 314—75)



2. A control system for a furnace provided with an electrode comprising a motor for moving the electrode thereby to vary the current in the electrode and the voltage between the electrode and a charge, a generator for supplying current to said motor to operate said motor, field excitation means for said generator, means differentially responsive to the current in the electrode and the voltage between the electrode and a charge for energizing said field excitation means thereby to cause said motor to move the electrode and maintain a predetermined current in the electrode, and means responsive to the surge of current in the electrode when the electrode is moved into engagement with the charge for increasing the energization of said field excitation means for increased speed of movement of the electrode during subsequent adjustment of the electrode to maintain said predetermined current.

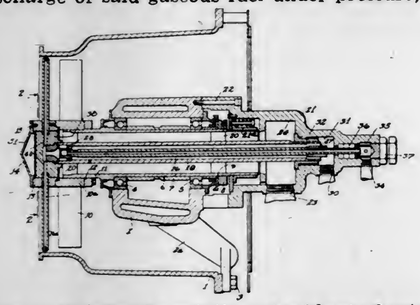
2,351,421

ROTARY BURNER FOR GAS AND OIL

Carl W. Gibson, Linden, N. J., assignor to Coppus Engineering Corporation, Worcester, Mass., a corporation of Massachusetts

Application April 19, 1941, Serial No. 389,297
15 Claims. (Cl. 158—11)

1. In a burner construction of the class described, a casing forming a passage for combustion-supporting air, a gaseous fuel supply conduit extending lengthwise of said passage, a rotatably mounted air-propelling fan in said passage, a set of hollow arms in substantially radial relation to said conduit and in communication therewith to receive gaseous fuel under pressure therefrom, said set of arms being rotatably mounted in said casing substantially coaxially with said fan, and each arm being apertured for the reaction jet discharge of said gaseous fuel under pressure, to



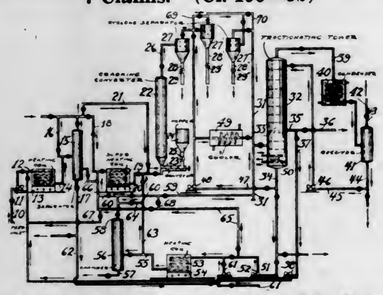
produce thereby the rotation of said set of rotatably-mounted arms, a second set of similarly mounted hollow arms apertured for rotation-producing reaction jet discharge of atomized liquid fuel, said fan being operatively connected to both sets of arms for rotation in unison therewith, means extending axially through said conduit for supplying liquid fuel and an atomizing medium under pressure to the arms of said second set near the axis of said set's rotation, and means substantially in said axis for atomizing said liquid fuel by said medium.

2,351,422

CRACKING OF HYDROCARBON OIL

Edwin J. Gohr, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 9, 1940, Serial No. 328,651
7 Claims. (Cl. 196—52)



6. A process for the conversion of hydrocarbon oils which comprises passing a restricted stream of said oil through an elongated heating zone, heating said oil during passage through said zone to a temperature above the vaporizing temperature thereof, thereafter passing the vapors so formed through a conversion zone, contacting the vapors within said conversion zone with a finely divided conversion catalyst while at conversion temperature, maintaining the oil vapors in contact with said conversion catalyst for a period sufficient to obtain a substantial conversion thereof, thereafter separating a major portion of the finely divided conversion catalyst from the vaporous conversion products, thereafter cooling the conversion products to a temperature

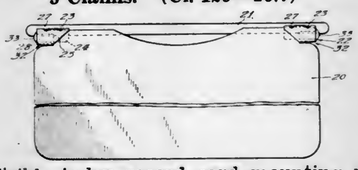
below the condensation point of the higher boiling constituents thereof to form an initial condensate containing a minor portion of unseparated finely divided catalyst, cooling a portion of said initial condensate and recombining it with said vaporous conversion products subsequent to the removal of said major portion of finely divided conversion catalyst as a cooling agent therefor, and combining at least a portion of the initial condensate containing said unseparated catalyst with said oil prior to passing the same through said first-named heating zone.

2,351,423

VISIBLE INDEX

Marchand B. Hall, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Illinois

Application August 24, 1942, Serial No. 455,851
5 Claims. (Cl. 129—16.7)



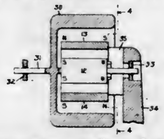
1. Visible index record card mounting means comprising a folded strip of sheet material provided with a pair of apertures in its line of fold the longitudinal edges thereof being at least partially sealed to provide a sleeve, a flexible mounting strip therefor, and a staple within said fold spanning said apertures, the legs of said staple extending freely through said apertures and in return bent engagement with said strip retaining said sleeve in swingable engagement with said strip.

2,351,424

MAGNETIC SUSPENSION FOR HORIZONTAL SHAFTS

Albert Hansen, Jr., Nahant, Mass., assignor to General Electric Company, a corporation of New York

Application December 29, 1941, Serial No. 424,781
13 Claims. (Cl. 308—1)



1. A magnetic suspension for horizontal shafts including with the shaft to be supported a cylindrical permanent magnet coaxial with said shaft and polarized in the direction of its axis and stationary permanent magnets above and below the cylindrical magnet positioned and polarized so that the magnet above the shaft attracts and the magnet below the shaft repels the cylindrical magnet.

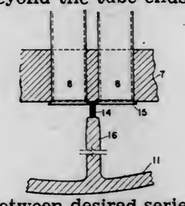
2,351,425

FLUID ROUTING

Lars Hanson, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application September 7, 1942, Serial No. 457,599
1 Claim. (Cl. 29—157.3)

A method of directing the flow of fluid in a desired pass arrangement through a shell and tube structure consisting in providing a shell with tube sheets, positioning a series of tubes within the shell with the spacing between adjacent tubes being less than half the diameter of a tube, projecting said tubes through the tube sheets with the tube ends extending beyond the tube sheets, expanding the projected ends so that they flare outwardly from the tube sheets, frictionally holding between projecting tube ends separate strips of ductile material of a width considerably greater than the projecting tube ends, so that the strips extend beyond the tube ends and position-



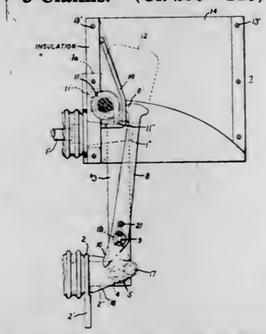
ing the strips between desired series of projecting ends to divide the tubes into a prescribed arrangement of passes, applying adjacent a tube sheet a distributing header having rigid partitioning walls corresponding in interpositioning and in linear extent with said strips so that the partition walls abut the strips, and exerting pressure on the header to cause the partitioning walls to exert pressure upon and expand the portions of the strips held between projecting tube ends to effect interlocking of the same with the tube ends.

2,351,426

ELECTRIC SWITCH

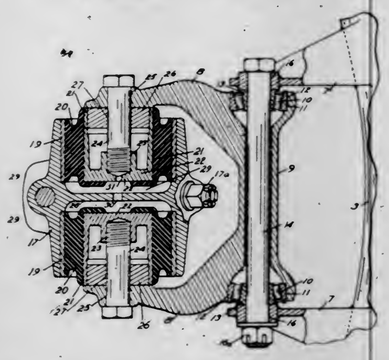
George A. Healis, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York

Application August 22, 1942, Serial No. 455,771
5 Claims. (Cl. 200—146)



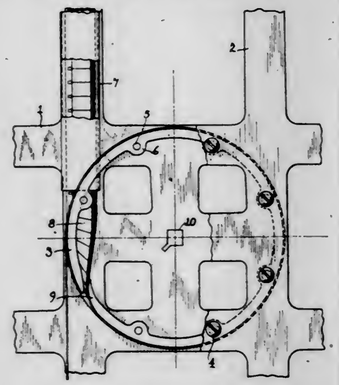
1. An electric switch comprising relatively movable contact structures, one of said contact structures including a pivoted current-carrying member and an arcing member, said arcing member being pivotally mounted on and carried by said current-carrying member, a member fixed with respect to both said members, said arcing member having means arranged to engage said fixed member after predetermined opening movement of said current-carrying member for causing positive opening movement of said arcing member at a rate controlled by and in accordance with the opening movement of said current-carrying member, said arcing member being thereby moved to the open circuit disconnecting position with said current-carrying member, and means for causing said pivoted current carrying member and said arcing member to have their longitudinal axes substantially in alinement when said switch is in the open circuit disconnecting position.

2,351,427
VIBRATION DAMPING MOUNTING
Richard C. Henshaw, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application May 15, 1942, Serial No. 443,105
5 Claims. (Cl. 248—5)



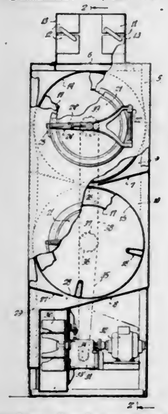
5. In a vibration damping mounting, the combination of a body subjected to torque impulses, links swinging crosswise of the axis of the body and providing torque thrust receiving devices for the body, said devices each comprising inner and outer members, and resilient material, such as rubber, between the members forming a closure between the members and resisting relative longitudinal movement of the members in shear of the material, oppositely facing ends of the material providing opposing faces in fluid containing cavities having enclosing walls, one cavity being extended as the other is contracted through the flexing of the rubber as the members are moved longitudinally relatively to each other, said cavities being connected by a passage permitting a restricted movement of fluid from one cavity to the other.

2,351,428
AUTOMATIC CARRIER FOR STRIP MATERIALS
William Hotine, Westbury, N. Y.
Application July 14, 1939, Serial No. 284,507
9 Claims. (Cl. 242—70)



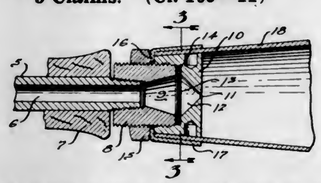
2. A reel for flexible strip material comprising a hub having an opening extending across its face, parallel side members coaxial with said hub, a strip guide on a side member providing a channel extending from the opening in said hub to the periphery of said side member and open at both inner and outer ends and along one edge.

2,351,429
DRYING APPARATUS
Monte F. Huebsch, Milwaukee, Wis., assignor to Huebsch Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 21, 1942, Serial No. 459,090
2 Claims. (Cl. 34—127)



1. In a laundry drying apparatus, the combination of a casing having upper and lower perforated drying drums revolubly mounted therein, an air heater communicating with the top of said casing and an apertured partition between said drums to supply said drums successively with heater air, and an exhaust fan communicating with the casing below the lower drying drum.

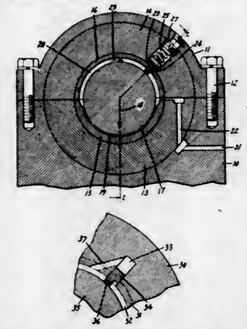
2,351,430
NOZZLE CONSTRUCTION
Charles K. Huthsing, Grosse Pointe Farms, Mich.
Application December 28, 1942, Serial No. 470,325
5 Claims. (Cl. 169—11)



1. A discharge nozzle for discharging carbon-dioxide fluid at high pressure, comprising a nozzle body having an inlet at one side and a single discharge orifice at the other side of smaller dimension than the inlet, and a chamber therebetween, the chamber being composed of two frusto-conical sections, one leading from the inlet with its small end toward said inlet and the other leading toward said orifice with its small end toward said orifice and a screen transversely positioned between said sections.

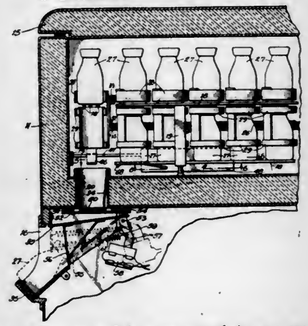
2,351,431
SHAFT BEARING
Davison E. Irons, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application May 16, 1942, Serial No. 443,189
1 Claim. (Cl. 308—127)

A bearing having a bearing surface with an annular groove and a channel for conducting lubricant to the groove, the bearing having an axially extending slot communicating with the groove and of an axial length substantially equal to that of the groove, a dam-forming member slidable in the slot projecting into the groove,



and hydraulic means for biasing the member into the groove, said hydraulic means including a channel connecting the outer end of the slot with the groove ahead of the dam as regards the direction of rotation of a shaft to be supported on the bearing.

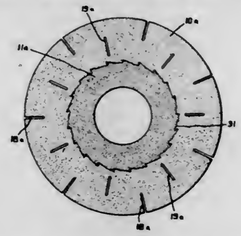
2,351,432
VENDING MACHINE
Ode D. Jennings and Emery Mihalek, Chicago, Ill., assignors to O. D. Jennings & Company, Chicago, Ill., a corporation of Illinois
Application August 27, 1941, Serial No. 408,412
6 Claims. (Cl. 312—96)



1. A vending machine comprising a pair of vertically spaced conveyors, means on said conveyors in vertical alignment to hold a plurality of articles to be dispensed, means to dispense articles from the lower conveyor at a predetermined point, means at another predetermined point to direct an article from the upper conveyor into an empty space in the lower conveyor, a motor to drive the conveyors, an operating circuit for the motor, a switch in the circuit, and means operated by articles on the lower conveyor to hold the switch closed, the switch opening when the lower conveyor is empty to prevent operation of the motor.

2,351,433
VITRIFIED GRINDING WHEEL
George N. Jeppson, Brookfield, and Milton F. Beecher, Holden, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 5, 1942, Serial No. 441,804
5 Claims. (Cl. 51—206)

1. A vitrified grinding wheel having a relatively large central hole and correspondingly a relatively low ratio of external radius to internal radius, said wheel being characterized by structural features for substantially compensating for diminished resistance, due to its relatively large internal radius, to the stresses of centrifugal force and for opposing the otherwise additive weakening effect due to heat differential, said features comprising an outer grinding zone of bonded abrasive grain and an inner zone of bonded abrasive grain of smaller grit size than said first-mentioned grain and of greater volume per-

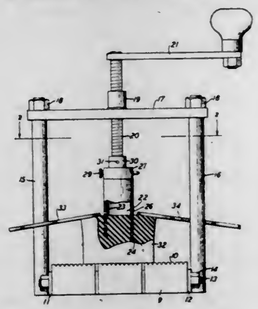


centage of bond than that of said outer grinding zone, there being a series of slots extending inwardly by an appreciable distance from the periphery of said outer grinding zone for permitting expansion of said outer zone and thereby preventing the super-imposition of cracking strains upon said inner zone, said smaller grit size and greater volume percentage of bond of said inner zone giving the wheel sufficient strength to resist the stresses caused by centrifugal force and to compensate for the weakening effect of said slots.

2,351,434
USE OF PECAN HULLS FOR TREATING MUDS
Frank W. Jessen and Jack L. Battle, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 5, 1943, Serial No. 471,374
2 Claims. (Cl. 252—8.5)

1. A method for improving the characteristics of an aqueous drilling mud which comprises adding thereto the fibrous material found inside the shell of pecans in combination with caustic alkali.

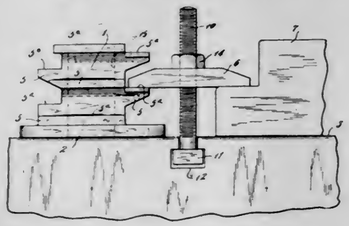
2,351,435
PLUG CUTTING TOOL
Robert J. Kent, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 30, 1942, Serial No. 445,226
3 Claims. (Cl. 164—86)



1. A tool for cutting circular plugs and the like from resilient material which comprises an

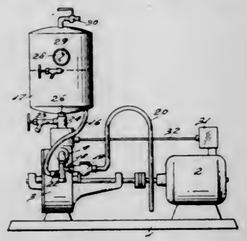
inner tubular member, a knife edge at the lower end of said member, means at the upper end of said member for attaching means thereto for imparting a downward pressure and a rotary motion to said inner member, and an outer tubular member telescopically fitted over said inner cutting member and free to rotate thereon.

2,351,436
WORK CLAMP
Charles T. Ketz, Novelty, Ohio
Application January 9, 1943, Serial No. 471,909
6 Claims. (Cl. 90—59)



1. A packing block for use in clamping means of the class described comprising a body portion having a base and a side at substantially right angles to the plane of the base, and a plurality of ledges projecting from said side and spaced apart axially of the body portion, those above the bottom one being undercut and each being provided with a flat clamp seat that is normal to the axis of the body portion.

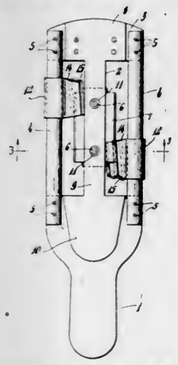
2,351,437
AIR CONDITIONER AND AIR COMPRESSOR
Otto H. Klotz, Philadelphia, Pa.
Application June 20, 1941, Serial No. 398,893
2 Claims. (Cl. 261—76)



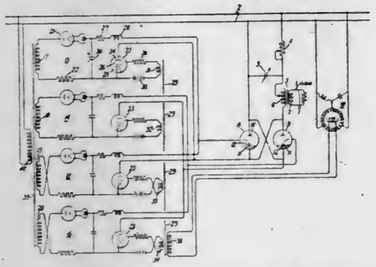
1. In an air conditioner and air compressor, a motor driven pump, a compressed air storage tank, a valve controlled drainage passage from the tank, a return line from the tank, an injector connecting the return line to the intake of the pump, and a pipe leading from the pump discharge into the bottom portion of the tank and having its free end laterally deflected whereby, when the drainage valve is opened and the compressed air in the tank is forcing the liquid from it, a scouring action is affected on the walls of the tank.

2,351,438
RAZOR BLADE SHARPENER
Ludwig Levy, New York, N. Y.
Application June 30, 1943, Serial No. 492,823
1 Claim. (Cl. 51—59)

A razor blade sharpener comprising a center piece, rods equally spaced apart from and parallel to said center piece, a cross piece connecting the upper end of said rods to said center piece, a broad flat handle connecting the lower part of said rods to said centerpiece, pins secured to said centerpiece and adapted to hold a razor blade in such a manner that the cutting edges of the blade are parallel to said rods, a sleeve member loosely attached to each of said rods, two ears rectangularly disposed to each other radiating from each of said sleeve members and carrying at their inner sides means for sharpening the cutting edges of the razor blade, and a resilient tongue secured to said cross piece and extending over said entire center piece to the upper part of said handle; the width of said centerpiece and of the middle part of said tongue being less than the width of the razor blade, said tongue having apertures into which said pins extend, and said handle being formed as a flat light weight unit with said center piece and with said cross pieces, all substantially as described.

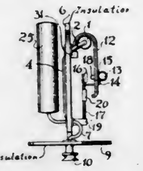


2,351,439
ELECTRIC VALVE OSCILLATOR
Orrin W. Livingston, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 2, 1941, Serial No. 391,517
8 Claims. (Cl. 250—27)



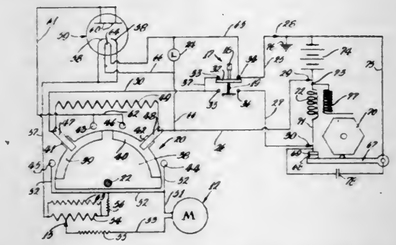
1. In combination, an alternating current supply circuit, a load circuit, an oscillatory circuit energized from said supply circuit and including an inductive reactance, a capacitive reactance and a pair of reversely connected electric valve means for setting said oscillatory circuit into oscillation and for effecting energization of said load circuit from said oscillatory circuit, said electric valve means comprising a control means for controlling the conductivity thereof, and excitation means for said control means for rendering said pair of electric valve means simultaneously conductive for a predetermined portion of each cycle of voltage of said supply circuit.

2,351,440
ELECTRIC DISCHARGE LAMP STARTING DEVICE
Henry J. McCarthy, Danvers, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application October 9, 1941, Serial No. 414,318
7 Claims. (Cl. 200—122)



1. A relay for controlling the pre-heating of the electrodes of an electric discharge lamp comprising: a resistance rod having a high resistance; an armature disposed in heat receiving relationship to said resistance; a high resistance element closed with said armature under dead circuit condition; a compensator from which said high resistance element is mounted; a low resistance element mounted on said compensator; and an insulating element mounted on said compensator at a point opposite the free end of said armature.

2,351,441
ELECTRICAL TESTING
George Makuh, Cleveland, Ohio, assignor to Electric Heat Control Company, Cleveland, Ohio, a corporation of Ohio
Application January 27, 1940, Serial No. 315,873
9 Claims. (Cl. 177—311)



1. Means for measuring the dwell of the breaker means of an ignition system for an internal combustion engine, said system having a primary circuit connected to a source of current, the parts of said circuit including said breaker means and an induction coil primary in series, comprising: resistor means offering substantially the same resistance to current flow for either direction of current flow therethrough; means for connecting said resistor means directly across one of said parts of said primary circuit; and a measuring circuit connected across said resistor means, said measuring circuit comprising electroresponsive indicating means in series with a rectifier permitting substantial current flow through said electroresponsive indicating means in one direction only.

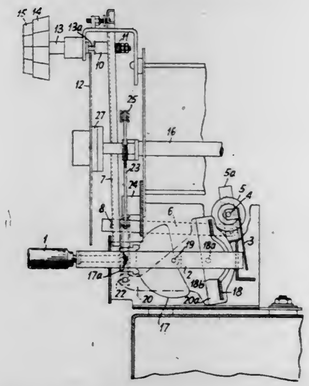
2,351,442
BLADE HOLDER
Ernest Merki, Portland, Oreg.
Application July 21, 1941, Serial No. 403,261
1 Claim. (Cl. 206—16)

A razor-blade package comprising, a plurality of razor-blades and one more than an equal number of longer and wider water-resistant paper separators arranged in surface contacting alternate disposition to provide extensions of the separators beyond all edges of the razor-blades, binding means to secure adjacent separators in



sequentially detachable relationship extending through the razor-blade apertures to bind the separators in mutually contacting relationship at the middle areas thereof, and cement means to bind and seal the edges of the separators in mutually contacting relationship.

2,351,443
PUSH BUTTON MECHANISM FOR TUNING RADIO RECEIVERS
Clifford Metcalfe, Ruislip, and Harry John Parrish, Sidmouth, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application November 25, 1939, Serial No. 306,138
In Great Britain November 26, 1938
2 Claims. (Cl. 74—10)

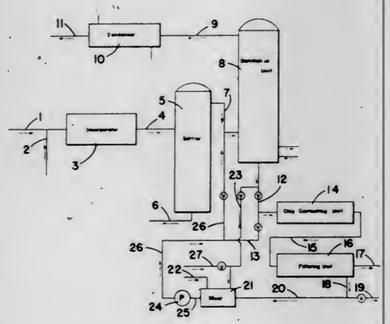


1. In radio signalling apparatus provided with a tuning mechanism which is selectively operable by a manual tuning device or by push button tuning means, an elongated member pivoted to turn about its longitudinal axis, a driving connection between said member and said tuning mechanism, push button operated plungers longitudinally movable transversely to said axis between a released position and a maximum depressed position, individually adjustable means on each of said plungers, each of said means cooperating with said elongated member for swinging said elongated member to a predetermined angular position when said means are brought against said elongated member in operating its associated plunger from its released position to its maximum depressed position, an actuating member carried by the tuning mechanism, a manually operable tuning instrumentality, means for frictionally coupling said tuning instrumentality to the tuning mechanism actuating member to thereby provide a driving connection between them, and lever means operated by said plungers for uncoupling the friction means when any one of said plungers is in any position excepting a position which is within a narrow range of positions which includes the released position.

2,351,444
METHOD OF TREATING CASTOR AND SIMILAR OILS
Hoke S. Miller, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 14, 1942, Serial No. 443,019
6 Claims. (Cl. 260—405.5)

1. The method of increasing the iodine value of non-drying vegetable oils having at least one hydroxyl group and at least one unsaturated carbon linkage, which comprises heating the oil with a catalyst consisting of a gel composed of silica and an oxide of one of a group of elements consisting of aluminum and thorium.

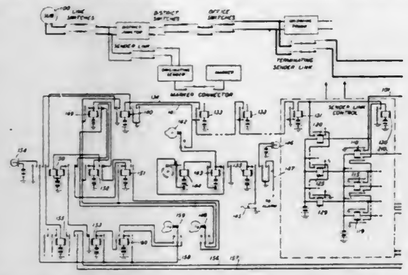
2,351,445
REFINING MINERAL OILS WITH CLAY
Maurice W. Morgan, Goose Creek, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 29, 1941, Serial No. 395,797
6 Claims. (Cl. 196—147)



1. A process for decolorizing and neutralizing a mineral oil substantially free of asphaltic, sludgy and resinous materials which comprises contacting the oil with clay reagent under conditions of time, temperature and quantity of reagent sufficient to give the desired quality improvement in the oil, filtering the clay from the oil, discarding between ⅓ and ½ of the used contact clay separated from the oil and replacing it with fresh contact clay, and recycling this mixture of unregenerated used and fresh clays for use as the clay reagent in the treatment of additional portions of the oil.

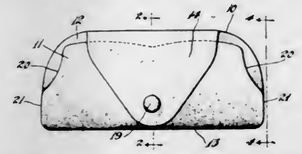
2,351,446
SENDER LOAD CONTROL
Oscar Myers, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 22, 1942, Serial No. 469,787
8 Claims. (Cl. 179—18)

1. In a telephone system, a register sender, means to seize said sender, register control means in said sender, means for repeatedly operating and releasing said register control means during the registration of each of a plurality of digits, timing means, means to start the operation of said timing means at each release of said register control means and to release said timing means at each operation of said register control means, and means under the control of said tim-



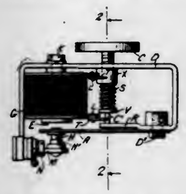
ing means effective to release said sender if more than a predetermined time elapses between successive digit registrations.

2,351,447
SPECTACLE CASE
Emanuel Nathan, Maplewood, N. J.
Application May 12, 1943, Serial No. 486,920
1 Claim. (Cl. 206—5)



A spectacle case made from a single sheet of flexible material comprising front and rear walls integrally joined at one longitudinal edge thereof, the said rear wall having another longitudinal edge defining a closure flap adapted to be folded over the front wall and to extend substantially to the bottom of said front wall, the end portions of said front and rear walls being unsecured for their entire length for facility of insertion and removal of spectacles, a block positioned between the intermediate portions of said walls, rivet means passing through both of said walls and block to permanently unite the said walls in parallel spaced relation and with the ends open, said rivet means having incorporated thereon a fastening element, and a complementary fastener element on said closure flap.

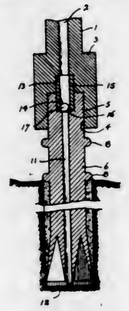
2,351,448
ELECTRIC APPARATUS
Martin Neuner, Fairview, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application November 27, 1942, Serial No. 467,135
2 Claims. (Cl. 200—87)



1. In a switch, a pair of current receiving coils, a rectangular box-shaped frame supporting said coils, a circuit terminal post mounted on said frame, said terminal post including a

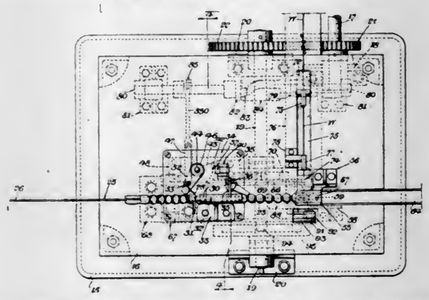
contact piece, a second contact piece in alignment with said first contact piece, an armature having one end secured to said frame and carrying said second contact piece at its opposite end, said armature having slots to form a tongue portion, and also having a resiliency facilitating flexing thereof toward and away from said first contact piece, and also having lateral extensions to cooperate with the magnetizable cores of said coils, and means extending from said frame to the tongue portion of said armature, and disposed between said coils to regulably apply pressure to said armature, without interfering with free flexing thereof.

2,351,449
ANCHOR BOLT
Thomas Noble, Quathiaski Cove, British Columbia, Canada
Application October 27, 1942, Serial No. 463,458
4 Claims. (Cl. 61—46)



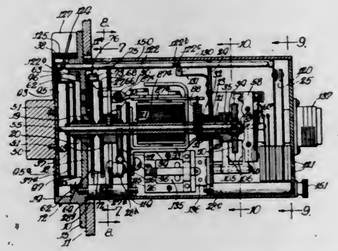
1. The method of affixing a submarine anchor bolt which comprises boring a hole with a tubular submarine drill, washing out the cuttings from the hole by forcing water through the drill and subsequently forcing cement into the hole through said drill to embed said drill in the hole whereby said drill becomes the anchor bolt.

2,351,450
MACHINE FOR REINFORCING CLOTHESPINS
John R. Nolan, Larchmont, N. Y.
Application October 1, 1942, Serial No. 460,406
16 Claims. (Cl. 1—2)



1. The combination of means for supporting a bifurcated clothespin, means for driving a metallic reinforcing element having spaced legs into the crotch and lengthwise of the interior of the body of the clothespin and with the connection for the legs extending transversely of the crotch, said driving means including a plunger and a structure by which said plunger is guided into and longitudinally of the space between the prongs of the clothespin, said guide structure constructed to support the reinforcing element in the path of the plunger and in a plane transversely of the acting end of the plunger, whereby said plunger in its driving stroke forces said reinforcing element from the guide structure into and along the space between the prongs of the clothespin and with the legs of the element in contact with the inner walls of the prongs and in line with the respective corners of the crotch, said supporting means including a stationary spreader for the legs of said element as they enter the crotch, whereby said legs diverge from the corners of the crotch into and through the body of the clothespin to points a greater distance apart than the width of the crotch.

2,351,451
PRESELECTOR
Thedore Obszarny, Chicago, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application August 9, 1943, Serial No. 497,951
14 Claims. (Cl. 172—239)

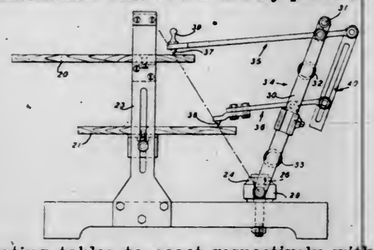


1. A control device of the character described, comprising a mounting frame; a two direction selective adjustment means carried on the forward end of the frame, comprising a rotatable knob assembly, means normally locking the assembly against rotation in the frame and disengageable upon limited axial movement of the assembly in said frame, a main switch mounted on the frame and connected in an electrical control circuit; and an axially shiftable shaft supported on the frame with one end disposed in operative engagement with the switch, said shaft being adapted to assume either of two axial positions of adjustment and adapted in one position to have its other end positioned to be engaged by the knob assembly, incident to such limited axial movement of the latter, for axially shifting the shaft to its other position of adjustment for effecting actuation of said switch.

2,351,452
PANTOGRAPH
Robert Pash, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 11, 1943, Serial No. 475,586
6 Claims. (Cl. 33—24)

1. In a pantograph, a linkage to effect control of the motion of a reproducing point by the motion of a tracing point, the said linkage comprising a support pivotable about an axis, a primary link on the support and pivotable thereon about an axis perpendicular to the axis thereof, and two secondary links pivotable on the primary link about spaced and mutually parallel axes parallel to the axis of the primary link on

the support, the tracing point being mounted on one of the secondary links and the reproducing point being mounted on the other secondary link in combination with two mutually parallel work



supporting tables to coact respectively with the tracing point and the reproducing point and having their working surfaces transverse to the direction of the axis of the pivotable support.

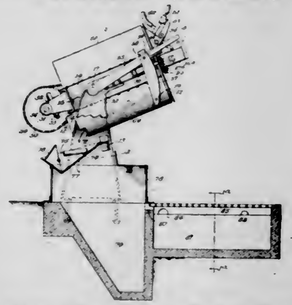
2,351,453

APPARATUS FOR CLEANING CASTINGS OR METAL PARTS

William A. Pearl, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois

Application May 23, 1942, Serial No. 444,268

11 Claims. (Cl. 51—13)



1. In apparatus for cleaning castings, the combination of a supporting structure comprising standards, a frame between the standards, having sides and an end, a drum having an open end and a substantially closed end, extending longitudinally of, journaled to rotate in, and bodily movable with the frame, means for supporting the frame to swing on the structure on a transverse axis, disposed longitudinally between the ends of the drum so that the drum can be inclined downwardly for moving the castings along the drum toward its closed end, and its inclination varied for unloading, means for discharging water and an abrasive under pressure into the drum, the drum being provided with outlets for the water and sand, a shell around the drum supported by and movable with the frame, and provided adjacent the closed end of the drum with a discharge opening, mechanism for driving the drum, and a door for closing the open end of the drum.

2,351,454

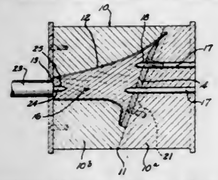
APPARATUS FOR FORMING SHOE HEELS

Joseph L. Pereles, Milwaukee, Wis., assignor to Pereles Bros., Inc., Milwaukee, Wis., a corporation of Wisconsin

Application July 24, 1941, Serial No. 403,785

3 Claims. (Cl. 18—42)

1. A cylindrical permanent mold, comprising a pair of endwise separable, complementary, metallic, mold sections having complementary faces, only one of the mold sections having an elongated tapered cavity therein, means extending axially of the mold sections for supporting a core within said cavity of one mold section in uniform spaced relation from the side walls surrounding the cavity and against the complementary face of the other mold section, a fluid conducting channel formed within the face of said other mold



section following the contour of and extending partially around the periphery of the enlarged end of the mold cavity, a plurality of spaced feeding ducts within said mold section affording separate fluid communications between selected portions of said channel and spaced portions of the mold cavity, and a fluid inlet duct extending into the mold and registering with an intermediate portion of said channel.

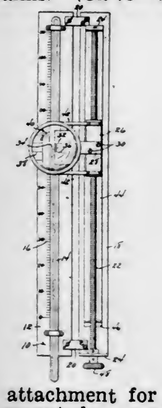
2,351,455

THERMOMETER READER

Dino J. Pratesi, New Bedford, Mass.

Application November 21, 1942, Serial No. 466,459

2 Claims. (Cl. 73—372)



1. A reading attachment for a thermometer having its stem mounted on a panel, comprising a second panel, means securing said second panel fixedly to and in the plane of the first panel, a vernier scale arranged in a reading relation to the stem, a magnifying glass overlying the vernier scale, a body constituting a mount for said vernier scale and the magnifying glass, and a screw-threaded shaft rotatably mounted on said second panel in parallelism with said stem and threadedly connected with said body to move the body longitudinally of the stem through rotation of said shaft.

2,351,456

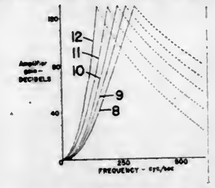
SEISMIC PROSPECTING

Norman H. Ricker, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 29, 1941, Serial No. 408,775

5 Claims. (Cl. 177—352)

1. In seismic prospecting in which seismic waves are introduced into the ground at a selected point, received at other points selected in the path of said waves from substrata and converted into electrical impulses, the steps which comprise amplifying the different fre-



quencies of said impulses to a different degree proportional to the absorption of said frequencies by the earth while maintaining the phase relationship between said frequencies, and recording the amplified impulses.

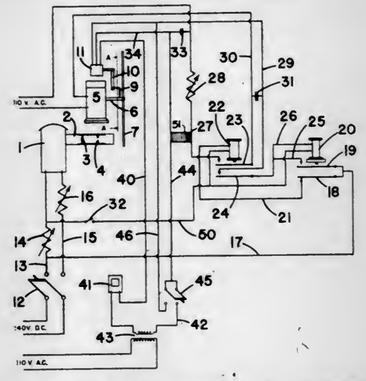
2,351,457

GRATING SPECTROGRAPH

William M. Rust, Jr., and Marion A. Arthur, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 25, 1940, Serial No. 366,953

4 Claims. (Cl. 88—14)



1. In a grating spectrograph, in combination, a light source adapted to cast a beam of light on a grating, means for energizing said light source and means set into operation by the energization of the light source for intercepting light from said source for a predetermined period after said light source is energized and for determining the period for which said grating is exposed to said source and capable of terminating said period while said light source is connected to its energizing means.

2,351,458

DEVICE FOR MANUFACTURING CO_2-BUTTER FROM CREAM AND MILK

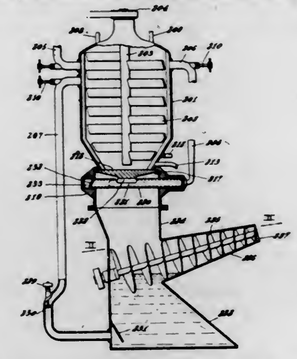
James Senn, Berne, Switzerland

Application July 23, 1940, Serial No. 346,896

In Switzerland May 27, 1939

6 Claims. (Cl. 31—33)

1. A machine for manufacturing butter in the presence of carbon dioxide comprising a churn including a stirring device, a condenser vessel adapted to contain water, said vessel being located beneath said churn and forming with the latter a common housing, means in said condenser vessel to separate the butter from the water and to condense and discharge the butter with a desired water content, closure means between said churn and condenser vessel through which the granular butter produced in the churn



may be dropped into said condenser vessel, and means to operate said closure means from the outside of said housing.

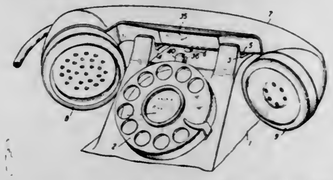
2,351,459

TELEPHONE SET

Oscar A. Shann, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 8, 1943, Serial No. 490,034

12 Claims. (Cl. 179—100)



11. In combination, a line, a telephone handset including a receiver, a stand having a cradle for said handset, sound amplifying means in the stand, means operative when the handset is tilted in the cradle to a certain position for holding it in said position and for connecting the receiver, and amplifying means to the line to enable the subscriber to hear signals incoming on the line without having to hold the receiver to his ear.

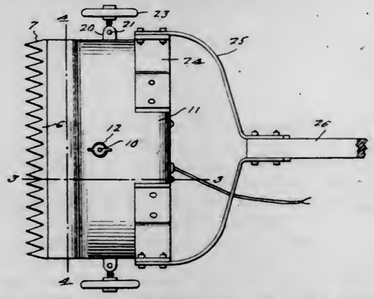
2,351,460

ELECTRIC GRASS AND WEED CUTTER

Horace W. Shelton, Palestine, Tex.

Application December 1, 1942, Serial No. 467,499

2 Claims. (Cl. 56—26.5)



1. A cutting apparatus of the character described comprising a pair of coacting cutting

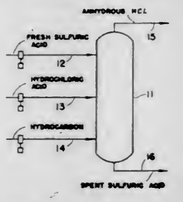
plates each having cutter teeth, a hood having downwardly extending walls, wheels supporting the hood, connecting means between the lowermost plate and the hood, a motor mounted on one of the walls of the hood, one of said plates having a recess, and a pitman arm operatively connected to the motor and having means at its outer end positioned in said recess.

2,351,461

PRODUCTION OF ANHYDROUS HYDROGEN CHLORIDE

Delmas A. Smith, Goose Creek, and William B. Franklin, Baytown, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 21, 1943, Serial No. 473,054
6 Claims. (Cl. 23—154)



1. A method of recovering anhydrous hydrogen chloride comprising the steps of contacting aqueous hydrogen chloride with sulfuric acid in the presence of a low boiling paraffinic hydrocarbon and separating a solution of anhydrous HCl in the paraffinic hydrocarbon from sulfuric acid.

2,351,462

PULVERULENT METALLIC SUBSTANCE FOR ELECTROMAGNETIC PURPOSES

Georg Trageser, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 23, 1939, Serial No. 300,807. In Germany October 22, 1938
4 Claims. (Cl. 75—0.5)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. A process of producing pulverulent nickel-iron alloys for electromagnetic purposes which comprises thermally decomposing a mixture of nickel carbonyl and iron carbonyl, coating the metal particles of the resulting powder with inorganic halides which are practically not volatile at high temperatures and are selected from the class consisting of alkali metal and alkaline earth metal halides, heating the coated powder in a non-oxidizing atmosphere to a temperature of from about 500 to about 1000° C. and removing the greater part of said halides from the heated particles.

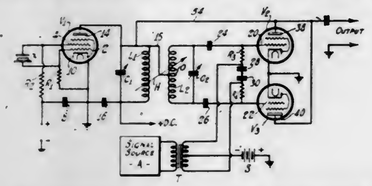
2,351,463

FREQUENCY MODULATOR

George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 20, 1942, Serial No. 443,699
15 Claims. (Cl. 179—171.5)

1. In a wave length modulation system, a regenerative oscillation generator, a pair of electron discharge devices each having an electron emission electrode, an electron flow control electrode and an electron receiving electrode, a first coupling between said generator and said electron flow control electrodes for applying voltages from the generator to the electron flow control electrodes of like phase, a second coupling for impressing voltages from the generator to the electron flow control electrodes in opposed phase,



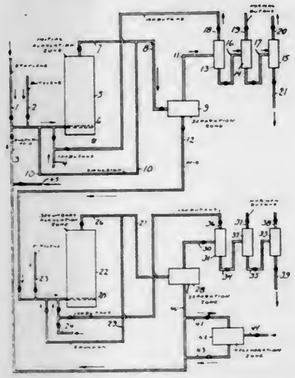
said last named voltages being substantially in phase quadrature with respect to the said first mentioned voltages on the electron flow control electrodes, an output circuit coupled to said system, and means for differentially controlling the gain of said devices.

2,351,464

ALKYLATION OF ISOPARAFFINS

Alexis Voorhies, Jr., and Erwin M. Hattox, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 12, 1941, Serial No. 402,184
4 Claims. (Cl. 260—683.4)



1. Improved alkylation process which comprises intermittently contacting under alkylating conditions an acid of the class consisting of sulfuric acid and fluorosulfonic acid with a feed stream comprising ethylene and isoparaffins, and a feed stream comprising olefins and isoparaffins free of ethylene.

2,351,465

INTERNAL CORROSION PREVENTION IN FERROUS METAL CONTAINERS FOR LIGHT LIQUID PETROLEUM DISTILLATES

Aaron Wachter, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Original application March 9, 1940, Serial No. 323,237, now Patent No. 2,297,666, dated September 29, 1942. Divided and this application August 31, 1942, Serial No. 456,833
7 Claims. (Cl. 44—72)

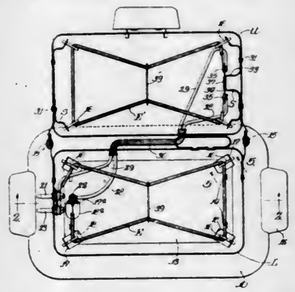
1. The process of inhibiting internal corrosion in a ferrous metal container in contact with light liquid petroleum distillates comprising subjecting the interior of the container to the inhibiting action of a solution of an alkali metal nitrite, the concentration of said alkali metal nitrite solution being less than approximately 0.01% by weight of the light liquid petroleum distillates in said container and the pH of said alkali metal nitrite solution being in excess of 6 and not exceeding approximately 12.

2,351,466

HEATING ELEMENT SUPPORT FOR SANDWICH TOASTERS

Millard F. Weida, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri

Application November 10, 1941, Serial No. 418,473
3 Claims. (Cl. 219—19)



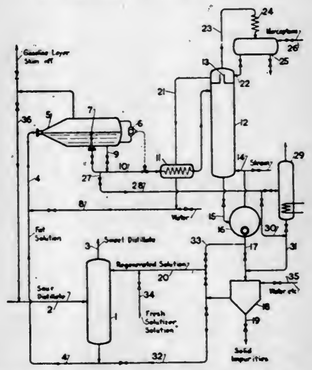
2. Means for supporting the heating element in a sandwich toaster or the like having a casing comprising straps within said casing adjacent and secured to the ends thereof at points spaced from the ends of the straps, said ends being perforated, supporting elements of insulating material in said perforations, a terminal support secured to the center of one of said straps, said ends of said strap and said center of said one of said straps being bent to positions spaced from said casing ends, and a heating element in said casing suported by said supporting elements and said terminal support.

2,351,467

PROCESS FOR PURIFYING SOLUTIZER SOLUTIONS

Joseph G. Wilson, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application May 29, 1941, Serial No. 395,773
4 Claims. (Cl. 252—192)



1. In the process of purifying a fat spent solutizer solution containing hydrocarbons and suspended, insoluble, solid impurities, the improvement comprising settling said solution in a settling zone, whereby there are produced three layers: an aqueous layer, a hydrocarbon layer, and an interfacial layer between said aqueous and hydrocarbon layers and consisting essentially of a mixture of aqueous solutizer solution, hydrocarbons, and suspended hydrocarbon-wetted solid impurities, continuously withdrawing at least portions of said aqueous layer and said hydrocarbon layer, withdrawing said interfacial layer at a rate sufficient to prevent the building up of a large interfacial layer, stripping the withdrawn interfacial layer to remove hydrocarbons wetting the solid impurities, settling said stripped withdrawn portion, whereby the solid impurities, no longer being wetted by hydrocarbons, readily settle out of the aqueous solutizer solution, and separating the solid-free aqueous solutizer solution from the settled solid impurities.

2,351,468

STABILIZED EXPLOSIVE COMPOSITION

Clifford A. Woodbury, Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 18, 1941, Serial No. 402,956
8 Claims. (Cl. 52—13)

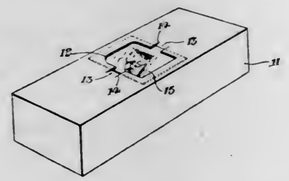
1. An oil well explosive composition comprising more than 60% of a liquid explosive nitric ester and between 0.5 and 5.0% of an organic base having a dissociation constant lower than 1×10^{-5}.

2,351,469

CONTAINER FOR MATCH BOOKS AND THE LIKE

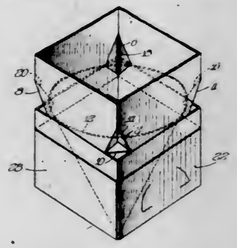
Edgar A. Allen, Springfield, Mass., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application February 16, 1943, Serial No. 476,061
2 Claims. (Cl. 229—6)



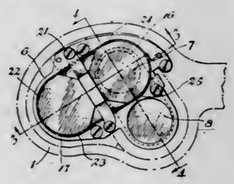
1. A container for match books and the like having a corresponding cover design, said container embodying body and lid portions composed of paperboard or similar flexible material, a wall of said container having therein a cut-out portion providing a sight opening accessible from the interior of the container, said opening divided by a flexible cross-piece integral with the wall, and a display card of greater area than the sight opening interposed between said cross-piece and the marginal portion of the wall at the opening to provide an inset closure panel bearing a design corresponding with or related to the cover design of the contained articles, said cross-piece arranged to abut the under surface of the card and thereby maintain the upper margins of the card in close contact with the opposing inner marginal portions of the wall, thus affording an invisible supporting and clamping member for the card and also serving as a tie bar and reinforcement for the cut-out portion of the frangible wall material.

2,351,470
SELF-DISPENSING PACKAGE
Walter E. Amberg, Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois
Application March 7, 1941, Serial No. 382,179
6 Claims. (Cl. 206—56)



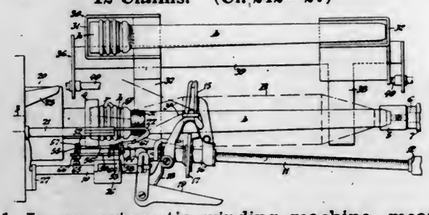
1. A self-dispensing package for paper cups and similar articles having flanged or beaded rims, said package comprising a carton having a plurality of triangularly shaped areas formed in the side walls at the corners near one end thereof, said areas being defined at their bases by cuts and at their sides by hinge lines integral with the side walls of the carton enabling said areas to be pressed out of alignment with the walls of said carton to form constrictions in the end of said carton adapted to support the lowermost cup of a stack of cups adjacent its rim, said cuts being disposed at substantially the same distance from said end of said carton and resilient means held in position by said cuts and tending to hold said areas in the state which they assume when pressed out of alignment with the walls of said carton, whereby when the lowermost cup of the stack is dispensed said resilient means will permit the constrictions in the carton to yield and thereafter will tend to return them to their normal positions.

2,351,471
MEANS AND METHOD FOR ADJUSTING AND SECURING PRISMS
Stanley J. Bailey, Snyder, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application March 5, 1941, Serial No. 381,859
3 Claims. (Cl. 88—33)



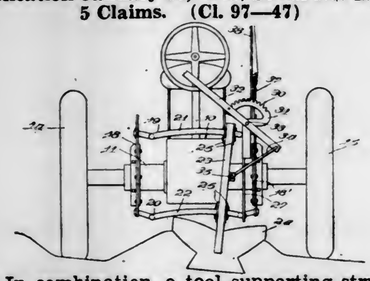
1. In a device of the character described, a support, a recess in one surface of said support adapted to support a prism, said recess being greater in area that the prism to be supported therein, a prism in said recess, and having portions of its periphery spaced from the wall of said recess, means for retaining said prism in said recess and plastic spacing means at spaced points only between the periphery of said prism and the wall of said recess to retain the said prism in aligned position, whereby said prism may be secured in optical alignment with the other elements of an optical system.

2,351,472
WINDING MACHINE
Gustaf S. Beckman, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application July 20, 1940, Serial No. 346,635
12 Claims. (Cl. 242—27)



1. In an automatic winding machine, means for winding a strand of yarn or the like on a core to form a package, means for supplying empty cores to the winding means, means for severing the leading end of the strand being wound, said strand-severing means being actuated to inoperative position by the means for supplying empty cores, and means for actuating the strand-severing means to operative position to sever the leading end of the strand when said strand-severing means is released by the means for supplying empty cores.

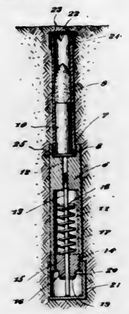
2,351,473
TRACTOR-MOUNTED IMPLEMENT
Bert R. Benjamin, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application January 26, 1942, Serial No. 428,231
5 Claims. (Cl. 97—47)



1. In combination, a tool-supporting structure having spaced wheels, said wheels being adapted to run in a plowed furrow, a plow beam with a plow thereon, a lifting bail having an arcuate-shaped transverse portion, means for pivotally connecting the bail to the tool-supporting structure so that its transverse portion is free for vertical movement, means for connecting the plow beam to the arcuate transverse portion of the bail for lateral sliding movement thereover, means for effecting translational movement of said beam to laterally disposed positions with respect to a neutral position, the said arcuate-shaped portion being such that as the plow beam is laterally adjusted the plow will be simultaneously leveled for adaptation of the same with respect to the ground as the one or the other of said wheels is run in a furrow.

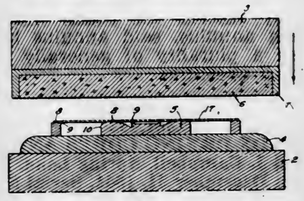
2.351.474
LAND MINE
George C. Berger, Waubun, Minn.
Application November 18, 1941, Serial No. 419,632
4 Claims. (Cl. 102—8)

4. A device of the class described including a hollow member adapted to be embedded in the ground, a body portion slidably mounted for vertical movement within the hollow member, a combined firing barrel and actuating member operatively connected with the body portion and having its upper end disposed adjacent the surface of the ground, a cartridge fitted in the barrel, a



spring-pressed firing pin cooperating with the hollow member, and a locking pin fitted to one end of the firing pin and adapted to be severed by the body portion and release the firing pin upon depression of the actuating member by the weight of an object passing over the same.

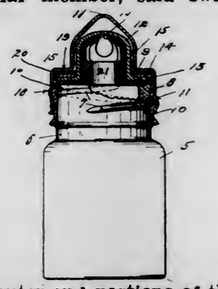
2,351,475
METHOD AND APPARATUS FOR SHAPING AND SHEARING SHEET MATERIALS
John L. Berger, Columbia, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application October 28, 1941, Serial No. 416,799
7 Claims. (Cl. 113—42)



1. In the method of shaping sheet metal by means of a die having a flat surface and a side wall, the steps which comprise compressing a cork pad capable of transmitting forces applied thereto substantially only in the direction of such forces against a sheet of metal disposed over the die to securely clamp a portion of the sheet against the flat surface of the die, and continuing the application of compressive forces to said cork pad to cause the unsupported portion of the sheet to conform to the side wall of the die.

2.351.476
APPLICATOR
Henry M. Borden, Minneapolis, Minn.
Application February 9, 1942, Serial No. 430,026
1 Claim. (Cl. 15—134)

In a device of the kind described, a cap applicable to the neck of a bottle and having an aperture in its top, a tubular member of relatively soft rubber extending through the aperture in the cap and having an outstanding flange constructed and arranged to be clamped between the cap and the neck of the bottle, said tubular member having a pair of long upstanding lips that are laterally spaced to leave a wide passageway therebetween, and a swab in the form of a dome extending over the tubular member, through the aperture in the cap and having an outstanding flange extending between the cap and the flange on the tubular member, said swab yieldingly



holding the outer end portions of the lips of the tubular member folded toward each other under tension without obstructing the major portion of the passageway therebetween, said folded lips being under strain to move into upright positions and thereby yieldingly hold the swab distended.

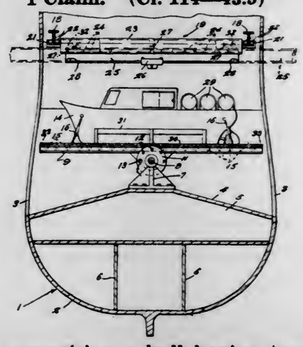
2,351,477
SOLDER ALLOY
George M. Bouton, Madison, George S. Phipps, Chatham, and Earle E. Schumacher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 29, 1942, Serial No. 440,978
8 Claims. (Cl. 75—166)

1. A wiping solder having substantially the following composition:

	Per cent
Lead	63.4
Bismuth	23.0
Tin	13.0
Arsenic	0.1
Antimony	0.5

together with incidental impurities.

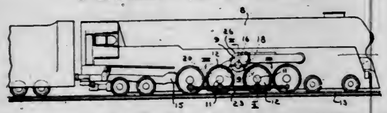
2,351,478
SHIP
Thomas Boyle, Detroit, Mich.
Application May 10, 1943, Serial No. 486,353
1 Claim. (Cl. 114—43.5)



A ship comprising a hull having transversely aligned openings in its sides, a substantially anticlinal deck in the hull between the openings, standards rising from the longitudinal axis of the deck, a shaft fixed on the standards and paralleling said longitudinal axis of the deck, a plat-

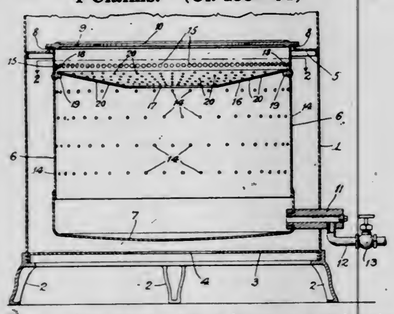
form pivotally mounted, at an intermediate point, for rocking movement in opposite directions and in a vertical plane on the shaft, said platform including rollers and a pair of guides, a cradle, for supporting a boat and for launching said boat through either of the openings, operable on the rollers in the guides, and means for releasably securing the platform against rocking movement on the shaft, said means including opposed, coaxial disks fixed on the platform and the shaft, said disks having openings therein for registry with each other, and a pin insertible in the registering openings.

2,351,479
TURBINE-DRIVEN LOCOMOTIVE APPARATUS
Winston A. Brecht, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1942, Serial No. 466,293
3 Claims. (Cl. 105—113)



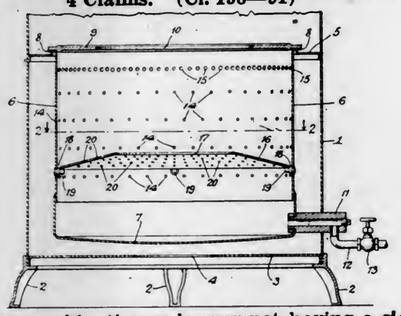
2. In toothed gearing for transmitting power from a motor device to a pair of driving axles of a locomotive, a toothed high-speed pinion driven by the motor device, a pair of toothed high-speed gears meshing with the pinion at circumferentially spaced regions of the latter, a pair of low-speed pinions connected to the high-speed gears for rotation in unison with the latter, a pair of toothed low-speed gears meshing with the low-speed pinions, torque-transmitting spring means for connecting the low-speed gears to the driving axles of said pair, and means for connecting the driving axles of said pair together for rotation in unison.

2,351,480
FORAMINOUS BAFFLE FOR POT-TYPE BURNERS
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application April 11, 1941, Serial No. 388,073
4 Claims. (Cl. 158—91)



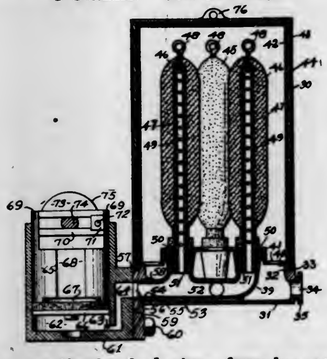
1. In combination with a burner pot having a substantially cylindrical side wall provided with a plurality of primary air inlet apertures located at various levels and with secondary air inlet means adjacent the top of the pot, means for delivering a liquid fuel to the bottom of the pot, and a baffle located between the primary air inlet apertures and the secondary air inlet means, said baffle including a thin annular body having a large central aperture the diameter of which substantially exceeds the radial width of the surrounding annulus, said annulus being provided throughout its area with a plurality of generally uniformly spaced small apertures.

2,351,481
FORAMINOUS PILOT BAFFLE FOR POT-TYPE BURNERS
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application April 11, 1941, Serial No. 388,074
4 Claims. (Cl. 158—91)



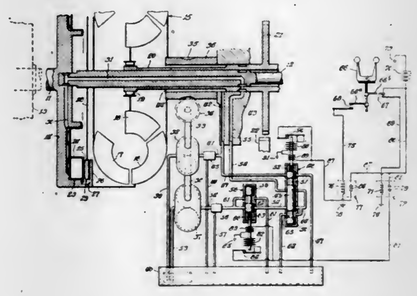
1. In combination, a burner pot having a side wall having a plurality of primary air inlet apertures located therein at various levels, means adjacent the top of the pot for admitting secondary air, means for delivering a liquid fuel to the bottom of the pot, and a pilot baffle located intermediate the upper and lower primary air inlet apertures and including an annulus having a large central aperture the diameter of which substantially exceeds the radial width of the surrounding annulus, said annulus being provided with a plurality of generally uniformly spaced small apertures.

2,351,482
METHOD OF DRYING CORES AND MOLDS
Donald J. Campbell, Spring Lake, Mich.
Application December 31, 1941, Serial No. 425,148
3 Claims. (Cl. 34—15)



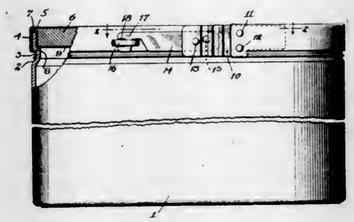
1. The method of drying foundry employed cores consisting in supporting said cores vertically on a hollow perforated arbor in an enclosing casing, subjecting the exterior of the cores to heated air having a pressure above the pressure of the atmosphere and the interior of the core to a pressure below the pressure of the atmospheric pressure.

2,351,483
TRANSMISSION CONTROL
Harold E. Carnagua, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 15, 1942, Serial No. 454,972
11 Claims. (Cl. 192—3.2)



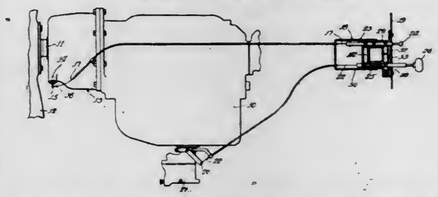
1. In a transmission, the combination of an input shaft, an output shaft, means for transmitting torque from said input shaft to said output shaft and adapted to be controlled by fluid pressure, a pump connected by a passage with said torque transmitting means for supplying fluid under pressure to said means, a valve in said passage for providing an outlet through which fluid from said pump may freely discharge whereby the power required for driving said pump is substantially reduced, and a second valve for closing said passage whereby when said first valve is in its outlet closing position the pressure of fluid discharged from said pump is increased to a value sufficient for controlling said torque transmitting means.

2,351,484
CONTAINER AND CONSTRICTING RIM THEREFOR
Herbert L. Carpenter, Brooklyn, N. Y.
Application September 11, 1941, Serial No. 410,361
2 Claims. (Cl. 217—94)



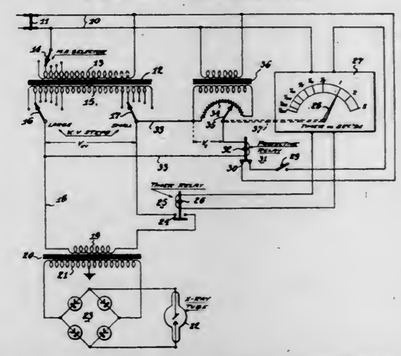
1. A container comprising a body, a head fitted into said body, and a metal clamping rim formed with overlapping ends and divided at one point said rim having a pressed-out loop adjacent one of said overlapping ends parallel to said rim, a locking lever having one end pivotally connected with one of said overlapping ends and pivotally connected intermediate its length with the other overlapping end, said locking lever having a U-shaped notch in the part that fits into said loop, said loop being adapted to be deformed to fit into said notch after the lever has been moved to the full functioning position.

2,351,485
CONTROL DEVICE
Carl J. Conkle, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 9, 1940, Serial No. 369,171
11 Claims. (Cl. 170—135.5)



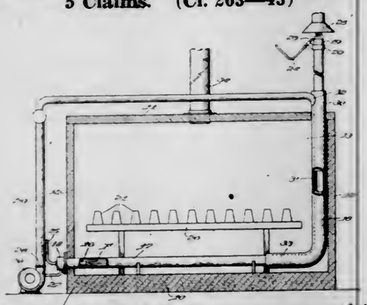
1. In combination a variable speed engine, a rotatable mass functioning as the flywheel of the engine, speed ratio changing mechanism interposed between the engine and mass, a control for the mechanism, a speed control for the engine, and means cooperating with said controls to provide a plurality of engine idling positions of said speed control from which the speed control cannot be moved for a lower speed to correspond with the various speed ratios whereby to rotate the mass at sufficient speed in all ratios under idling conditions of the engine to provide the engine with adequate flywheel action.

2,351,486
X-RAY EXPOSURE SYSTEM
James M. Constable, Baltimore, Md., and Roger W. Stamm, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1942, Serial No. 449,996
9 Claims. (Cl. 250—95)



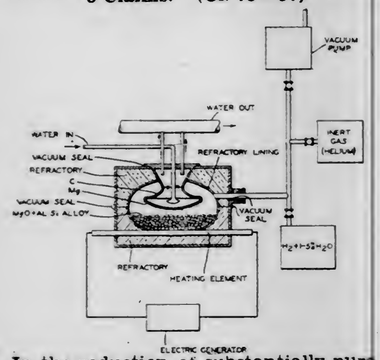
1. An X-ray exposure system, comprising an X-ray tube, circuit means connected with said tube for the delivery of energy to said tube, a timing device for controlling said circuit means in accordance with a selected exposure time, a protective relay connected with said circuit means for preventing energization of said X-ray tube by overload conditions, means for supplying a voltage depending upon the magnitude of the energy supplied by said circuit means to said X-ray tube, and means for supplying another voltage depending upon the selected exposure time, both said voltage supply means being connected with said relay for actuating the latter when the combination of said energy magnitude and said exposure time corresponds to a load exceeding the rating of said tube.

2,351,487
OVEN
Edward W. Cooney, Woodstock, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 28, 1941, Serial No. 408,649
5 Claims. (Cl. 263—43)



1. A heating and drying oven comprising a walled drying chamber, a fuel burner having an outlet adapted to direct a flame into the chamber, means passing through the chamber and opening outside the chamber for confining the flame against direct contact with the interior of the chamber, means for directing air into the oven for drying purposes, and means for directing said air under pressure first alongside a portion of the first means within the chamber for heating said air within the chamber.

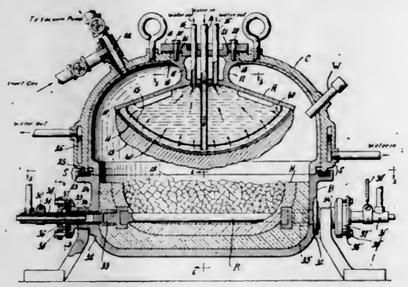
2,351,488
METHOD OF PRODUCING MAGNESIUM
Hugh S. Cooper, Cleveland, Ohio, assignor of one-half to Frank H. Wilson, Cleveland, Ohio
Application March 10, 1942, Serial No. 434,078
8 Claims. (Cl. 75—67)



6. In the reduction of substantially pure magnesium oxide with a metallic reducing agent at sub-atmospheric pressures, the improvement which comprises a metallic reducing agent consisting of a finely divided alloy of aluminum and silicon containing 20–50% silicon balance substantially all aluminum, the amount of said agent being in excess of that theoretically required to obtain substantially complete reduction of the said magnesium oxide.

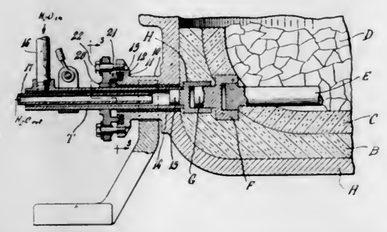
2,351,489
METALLURGICAL FURNACE
Hugh S. Cooper, Cleveland, Ohio, assignor of one-half to Frank H. Wilson, Cleveland, Ohio
Application March 21, 1942, Serial No. 435,678
6 Claims. (Cl. 13—8)

5. A vacuum metallurgical furnace for the distillation production of magnesium, said furnace consisting of a substantially cylindrical base section provided with an annular horizontally located channel member facing upwardly about its outer periphery adjacent the top thereof with an annular gasket of resilient material located therein and with a substantially dish-shaped hearth having an electrical resistance heating means located in the bottom thereof, and a vaulted cover section provided with a refractory lining and with an annular depending rib extension about its outer periphery adjacent the open end thereof having a diameter and location



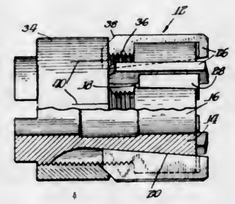
adapting the same for seating engagement on the said annular gasket when the said cover is disposed in covering position on said base section, an interiorly depending hollow condenser chamber in the top of said cover, said chamber including cooling means to maintain the exterior surface of at least the bottom surface thereof at a desired temperature, means to exhaust gases from the furnace interior and means to introduce a desired gas atmosphere at a desired low pressure less than atmospheric pressure within the said furnace interior.

2,351,490
TERMINAL FOR VACUUM-TYPE FURNACES
Hugh S. Cooper, Cleveland, Ohio, assignor of one-half to Frank H. Wilson, Cleveland, Ohio
Original application March 21, 1942, Serial No. 435,678. Divided and this application July 7, 1943, Serial No. 493,723
7 Claims. (Cl. 13—25)



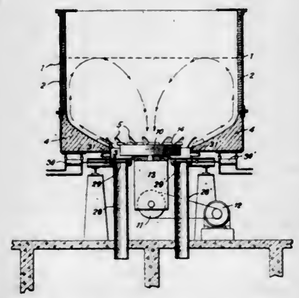
1. In an electrical device having a container wall with an opening therein through which extends an electrically conductive terminal, the inner end of which is to be electrically connected to an electrical resistance heating element, means sustaining said terminal within the said opening in a flexible hermetic joint between the terminal and the outer surface of the container wall about the said opening while permitting axial movement of the terminal inwardly from the sustained position against the resiliency of the flexible material comprising the hermetic joint while maintaining the said hermetic seal joint and means providing a sliding electrcal contact between the inner end of said terminal and said heating element, said sliding contact absorbing the axial movement of said terminal and the thermal expansion and contraction of the said heating element while maintaining electrical contact between the terminal and heating element.

2,351,491
INSERTED TOOTH CUTTER
James J. Connell, Chicago, Ill.
Application March 10, 1943, Serial No. 478,601
4 Claims. (Cl. 29—105)



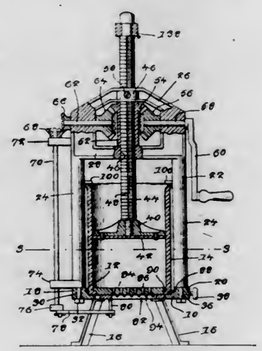
1. An inserted tooth cutter comprising a rotary cutter body having a plurality of peripheral axially extending recesses, each of said recesses being defined by side walls converging radially outward and axially inward from one extremity of the cutter body, a plurality of blades, one associated with each of said recesses and each having side walls which converge radially outward, a plurality of wedge members, one associated with each blade in each recess, for securing each blade in position and each member having side walls converging radially outward and axially in conformity with the associated recess, and rotary means for longitudinally adjusting each blade axially with respect to the cutter body.

2,351,492
METHOD AND APPARATUS FOR TREATING PAPER STOCK
Edwin Cowles, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J., a corporation of New Jersey
Application January 15, 1940, Serial No. 314,107
13 Claims. (Cl. 92—26)



3. The method of pulping paper stock in batches which comprises introducing the required amount of water into a tank, introducing the entire charge of fibrous material required to produce the desired batch consistency into said tank at one time, maintaining a vortical circulation with a hollow core in said tank whereby floating solid material is submerged by the action of the vortex, and subjecting the solid fibrous material to defibering action at the bottom of said vortex.

2,351,493
EXTRUDER
Joseph G. Curry, Austin, Tex.
Application December 15, 1941, Serial No. 423,095
2 Claims. (Cl. 107—14)

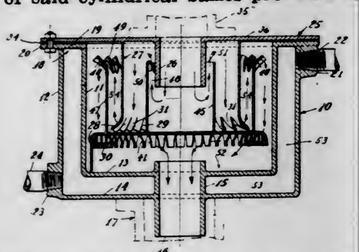


1. A food shaping extruder comprising a flange having supporting legs, an upright cylinder having its lower end mounted on said flange and provided with a shoulder at its lower end, a die removably supported on said shoulder, a frame comprising two upright and spaced bars having a yoke fixedly connected with their upper ends and above the cylinder, a piston slidable in said cylinder and having a screw extending loosely through said yoke, means on said yoke and said screw coacting to restrain the screw from rotation but permitting axial movement of the screw, a bevel gear threadedly connected with said screw and engaging the yoke to be restrained from relative longitudinal movement, a second bevel gear meshing with said first bevel gear and rotatably supported on said yoke for imparting rotation to the first bevel gear and axial movement to said screw, a third bevel gear meshing with said first bevel gear and rotatably supported on said yoke, an upright shaft rotatably supported by said frame, meshing fourth and fifth bevel gears respectively fixedly connected with said shaft and said third gear, a crank at the lower end of said shaft, a reciprocatory cutter lying underneath said die, an operating connection between said cutter and said crank, said frame being pivotal to one side of said cylinder, and a lug on at least one of said bars normally lying across the upper end of said cylinder to hold the latter on said flange.

2,351,494
GAS MIXING DEVICE
Charles H. De Wall, Orange, N. J.
Application March 1, 1943, Serial No. 477,680
4 Claims. (Cl. 48—180)

1. A fuel mixing device of the character described comprising a casing and a cover therefore to form a mixing chamber for the fuel; a fuel intake tube in said cover and a fuel outlet tube in said casing; a series of upstanding and depending cylindrical baffles within said mixing

chamber interposed in alternate relation and some of said cylindrical baffles provided at their



free edge with a plurality of outwardly flared and angularly twisted lugs to form a deflector for the fluid.

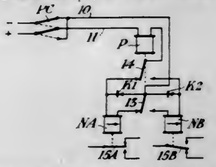
2,351,495

ELECTRICAL CONTROL APPARATUS

Arthur E. Dodd, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Original application December 23, 1941, Serial No. 424,151, now Patent No. 2,324,200, dated July 13, 1943. Divided and this application November 11, 1942, Serial No. 465,183

10 Claims. (Cl. 246—219)



1. In combination, a control circuit comprising a first and a second conductor to which energy of one polarity is supplied at times and to which energy of the other polarity is supplied at other times, a polar relay connected in series with one of said conductors and having a contact movable to one position or another according as energy of one polarity or the other is supplied to the relay winding, a rectifier unit comprising a first and a second rectifier element connected in series between a first and a second terminal and both poled to permit energy to flow from said second to said first terminal, said unit also having an intermediate terminal between said rectifier elements, the first conductor being connected to the intermediate terminal of said rectifier unit, the contact of said polar relay being effective when in the position which it occupies when the positive terminal of the source is connected to the first conductor to connect said second conductor to the second terminal of said rectifier unit and being effective when in the position which it occupies when the positive terminal of the source is connected to the second conductor to connect said second conductor to the first terminal of said rectifier unit, a first and a second auxiliary relay, means for connecting one terminal of the winding of the first auxiliary relay to the first terminal of the rectifier unit and for connecting the other terminal of the winding of said first auxiliary relay to the intermediate terminal of said rectifier unit, means for connecting one terminal of the winding of the second auxiliary relay to the intermediate terminal of said rectifier unit and for connecting the other terminal of the winding of the second auxiliary relay to the second terminal of said rectifier unit, a circuit controlled by a contact of said first auxiliary relay, and a circuit controlled by a contact of said second auxiliary relay.

2,351,496

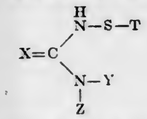
THIAZYL SULPHENAMIDE DERIVATIVES

William H. Ebelke, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Original application November 23, 1940, Serial No. 366,885. Divided and this application November 27, 1941, Serial No. 420,678

5 Claims. (Cl. 260—787)

5. A vulcanization product of rubber containing a compound having the formula



wherein X is a member selected from the group consisting of sulphur, and oxygen; T is a 1-thiazyl radical; Y and Z are radicals selected from the group consisting of hydrogen, alkyl, alkenyl, aralkyl, aryl, and alkylene radicals of a heterocyclic ring embodying the N.

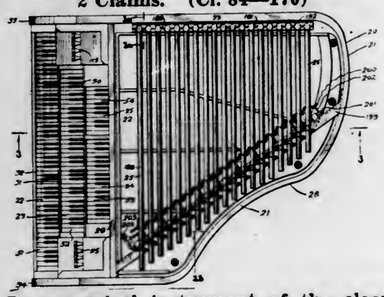
2,351,497

MUSICAL INSTRUMENT

Basil N. Fomeen, Los Angeles, Calif.

Application April 15, 1941, Serial No. 388,687

2 Claims. (Cl. 84—170)



1. In a musical instrument of the class described; a case having a stationary base plate; a plurality of piano strings vibratable at sonic frequencies and relatively stationary in position with relation to said base plate; a hammer action including a plurality of independently operable hammers and keys for actuating the same, said hammer action being detachably secured in position in spaced relation to said strings; means to provide cymbalum effect from the piano strings, including a movable buzzer element shiftable in position to a location between said hammers and said strings; said means being movable into first, second and third positions, said means in the first position thereof being disposed at a distance from said strings at least equal to the distance between said hammers and said strings, said means in the second position thereof being disposed at a distance from said strings less than the distance between said hammers and said strings; and said means in the third position thereof having the buzzer element positioned between said hammers and said strings.

2,351,498

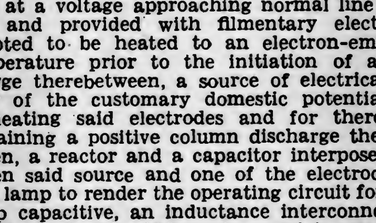
PROCESS FOR COATING SHEET MATERIAL

Donald E. Fowler, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application April 5, 1941, Serial No. 386,967

2 Claims. (Cl. 117—41)

2. A process for producing a rough rubber coating on vapor-permeable fabric which comprises plying together two sheets of vapor-permeable fabric with a layer between said fabric sheets of a substantial thickness of an uncoagulated aqueous dispersion of rubber which is adherent in the dried state to each said fabric sheets, partially drying said dispersion while



maintaining the sheets in plied condition, then separating the plied sheets whereby a partially dried coating of the aqueous dispersion of rubber will be adhered to a surface of each sheet, and thereafter individually completing the drying of the coating on each such fabric sheet.

2,351,499

DISCHARGE LAMP STARTING CIRCUIT

George A. Freeman, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 27, 1941, Serial No. 412,578

4 Claims. (Cl. 315—100)

1. A starting and operating circuit for a discharge lamp comprising a discharge lamp operable at a voltage approaching normal line voltage and provided with filmentary electrodes adapted to be heated to an electron-emitting temperature prior to the initiation of a discharge therebetween, a source of electrical energy of the customary domestic potential for preheating said electrodes and for thereafter sustaining a positive column discharge therebetween, a reactor and a capacitor interposed between said source and one of the electrodes of said lamp to render the operating circuit for said lamp capacitive, an inductance interconnecting the electrodes of said lamp to complete a reactive starting circuit to said source and adapted to initially have a voltage impressed thereacross which is approximately double that of said domestic source but insufficient to initiate a discharge in said lamp, and means in electrical parallel with said inductance and automatically operable to short-circuit the latter and cause the electrodes of said lamp to be heated to optimum electron-emitting temperature from said source and for thereafter removing the short-circuit condition of said inductance with attendant causation of a high voltage surge from said reactor and capacitor sufficiently above the voltage across said inductance to initiate a discharge between said preheated electrodes.

2,351,500

PROCESS FOR GLUCONIC ACID PRODUCTION

Andrew J. Moyer, Peoria, Ill., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office

No Drawing. Application February 6, 1941, Serial No. 377,696

2 Claims. (Cl. 195—32)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In the process of fermenting concentrated solutions of glucose to gluconic acid and salts thereof in a substantially neutral medium with aeration and agitation under superatmospheric pressure, the step of adding to the medium prior to the precipitation of the gluconic salts, at a temperature within the range 25° C. to 40° C., boric acid in a quantity equivalent to 0.25 to 1.5 grams per 100 cc. of medium, thereby preventing the precipitation of the gluconic salts formed by the fermentation without inhibiting said fermentation.

2,351,501

ELECTRON LENS STRUCTURE

Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 31, 1941, Serial No. 395,978

21 Claims. (Cl. 315—17)

1. An electron optical system comprising a pair of metallic plate members which are generally parallel throughout most of their extent, a second pair of metallic plate members which are generally parallel throughout most of their extent and are also parallel throughout most of their extent to a plane parallel to the plates of the first pair throughout most of their extent, said pairs of members being adjacent each other and having a common longitudinal axis which passes between the metallic members of each pair and each of said members being flared outwardly in a portion thereof near the other pair of members, and means for maintaining at all times the potential of one member of one of said pairs equal to that of the other member of the same pair.

2,351,502

CAM GRINDING APPARATUS

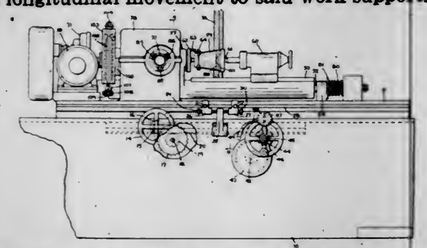
Clarence J. Green, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application September 2, 1942, Serial No. 456,975

5 Claims. (Cl. 51—101)

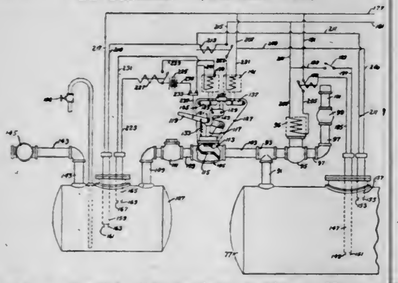
1. In a cam grinding apparatus having a transversely movable rotatable grinding wheel, a rotatable work supporting member including a rotatable spindle, means positively to rotate said spindle, a longitudinally and transversely movable support for said work supporting member,

means including a cam on said spindle and a follower to impart a transverse movement to said work supporting member, independent means including a second cam on said spindle and a second follower simultaneously to impart a longitudinal movement to said work supporting



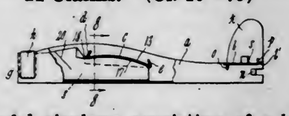
member to facilitate grinding an irregular cam face, a transversely movable support for said second follower, and means to maintain said latter follower in a predetermined relationship with said second cam during transverse movement of said longitudinally and transversely movable support.

2,351,503
LIQUID DISPENSING APPARATUS
Clement P. Griffith and Walter A. Barr, Fort Wayne, Ind., assignors to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application July 12, 1941, Serial No. 402,200
11 Claims. (Cl. 222—61)



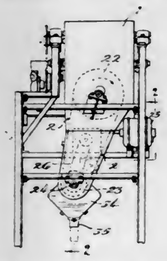
1. In a liquid dispensing system, the combination of a tank for storing the liquid to be dispensed, a displacement liquid inlet for said tank, a dispensing outlet in said tank, a separator connected with said outlet, and a valve disposed between said tank and separator, valve closing means, comprising control means in both said separator and said tank adapted to be actuated by a predetermined maximum level of displacement liquid, for closing said valve.

2,351,504
MODEL AIRPLANE GLIDER
Paul K. Guillow, Wakefield, Mass.
Application January 19, 1943, Serial No. 472,863
11 Claims. (Cl. 46—79)



1. A model airplane consisting of a body portion having lateral panels interconnected in the under part of the body and spaced apart in their upper portions, said panels having slots, a wing member contained within said slots and having wing extremities extending to either side of the body portion, and a wing support confined between said panels and supported by the connecting portions thereof extending beneath the wing member and having an edge engaging the under side of the wing member.

2,351,505
DISPENSING MECHANISM
Henry F. Hagemeyer, Chicago, Ill., assignor to Castings Patent Corporation, a corporation of Illinois
Application July 11, 1939, Serial No. 283,868
3 Claims. (Cl. 222—371)

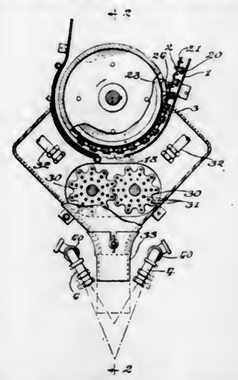


1. Dispensing mechanism for powdered material having bad packing characteristics comprising a storage bin having an outlet adjacent the lower end thereof, means for delivering a measured quantity of powdered material from said storage bin to said outlet, said means comprising a pair of rotatable drums, one of said drums being positioned in the upper portion of said bin and said other drum being positioned adjacent the discharge outlet, a pair of chains spaced a predetermined distance apart adapted to revolve around said drums, a plurality of elongated bars extending transversely of the direction of movement of said chains, said bars being secured to said chains at each end thereof, a portion of the wall of said bin being shaped to form an arcuate slot in conjunction with the surface of said drum, said slot having a width slightly in excess of the thickness of said bars and said bars and said chains being arranged to pass through said slot, and means for continuously driving said chains and bars rapidly through said material, whereby said bars when travelling in the upward direction keep such material in a state of live suspension and when travelling in a downward direction through said slot carry a measured quantity of powdered material to said outlet.

2,351,506
DISPENSING MECHANISM
Henry F. Hagemeyer, Chicago, Ill., assignor to Castings Patent Corporation, Chicago, Ill., a corporation of Illinois
Original application July 11, 1939, Serial No. 283,868. Divided and this application March 11, 1941, Serial No. 382,707
5 Claims. (Cl. 83—93)

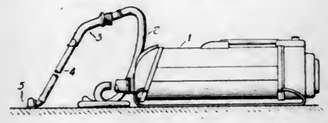
2. Means for dispensing measured quantities of powdered material in a thin elongated freely falling sheet, said means including means for fluffing said sheet, said fluffing means comprising a pair of positively rotatable overlapping elongated members positioned adjacent one another and directly in the path of said sheet of falling material, each of said members having a plurality of wires extending between the end portions thereof,

each of said pair of rotatable members being adapted to be rotated at a speed greater than the speed of fall of said powdered material, whereby



said sheet of freely falling material is received and expelled from said rotatable members without materially altering the direction of fall of said sheet or its general form.

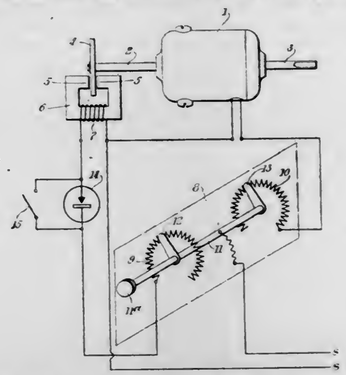
2,351,507
VACUUM CLEANER
Robert Lay Hallock, Larchmont, N. Y.
Application June 24, 1942, Serial No. 448,191
2 Claims. (Cl. 15—158)



1. A combination tool for use with a vacuum cleaner comprising a substantially rigid tube section having straight portions each disposed at an angle to the other and each provided at its free end with a cleaning nozzle, each cleaning nozzle having different cleaning characteristics from the other, the straight portion of each tube section with its respective nozzle being constructed to telescopically receive and frictionally retain another connecting tube section, said combination tool serving as a handle by means of which the connecting tube section may be held or moved, and serving as a joining member between said connecting tube section and a tube leading to a source of suction, or usable separately as a nozzle with either end presentable to work to be cleaned.

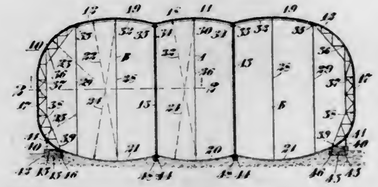
2,351,508
ELECTRIC MOTOR CONTROL SYSTEM
Hugh G. Hamilton, Baldwin, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application May 8, 1943, Serial No. 486,127
6 Claims. (Cl. 171—229)

6. In an electric motor control system, a source of current, a commutator-type series-wound motor, a first adjustable impedance connected in series with said source and said motor, an electromagnet having opposed poles, a current-carrying winding applied to said electromagnet, a disc of current-conducting material rotatable by said motor between said opposed poles, a second adjustable impedance connected in series with said source and said winding, said first and second adjustable impedances being connected together for operation from a common actuating element



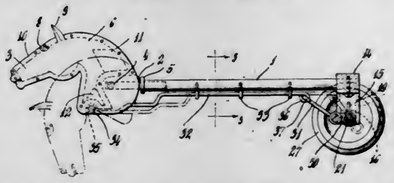
so that the respective impedance values may be simultaneously changed in opposite directions to control the speed of said motor.

2,351,509
TANK CONSTRUCTION
Hans Hammeren, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application April 8, 1943, Serial No. 482,282
6 Claims. (Cl. 220—18)



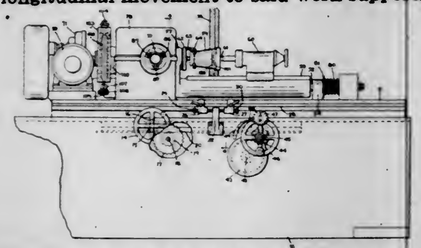
1. A cellular tank construction comprising a central cell having vertical peripheral walls forming an equilateral triangle, and three surrounding segmental cells each comprising a vertical circular wall, and a vertical chordal wall coincidental with one of said peripheral walls, the vertices of said peripheral walls and the centers of said circular walls lying at equal distances alternately on a circle whose center is the geometric center of said construction and of said central cell, and walls closing the tops and bottoms of each of said cells.

2,351,510
TOY STICK HORSE
Roy G. Harless, Gillette, Wyo., assignor of one-half to J. W. Baker, Sheridan, Wyo.
Application April 26, 1943, Serial No. 484,539
1 Claim. (Cl. 46—97)



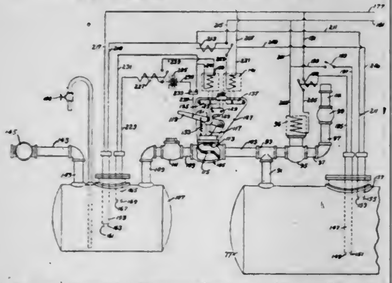
A toy stick horse comprising a horse's head which consists of two thin plates having the out-

means including a cam on said spindle and a follower to impart a transverse movement to said work supporting member, independent means including a second cam on said spindle and a second follower simultaneously to impart a longitudinal movement to said work supporting



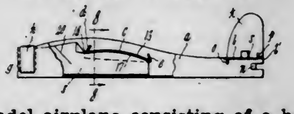
member to facilitate grinding an irregular cam face, a transversely movable support for said second follower, and means to maintain said latter follower in a predetermined relationship with said second cam during transverse movement of said longitudinally and transversely movable support.

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11 Claims. (Cl. 222—61)



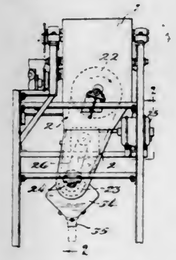
1. In a liquid dispensing system, the combination of a tank for storing the liquid to be dispensed, a displacement liquid inlet for said tank, a dispensing outlet in said tank, a separator connected with said outlet, and a valve disposed between said tank and separator, valve closing means, comprising control means in both said separator and said tank adapted to be actuated by a predetermined maximum level of displacement liquid, for closing said valve.

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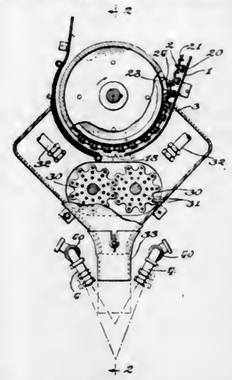


1. Dispensing mechanism for powdered material having bad packing characteristics comprising a storage bin having an outlet adjacent the lower end thereof, means for delivering a measured quantity of powdered material from said storage bin to said outlet, said means comprising a pair of rotatable drums, one of said drums being positioned in the upper portion of said bin and said other drum being positioned adjacent the discharge outlet, a pair of chains spaced a predetermined distance apart adapted to revolve around said drums, a plurality of elongated bars extending transversely of the direction of movement of said chains, said bars being secured to said chains at each end thereof, a portion of the wall of said bin being shaped to form an arcuate slot in conjunction with the surface of said drum, said slot having a width slightly in excess of the thickness of said bars and said bars and said chains being arranged to pass through said slot, and means for continuously driving said chains and bars rapidly through said material, whereby said bars when travelling in the upward direction keep such material in a state of live suspension and when travelling in a downward direction through said slot carry a measured quantity of powdered material to said outlet.

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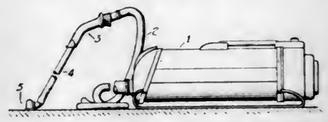
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each of said pair of rotatable members being adapted to be rotated at a speed greater than the speed of fall of said powdered material, whereby



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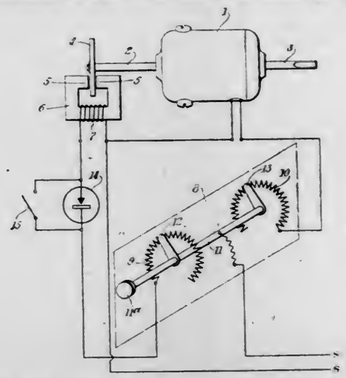
2,351,507
VACUUM CLEANER
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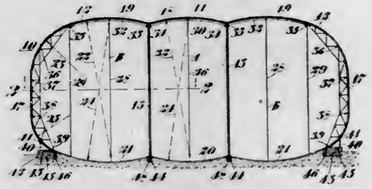
2,351,508
ELECTRIC MOTOR CONTROL SYSTEM
Hugh G. Hamilton, Baldwin, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
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6 Claims. (Cl. 171—229)

6. In an electric motor control system, a source of current, a commutator-type series-wound motor, a first adjustable impedance connected in series with said source and said motor, an electromagnet having opposed poles, a current-carrying winding applied to said electromagnet, a disc of current-conducting material rotatable by said motor between said opposed poles, a second adjustable impedance connected in series with said source and said winding, said first and second adjustable impedances being connected together for operation from a common actuating element



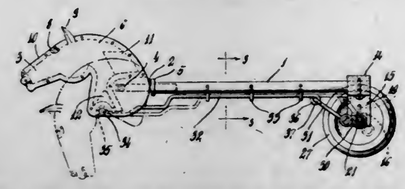
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TANK CONSTRUCTION
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6 Claims. (Cl. 220—18)



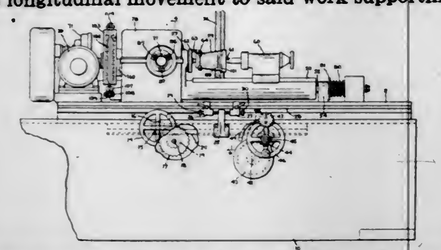
1. A cellular tank construction comprising a central cell having vertical peripheral walls forming an equilateral triangle, and three surrounding segmental cells each comprising a vertical circular wall, and a vertical chordal wall coincidental with one of said peripheral walls, the vertices of said peripheral walls and the centers of said circular walls lying at equal distances alternately on a circle whose center is the geometric center of said construction and of said central cell, and walls closing the tops and bottoms of each of said cells.

2,351,510
TOY STICK HORSE
Roy G. Harless, Gillette, Wyo., assignor of one-half to J. W. Baker, Sheridan, Wyo.
Application April 26, 1943, Serial No. 484,539
1 Claim. (Cl. 46—97)



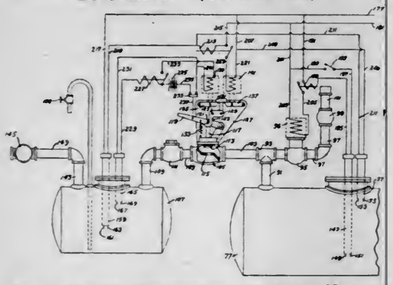
A toy stick horse comprising a horse's head which consists of two thin plates having the out-

means including a cam on said spindle and a follower to impart a transverse movement to said work supporting member, independent means including a second cam on said spindle and a second follower simultaneously to impart a longitudinal movement to said work supporting
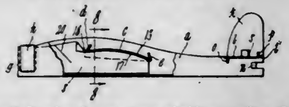


member to facilitate grinding an irregular cam face, a transversely movable support for said second follower, and means to maintain said latter follower in a predetermined relationship with said second cam during transverse movement of said longitudinally and transversely movable support.

2,351,503
LIQUID DISPENSING APPARATUS
Clement P. Griffith and Walter A. Barr, Fort Wayne, Ind., assignors to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application July 12, 1941, Serial No. 402,200
11 Claims. (Cl. 222—61)



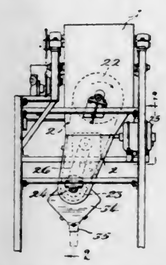
1. In a liquid dispensing system, the combination of a tank for storing the liquid to be dispensed, a displacement liquid inlet for said tank, a dispensing outlet in said tank, a separator connected with said outlet, and a valve disposed between said tank and separator, valve closing means, comprising control means in both said separator and said tank adapted to be actuated by a predetermined maximum level of displacement liquid, for closing said valve.

2,351,504
MODEL AIRPLANE GLIDER
Paul K. Guillow, Wakefield, Mass.
Application January 19, 1943, Serial No. 472,863
11 Claims. (Cl. 46—79)



1. A model airplane consisting of a body portion having lateral panels interconnected in the under part of the body and spaced apart in their upper portions, said panels having slots, a wing member contained within said slots and having wing extremities extending to either side of the body portion, and a wing support confined between said panels and supported by the connecting portions thereof extending beneath the wing member and having an edge engaging the under side of the wing member.

2,351,505
DISPENSING MECHANISM
Henry F. Hagemeyer, Chicago, Ill., assignor to Castings Patent Corporation, a corporation of Illinois
Application July 11, 1939, Serial No. 283,868
3 Claims. (Cl. 222—371)

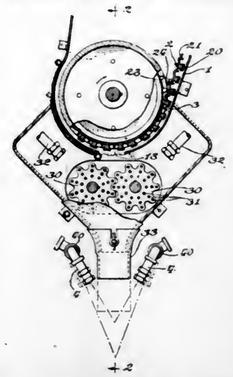


1. Dispensing mechanism for powdered material having bad packing characteristics comprising a storage bin having an outlet adjacent the lower end thereof, means for delivering a measured quantity of powdered material from said storage bin to said outlet, said means comprising a pair of rotatable drums, one of said drums being positioned in the upper portion of said bin and said other drum being positioned adjacent the discharge outlet, a pair of chains spaced a predetermined distance apart adapted to revolve around said drums, a plurality of elongated bars extending transversely of the direction of movement of said chains, said bars being secured to said chains at each end thereof, a portion of the wall of said bin being shaped to form an arcuate slot in conjunction with the surface of said drum, said slot having a width slightly in excess of the thickness of said bars and said bars and said chains being arranged to pass through said slot, and means for continuously driving said chains and bars rapidly through said material, whereby said bars when travelling in the upward direction keep such material in a state of live suspension and when travelling in a downward direction through said slot carry a measured quantity of powdered material to said outlet.

2,351,506
DISPENSING MECHANISM
Henry F. Hagemeyer, Chicago, Ill., assignor to Castings Patent Corporation, Chicago, Ill., a corporation of Illinois
Original application July 11, 1939, Serial No. 283,868. Divided and this application March 11, 1941, Serial No. 382,707
5 Claims. (Cl. 83—93)

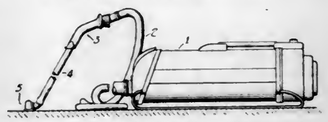
2. Means for dispensing measured quantities of powdered material in a thin elongated freely falling sheet, said means including means for fluffing said sheet, said fluffing means comprising a pair of positively rotatable overlapping elongated members positioned adjacent one another and directly in the path of said sheet of falling material, each of said members having a plurality of wires extending between the end portions thereof,

each of said pair of rotatable members being adapted to be rotated at a speed greater than the speed of fall of said powdered material, whereby



said sheet of freely falling material is received and expelled from said rotatable members without materially altering the direction of fall of said sheet or its general form.

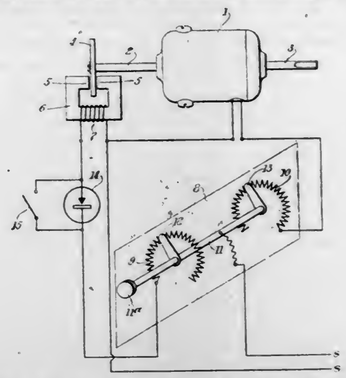
2,351,507
VACUUM CLEANER
Robert Lay Hallock, Larchmont, N. Y.
Application June 24, 1942, Serial No. 448,191
2 Claims. (Cl. 15—158)



1. A combination tool for use with a vacuum cleaner comprising a substantially rigid tube section having straight portions each disposed at an angle to the other and each provided at its free end with a cleaning nozzle, each cleaning nozzle having different cleaning characteristics from the other, the straight portion of each tube section with its respective nozzle being constructed to telescopically receive and frictionally retain another connecting tube section, said combination tool serving as a handle by means of which the connecting tube section may be held or moved, and serving as a joining member between said connecting tube section and a tube leading to a source of suction, or usable separately as a nozzle with either end presentable to work to be cleaned.

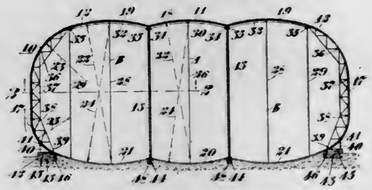
2,351,508
ELECTRIC MOTOR CONTROL SYSTEM
Hugh G. Hamilton, Baldwin, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application May 8, 1943, Serial No. 486,127
6 Claims. (Cl. 171—229)

6. In an electric motor control system, a source of current, a commutator-type series-wound motor, a first adjustable impedance connected in series with said source and said motor, an electromagnet having opposed poles, a current-carrying winding applied to said electromagnet, a disc of current-conducting material rotatable by said motor between said opposed poles, a second adjustable impedance connected in series with said source and said winding, said first and second adjustable impedances being connected together for operation from a common actuating element



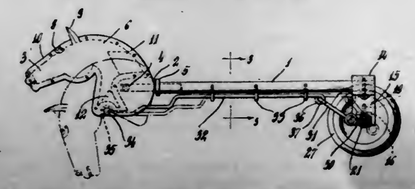
so that the respective impedance values may be simultaneously changed in opposite directions to control the speed of said motor.

2,351,509
TANK CONSTRUCTION
Hans Hammeren, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application April 8, 1943, Serial No. 482,282
6 Claims. (Cl. 220—18)



1. A cellular tank construction comprising a central cell having vertical peripheral walls forming an equilateral triangle, and three surrounding segmental cells each comprising a vertical circular wall, and a vertical chordal wall coincidental with one of said peripheral walls, the vertices of said peripheral walls and the centers of said circular walls lying at equal distances alternately on a circle whose center is the geometric center of said construction and of said central cell, and walls closing the tops and bottoms of each of said cells.

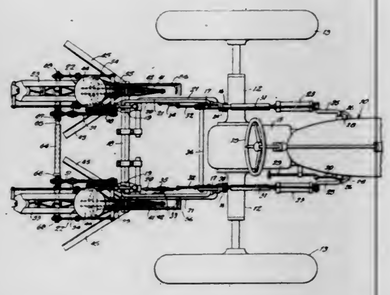
2,351,510
TOY STICK HORSE
Roy G. Harless, Gillette, Wyo., assignor of one-half to J. W. Baker, Sheridan, Wyo.
Application April 26, 1943, Serial No. 484,539
1 Claim. (Cl. 46—97)



A toy stick horse comprising a horse's head which consists of two thin plates having the out-

line of a horse's head and being spaced apart by means of a ledge attached along the major part of the edges of said plates; balance weights secured between said plates; a stick to the front end of which said horse's head is pivotally secured; an axletree secured to the rear end of said stick; two rotating axles held in screw eyes which are secured to longitudinal channels at the lower part of said axletree and extending through said channels; two wheels each of which being secured to one of said rotating axles; a crank secured to one of said rotating axles; a rod adapted to be reciprocated being pivotally connected to said horse's head and being guided by screw eyes which are secured to said stick; and a connecting rod adapted to connect said crank to said reciprocable rod.

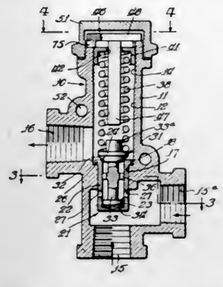
2,351,511
DISPENSING ARRANGEMENT
James L. Hipple, Frederick L. Dewey, and Burton F. Burnett, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 19, 1942, Serial No. 447,694
3 Claims. (Cl. 111—59)



1. The combination with a tractor having laterally spaced rear wheels, of a tool-supporting frame connected to the tractor to be supported thereby for vertical movement to and from working position, laterally spaced material dispensing units carried by the tool-supporting frame, laterally spaced ground drive wheels between said rear wheels, means drivingly connecting said ground drive wheels to said dispensing units, and means for connecting said ground drive wheels together, whereby said dispensing units may be driven by one or the other of said ground drive wheels.

2,351,512
NONCHATTERING RELIEF VALVE
Ray G. Holt, Euclid, Ohio, assignor to Pesco Products Co., a corporation of Ohio
Application July 3, 1942, Serial No. 449,579
3 Claims. (Cl. 137—53)

1. In a relief valve arrangement, means defining an elongated generally tubular housing forming a main bore for said relief valve, a first terminal portion of said main bore forming an inlet to said main bore, means forming an outlet from said main bore communicating therewith at a position spaced therealong from the terminal portions thereof, said main bore having a reduced portion between the area of communication with said outlet passage and said inlet portion, means defining a separate combination valve seat and dash pot cylinder insertable within said main bore through said other terminal portion thereof and receivable in engagement with the reduced portion of said main bore, said separate combination valve seat and dash pot cylinder comprising a tubular sleeve closed at a first end portion thereof to define a dash pot cylinder, and open at the other end portion thereof to define a valve seat, means defining a valve assembly including a valve receivable in engagement with said valve seat and a protuberant stem portion terminating in a piston cooperating with said dash pot cylinder, said sleeve being formed with radial ports through the wall thereof between said dash pot cylinder and said valve seat, adjustable means for closing said other terminal portion of said main bore and spring means interposed between said closing means and said valve assembly for urging said valve in the direction of said seat, said closing means comprising an externally threaded adjusting nut receivable within comple-

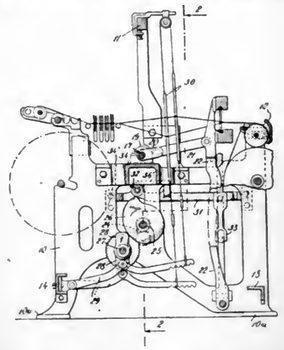


mentary threads formed within said other terminal portion of said main bore for engaging one end of said spring, a valve stop and adjustable nut locking assembly including a depending non-circular portion receivable through a complementarily formed non-circular portion of said adjusting nut and extending coaxially of said bore to within a predetermined distance of said valve assembly and functioning to limit the movement of said valve from said seat, said valve stop and adjusting nut lock further including a radially extending bar portion, at the adjacent terminal portion of said main bore, the adjacent portion of the housing being formed with coaxially extending recesses for the reception of the extremities of said bar portion and an internally threaded bonnet receivable about the said adjacent portion of the housing in cooperation with externally formed threads on the said adjacent portion of the housing.

2,351,513
LOOM
John O. Hunt, Greenville, S. C., assignor to Mountain City Foundry and Machine Co., Greenville, S. C., a corporation of South Carolina
Application November 2, 1943, Serial No. 508,669
15 Claims. (Cl. 139—1)

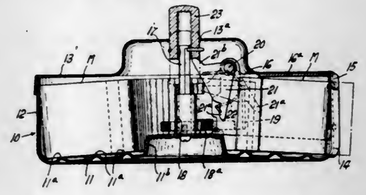
1. In a loom having a lay and a pair of picker sticks, the combination of a pair of sides, means connecting the sides at the front and at the back, a crank shaft mounted at its ends for rotation in bearings on the sides and having a crank at each end lying inward from and adjacent to one of said bearings, crank arms mounted on the cranks for connecting the cranks to the lay, a cam shaft mounted at its ends for rotation in bearings on the sides, the cam shaft lying beneath the crank shaft, a pick cam at each end of the cam shaft and beneath one of the cranks,

a pick shaft mounted on each side and having an arm connectable to a picker stick and a pick ball resting on the adjacent cam, and a spreader



connecting the sides and lying between the crank and cam shafts, the spreader having openings near its ends to receive the adjacent crank and pick ball as they are moved during operation.

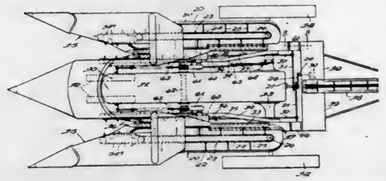
2,351,514
DISPENSING DEVICE
Paul Hutchinson, St. Louis, Mo.
Application December 23, 1940, Serial No. 371,226
6 Claims. (Cl. 312—69)



3. An article dispensing device comprising a casing for receiving a horizontally disposed series of articles, said casing having a dispensing opening therein, a relatively fixed abutment mounted in said casing adjacent said dispensing opening whereby an article against said abutment will be aligned with the dispensing opening, means for urging said series of articles toward said abutment, a spring pressed arm pivotally mounted adjacent said abutment and adapted to be swung toward the dispensing opening yieldingly to engage an article against the abutment, and thereby to project the article through said dispensing opening, and depressible means operable at will to swing said pivoted arm toward said dispensing opening.

2,351,515
CORN PICKER
Benjamin M. Hyman and John L. Aasland, Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application January 2, 1942. Serial No. 425,406
9 Claims. (Cl. 56—18)

1. In combination, a supporting frame adapted to be moved in a certain direction over the ground, snapping rolls positioned on the supporting frame and extending in the direction of movement of the frame, means mounting the snapping rolls on the frame, husking rolls positioned on the frame offset from the snapping rolls transversely of the direction of movement and extending in the direction of movement and having their entire length beyond the snapping rolls, a conveyor extending along the snapping rolls and the husking rolls and being offset from the snapping rolls a greater amount than from the husk-



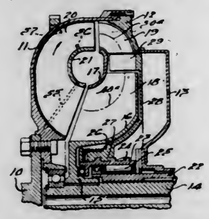
ing rolls, and means mounting the conveyor on the frame, whereby ears of corn snapped by the snapping rolls are forwarded by the conveyor along the snapping rolls but out of contact therewith and are advanced by the conveyor along and in contact with the husking rolls for husking.

2,351,516
TURBOTRANSMISSION
Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 24, 1940, Serial No. 337,037
10 Claims. (Cl. 103—115)



1. A device comprising a rotatable wheel, main vanes having rounded entrance edges arranged in spaced relation to one another on the wheel and providing channels between the vanes for flow of fluid, a plurality of sets of automatically adjustable rectifying vanes of different lengths supported on the wheel and yieldingly urged in one direction for cooperation with the main vanes operative to maintain an optimum entrance angle of flow of fluid through the channels.

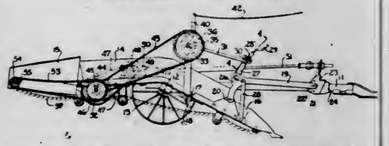
2,351,517
TURBOTRANSMISSION
Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 25, 1940, Serial No. 366,949
8 Claims. (Cl. 103—115)



1. A blade wheel for a fluid transmission having spaced web and shroud members defining a fluid channel having fluid inlet and exit portions therebetween, fluid energizing three-dimensional blades carried by the blade wheel and having a high pitch angle section adjacent the web and a lower pitch angle section adjacent the shroud, the high and lower pitch angle sections converging intermediate the web and shroud members to provide a fluid foil shaped blade of smooth

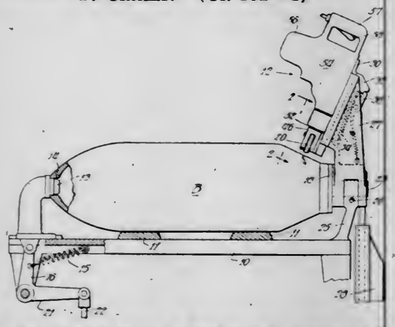
contour, the exit portion of the blade adjacent the web being curved to embody a lower pitch to decrease its efficiency, and the blade adjacent the shroud being of substantially constant pitch angle section to maintain its efficiency at the exit of the fluid channel.

2,351,518
DIGGER
Arnold E. W. Johnson, Chicago, Ill., and Lee H. Kaupke, Auburn, N. Y., assignors to International Harvester Company, a corporation of New Jersey
Application June 3, 1940, Serial No. 338,518
8 Claims. (Cl. 55—51)



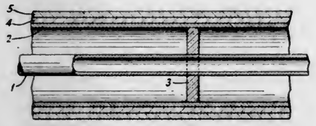
1. In combination, a digger frame including a stationary section and a liftable section at the front thereof, a pair of engageable elements mounted on the stationary section, draft means secured to the stationary section and extending forward therefrom, a member pivotally connected to the draft means and to the liftable section, a lever pivotally mounted on the member, means connecting the lever and the liftable section, means connecting the lever and one engageable element, a source of power, and means connecting the source of power and the other engageable element.

2,351,519
MARKER
Helge S. Jonsson, Villa Park, Ill., assignor to The C. H. Hanson Company, Chicago, Ill., a corporation of Illinois
Application July 30, 1942, Serial No. 452,926
17 Claims. (Cl. 101—4)



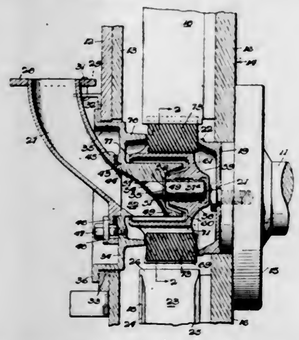
10. An engraving mechanism comprising a round inscription wheel having raised engraving characters on the peripheral surface thereof, mounting means for rotatably supporting said wheel, vibratory mechanism to induce limited vibratory impact to said inscription wheel in a direction toward the work, whereby said engraving characters are caused to be indented into the surface of a piece of work, and guide means for movably supporting said wheel mounting means and having work positioning means, said guide means comprising resilient means for urging said inscription wheel into engraving contact with the surface of said piece of work and latch means to releasably hold said wheel out of contact with said work surface, and having cooperative supporting and guide members for guiding said inscription wheel to follow along the surface of said piece of work whereby said inscription wheel is caused to move over the surface of said work and to rotate by the progressive interlocking reaction of each successive character of said wheel being held within the character impression made thereby in the surface of said piece of work as said wheel is being vibrated.

2,351,520
TRANSMISSION LINE
Martin Katzin and Ferdinand J. W. Schoenborn, Riverhead, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application September 12, 1940, Serial No. 356,424
1 Claim. (Cl. 174—27)



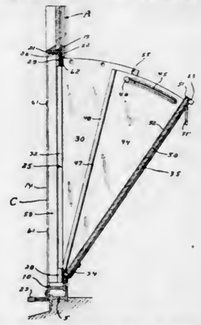
A high frequency transmission line system comprising a pair of parallel conductors whose relative lengths are to be maintained substantially equal for all temperature conditions, said conductors being inflexible and rigidly supported, spacers of dielectric material between said conductors for maintaining constant spacing between the conductors, thermal insulation surrounding said conductors for preventing sudden temperature changes in the conductors to thereby maintain at all times a low temperature difference between said conductors, the thickness of said insulation being such as to maintain a low temperature difference between said conductors within predetermined limits in the presence of appreciably higher ambient temperature changes, and rigid terminals at both ends of said line to prevent sliding of one conductor relative to the other conductor.

2,351,521
ABRADING APPARATUS
Walter L. Keefer, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application July 23, 1941, Serial No. 403,720
12 Claims. (Cl. 51—9)



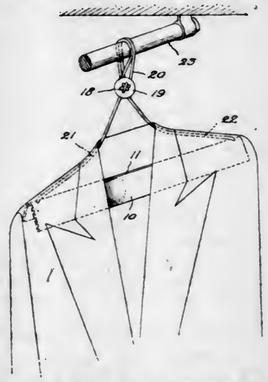
1. In an abrading apparatus, a rotor having a plurality of abrasive propelling blades, the inner ends of said blades being spaced apart to define a central opening, means to feed abrasive into said central opening, and means to transfer said abrasive to the inner ends of said blades comprising a cage-like member formed with a passage in its periphery adjacent the inner ends of each of said blades, and valve means to normally close each of said passages, said member being mounted to rotate about an axis sufficiently eccentric of said rotor axis to bring the orbit of the inner end of the blades within the orbit of said valve means to thereby cause said valve means to be opened by the inner ends of said blades at a predetermined point.

2,351,522
WINDOW VENTILATOR FOR CASEMENTS
Otto Kubatzky, St. Louis, Mo.
Application November 22, 1940, Serial No. 366,744
9 Claims. (Cl. 98—96)



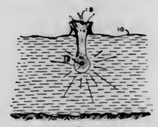
1. A ventilator for windows comprising an open frame including top, bottom and side rails, a trough along the bottom rail, a fixed side wing extending inward from each side rail, a movable side wing inwardly of each fixed side wing, a pin and slot connection connecting the upper portions of the fixed and movable said wings, a deflecting shield rockably supported in said trough between and movable with respect to the movable side wings, and flanges on the movable side wings adjacent the inner and outer edges thereof, engageable by the side ends of the deflecting shield upon opening and closing movement of the deflecting shield.

2,351,523
GARMENT HANGER
Nicholas Langer, New York, N. Y.
Application September 29, 1942, Serial No. 460,174
8 Claims. (Cl. 223—88)



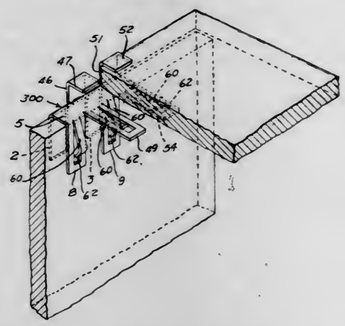
1. A garment hanger comprising in combination a transverse member constituted of a substantially oblong sheet folded along a medial line, a cord attached to the end portions of said sheet substantially in said medial line, and forming upwardly converging garment-supporting lines, a suspension loop integrally formed from said cord at the region where said lines meet, and a relatively rigid locking element attached to said region adapted to be buttoned into said loop when said loop is bent around a supporting pole thereby to secure said garment hanger in suspended relation to said pole.

2,351,524
METHOD OF SEISMIC PROSPECTING
Roy Livingston Lay, Bernhardt Henry Treybig, Jr., and Laurence M. Hubby, Houston, Tex., assignors to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Application May 23, 1942, Serial No. 444,290
3 Claims. (Cl. 181—0.5)



1. In the process of seismic exploration in which the firing of a charge of explosive placed below the surface of a body of water is used to generate seismic waves, the method of preventing the occurrence of secondary P waves when the charge is exploded which comprises correlating the amount of the charge, the strength of the explosive, and the depth of the charge in the body of water so that the explosive force of the charge when fired is just sufficient to blow out the water above the exploding charge, placing the charge of explosive at the predetermined depth, and firing the charge to generate seismic waves.

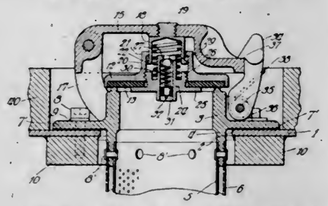
2,351,525
WALL CONSTRUCTION AND DEVICE THEREFOR
Marshall L. Leary, Columbus, Ga.
Original application January 6, 1939, Serial No. 249,545. Divided and this application May 2, 1941, Serial No. 391,505
7 Claims. (Cl. 72—46)



1. A clip for engagement with the edges of wallboards to be supported in a wall construction which comprises a pair of flanges like-extending and in spaced relation, a portion of the clip connecting said flanges to leave the space therebetween open at one end for the edge portion of

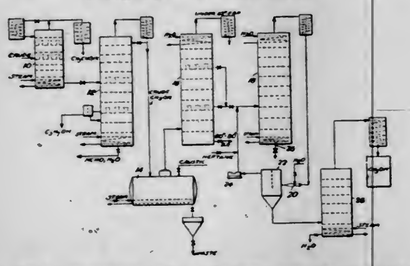
a wallboard to be placed therebetween, a finger having an end portion thereof extending at an angle to the other portion thereof, said finger having said other portion thereof hingedly attached to said clip with said end portion free, said finger being so formed and so positioned adjacent to one of said flanges with said free end portion extending toward said flange that when said finger is hingedly moved upon said point of attachment said free end portion thereof will pass by the flange and through the plane thereof to enter the face of a wallboard placed between the flanges.

2,351,526
GAS TANK FITTING
William A. Lebus, Chicago, Ill., assignor to Protectoseal Company of America, Inc., Chicago, Ill., a corporation of Illinois
Application February 12, 1942, Serial No. 430,544
6 Claims. (Cl. 220—44)



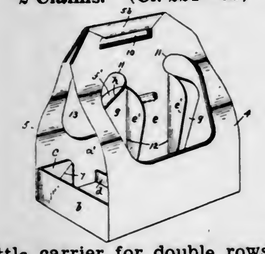
1. A closure of the kind described for tanks having a filling opening, comprising a tubular body member arranged for securement on the tank at the filling opening and provided with a valve seat at its open outer end, a valve carrying member pivotally secured to said body member, means for releasably securing said valve carrying member in operative position, a pressure relief valve cooperating with said valve seat, means for adjustably securing said valve to said valve carrying member, including telescopic sleeves carried by the valve carrying member and valve respectively, said sleeves having annular flanges disposed in overlapping relationship to limit the separation of said sleeves and to provide a substantially enclosed chamber having an air passage opening past said flanges, and a spring actuated vacuum relief valve located in said chamber and carried by said pressure valve.

2,351,527
REFINING LOW-BOILING ALCOHOLS
Richard E. Lembcke, Tallant, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware
Application April 22, 1941, Serial No. 389,716
6 Claims. (Cl. 202—42)



1. The process of refining crude methanol which comprises, fractionally distilling the crude in the presence of commercial heptane under controlled conditions of reflux to distil overhead substantially all the methanol as a minimum boiling methanol-heptane azeotrope distillate, adding water to the distillate, allowing the aqueous mixture to separate by gravity into a top layer of heptane and a bottom aqueous methanol layer, returning heptane from the separated top layer to the distillation zone for use in continuing the azeotropic separation of methanol from the crude, and fractionally distilling the aqueous methanol layer to recover a substantially impurity-free methanol cut.

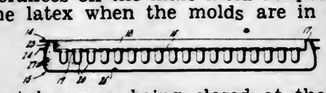
2,351,528
BOTTLE CARRIER
Elmer H. Lupton, Ilchester, Md.
Application August 29, 1940, Serial No. 354,750
2 Claims. (Cl. 224—45)



1. A bottle carrier for double rows of bottles to be carried therein, formed from a single blank of material, comprising a quasi-triangular enclosure or the like with the base portion horizontally arranged for the support of a plurality of bottles disposed vertically therein, said base having relatively short extending upright end pieces for retaining the lower portions of the bottles thereon, the sides forming walls of the enclosure being extended from the base and brought to substantially an apexed edge and secured together near the said edge into a relatively short flat panel, with a portion of each wall cut out leaving pending partitions extending downwardly from said panel to form a cushioning element between the longitudinal rows of the bottles, end portions of said pending partitions being bent outwardly at right angles thereto to form additional cushioning elements between the bottles of each of the rows, said panel also having portions removed therefrom to leave aligned holes therethrough adjacent the apexed edge to form a handle opening therefor above the tops of the bottles, the contour of said pending partition being formed on return curves restricting the size of the partition at its juncture with the side walls aforesaid and enabling the remaining inner edge of the cut out portions of the walls to triangularly contact the bottles to suit their external surfaces transversely and vertically and allow the same to be held interiorly at their bottoms and project exteriorly from the carrier at their upper portions.

2,351,529
SHAPING MOLD
Eugene A. Luxenberger and Herbert C. Erich, Mishawaka, and Marion M. Cunningham, South Bend, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 16, 1940, Serial No. 319,234
3 Claims. (Cl. 18—39)

3. A shaping mold for setting and vulcanizing foamed latex comprising in combination a female mold member open at its top and adapted to contain a predetermined quantity of latex, a complementary male mold member adapted to register with the female mold to form therewith a closed container, a plurality of thin-walled protuberances on the male mold adapted to dip into the latex when the molds are in register,



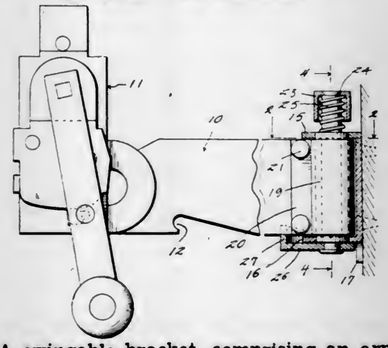
said protuberances being closed at their inner ends and open to the outside of the mold at their outer ends and vents in the walls of the protuberances located substantially at the level of the latex in the female mold when said molds are in register and said predetermined quantity of latex is in the mold.

2,351,530
METHOD OF SEALING-IN AND MOLDING LAMP BULBS
Michael E. McGowan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application December 21, 1935, Serial No. 55,519, now Patent No. 2,212,842, dated August 27, 1940. Divided and this application July 13, 1940, Serial No. 345,310
11 Claims. (Cl. 49—78)



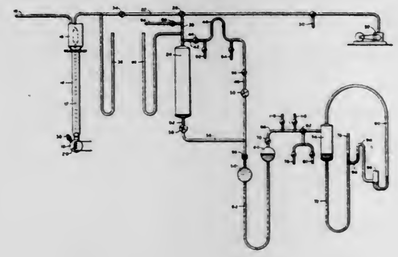
1. The method of sealing a bulb with a neck portion to a flare tube which comprises creating a high temperature heat zone, assembling a bulb and flare tube with the neck portion of said bulb surrounding an end of said flare tube, positioning said assembled parts with said neck portion in said heat zone, and blowing air between said neck portion and tube, along the inner surface of said neck portion, until the latter and said flare tube end are united by fusion.

2,351,531
SWING-OUT-OF-THE-WAY-TYPE WALL BRACKET
Robert E. McLean, Fort Benning, Ga.
Application April 26, 1943, Serial No. 484,626
9 Claims. (Cl. 248—289)



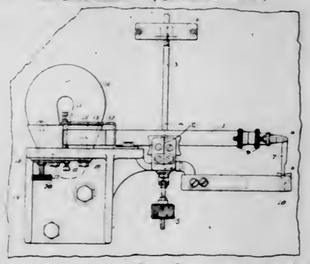
1. A swingable bracket, comprising an arm, a plate adapted to be secured vertically to a supporting body, a hinge coupling between an end of the arm and the plate facilitating swinging the arm on a vertical axis, a pin supported for longitudinal movement on a path paralleling the pivotal axis of the hinge, a plate attached to the pin and disposed across the arm to be moved relative to the arm by the pin, locking means carried by the second mentioned plate for partially receiving and holding the arm when the arm is swung to one position, and means urging the second mentioned plate toward the arm for engagement of the arm in the locking means.

2,351,532
GAS ANALYSIS APPARATUS
Wallace A. McMillan, Forest Hills, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 9, 1940, Serial No. 364,996
2 Claims. (Cl. 23—254)



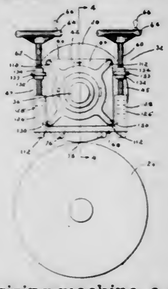
1. Apparatus for quantitatively determining the percentages of gaseous unsaturated and saturated hydrocarbons in a gaseous mixture containing the same, comprising a receiver for said mixture, a conduit connected to the receiver whereby a known volume of hydrogen may be introduced therein, a bulb adapted to contain mercury, a conduit connecting said bulb and said receiver and containing a hydrogenation catalyst, a second conduit connecting said bulb and said receiver and means for automatically and intermittently drawing the mixture of the hydrogen-containing gases from said receiver into said bulb through said second conduit and then returning the mixture through said catalyst to said receiver through the first-mentioned conduit, said last-mentioned means comprising a U tube closed at one end, said end being connected to said bulb, a tubular container having its upper end open and its lower end connected to the closed end of said U tube, an inverted U tube connected at one end to the open leg of said first U tube and at the other end to said container, said container, said U tubes and said bulb normally holding a quantity of mercury, a source of vacuum connected to the closed end of said first mentioned U tube, the arrangement being such that the vacuum will draw mercury from said bulb and from said container so as to draw gases from the receiver into the bulb, whereupon air will enter through the open end of said container to break the vacuum, thus allowing mercury to return to said bulb, forcing the gases through the catalyst and back into said receiver, and a manometer communicating with said receiver for indicating the volume of hydrogen-containing gases in said receiver before and after said gases are passed through said catalyst.

2,351,533
WEIGHING MECHANISM
Desmond Walter Molins, Cyril Best, and Gordon Francis Wellington Powell, Deptford, London, England, assignors to Molins Machine Company, Limited, Deptford, London, England
Application January 3, 1941, Serial No. 373,052
In Great Britain January 4, 1940
5 Claims. (Cl. 265—27)



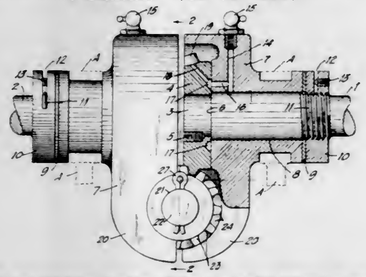
1. In weighing mechanism, a pivoted weigh beam, a support for an article to be weighed connected with the weigh beam for movement therewith and located on one side of the weigh beam pivot, a conductor loop made of material having a low electrical resistance located on the opposite side of said pivot and means for producing a magnetic field, said loop being movable with the weigh beam and in said field in a direction such as to induce current flow around said loop.

2,351,534
SLASHER SQUEEZE ROLL PRESSURE REGULATOR
Austin S. Norcross, Waban, Mass.
Application August 25, 1941, Serial No. 408,185
15 Claims. (Cl. 28—28)



1. In a warp sizing machine, a size box, a lower positively driven squeeze roll rigidly rotatably mounted transversely of said size box, an upper squeeze roll above said lower squeeze roll driven by peripheral contact therewith and having a shaft end projecting from each end thereof, a bearing for each shaft end, supporting means for each bearing, draw-bar means extending longitudinally below each shaft end below each supporting means, spaced spring means interposed between a draw-bar means portion and a supporting means portion fore and aft of each shaft end, means for vertically adjustably mounting each end of each draw-bar means on said size box for adjusting the pressure exerted on the nip of said squeeze rolls by each of said spring means and for raising said upper squeeze roll from the lower squeeze roll after said draw-bar means abuts said supporting means and means to indicate relative vertical movement between the ends of said draw-bar means and supporting means to indicate the adjustable pressure applied by said spring means.

2,351,535
VARIABLE ANGLE DRIVE MECHANISM
George E. Oakley and Percy M. Griffin, Albany, N. Y., assignors to Consolidated Car-Heating Company, Inc., Albany, N. Y., a corporation of New York
Application January 19, 1943, Serial No. 472,820
7 Claims. (Cl. 74—383)



1. A variable angle drive mechanism comprising a worm, a bearing therefor, a driving gear in mesh with said worm, a bearing for said driving gear, a driven gear in mesh with said worm, a bearing for said driven gear, the axes of said driving and said driven gear being angularly disposed to the axis of said worm, and separate pivotal mountings for said gears having their axes coincident with the axis of said worm.

2,351,536
METHOD OF TREATING SURFACES
Harold Osterberg, Gilbert E. Pride, and Rudolf K. Luneburg, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application April 25, 1941, Serial No. 390,428
3 Claims. (Cl. 117—107)

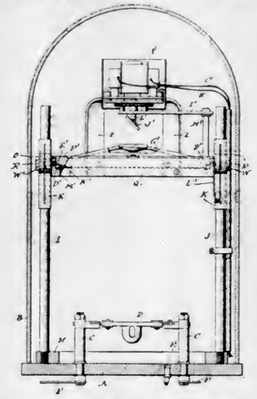


1. The method of forming a coating on a surface of an article comprising rotatably mounting said article in an evacuated chamber relative to the source of coating material and spaced therefrom, with the surface to be coated being substantially entirely exposed toward said source of coating material, causing emission of said coating material from said source, and rotating said article about an axis which is inclined with relation to a vertical line passing through the source of coating material, with said inclination being controlled according to the formula

$$J=\frac{\left(1+\frac{r^2}{d^2}\cos 2\delta\right)}{\left(1+\frac{r^2}{d^2}+2\frac{r^2}{d^4}\cos 2\delta\right)^{3/2}}$$

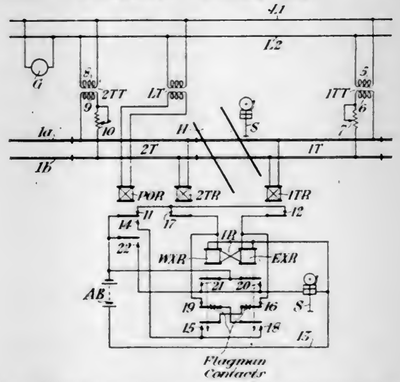
where J is the ratio of thickness of deposit at zone r, r is the distance from the center of the article to an arbitrary point thereon, d is the distance from the source to the center of the article and δ is the angle between the vertical line passing through the source and the axis of the article to give a coating of controlled thickness on said article with the angle δ being varied according to the resultant characteristics required of the surface coating and according to the shape of the surface being coated.

2,351,537
APPARATUS FOR TREATING SURFACES
Harold Osterberg, Gilbert E. Pride, and Rudolf K. Luneburg, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application March 5, 1942, Serial No. 433,422
7 Claims. (Cl. 91—12.2)



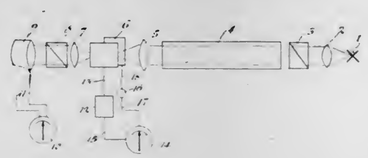
7. In an apparatus for producing a coating of controlled thickness on the surface of an article, means for supporting a coating material, means for supporting the article to be coated with at least a portion of the surface to be coated toward said means for supporting a coating material, means for rotating said article support to rotate said article, means for changing the angular relationship between said means for supporting a coating material and the article to be coated and means directly connected with said article support for rotating said article about an axis computed to produce a coating on said article of controlled thickness while causing emission of said coating material from said means for supporting a coating material.

2,351,538
APPARATUS FOR CONTROL OF HIGHWAY CROSSING SIGNALS
Easton E. Parrill, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 18, 1942, Serial No. 455,171
4 Claims. (Cl. 246—130)



1. In combination with a highway crossing signal located at an intersection of a highway and a railway track, two track sections formed in said track to extend in opposite directions from the intersection, a track circuit including a track relay and a track transformer for each of said sections, a source of alternating current connected to said track transformers to supply power to the track circuits, a power-off relay connected to said source and normally energized thereby, an interlocking relay having two magnets one associated with each track section and each magnet provided with a flagman contact, a pick-up circuit for each magnet and each pick-up circuit including a front contact of the track relay of the section associated with the respective magnet, a stick circuit for each magnet and each stick circuit including a back contact of the power-off relay and the flagman contact of the respective magnet, and circuit means controlled by said interlocking relay to operate said signal.

2,351,539
POLARIMETER APPARATUS
William F. Peck, Snyder, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application December 4, 1941, Serial No. 421,627
3 Claims. (Cl. 88—14)

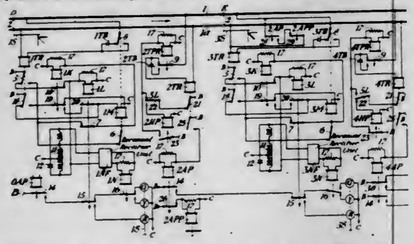


1. In a device of the character described, a light source, light polarizing means optically aligned with said light source, light analyzing means optically aligned with said light polarizing means, sample holding means between said light polarizing means and said light analyzing means, and adapted to support the specimen under test, a Kerr cell between said sample holding means and said light analyzing means and optically aligned therewith, an electrical circuit for applying current to said Kerr cell, a photocell in optical alignment with said light analyzing means and adapted to receive light passing therethrough, means for indicating the amount of light reaching said photocell and means in said circuit for varying the voltage of the current applied to said Kerr cell until the maximum amount of light reaches said photocell, and current responsive means in said circuit for measuring the current applied to the Kerr cell to indicate the rotation by the specimen in said sample holder of light passing therethrough.

2,351,540
RAILWAY TRAFFIC CONTROLLING APPARATUS
John M. Pelikan, Chicago, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 5, 1942, Serial No. 453,663
10 Claims. (Cl. 246—39)

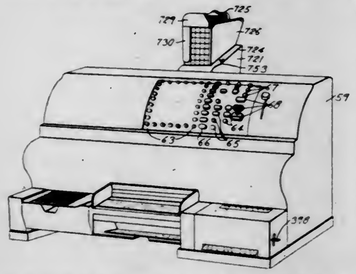
1. In combination, a section of railway track, a first track relay and a first track battery at one end of said section, a second track relay and a second track battery at the opposite end of said section, both of said track batteries and one of said track relays being normally disconnected from the rails of said section, a first means effec-

tive when active for connecting said first and second relays in circuit with the rails of said section and said first track battery, means responsive to traffic approaching said section for rendering active said first means, means responsive to energization of said first and second track relays from said first track battery for disconnecting said first and second relays from said first track battery and for connecting such relays



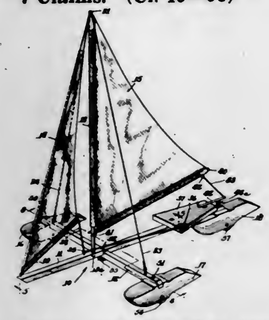
in circuit with the track rails and said second track battery, means responsive to the energization of said first and second track relays from said second track battery for reconnecting said first and second relays in circuit with the track rails and said first track battery, means responsive to traffic in said section for maintaining active said first means, and means responsive to operation of said first relay for governing traffic on said section.

2,351,541
ACCOUNTING MACHINE
Everett H. Placke, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application March 24, 1941, Serial No. 384,930
21 Claims. (Cl. 101—93)



1. In a machine capable of single and multiple cycle operations involved in a complete transaction, a plurality of banks of control keys, certain of which control the machine to make one-cycle operations and the remaining keys control the machine to make multiple-cycle operations; a plurality of differential mechanisms settable under control of the banks of the control keys; printing mechanism for printing upon record material, said printing mechanism including a plurality of impression means; a plurality of groups of selecting means for said impression means certain of said selecting means being differentially adjustable by the differential mechanisms, and automatic means for adjusting others of said selecting means, for causing successive operation of different ones of said plurality of impression means under control of certain banks of keys upon entry of certain operations forming a part of a complete transaction, or for causing repeat operations of various ones of said plurality of impression means, as determined by the operation of said differential mechanisms depending on the type of operation being entered as a part of said complete transaction; feeding means for said record material; and means including a group of selecting devices for determining operation of said feeding means, certain of said group of selecting devices being adjusted by said differential mechanisms, and others of said group of selecting devices being adjusted by the automatic means, whereby the feeding means is prevented from operation upon the above-mentioned successive operations of each of the impression means and is caused to operate between all the said repeat operations of the impression means.

2,351,542
TOY BOAT OR GLIDER
William H. Paull, Highland Park, Ill.
Application July 31, 1940, Serial No. 348,885
7 Claims. (Cl. 46—93)



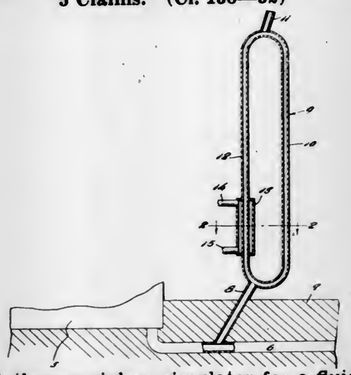
1. A toy of the class described comprising a toy body, a sail carried by the body and arranged in superposed relation with respect thereto, a series of pontoons carried by the body for supporting the same in a liquid medium, said pontoons being in individual spaced relation and lying substantially within a common plane, and individual ground engagement elements adjacent each of said pontoons and projecting below the lower surfaces thereof whereby to engage the ground when the toy is placed upon a solid medium.

2,351,543
ELECTRICAL DISCHARGE DEVICE
Hubert H. Race, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 2, 1942, Serial No. 441,501
7 Claims. (Cl. 315—326)



1. A spark plug including a shell having a grounding electrode, a discharge electrode arranged within said shell, means including an insulating element arranged about a part of said discharge electrode in said shell for supporting said electrode, a lead of conductive material electrically connected to said discharge electrode within said insulating element, a heat resistant bushing of deformable resilient insulating material arranged within said insulating element between said shell and said electrical connection of said lead to said discharge electrode, and means including a relatively non-deformable insulating element arranged about said lead in engagement with said deformable bushing deforming said bushing for substantially filling a portion of the space about said lead connection for eliminating free open gas electrical discharge paths between said lead and said shell.

2,351,544
THERMOSIPHON CIRCULATOR
Edward Lynn Revard, Ponca City, Okla.
Application July 24, 1942, Serial No. 452,232
5 Claims. (Cl. 138—32)



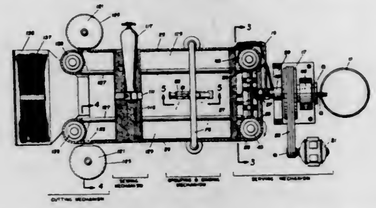
1. A thermo-siphon circulator for a fluid from a source of supply; said circulator being exposed to sub-freezing temperature and comprising a looped conduit for said fluid with a supply connection at one end from said source and an outlet from its opposite end, and heating means for the conduit adjacent the supply connection.

2,351,545
MANUFACTURE OF VARNISHES
Alfred E. Rheineck and Samuel B. Crecelius, Louisville, Ky., assignors to Devoe & Reynolds Company, Inc., a corporation of New York
No Drawing. Application March 28, 1942, Serial No. 436,626
7 Claims. (Cl. 106—218)

1. In the process of making varnishes the steps which comprise heating together for at least about two hours soaps of drying oil fatty acids having non-conjugated double bonds and an oil soluble varnish resin in proportions to give a varnish length of between 5 and 30 gallons and at a temperature of between 200° C. and 285° C., and subsequently forming a polyhydric alcohol ester of the fatty acids represented in the soap, in the presence of such resin.

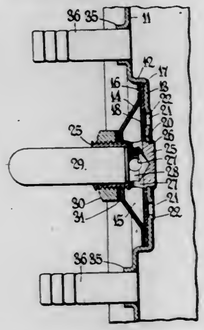
2,351,546
METHOD AND MEANS FOR THE MANUFACTURE OF FLAT MOPS
Paul M. Rogers, Orange, Calif.
Application January 20, 1942, Serial No. 427,416
5 Claims. (Cl. 300—16)

1. In mechanism of the class described, a web supporting means, means for serving yarns on said web supporting means, means for dividing the web into groups of yarns of predetermined



number and means for encircling each group of yarns with a loop of tape.

2,351,547
VALVE
Earl V. Schaal, East Aurora, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 1, 1942, Serial No. 425,317
5 Claims. (Cl. 251—127)

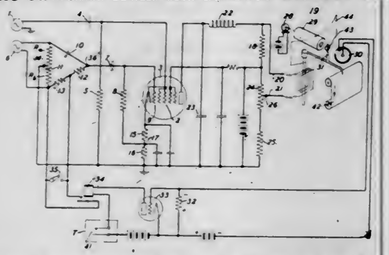


1. Check valve structure comprising a supporting wall, a cup-like depression formed therein, and a cover element fitting snugly into said depression and cooperating therewith to form a valve chamber, a disc valve within said chamber adapted to seat against the bottom wall of said cup-like depression and having a central opening therein, means rigidly attached to said bottom wall and extending through said opening for adjustable engagement with said cover element to clamp the same in assembled position, said cover element being outwardly convex whereby clamping action urges the periphery of the cover element into intimate engagement with the annular wall of said depression, said bottom wall having a fluid passage whereby movement of said valve from seated position establishes fluid communication through said wall.

2,351,548
FREQUENCY COMPARISON RECORDER
Lyle H. Schwartz, Maplewood, N. J., and Howard A. Tooker, Monroe, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 24, 1942, Serial No. 470,114
6 Claims. (Cl. 234—1.5)

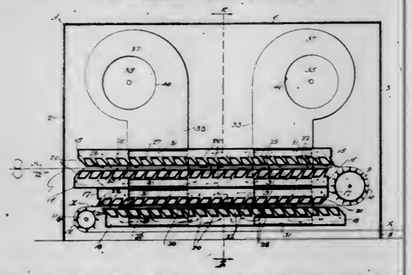
1. In a frequency comparison recorder, the combination with a source of current of standard frequency, a source of current of unknown frequency, means for generating a current of a frequency equal to the difference in the frequencies of the currents from the sources and a re-

cording meter associated with the generating means, of means for changing the relative phases of the currents from the sources without chang-



ing the frequency of either source to produce in the record made by the meter an indication of the direction of deviation of the unknown from the standard frequency.

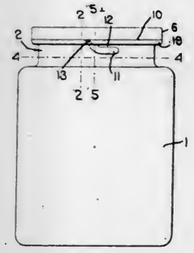
2,351,549
METHOD FOR TREATING FILAMENTS AND THREADS
Phillips K. Schwartz, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application October 16, 1941, Serial No. 415,282
1 Claim. (Cl. 34—23)



The method which consists in maintaining a plurality of filaments side by side in a common plane spaced equally from parallel perpendicularly spaced walls of a channel through which said filaments advance, advancing said filaments in one direction longitudinally of said channel, directing incoming continuous sheet-like streams of drying medium through said walls at converging angles to said plane across the full width of the channel at spaced intervals along said channel, with the streams from the opposite walls of the channel commingling into a common current moving through the channel in the direction of advance of the filaments, staggering the incoming streams from the opposite walls longitudinally of the channel, and withdrawing corresponding outgoing sheet-like streams of said medium from said common current parallel to each of the incoming streams immediately in advance thereof, whereby the incoming stream in each instance travels as a part of said current from its place of introduction to the place of withdrawal adjacent the next incoming stream.

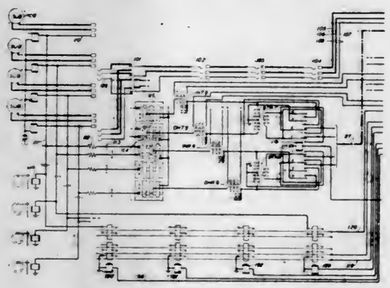
2,351,550
CONTAINER
Harry Sebell, Marblehead, Mass., assignor of one-half to Arthur H. Parker, Lexington, Mass.
Application September 10, 1942, Serial No. 457,810
1 Claim. (Cl. 215—46)

A container comprising a body portion having an open upper end and formed with a relatively short neck of reduced diameter at said upper end, said neck being provided at its upper end with an exterior bead having a cylindrical exterior surface, the under side of which constitutes a downwardly facing shoulder, and an end closure of sheet metal closing said open end of the container and provided with a cylindrical skirt portion which fits and encircles the cylindrical face of said exterior bead, the lower edge of the skirt portion being crimped inwardly beneath said shoulder, said skirt portion having a tab integral therewith, the length dimension of which from the tab tip to the base thereof where it joins said skirt portion extending substantially parallel to the edge of the skirt portion, said tab being situated below and spaced from



said edge for its entire length, the radial dimension of said shoulder being considerably greater than the thickness of the tab, the width of the tab being less than the vertical dimension of said neck, whereby the tab is protected from above by said shoulder and from below by the body portion of the container where it joins the neck, said skirt portion also having an encircling scoreline extending completely thereabout at a point slightly above said shoulder and further having a branch scoreline extending from the encircling scoreline to the edge of the inwardly crimped portion of the skirt at the point where said edge meets the upper edge of the tab, the portion of the skirt below the encircling scoreline constituting a tear strip which can be torn from the end closure to open the container.

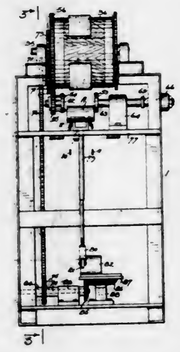
2,351,551
TELEPHONE SYSTEM
Charles F. Seibel, Glen Rock, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 29, 1943, Serial No. 489,013
4 Claims. (Cl. 179—7.1)



1. In a multioffice exchange system divided into a plurality of zones, a plurality of calling lines having message registers, a plurality of called

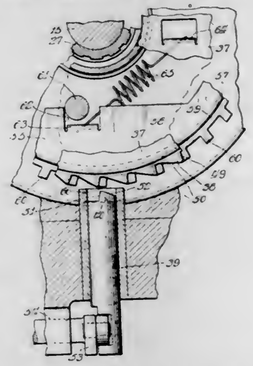
lines terminating in offices located in different zones of the system, means including a trunk for establishing a connection from any calling line to any one of said called lines, a timing switch associated with said trunk for measuring the initial and overtime periods of conversation, means operable in accordance with the office code digits of the called line number dialed by the calling subscriber for determining the zone in which the called line terminates, a calling line identifier, means controlled by said timing switch during the initial and each overtime period of conversation for causing said identifier to identify said calling line, means responsive to each line identification for establishing an operating circuit for the message register of the calling line over the line identification path through the identifier, and means operable under the control of said zone determining means and said timing switch to operate the selected message register.

2,351,552
ROTARY PRINTING MACHINE
Frederick Shurley, Windsor, Ontario, Canada
Application May 25, 1942, Serial No. 444,394
4 Claims. (Cl. 101—38)



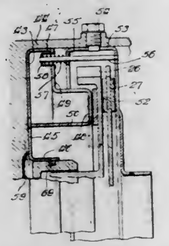
4. In a rotary printing machine, an intermittently moved conveyor having transversely opposed carriers to support work pieces, a printing cylinder rotatably mounted over the conveyor mechanism and moved in timed relation to the movement of the conveyor mechanism, means operated in timed relation to the movement of the conveyor mechanism for lifting the work pieces from the carriers, chuck plates rotatably mounted above and at opposite sides of said conveyor mechanism for gripping opposite ends of a work piece lifted from the conveyor and supporting the work pieces between the chuck plates, a cylinder having a piston therein to which one chuck plate is connected for movement with the piston toward and away from the other chuck plate, means actuated in timed relation to the movement of the conveyor for reciprocating said piston and moving the chuck plate carried thereby into and out of position to effect the gripping of a work piece between the chuck plates, and continuously meshing gears carried by the cylinder and by the chuck plate connected to the piston for rotating the said chuck plate in timed relation to the rotation of the printing cylinder and causing a work piece carried between the chuck plates to rotate at the same surface speed as the printing cylinder.

2,351,553
BLOCKER
John M. Simpson, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application January 9, 1942, Serial No. 426,125
15 Claims. (Cl. 188—81)



1. In combination, a rotatable element having teeth formed thereon, said teeth being provided with a load holding face on one side, a pawl having a load holding face adapted to engage a load holding face of a tooth, means for making an engagement of the pawl with a tooth while said element is rotating in a single direction to stop the element, and means for preventing a partial such engagement of the pawl with a tooth to prevent injury to the ends of the teeth or pawl.

2,351,554
PISTON
John M. Simpson, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application January 9, 1942, Serial No. 426,126
15 Claims. (Cl. 188—72)



1. A light-weight piston for operating a coupling device in a power transmitting mechanism, said piston comprising a sheet metal annulus having axially disposed flanges and a sheet metal working annulus having an axially disposed flange which contacts the region between flanges of the first-mentioned annulus, the second annulus contacting the end of one of the flanges of the first-mentioned annulus, whereby axial rigidity of the piston is secured.

2. A brake for a transmission having a member which is to be held against rotation, said brake comprising a friction element on the member, a sheet metal reaction plate, means for anchoring the reaction plate against rotation, a fixed casing having an annulus cylinder formed therein, a piston in said cylinder, the piston com-

prising a sheet metal annulus having axially extending flanges, a second annulus opposite the friction element and having an axially extending flange for supporting the mid-section of the first annulus, said second annulus overlying one of the flanges of the first annulus and receiving support therefrom, and means for holding the second annulus against rotation, said second annulus being adapted to urge the friction element toward the reaction plate to hold the element against rotation, said reaction plate having axially spaced flanges, said means for holding the second annulus comprising a pin passing through the flanges and through the second annulus.

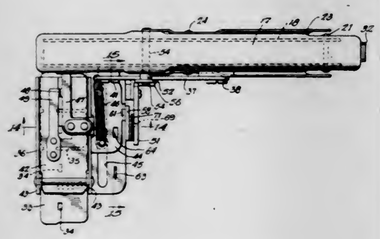
2,351,555
MANUFACTURE OF GAS-EXPANDED RUBBER PRODUCTS
Wendell V. Smith, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 19, 1940, Serial No. 357,408
4 Claims. (Cl. 260—724)

1. The process of producing gas-expanded rubber which comprises gas inflating the rubber by means of thermal decomposition products of zinc diammonia nitrite liberated within the rubber by heating the rubber composition containing the said zinc diammonia nitrite.

2,351,556
MANUFACTURE OF SPONGE RUBBER
Edward C. Svendsen and William J. Clayton, Mishawaka, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 24, 1941, Serial No. 412,128
8 Claims. (Cl. 260—723)

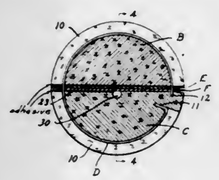
1. The method of maintaining the density until gelling takes place of a latex foam sensitized with small amounts of zinc oxide, an ammonium salt of a strong acid and a slightly soluble salt of fluosilicic acid from the group consisting of sodium, potassium and barium fluosilicates which comprises incorporating in the latex foam small amounts of a zinc soap and an alkali hexametaphosphate.

2,351,557
TAG FASTENING DEVICE
Donald M. Swett, Chicago, and Sidney E. Van Tuyl, Riverside, Ill., assignors to American Tag Company, Chicago, Ill., a corporation of Illinois
Application January 30, 1942, Serial No. 428,826
13 Claims. (Cl. 93—88)



1. A tag fastening device comprising a plurality of elongated members pivotally connected together, means for feeding a series of preformed staples lengthwise in one of the members, means carried by another of the members to feed a strip of tags in a direction transverse to the length thereof, means on said one of the members to receive and hold the end tag on the strip below the end one of the series of staples, cooperating means on said two members to sever the end tag from the strip, and means on a third of the members to force the end staple through the severed tag and into a body of material underlying it.

2,351,558
FISHING CORK
Louis Sykora, Currie, Minn.
Application June 15, 1942, Serial No. 447,101
11 Claims. (Cl. 43—49)



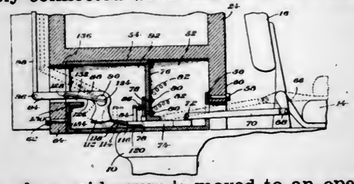
1. In a fishing float the combination of a substantially spherical-shaped buoyant body having a transversely disposed line receiving passageway therethru of a width to permit free sliding of the line therethrough, said spherical-shaped buoyant body having a way from the exterior thereof tangentially intersecting the said passageway to permit the selective disposition of a fishing line in the way or in the passageway, and friction providing means in said way for clamping upon said line to anchor the float upon the line at a predetermined location except when the line is in said passageway.

2,351,559
PROCESS FOR THE PREPARATION OF DETERGENT MIXTURES
Andrew Treffler, Paterson, N. J., assignor to Solvay Sales Corporation, New York, N. Y., a corporation of New York
No Drawing. Application January 13, 1941, Serial No. 374,302
4 Claims. (Cl. 252—135)

1. The process for the production of a detergent mixture which comprises incorporating with a mass of finely divided solid particles comprising sodium carbonate an amount of water sufficient only to form a moist, non-pasty mass with the water disseminated therein and thereafter mixing with said moist, non-pasty mass a finely divided anhydrous phosphate from the group consisting of tetrasodium pyrophosphate and sodium tetra phosphate in an amount such that the phosphate and the moist mass form a detergent mixture which sets to a friable materoal which is readily broken up into fine particles that are free-flowing and readily soluble in water.

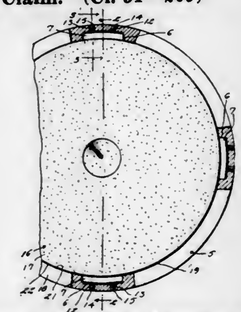
2,351,560
VENTILATED CLOSET BOWL
Alfred W. Thompson and James B. Armstrong, Ekalaka, Mont.
Application August 5, 1943, Serial No. 497,492
3 Claims. (Cl. 4—213)

1. In a closet bowl having a cover and a water tank and a valve for placing the water tank in communication with the bowl, a motor driven fan, an air inlet communicating with the bowl and the fan, an air exhaust conduit communicating with said fan, a switch for opening and closing the circuit of the motor, a slide member operatively connected with said cover to close said



switch when said cover is moved to an open position and to open the switch when the cover is moved to a closed position, and a valve actuating means operatively connected with said slide member for opening the valve when said cover is moved to a closed position.

2,351,561
ABRADING WHEEL
Loren E. Thompson, Parkersburg, W. Va.
Application October 14, 1942, Serial No. 462,009
1 Claim. (Cl. 51—209)

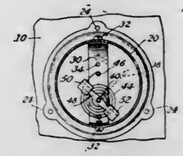


In combination, a holder formed of a disc-shaped body, an annular flange carried by said body, a disc-shaped abrader seated in said flange and having a portion thereof projecting from said flange, a fibrous liner fixed to the periphery of said abrader, said flange having a plurality of inwardly opening circumferentially spaced apart recesses therein, segmental clamping members slidably mounted in said recesses, and set screws threaded through said flange from the outer side thereof engaging against said clamping members for holding the latter tight against said liner, said set screws at their outer ends terminating substantially flush with the outer surface of said flange.

2,351,562
CATALYSIS
Preston L. Veltman, Fishkill, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application May 2, 1941, Serial No. 391,482
9 Claims. (Cl. 260—683.5)

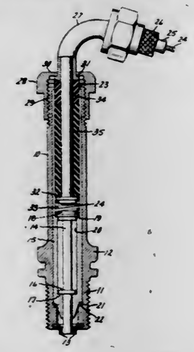
1. A method of isomerizing straight chain paraffin hydrocarbons which comprises subjecting said hydrocarbons to contact with an active catalyst comprising a metallic mixed halide containing at least two different halogen atoms in the same molecule, said halide being substantially free from boron and boron halides, and effecting said contact under isomerizing conditions in the presence of hydrogen halide such that substantial conversion to branched chain hydrocarbons is secured.

2,351,563
AIRCRAFT LOCATION INSTRUMENT
John H. Walker and James M. Walker, Ste. Genevieve, Mo.
Application October 13, 1941, Serial No. 414,900
1 Claim. (Cl. 175—183)



In an instrument of the character described, a support panel having an opening therein, a cylindrical housing having the rear end closed and the front end open, an annular outwardly directed flange at the front end of the housing disposed against the panel, the opening in the panel registering with the interior of the housing, means for detachably securing the housing flange to the panel, a transparent dial disk having a graduated scale thereon mounted between the panel and housing flange to cover the front of the housing, a rigid diametrically extending strap secured vertically within the forward part of the housing, an upstanding support element disposed rearwardly of the strap, a horizontally disposed shaft having its forward portion journaled in an opening in the strap and its rear end pivotally supported in an adjustable screw mounted on said support element, a pointer fixed to the front end of the shaft for movement in co-acting relation with the dial scale, a transversely extending arm having its medial portion secured to the shaft, a magnet fixed on one end of the arm, a counterbalancing weight fixed on the opposite end of the arm, and a helical spring mounted transversely about the shaft having one end attached to the strap and the other end fastened to the shaft and tending to yieldingly hold the pointer in a predetermined position with relation to the scale.

2,351,564
ELECTRICAL DISCHARGE DEVICE
Alexander C. Wall, Indianapolis, Ind., assignor to General Electric Company, a corporation of New York
Application May 2, 1942, Serial No. 441,419
5 Claims. (Cl. 315—326)



1. A spark plug including a shell having a grounding electrode, a discharge electrode arranged within said shell, an insulating element

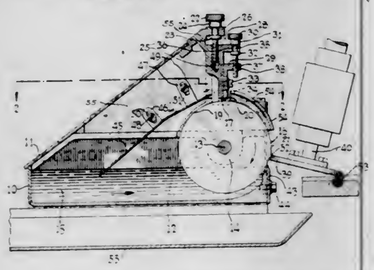
arranged between a part of said discharge electrode and said shell, a distribution lead of conductive material electrically connected to said discharge electrode within said shell, and means including a heat resistant bushing of deformable insulating material arranged between said shell and said electrical connection of said lead to said discharge electrode arranged in deformed position for substantially filling a portion of the space between said lead connection and said insulating element and for eliminating free open gas electrical discharge paths between said connection and said shell.

2,351,565

CIGARETTE MACHINE PASTER

James W. Warren, Lynbrook, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey

Application August 3, 1940, Serial No. 350,189
2 Claims. (Cl. 91—51)



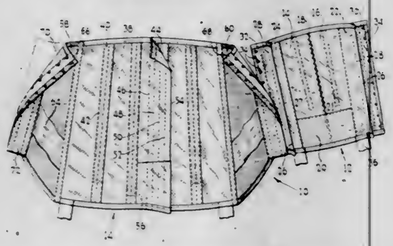
1. A paster for a cigarette machine and the like comprising a reservoir adapted to contain a supply of paste, a rotary paste transfer wheel partially submerged in the paste in said reservoir, a vertical member arranged above said wheel to engage the top of the periphery of said wheel, said member being provided with a slot through which paste may be carried on the periphery of said wheel, and means for returning the excess paste from the portion of said wheel adjacent said member to said reservoir.

2,351,566

MATERNITY FOUNDATION GARMENT

Samuel L. Welsch, South Orange, N. J., assignor to Lewel Manufacturing Co. Inc., Newark, N. J., a corporation of New Jersey

Application December 4, 1942, Serial No. 467,833
4 Claims. (Cl. 2—43)



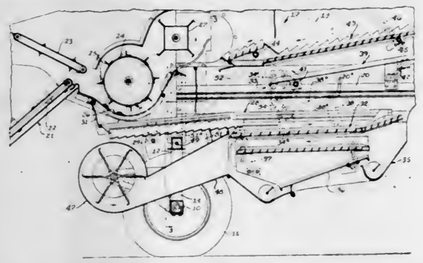
1. A maternity foundation garment which opens vertically and comprises a row of linearly arranged, uniformly vertically spaced halves of a detachable attaching means along one edge of the opening, a pair of laterally spaced, linearly arranged, similarly vertically spaced, parallel-rows of other halves of said detachable attaching means along the other edge of the opening, a resilient panel adjacent one of the edges of said opening, and a flattened tube of knitted fabric anchored at its opposite ends adjacent opposite lateral edges of said resilient panel, said tube being longer when said tube and panel are unstressed than the distance between the anchoring points whereby when the garment is off a wearer slack is present along the length of said tube.

2,351,567

THRESHER

Albert B. Welty, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application November 16, 1940, Serial No. 365,952
7 Claims. (Cl. 130—24)



1. In a harvester thresher, a thresher separator housing, a straw rack, a return grain pan, a grain pan, and a shoe sieve positioned one above the other within said housing, a rocker arm pivotally mounted at each side of the separator housing, means pivotally connecting one end of the straw rack, return grain pan, and grain pan to the rocker arms, link means supporting the other end of the straw rack, return grain pan, and grain pan from the separator housing, shoe hangers pivotally connected to each side of the separator housing, means pivotally connecting the shoe sieve to the shoe hangers, and link means connecting the rocker arms and the shoe hangers.

2,351,568

ELECTROFORMING METHOD OF PRODUCING DISPENSING TOOLS

Estel O. Wheaton, Toledo, Ohio, assignor to Kelly-Wheaton Company, Toledo, Ohio, a corporation of Ohio

Application August 29, 1941, Serial No. 408,892
3 Claims. (Cl. 204—9)



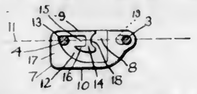
1. The method of producing a dispensing tool having a hollow handle and a bowl portion, said method comprising the steps of providing an electric conductor which in cross section has an endless curved surface pattern of decreasing diameter from a hand-width length in hand grasped dimension and a bowl rim section open laterally from the line of the handle axis which is extended by enlarging the pattern from the decreased diameter portion to merge into the rim for such bowl-end-of-the-handle to be closed by the bowl in completing peripheral surface continuity, the pattern being an electroplating-receiving terminal continuous surface from the handle portion to and including the rim portion, submerging such pattern in an electrolytic bath provided with a suitable anode, and electroplating thereon a handle and a rim portion integral with each other and of such thickness as to be self-sustaining, separating the electroform from the pattern, and finishing the rim as bounds for a bowl.

2,351,569

FASTENING DEVICE FOR SAFETY PINS AND OTHER PINS

Donald H. White, Wellesley Hills, Mass.

Application November 2, 1943, Serial No. 508,664
3 Claims. (Cl. 24—156)



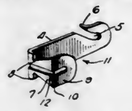
1. A safety pin having a back leg and a front leg connected at one end by a spring coil that is integral with both legs, the free end of the front end being pointed, a point-shielding head rigid with the free end of the back leg, said spring coil normally maintaining the two legs in a plane situated between the opposite side faces of the head, said head having an entering slot extending transversely thereof from one side face toward the opposite side face and across and beyond the said plane of the two legs, and also having a passage leading laterally from the inner end of said slot in a direction away from the back leg and terminating in a seat located in said plane and adapted to receive the pointed end of the front leg when the pin is closed, said pointed end being yieldingly held against said seat by the spring coil, the portion of the head which separates the slot from the passage being formed with a recess situated in said plane and communicating with said seat.

2,351,570

WINDOW SCREEN CLIP

George Thurman Williams and Walter Franklin Story, Jr., Suffolk, Va., assignors to National Screen Company, Incorporated, Suffolk, Va., a corporation of Virginia

Application January 26, 1944, Serial No. 519,824
2 Claims. (Cl. 160—228)



1. Slide device for window screen structure and the like, having grooved frame members, comprising a U-shaped clip having one leg provided with a laterally deflected prong, the base portion connecting the legs shaped to comate with the groove in the grooved frame members and the other leg formed as a slide runner.

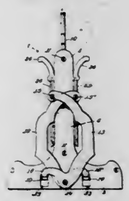
2,351,571

FILE RACK

Leslie H. Burlin, Valparaiso, Ind., assignor to Milton L. Sturm, Evanston, Ill., doing business as Milton Sturm & Company, Chicago, Ill.

Application July 24, 1942, Serial No. 452,219
6 Claims. (Cl. 45—64)

3. A rack for magazines or the like, comprising a base, a central longitudinal vertical partition extending above the base, means connecting the partition with the base, similar longitudinally extending plates on opposite sides of the partition, linkages supporting the respective plates, each linkage including links pivoted at the opposite ends of the rack and swingable towards and away from the partition, the plates being



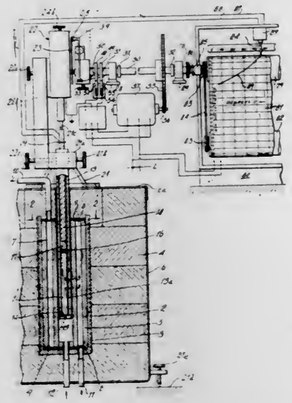
pivoted to the respective linkages, a pair of wood spring strips secured intermediate their ends to the rack below the base and extending longitudinally of the rack to the opposite ends of the rack and each bearing against links at the two ends of the frame and biasing the links to press the plates towards the partition.

2,351,572

DIRECT-READING RECORDING DILATOMETER

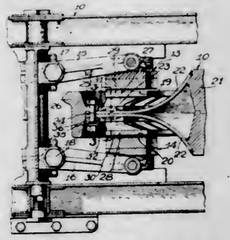
Walter E. Kingston, Emporium, Pa., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts

Application April 18, 1942, Serial No. 439,463
13 Claims. (Cl. 73—51)



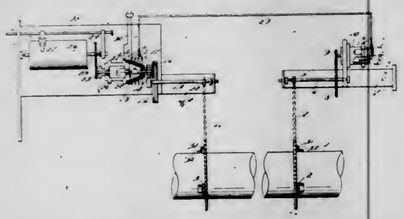
1. A direct-reading temperature-expansion recording system comprising a rotatable expansion indicator pointer carrying an electrical contact member rotatable in one direction under control of the expansion of a specimen and in another direction under control of the contraction of the specimen, a pair of rotatable follow-up contacts associated with said member, an automatic temperature-elongation recorder having a chart longitudinally movable in proportion to the degree of movement of said member and in a direction controlled by said follow-up contacts, and a single motor for moving said follow-up contacts and also for moving said chart to produce on said chart a single graph having temperature and elongation coordinates.

2,351,573
BRAKE MECHANISM
Joseph Ledwinka, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application November 14, 1941, Serial No. 419,116. Divided and this application January 20, 1942, Serial No. 427,408
7 Claims. (Cl. 188—218)



1. In a brake mechanism, a wheel to be braked having a body and a rim seated on the periphery of said body and having an inwardly extending recessed flange overlapping said body, means for securing said body and flange together, a brake ring floatingly secured in the recess of said flange and a driving connection between said ring and wheel.

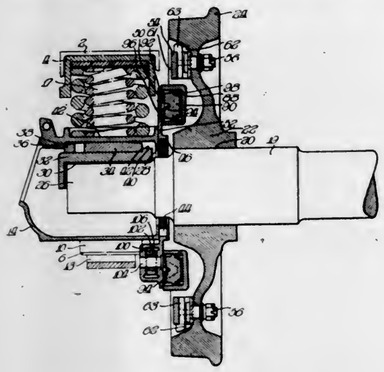
2,351,574
RECORDER FOR TESTING MACHINES
Jens Sivertsen, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 9, 1943, Serial No. 475,307
8 Claims. (Cl. 265—2)



1. In a recorder, a recording drum, and a self-synchronous system controlled by the difference in distortion between two planes of a specimen and controlling said recording drum, said system having two self-synchronous motors, one of which acts as a receiver and drives the recording drum, and the other of which acts as a transmitter to control the rotor of the receiver one of said motors having its stator and rotor free to revolve, and the other of said motors having its stator stationary and its rotor free to revolve and means to mechanically connect a stator and a rotor to two different planes of a specimen to cause them to revolve proportionally to distortion in said planes.

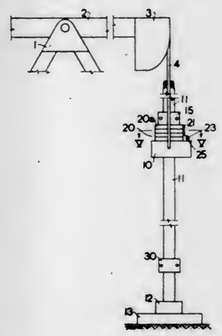
2,351,575
ROTOR BRAKE
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application February 12, 1942, Serial No. 430,529
22 Claims. (Cl. 188—153)

1. In a brake arrangement for a railway car truck, a frame, a supporting wheel and axle assembly comprising an axle having a journal end, a wheel on said axle, a journal box associated with said end, and braking means for said wheel comprising a rotor secured thereto, a backing plate secured to the inboard edge of the box, a cylinder slidably supported solely by means of lugs thereon in tongue and groove engagement with said plate, spaced friction shoes on said



cylinder adapted for engagement with said rotor, a piston in said cylinder abutting said plate, said cylinder being operable to move said shoes into engagement with said rotor, said lugs constituting torque transmitting means between said plate and said cylinder, and a torque arm pivotally connected at opposite ends thereof to said plate and to said frame.

2,351,576
POLISHED ROD PUMPER JACK
Thelma T. Thigpen, near Sandoval, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 28, 1943, Serial No. 474,059
17 Claims. (Cl. 103—205)



1. An apparatus for placing a well pumping system in position for jarring the valves in the pump at the lower portion of the well without stopping the pump-actuating reciprocating means, said well pumping system comprising a deep well pump actuated by a sucker rod string extending above the wellhead, a vertically reciprocating crosshead member slidably surrounding the upper end of said string, and an upper stop member securely attached to said upper end above said crosshead member, said string being supported and reciprocated in the well by the abutting engagement between the upper face of said crosshead member and the lower face of said stop member, said apparatus comprising a lower stop member permanently attached to the sucker rod string below said upper stop member and said crosshead, the position of said lower stop member being adjusted for relatively close vertical clearance with the wellhead when the rod string is at the end of its downward stroke, first spacer means removably insertable between the crosshead member and the upper stop member, said spacer means being normally carried therebetween during pumping, and second spacer means adapted to be inserted between the wellhead and the lower stop member during a downward stroke to stop the downward motion of the sucker rod string before the end of said stroke, whereby the crosshead member is caused to continue its downward motion by sliding along the string away from the upper stop member, and said upper spacing member is freed for removal from engagement between the crosshead and the upper stop member.

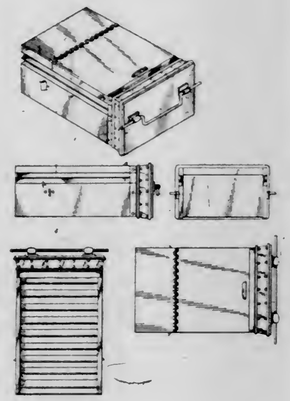
2,351,577
ISOMERIZATION OF HYDROCARBONS
Samuel Benson Thomas, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 8, 1941, Serial No. 422,101
10 Claims. (Cl. 260—683.5)

1. A process for the conversion of normal butane to isobutane which comprises contacting normal butane at a temperature not greater than about 200° C. with a solid catalyst essentially comprising adsorptive alumina impregnated with aluminum chloride substantially free from aluminum chloride hydrates obtained by heating a partially dehydrated adsorptive alumina at a temperature above about 140° C. in a closed vessel with sufficient aluminum chloride to react with at least a substantial part of the bound water in the alumina but insufficient to saturate the alumina, removing hydrogen chloride formed by the reaction at a temperature above 140° C., and impregnating the product so formed with a second portion of aluminum chloride in an amount sufficient to substantially saturate said alumina.

DESIGNS

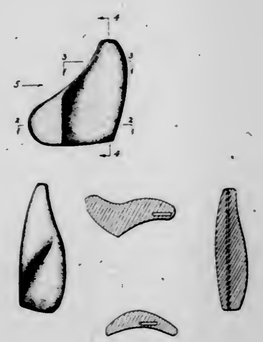
JUNE 13, 1944

138,060
DESIGN FOR A DRAWER FOR A REFRIGERATED LOCKER SYSTEM
William McKinley Baird, Chicago, Ill.
Application March 27, 1944, Serial No. 113,045
Term of patent 14 years
(Cl. D67—3)



The ornamental design for a drawer for a refrigerated locker system, substantially as shown.

138,061
DESIGN FOR A MILKING DEVICE
Louis J. Belanger, Graniteville, Vt.
Application January 18, 1944, Serial No. 112,255
Term of patent 14 years
(Cl. D23—1)



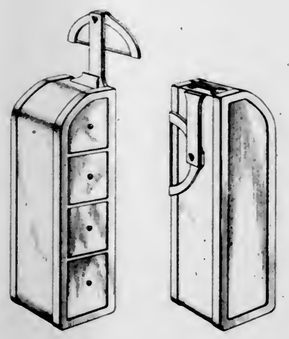
The ornamental design for a milking device, as shown.

138,062
DESIGN FOR A HEAT DISPERSING DEVICE TO AID IN COOKING
John A. Breen, Pasadena, Calif.
Application November 22, 1943, Serial No. 111,756
Term of patent 7 years
(Cl. D81—26)



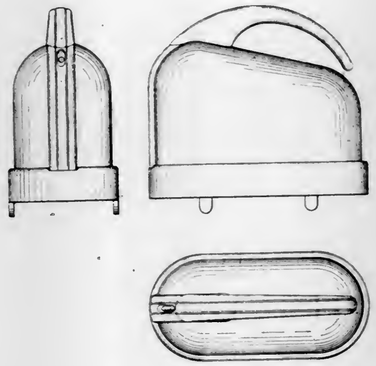
The ornamental design for a heat dispersing device to aid in cooking, as shown and described.

138,063
DESIGN FOR A COMBINED VALET CABINET AND COAT HANGER
Edward E. Burr, Chicago, Ill.
Application March 16, 1944, Serial No. 112,917
Term of patent 3½ years
(Cl. D33—19)



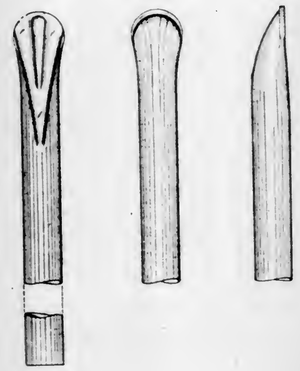
The ornamental design for a combined valet cabinet and coat hanger, as shown and described.

138,064
DESIGN FOR AN INSECTICIDE DISPENSER
Llewellynn J. Clark, Grand Rapids, Mich., assignor to The Tanglefoot Company, Grand Rapids, Mich., a corporation of Michigan
Application March 13, 1944, Serial No. 112,881
Term of patent 14 years
(Cl. D31—3)



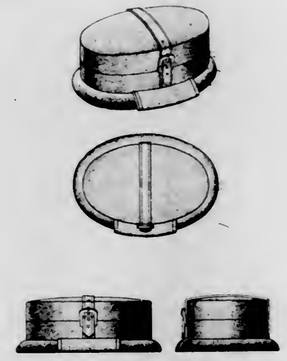
The ornamental design for an insecticide dispenser, as shown.

138,065
DESIGN FOR A TUBULAR MEMBER FOR METAL FURNITURE, STANCHIONS, GUARDRAILS OR THE LIKE
Albert L. Heck, Normandy, Mo., assignor to American Fixture & Manufacturing Co., St. Louis, Mo., a corporation of Missouri
Application February 5, 1944, Serial No. 112,460
Term of patent 14 years
(Cl. D54—7)



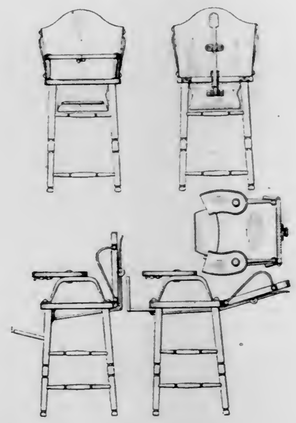
The ornamental design for a tubular member for metal furniture, stanchions, guardrails, or the like, substantially as shown.

138,066
DESIGN FOR A RING BOX OR THE LIKE
William Ludel, Brooklyn, N. Y., and Edward Goldstein, Brookline, Mass., assignors to Louis A. Roselaar, New York, N. Y., a partnership composed of William Ludel, Jacob Ludel, and Louis A. Roselaar
Application March 11, 1944, Serial No. 112,870
Term of patent 14 years
(Cl. D80—5)



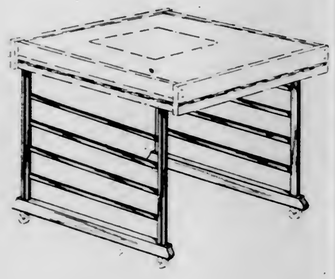
The ornamental design for a ring box or the like, as shown.

138,067
DESIGN FOR A COMBINATION BABY'S HIGH AND SLEEPING CHAIR
Emanuel R. Morando, New York, N. Y.
Application March 30, 1944, Serial No. 113,085
Term of patent 7 years
(Cl. D15—8)



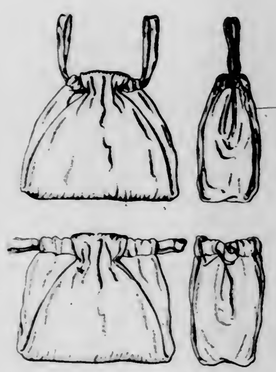
The ornamental design for a combination baby's high and sleeping chair, as shown and described.

138,068
DESIGN FOR A CHILD'S FEEDING AND PLAY TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois
Application February 7, 1944, Serial No. 112,502
Term of patent 14 years
(Cl. D33—14)



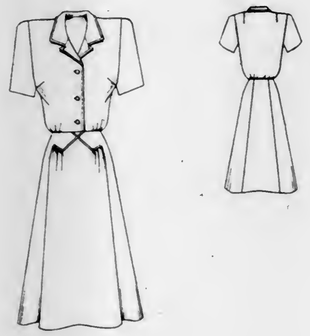
The ornamental design for a child's feeding and play table, as shown and described.

138,069
DESIGN FOR A HANDBAG
Nathan Sloane and Max Sloane, Brooklyn, N. Y.
Application December 9, 1943, Serial No. 111,973
Term of patent 7 years
(Cl. D87—3)



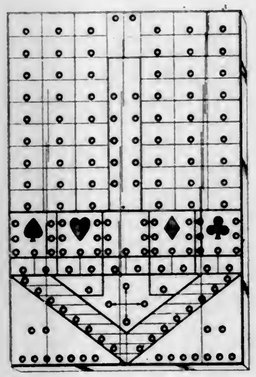
The ornamental design for a handbag, substantially as shown and described.

138,070
DESIGN FOR A DRESS
Paul Adler, New York, N. Y.
Application March 30, 1944, Serial No. 113,076
Term of patent 3½ years
(Cl. D3—26)



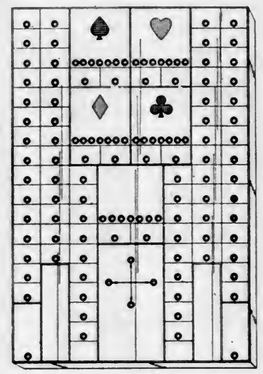
The ornamental design for a dress, substantially as shown.

138,071
DESIGN FOR A BRIDGE SCORER
Robert H. Benson, Minneapolis, and Dean Root, St. Paul, Minn.
Application October 13, 1943, Serial No. 111,344
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a bridge scorer, as shown.

138,072
DESIGN FOR A BRIDGE SCORER
Robert H. Benson, Minneapolis, Minn., and Dean Root, St. Paul, Minn.
Application October 13, 1943, Serial No. 111,345
Term of patent 3½ years
(Cl. D34—5)



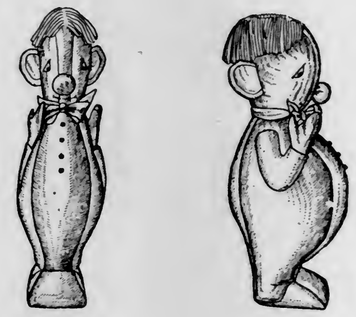
The ornamental design for a bridge scorer, as shown.

138,073
DESIGN FOR A DOLL
James E. Bryan, Cleveland, Ohio, assignor to The Cleveland Shopping News Company, Cleveland, Ohio, a corporation of Ohio
Application January 7, 1944, Serial No. 112,191
Term of patent 14 years
(Cl. D34—4)



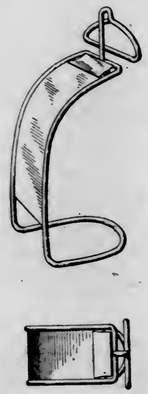
The ornamental design for a doll, substantially as shown.

138,074
DESIGN FOR A DOLL
James E. Bryan, Cleveland, Ohio, assignor to The Cleveland Shopping News Company, Cleveland Ohio, a corporation of Ohio
Application January 7, 1944, Serial No. 112,192
Term of patent 14 years
(Cl. D34—4)



The ornamental design for a doll, substantially as shown.

138,075
DESIGN FOR A GARMENT HANGER
Edward E. Burr, Chicago, Ill.
Application March 16, 1944, Serial No. 112,916
Term of patent 3½ years
(Cl. D33—8)



The ornamental design for a garment hanger, as shown.

138,076
DESIGN FOR A HOSIERY JAR OR SIMILAR ARTICLE
Edwin C. Carman, New Orleans, La.
Application April 13, 1944, Serial No. 113,236
Term of patent 14 years
(Cl. D58—25)



The ornamental design for a hosiery jar or similar article, as shown.

138,077
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
William Drell, New York, N. Y.
Application May 10, 1944, Serial No. 113,533
Term of Patent 3½ years
(Cl. D17—2)



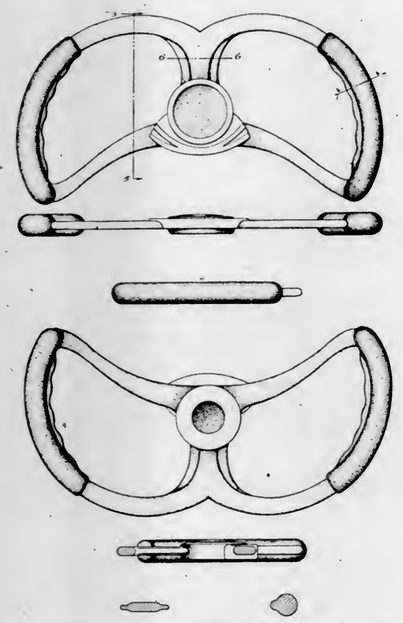
The ornamental design for a button or similar article, substantially as shown.

138,078
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
William Drell, New York, N. Y.
Application May 10, 1944, Serial No. 113,534
Term of Patent 3½ years
(Cl. D17—2)



The ornamental design for a button or similar article, substantially as shown.

138,079
DESIGN FOR AN AIRCRAFT CONTROL WHEEL
John K. Drew, Attica, N. Y., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York
Application April 12, 1944, Serial No. 113,231
Term of patent 14 years
(Cl. D71—1)



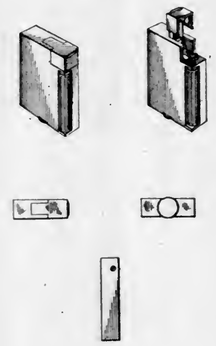
The ornamental design for an aircraft control wheel, as shown.

138,080
DESIGN FOR A CONTAINER CAP
Philip A. Derham, Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application March 20, 1944, Serial No. 112,968
Term of patent 14 years
(Cl. D58—26)



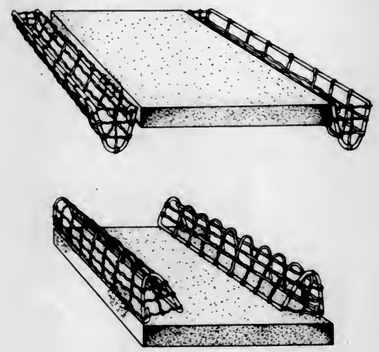
The ornamental design for a container cap, substantially as shown.

138,081
DESIGN FOR A CIGARETTE LIGHTER OR THE LIKE
Irving Florman, New York, N. Y.
Application June 7, 1943, Serial No. 110,389
Term of patent 14 years
(Cl. D48—27)



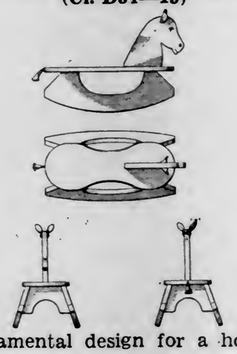
The ornamental design for a cigarette lighter or the like, substantially as shown.

138,082
DESIGN FOR A LIFE RAFT
Walter E. B. Harkins, Brooklyn, N. Y.
Application March 9, 1944, Serial No. 112,832
Term of patent 14 years
(Cl. D71—1)



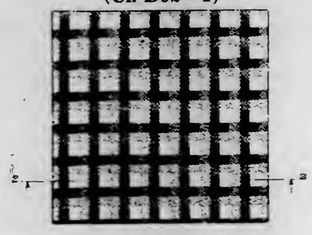
The ornamental design for a life raft, substantially as shown and described.

138,083
DESIGN FOR A HOBBYHORSE
Everett Hellwegen, Long Beach, Calif.
Application March 27, 1944, Serial No. 113,049
Term of patent 14 years
(Cl. D34—15)



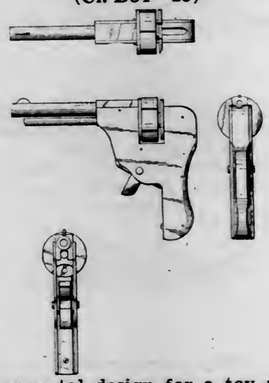
The ornamental design for a hobbyhorse, as shown.

138,084
DESIGN FOR A TEXTILE FABRIC
Adolph M. Kemper, Larchmont, N. Y.
Application March 16, 1944, Serial No. 112,924
Term of patent 7 years
(Cl. D92—1)



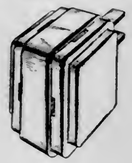
The ornamental design for a textile fabric, substantially as shown and described.

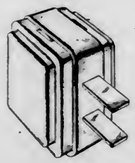
138,085
DESIGN FOR A TOY PISTOL
David Krechman, Chicago, Ill.
Application March 1, 1944, Serial No. 112,757
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a toy pistol, substantially as shown and described.

138,086
DESIGN FOR AN ELECTRIC PLUG TAP
Louis Ludwig, New York, N. Y.
Application March 14, 1944, Serial No. 112,899
Term of patent 14 years
(Cl. D26—1)





The ornamental design for an electric plug tap, as shown.

138,087
DESIGN FOR A FIGURE TOY
Jacob H. Miller, Cresson, Pa.
Application April 5, 1944, Serial No. 113,154
Term of patent 14 years
(Cl. D34—15)

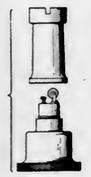
The ornamental design for a figure toy, as shown.

138,088
DESIGN FOR AN ARTIFICIAL FISH BAIT
Ray R. Moblo and Myrtle Moblo, Bellingham, Wash.
Application November 30, 1943, Serial No. 111,830
Term of patent 14 years
(Cl. D31—4)



The ornamental design for an artificial fish bait, as shown.

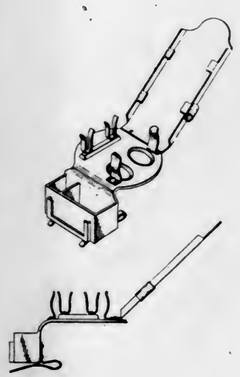
138,089
DESIGN FOR A CIGARETTE LIGHTER
Harry Negbaur, New York, N. Y.
Application March 29, 1944, Serial No. 113,066
Term of patent 14 years
(Cl. D48—27)





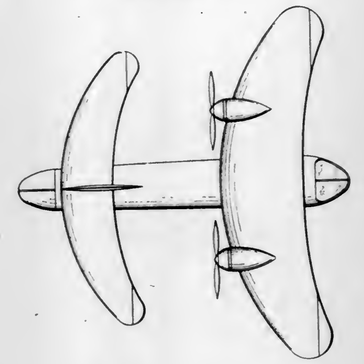
The ornamental design for a cigarette lighter, as shown and described.

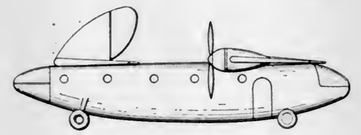
138,090
DESIGN FOR A COMBINED HOLDER FOR SMOKERS' ARTICLES AND MEMORANDUM ACCESSORIES
James Edward Newton, Little Compton, R. I.
Application October 15, 1943, Serial No. 111,371
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a combined holder for smokers' articles and memorandum accessories as shown.

138,091
DESIGN FOR AN AIRPLANE
Erwin M. Rodewald, Roselle, Ill.
Application May 3, 1943, Serial No. 110,100
Term of patent 14 years
(Cl. D71—1)







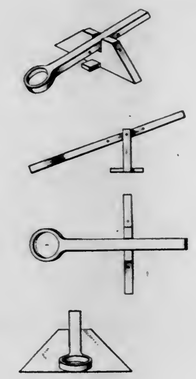
The ornamental design for an airplane, as shown.

138,092
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J., assignor to Rosenstein Bros., Paterson, N. J., a co-partnership composed of Charles Rosenstein and Aaron Rosenstein
Application December 6, 1943, Serial No. 111,931
Term of patent 3½ years
(Cl. D92—1)



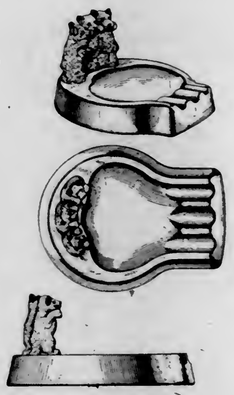
The ornamental design for a textile fabric or similar article, as shown.

138,093
DESIGN FOR A CATBALL GAME DEVICE
Thomas R. Schlitz, Newark, N. J.
Application September 28, 1943, Serial No. 111,226
Term of patent 14 years
(Cl. D34—5)



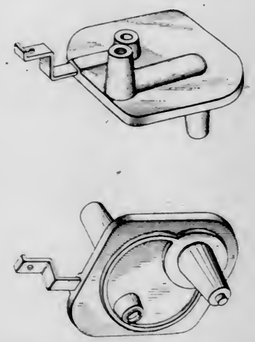
The ornamental design for a catball game device, as shown.

138,094
DESIGN FOR AN ASH TRAY
Harry S. Stronach, Oak Park, Ill.
Application March 22, 1944, Serial No. 112,995
Term of patent 3½ years
(Cl. D85—2)



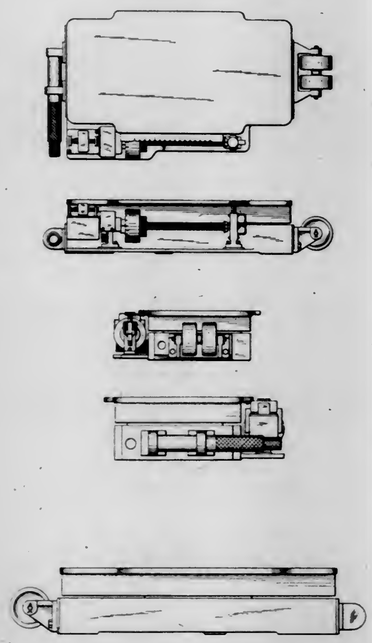
The ornamental design for an ash tray, as shown.

138,095
DESIGN FOR A DISTRIBUTOR COIL ADAPTER
Victor W. Thomas, Waukegan, Ill.
Application July 19, 1943, Serial No. 110,709
Term of patent 14 years
(Cl. D26—1)



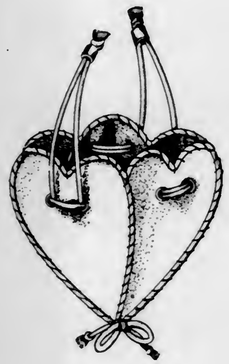
The ornamental design for a distributor coil adapter, as shown.

138,096
DESIGN FOR A WEIGHING SCALE
Ferdinand E. Townsend, St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application March 2, 1944, Serial No. 112,771
Term of patent 14 years
(Cl. D52—10)



The ornamental design for a weighing scale, as shown.

138,097
DESIGN FOR A HANDBAG OR SIMILAR ARTICLE
John C. Marks, New York, N. Y.
Application May 10, 1944, Serial No. 113,537
Term of Patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag or similar article, substantially as shown.

138,098
DESIGN FOR A CIGARETTE LIGHTER
Harry Negbaur, New York, N. Y.
Application March 29, 1944, Serial No. 113,065
Term of patent 14 years
(Cl. D48—27)



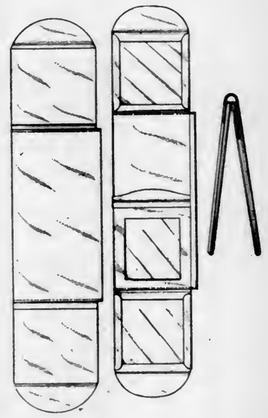
The ornamental design for a cigarette lighter, as shown and described.

138,099
DESIGN FOR A COMBINED WRIST WATCH AND BRACELET
George Peyrot, New York, N. Y.
Application May 4, 1944, Serial No. 113,457
Term of patent 7 years
(Cl. D45—4)



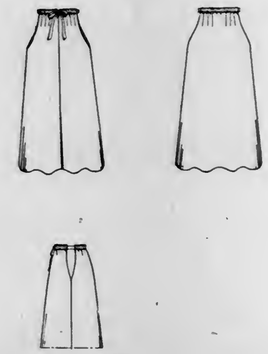
The ornamental design for a combined wrist watch and bracelet, substantially as shown.

138,100
DESIGN FOR A WALLET
Emil Carl Renz, Dedham, Mass., assignor to Knight Leather Products, Inc.
Application July 3, 1943, Serial No. 110,597
Term of patent 14 years
(Cl. D87—3)



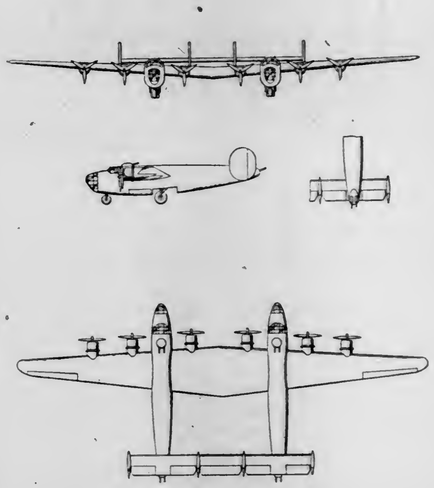
The ornamental design for a wallet, as shown.

138,101
DESIGN FOR A SKIRT
Joset Walker, New York, N. Y.
Application February 22, 1944, Serial No. 112,668
Term of Patent 3½ years
(Cl. D3—26)



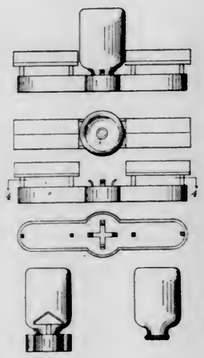
The ornamental design for a skirt substantially as shown.

138,102
DESIGN FOR AN AIRPLANE
Allan O. Kelly, Carlsbad, Calif.
Application May 31, 1943, Serial No. 110,336
Term of patent 7 years
(Cl. D71—1)



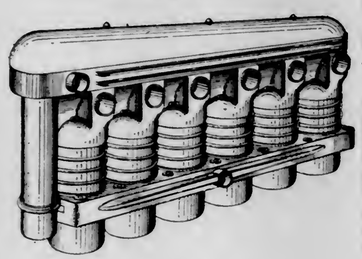
The ornamental design for an airplane, substantially as shown.

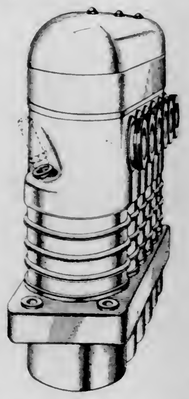
138,103
DESIGN FOR A DRINKING FOUNTAIN FOR FOWLS
Richard R. Setzer, Kansas City, Mo.
Application February 7, 1944, Serial No. 112,500
Term of patent 7 years
(Cl. D12—2)



The ornamental design for a drinking fountain for fowls, substantially as shown and described.

138,104
DESIGN FOR AN ENGINE CYLINDER BLOCK
Lloyd M. Taylor, San Leandro, Calif.
Application June 23, 1942, Serial No. 107,317
Term of patent 14 years
(Cl. D77—1)





The ornamental design for an engine cylinder block, as shown.

138,105
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 13, 1944, Serial No. 113,575
Term of Patent 3½ years
(Cl. D3—4)



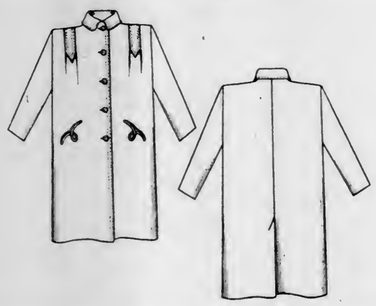
The ornamental design for a suit, substantially as shown.

138,106
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 13, 1944, Serial No. 113,576
Term of Patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

138,107
DESIGN FOR A COAT
Abe Gruber, New York, N. Y.
Application May 17, 1944, Serial No. 113,627
Term of Patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

138,108
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 19, 1944, Serial No. 113,693
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

138,109
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 19, 1944, Serial No. 113,694
Term of patent 3½ years
(Cl. D3—4)



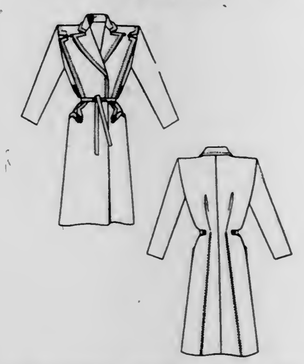
The ornamental design for a suit, substantially as shown.

138,110
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 19, 1944, Serial No. 113,695
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

138,111
DESIGN FOR A COAT
Abe Gruber, New York, N. Y.
Application May 19, 1944, Serial No. 113,696
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adel Precision Products Corp, Burbank, Calif. Hydraulic control valves. Serial No. 460,512; June 13. Class 13.

Aerojet Engineering Corporation, Pasedena, Calif. Thrust motors. Serial No. 458,028; June 13. Class 23.

Albert, Samuel, New York, N. Y. Shaving cream. Serial No. 465,885; June 13. Class 4.

Argenzio Brothers, Denver, Colo. Jewelry. Serial No. 464,193; June 13. Class 28.

Astlett, H. A., & Co., New York, N. Y. Radio receiving sets and parts thereof, and electric toasters. Serial No. 469,106; June 13. Class 21.

Ayoub, Joseph A., doing business as Blou-Slip Co., San Francisco, Calif. Ladies' and misses' blouses, and blouse and slip combinations. Serial No. 469,184; June 13. Class 39.

Bannister, Constance, New York, N. Y. Dolls and toy animals. Serial No. 469,142; June 13. Class 22.

Biochemical Products Corporation, New York, N. Y. Pharmaceutical preparations. Serial No. 467,444; June 13. Class 6.

Blou-Slip Co. (See Ayoub, Joseph A.)

Boston, Wilma M., Detroit, Mich. Hair grower. Serial No. 468,336; June 13. Class 6.

Bryant Paper Company, Kalamazoo, Mich. Coated printing paper. Serial No. 468,700; June 13. Class 37.

Cemetery Legal Compass, Los Angeles, Calif. Periodical publications. Serial No. 469,003; June 13. Class 38.

Compania Importadora de Vinos de La Habana, Sociedad Anonima, Alacranes and Habana, Cuba. Aquardiente, rum, ethyl alcohol and cognac. Serial No. 467,233; June 13. Class 49.

Cooper's, Incorporated, Kenosha, Wis. Men's and boys' underwear. Serial No. 468,833; June 13. Class 39.

County Perfumery Company, Inc., The, Bloomfield, N. J. Preparations for use in the dressing, care, and treatment of the hair. Serial Nos. 468,662–4; June 13. Class 6.

Delapenha, R. U., & Co. Inc., New York, N. Y. Sherry. Serial No. 466,482; June 13. Class 47.

Detona Medicine Co. (See Rupert, Floyd J.)

Diagraph-Bradley Stencil Machine Corporation, St. Louis, Mo. Fountain markers and tips therefor and stencil boards. Serial No. 465,417; June 13. Class 37.

Dillinger Distilleries, Inc., Ruffsdale and Philadelphia, Pa. Whiskey. Serial No. 459,902; June 13. Class 49.

Doke, Ben F., doing business as Mir-O-Col Alloy Co., Los Angeles, Calif. Hard surfacing welding rod. Serial No. 469,355; June 13. Class 14.

Dubois Plastic Products, Inc., Buffalo, N. Y. Goggles. Serial No. 469,328; June 13. Class 26.

Eddy Co., The. (See Eddy, E. J.)

Eddy, E. J., doing business as The Eddy Co., Long Beach, Calif. Liniment. Serial No. 468,233; June 13. Class 6.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers. Serial No. 467,938; June 13. Class 16.

Electric Game Co., Inc., Holyoke, Mass. Game played with cards. Serial No. 468,444; June 13. Class 22.

Electrolux Corporation, Old Greenwich, Conn. Synchronous electric motors. Serial No. 469,297; June 13. Class 21.

Electronic Development Associates, New York, N. Y. Periodical. Serial No. 467,651; June 13. Class 38.

Enholm, Lewis W., Quincy, Mass. Fishing tackle. Serial No. 468,710; June 13. Class 22.

F-R Publishing Corporation, The, New York, N. Y. Magazine column. Serial No. 468,506; June 13. Class 38.

Flexible Steel Lacing Co., Chicago, Ill. Flexible or hinged belt fasteners. Serial No. 463,814; June 13. Class 13.

Fort Wayne Printing Company, Inc., Fort Wayne, Ind. Calendars. Serial No. 469,392; June 13. Class 38.

Garco Products, Inc., Connoquenessing, Pa. Comminuted mixture of silica and glass. Serial No. 468,789; June 13. Class 1.

Goodwin Preserving Co., Louisville, Ky. Fruit jam. Serial No. 469,120; June 13. Class 46.

Grolier Society, Inc., The, New York, N. Y. Books, booklets, and children's encyclopedia. Serial No. 467,886; June 13. Class 38.

Grossman, L. & Son, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. Serial Nos. 467,924–5; June 13. Class 39.

Guerra, Carlos E. P., doing business as Perez Guerra, Ltd., Los Angeles, Calif. Cologne. Serial No. 468,671; June 13. Class 6.

Guerra, Perez, Ltd. (See Guerra, Carlos E. P.)

Gurstel, Etta, Minneapolis, Minn. Dresses. Serial No. 469,334; June 13. Class 39.

Hanovia Chemical and Manufacturing Company, Newark, N. J. Vapor lamps and other lamps giving therapeutic rays. Serial No. 466,836; June 13. Class 44.

Harrison, Robert, New York, N. Y. Pictorial humorous periodical. Serial No. 468,796; June 13. Class 38.

Holophane Company, Inc., New York, N. Y. Glass lamp panels and screens, globes, lenses and reflectors. Serial No. 458,493; June 13. Class 34.

Idris Ltd., London, England. Nonalcoholic beverages. Serial No. 462,797; June 13. Class 45.

Imperial Importers, Inc., Chicago, Ill. Whiskey. Serial Nos. 466,042–4; June 13. Class 49.

Industrial Raw Materials Corporation, New York, N. Y. Petroleum wax. Serial No. 468,288; June 13. Class 15.

Industrial Raw Materials Corporation, New York, N. Y. Petroleum wax. Serial No. 468,292; June 13. Class 15.

Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 468,115; June 13. Class 39.

Jeffries, Ben. G., Atlanta, Ga. Wheeled push toys. Serial No. 468,453; June 13. Class 22.

Kearns Coal Company, The, Cincinnati, Ohio. High volatile coal. Serial No. 466,330; June 13. Class 1.

Kinetic Chemicals, Inc., Wilmington, Del. Monochlorodifluoromethane, being fluorinated hydrocarbons. Serial No. 467,759; June 13. Class 6.

King Cole Company, Chicago, Ill. Candy bars. Serial No. 469,202; June 13. Class 46.

Klein, Arthur J., doing business as Riders Digest Company, Shaker Heights, Ohio. Tabloid. Serial No. 467,130; June 13. Class 38.

Knight Leather Products Co., Inc., Boston, Mass. Wallets. Serial No. 464,086; June 13. Class 3.

Laub, George M., New York, N. Y. Paper dress patterns. Serial No. 467,721; June 13. Class 26.

Laub, George M., New York, N. Y. Paper dress patterns. Serial No. 467,723; June 13. Class 26.

Legendre & Company. (See Legendre, J. Marion.)

Legendre, J. Marion, doing business as L'gendre & Company, New Orleans, La. Rum. Serial No. 465,113; June 13. Class 49.

Libby, McNeill & Libby, Chicago, Ill. Packaged pancake mix. Serial No. 468,614; June 13. Class 46.

Libby, McNeill & Libby, Chicago, Ill. Packaged muffin mix. Serial No. 468,615; June 13. Class 46.

Marco Importing Co., Chicago, Ill. Whiskey. Serial No. 468,526; June 13. Class 49.

McGrath, William P., Wadsworth, Kans. Game boards. Serial No. 469,688; June 13. Class 22.

Metalock Company. (See Scott, Lawrence B.)

Mir-O-Col Alloy Co. (See Doke, Ben F.)

Miss Swank, New York, N. Y. Women's slips. Serial No. 459,420; June 13. Class 39.

Nashua Manufacturing Company, Boston, Mass. Blankets. Serial No. 467,668; June 13. Class 42.

Neff, Grace V., Chicago, Ill. Perfumes, toilet water and cold cream. Serial No. 467,852; June 13. Class 6.

New York Grinding Wheel Corporation, New York, N. Y. Abrasive grinding wheels and polishing wheels. Serial No. 468,679; June 13. Class 4.

North Carolina Fabrics Corporation, Salisbury, N. C. Textile fabrics in the piece. Serial No. 465,043; June 13. Class 42.

Pacific Mills, Boston Mass., and New York, N. Y. Woolen fabrics in the piece. Serial No. 468,850; June 13. Class 42.

Phelan-Faust Paint Mfg. Company, St. Louis, Mo. Chemical preparation. Serial No. 463,655; June 13. Class 6.

Pochapin, Max M., New York, N. Y. Paintings, prints, water colors, etc. Serial No. 466,927; June 13. Class 38.

Quaker Chemical Products Corporation, Conshohocken, Pa. Cleaning, cleansing and wetting materials. Serial No. 467,861; June 13. Class 4.

Quinn, K. J., & Co. Inc., Boston, Mass. Preparation in paste or semi-paste form to be applied to leather. Serial No. 468,159; June 13. Class 4.

Radex Corporation, Chicago, Ill. Universal signal generators. Serial No. 466,769; June 13. Class 21.

Riders Digest Company. (See Klein, Arthur J.)

Rupert, Floyd J., doing business as Detona Medicine Co., Columbus, Ohio. Laxative medicinal compounds. Serial No. 468,419; June 13. Class 6.

Scott, Lawrence B., doing business as Metalock Company, Columbus, Ohio Metallic rods and elements. Serial No. 469,213; June 13. Class 14.

Siegel Bros. Garment Corp., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 468,976; June 13. Class 39.

Siegel Bros. Garment Corp., New York, N. Y. Woolen and worsted fabrics. Serial No. 468,977; June 13. Class 42.

Siegel Bros. Garment Corp., New York, N. Y. Woolen and worsted fabrics. Serial No. 468,985; June 13. Class 42.

Siegel Bros. Garment Corp., New York, N. Y. Ladies' and misses coats and suits. Serial No. 468,989; June 13. Class 39.

Sinclair Refining Company, New York, N. Y. Quenching oils. Serial No. 469,615; June 13. Class 15.
Smit, Anton, & Co., Inc., New York, N. Y. Diamond wheel dressing tools. Serial No. 459,642; June 13. Class 23.
Smit, J. K., & Sons, Inc., New York, N. Y. Diamond bits. Serial No. 467,984; June 13. Class 23.
Smith, Bryan, Farms. (See Smith, Bryan S.)
Smith, Bryan S., doing business as Bryan Smith Farms, Bakersfield, Calif. Fresh vegetables. Serial No. 468,477; June 13. Class 46.
Southern Mills, Incorporated, Atlanta, Ga. Fabrics women from twisted paper strands. Serial No. 458,198; June 13. Class 42.
Standard Oil Company of New Jersey, Wilmington, Del. Leather oil. Serial No. 464,451; June 13. Class 4.
Standard Oil Company of New Jersey, Wilmington, Del. Polishing oil. Serial No. 464,452; June 13. Class 16.
Standard Oil Company of New Jersey, Wilmington, Del. Ink oil. Serial No. 464,453; June 13. Class 11.
Stoltz, Jay P., Columbus, Ohio. Combination article of furniture. Serial No. 468,397; June 13. Class 32.
Sulqu Chemical Company, Kansas City, Mo. Remedy for indigestion, rheumatism, stomach and kidney disorders. Serial No. 467,051; June 13. Class 6.
Terhune, Yercance & Wolff, Inc., New York, N. Y. Woolen and worsted fabrics. Serial No. 468,422; June 13. Class 42.
Titan Metal Manufacturing Company, Bellefonte, Pa. Brass forgings, brass castings, etc. Serial No. 461,293; June 13. Class 14.
Tremco Manufacturing Company, The, Cleveland, Ohio. Pliable, elastic, material for coating roofs, for protecting metal surfaces, etc. Serial No. 466,557; June 13. Class 12.
Trimz Company, Inc., Chicago, Ill. Decorative paper specialties. Serial No. 458,828; June 13. Class 37.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needlework yarns. Serial No. 469,370; June 13. Class 43.
United States Time Corporation, The, Waterbury, Conn. Watches. Serial No. 469,025; June 13. Class 27.
Walker, Wendell, Chicago, Ill. Travel booklets, and for monologues and radio broadcasts. Serial No. 465,165; June 13. Class 38.
Wawak Company, Inc., Chicago, Ill. Woolen piece goods, etc. Serial No. 463,388; June 13. Class 42.
Webster-Thomas Company, Boston, Mass. Canned vegetables, canned fruits and canned fish. Serial No. 469,291; June 13. Class 46.
Wilbur-Ellis Company, San Francisco, Calif. Canned foods. Serial No. 469,423; June 13. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Adhesive Paper Products Corporation, The. (See Casterline & Brien, assignor.)
Aero Needle Company, Chicago, Ill. Phonograph needles. 407,631; June 13; Serial No. 467,482; published Apr. 4, 1944. Class 36.
American Optical Company, The, Southbridge, Mass. Eyeglasses, spectacles, goggles, etc. 185,458; renewed June 17, 1944.
Anheuser-Busch, Inc., assignor to Anheuser-Busch, Inc., St. Louis, Mo. Corn sirup. 189,921; renewed Sept. 30, 1944.
Arnold, Schwinn & Co., Chicago, Ill. Bicycles. 407,574; June 13; Serial No. 457,598; published Apr. 4, 1944. Class 19.
Ash Grove Lime and Portland Cement Company, Kansas City, Mo., and Portland, Maine, to Ash Grove Lime & Portland Cement Company, Kansas City, Mo. High-calcium, hydrated lime. 190,573; renewed Oct. 14, 1933.
Associated Silver Company to Associated Silver Company, Chicago, Ill. Silver-plated flat metal tableware. 185,796; renewed June 24, 1944.
Basca Manufacturing Co. Inc., Indianapolis, Ind. Exhaust mufflers. 407,635; June 13. Class 23.
Behen Fruit Service, Inc., Everett, Mass. Pie and pastry fillings. 407,634; June 13. Class 46.
Berger, Herman, doing business as Standard Pharmaceutical Co., New York, N. Y. Liquid adhesives. 407,583; June 13; Serial No. 463,926; published Apr. 4, 1944. Class 44.
Bermingham & Prosser Company, Kalamazoo, Mich. Writing paper and envelopes. 187,161–2; renewed July 29, 1944.
Brand, Wayne B., Co., Yuma, Ariz. Fresh vegetables. 407,610; June 13; Serial No. 466,426; published Mar. 28, 1944. Class 46.
Brogan, Byard F., Philadelphia, Pa. Finger rings. 190,397; renewed Oct. 14, 1944.
Buckingham & Hecht, San Francisco, Calif. Children's leather shoes. 189,388; renewed Sept. 16, 1944.
Cantu, Cesare. (See Capriata, Hugh D., assignor.)
Capriata, Hugh R., assignor to Cesare Cantu, doing business as Special Food Products Co., New York, N. Y. Canned vegetables, fish, and anchovies, pickled fish. 186,718; renewed July 22, 1944.
Casterline & Brien, San Francisco, assignor to The Adhesive Paper Products Corporation, assignor, by mesne assignments, to H. I. Salsbury, doing business as Handy Roll Co., Oakland, Calif. Containers filled with adhesive or gummed tape. 187,131; renewed July 29, 1944.
Chamberlain Company, The, Pittsburgh, Pa., assignor to John R. Dulany, Eastlake Weir, Fla. Cleaning powder. 190,428; renewed Oct. 14, 1944.
Church-Budget Envelope Company, Salem, Ohio. Envelopes. 186,069; renewed July 1, 1944.
Cohen, A., & Sons Corp., New York, N. Y. Ladies' diamond rings and wedding rings. 407,636; June 13. Class 28.
Cohen, Louis, assignor to Louis Cohen & Son, Inc., New York, N. Y. Mattresses, bed springs, box springs, etc. 188,803; renewed Sept. 2, 1944.
Cohen, Louis, & Son, Inc. (See Cohen, Louis, assignor.)
Container Corporation of America, Chicago, Ill. Paperboard. 407,608; June 13; Serial No. 466,213; published Apr. 4, 1944. Class 37.
Coty, Inc., New York, N. Y. Face powder, toilet water, lipsticks, etc. 407,603; June 13; Serial No. 465,893; published Mar. 28, 1944. Class 6.
Creamette Company, The, Minneapolis, Minn. Salt, baking powder, and baking soda. 190,536; renewed Oct. 14, 1944.
Crescent Belt Fastener Company, assignor to Crescent Belt Fastener Company, Inc., New York, N. Y. Belt-fastening plates, laces, lacing and fasteners of leather. 188,719; renewed Sept. 2, 1944.
Crown Manufacturing Company, Inc. (See Greenebaum, Weil & Michels, assignor.)
Cumberland Tobacco Works, Nashville, Tenn. Smoking and chewing tobacco. 190,070; renewed Oct. 7, 1944.
Deadwyler, T. J. (See Lisco Company, The, assignor.)
Dempster Brothers, Incorporated, Knoxville, Tenn. Presses for baling scrap metals. 407,589–90; June 13; Serial Nos. 464,601–2; published Mar. 28, 1944. Class 23.
Dendura Products. (See Standard Distributing Company.)
Dentura Products. (See Standard Distributing Company.)
Dormeuil Freres, Paris, France, to Dormeuil Freres, London, England. Worsted piece goods. 182,001; renewed Apr. 1, 1944.
Dormeuil Freres, Paris, France, to Dormeuil Freres, London, England. Woolen piece goods. 183,553; renewed May 6, 1944.
Dulany, John R. (See Chamberlain Company, The, assignor.)
Dyer, D. L., Kansas City, Mo. Stationery. 407,587; June 13; Serial No. 464,108; published Apr. 4, 1944. Class 37.
Editor & Publisher Company, The. (See Fourth Estate Publishing Company, The.)
Elco Grease and Oil Company, The, now by change of name to The Elco Lubricant Corporation, Cleveland, Ohio. Lubricating oils and greases. 407,622; June 13; Serial No. 466,985; published Mar. 28, 1944. Class 15.
Elco Lubricant Corporation, The. (See Elco Grease and Oil Company, The.)
Emdee Laboratories, Inc., New York, N. Y. Medicinal vitamin iron and liver concentrate preparations. 407,616; June 13; Serial No. 466,692; published Mar. 28, 1944. Class 6.
Enthone Company, The, New Haven, Conn. Chemical compounds for oxidizing metal articles. 407,618; June 13; Serial No. 466,786; published Mar. 28, 1944. Class 6.
Federal Products Corporation, Providence, R. I. Dial indicators. 407,595; June 13; Serial No. 465,338; published Apr. 4, 1944. Class 26.
Forstner Chain Corporation, Irvington, N. J. Key chains, buckles, collar buttons, etc. 183,511; renewed Apr. 29, 1944.
Fourth Estate Publishing Company, The, to The Editor & Publisher Company, New York, N. Y., successor. Weekly publication. 188,813; renewed Sept. 2, 1944.
Fox, Fontaine, New York, N. Y., to Fontaine Fox, Greenwich, Conn. Series of cartoons. 188,651; renewed Sept. 2, 1944.
Fox, Fontaine, New York, N. Y., to Fontaine Fox, Greenwich, Conn. Series of cartoons. 189,967; renewed Sept. 30, 1944.
Freeman, Henry, & Co., Inc. (See Holden, Jacob, assignor.)
Fromm, F. H., & Co. (See Fromm, F. H.)
Fromm, Frank H. (See Fromm, F. H.)

Fromm, F. H., doing business as F. H. Fromm & Co., Philadelphia, Pa., to Frank H. Fromm, Brooklyn and New York, N. Y. Sardines. 182,790; renewed Apr. 15, 1944.
Gast, E. D., Lima, Ohio. Liniment for bruises, cuts, burns, etc. 190,312; renewed Oct. 14, 1944.
Gates Rubber Company, The, Denver, Colo. Power transmission belts. 407,630; June 13; Serial No. 467,449; published Apr. 4, 1944. Class 35.
Genender Sales & Supplies, Chicago, Ill. Pocket knives and razor blades. 407,592; June 13; Serial No. 464,695; published Mar. 2, 1944. Class 23.
General Water Heater Corporation, Los Angeles, to General Water Heater Corporation, Burbank, Calif. Water heaters. 185,186; renewed June 10, 1944.
Glass and Resins Limited, London, England. Glass sheets and glass plates. 407,579; June 13; Serial No. 461,484; published Apr. 4, 1944. Class 33.
Grady Mfg. Co., Long Island City, to Oil Specialties & Refining Co., Inc., Brooklyn, N. Y., successor. Metal cleaner and polish. 167,544; renewed May 1, 1943.
Greenebaum, Weil & Michels, assignor, by mesne assignments, to Crown Manufacturing Company, Inc., San Francisco, Calif. Arm bands, suspenders, and belts. 190,297; renewed Oct. 14, 1944.
Half Moon Fruit & Produce Co., to Half Moon Fruit & Produce Co., San Francisco, Calif., successor. Fresh cantaloupes, cassaba, and fresh vegetables. 176,507; renewed Nov. 27, 1944.
Hamilton Rubber Manufacturing Company, Trenton, N. J. Belting made of rubber and cotton and air hose made of rubber and cotton. 190,594; renewed Oct. 14, 1944.
Handy Roll Co. (See Casterline & Brien, assignor).
Hoffman Radio Corporation, Los Angeles, Calif. Radio receiving apparatus and parts thereof. 407,599; June 13; Serial No. 465,602; published Apr. 4, 1944. Class 21.
Holden & Earle. (See Holden, Jacob.)
Holden, Jacob, doing business as Holden & Earle, assignor, by mesne assignments, to Henry Freeman & Co., Inc., Worcester, Mass. Cigars. 190,150; renewed Oct. 7, 1944.
Hospital Specialty Company, The, Cleveland, Ohio. Vending machines. 407,605; June 13; Serial No. 466,080; published Mar. 28, 1944. Class 23.
Hospital Specialty Company, The, Cleveland, Ohio. Sanitary napkins. 407,606; June 13; Serial No. 466,084; published Apr. 4, 1944. Class 44.
Houghton, E. F., & Co., Philadelphia, Pa. Compounds for use in the drawing and tempering of steel. 183,194; renewed Apr. 22, 1944.
Houghton, E. F., & Co., Philadelphia, Pa. Compounds for use in reheating of steel. 183,195; renewed Apr. 22, 1944.
Hunn, L. S., doing business as L. S. Hunn Packing Co., Woodlake, Calif. Canned olives. 407,624; June 13; Serial No. 467,067; published Apr. 4, 1944. Class 46.
Hunn, L. S., Packing Co. (See Hunn, L. S.)
Indian Arts and Crafts Board, Washington, D. C. Wooden forks and spoons. 407,613; June 13; Serial No. 466,495; published Mar. 28, 1944. Class 23.
Jacobs, H., & Sons, Inc., assignor, by mesne assignments, to Marvlo Fabrics, Inc., New York, N. Y. Silk and cotton mixed piece goods, mercerized piece goods, etc. 189,872; renewed Sept. 30, 1944.
Jacobs, H., & Sons, Inc., assignor, by mesne assignments, to Marvlo Fabrics, Inc., New York, N. Y. Sateen, cotton and silk mixed piece goods, etc. 189,970; renewed Sept. 30, 1944.
Jessen, Richard L., Wauwatosa, Wis. Pharmaceutical preparations. 407,578; June 13; Serial No. 460,959; published Mar. 28, 1944. Class 6.
Jolles, Ida, doing business as J. Jolles Studio, New York, N. Y. Ladies' handbags. 407,645; June 13. Class 3.
Jolles, J., Studio. (See Jolles, Ida.)
Keene's Laboratories Limited, London, England. Tooth picks and tooth sticks. 407,625; June 13; Serial No. 467,159; published Apr. 4, 1944. Class 44.
Kemp & Lane, Inc., Le Roy, N. Y. Preparation for the treatment of disorders of the stomach and bowels. 182,571; renewed Apr. 15, 1944.
Kemp & Lane, Inc., Le Roy, N. Y. Tablets, menthol cream, salve, etc. 187,451; renewed Aug. 5, 1944.
Kitchen Maid Corporation, The, Andrews, Ind. Ironing boards. 407,623; June 13; Serial No. 466,994; published Apr. 4, 1944. Class 24.
Lake Hamilton Cooperative, Inc., Lake Hamilton, Fla. Fresh citrus fruits. 407,626–7; June 13; Serial Nos. 467,245–6; published Apr. 4, 1944. Class 46.
Libby, McNeill & Libby, Chicago, Ill. Bacon, potted ham, potted tongue, etc. 189,910; renewed Sept. 30, 1944.
Lion Knitting Mills Company, The, Cleveland, Ohio. Scarfs, sweaters, mufflers, etc. 188,624; renewed Sept. 2, 1944.
Lisco Company, The, assignor to T. J. Deadwyler, doing business as The Lisco Company, Atlanta, Ga. Lubricating oils. 187,281; renewed July 29, 1944.
Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts thereof. 407,588; June 13; Serial No. 464,398; published Apr. 4, 1944. Class 19.
Loma Machine Manufacturing Co., Inc., New York, N. Y. Machines. 407,602; June 13; Serial No. 465,813; published Mar. 21, 1944. Class 23.
Loose-Wiles Biscuit Company. (See Schust Company, The, assignor.)
Lorenz, David M., Kansas City, Mo. Paper bags. 407,604; June 13; Serial No. 465,952; published Apr. 4, 1944. Class 2.
MacAndrews & Forbes Company, Camden, N. J., and New York, N. Y., to MacAndrews & Forbes Company, Camden, N. J. Licorice paste. 190,214; renewed Oct. 7, 1944.
Marlon Confections Co., New York, N. Y. Candies. 407,628–9; June 13; Serial Nos. 467,250–1; published Apr. 4, 1944. Class 46.
Marvlo Fabrics, Inc. (See Jacobs, H., & Sons, Inc., assignor.)
Mayflower Manufacturing Company, Dallas, Tex. Laxative. 407,617; June 13; Serial No. 466,763; published Mar. 28, 1944. Class 6.
McLaurin-Jones Co., Brookfield, Mass. Gummed paper tape and gummed fabric tape. 407,575; June 13; Serial No. 458,542; published Apr. 4, 1944. Class 37.
McLaurin-Jones Co., Brookfield, Mass. Gummed paper tape and gummed fabric tape. 407,576; June 13; Serial No. 459,122; published Apr. 4, 1944. Class 37.
Monsanto Chemical Company, St. Louis, Mo. Synthetic resins in solid or liquid form. 407,582; June 13; Serial No. 463,573; published Apr. 4, 1944. Class 1.
Moore Fabric Company, Pawtucket, R. I. Knitted, woven and braided elastic narrow fabric. 189,049; renewed Sept. 9, 1944.
Morris, Bert M., Co., Los Angeles, Calif. Pen-ink units. 407,644; June 13. Class 37.
National Cylinder Gas Company, Chicago, Ill. Fittings for wires and cables. 407,637; June 13. Class 21.
National Twist Drill & Tool Co., Detroit, Mich. Twist drills, reamers, end mills, etc. 407,580; June 13; Serial No. 462,320; published Mar. 14, 1944. Class 23.
Neuhoff, Fred B., Company, Los Angeles, assignor to Oxnard Canners, Inc., Monterey, Calif. Canned sardines. 183,792; renewed May 6, 1944.
New York Air Brake Company, The, Watertown, N. Y. Hydraulic pumps and parts thereof, etc. 407,594; June 13; Serial No. 465,266; published Mar. 28, 1944. Class 23.
Northern Indiana Brass Company, Elkhart, Ind. Ball cocks and trip levers for ball cocks. 190,106; renewed Oct. 7, 1944.
Oil Specialties & Refining Co., Inc. (See Grady Mfg. Co.)
Orth, Ph., Company, Milwaukee, Wis. Lecithinated corn flour. 407,577; June 13; Serial No. 459,673; published Apr. 4, 1944. Class 46.
Oxnard Canners, Inc. (See Neuhoff, Fred B., Company, assignor.)
Photo Technical Corporation, The, South Norwalk, Conn. Photographic developer concentrate. 407,591; June 13; Serial No. 464,617; published Mar. 28, 1944. Class 6.
Pinaud, Incorporated, New York, N. Y. Perfume. 407,620; June 13; Serial No. 466,845; published Mar. 28, 1944. Class 6.
Polis & Hagan, Edinburg, Tex. Fresh tomatoes and fresh citrus fruit. 407,581; June 13; Serial No. 463,102; published Apr. 4, 1944. Class 46.
Procter & Gamble Company, Cincinnati, Ohio. Soap. 407,632; June 13; Serial No. 467,537; published Apr. 4, 1944. Class 4.
Purity Baking Co., St. Paul, Minn. Bread, cookies, cake, etc. 190,531; renewed Oct. 14, 1944.
Republic Filters, Inc., Paterson, N. J. Filtering apparatus. 407,572; June 13; Serial No. 454,811; published Apr. 4, 1944. Class 31.
Revere Copper and Brass Incorporated. (See Taunton-New Bedford Copper Company, assignor.)
Robins Conveyors Incorporated, Passaic, N. J. Vibrating screen separating machines, etc. 407,597; June 13; Serial No. 465,576; published Mar. 28, 1944. Class 23.
Robins Conveyors Incorporated, Passaic, N. J. Vibrating screen separating machines, etc. 407,598; June 13; Serial No. 465,577; published Mar. 21, 1944. Class 23.
Rotary Snow Plow Company, The, Minneapolis, Minn. Rotary snowplows. 188,141; renewed Aug. 19, 1944.
Rotogravure Engineering Co. of Mass., East Boston, Mass. Rotogravure presses and laminating and coating machines. 407,607; June 13; Serial No. 466,175; published Mar. 14, 1944. Class 23.
Royal Metal Manufacturing Co., Chicago, to Royal Metal Manufacturing Co., Chicago, Ill., and Michigan City, Ind. Wire furniture. 183,711; renewed May 6, 1944.
S. P. D. Products Company, Sedan, Kans. Tooth paste and tooth powder. 407,638; June 13. Class 6.
Salsbury, H. I. (See Casterline & Brien, assignor.)
Sargent & Company, Des Moines, Iowa. Feed for hogs. 407,642; June 13. Class 46.
Schust Company, The, Saginaw, Mich., assignor to Loose-Wiles Biscuit Company, Chicago, Ill. Cakes. 185,739; renewed June 24, 1944.
Sears, Roebuck and Co., Chicago, Ill. Smoking tobacco. 407,639; June 13. Class 17.
Sheffield Manufacturing Corp., Newark, N. J. Razor blades. 407,640; June 13. Class 23.
Slater, S., & Sons, Inc., Webster, Mass., and New York, N. Y., assignor to S. Slater and Sons, Inc., Slater, S. C. Cotton piece goods. 183,607; renewed May 6, 1944.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 407,584; June 13; Serial No. 463,941; published Apr. 4, 1944. Class 2.
Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 407,585; June 13; Serial No. 463,943; published Apr. 4, 1944. Class 2.
Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 407,586; June 13; Serial No. 463,948; published Apr. 4, 1944. Class 2.
Special Food Products Co. (See Capriata, Hugh D.)
Standard Distributing Company, doing business as Dendura Products, Chicago, Ill. Preparation for making secure dental plates in the mouth. 407,611; June 13; Serial No. 466,464; published Mar. 28, 1944. Class 6.
Standard Distributing Company, doing business as Dentura Products, Chicago, Ill. Preparation for making secure dental plates in mouth. 407,612; June 13; Serial No. 466,465; published Mar. 28, 1944. Class 6.
Standard Milling Company, New York, N. Y. Wheat flour, wheat middlings, wheat screenings, etc. 407,571; June 13; Serial No. 421,786; published Mar. 24, 1942. Class 46.
Standard Pharmaceutical Co. (See Berger, Herman.)
Stensgaard, W. L., and Associates, Inc. Chicago, Ill. Electrically operated illuminating device. 407,573; June 13; Serial No. 455,768; published Apr. 4, 1944. Class 21.
Stonhard Company, Philadelphia, Pa. Patching and resurfacing cement. 407,593; June 13; Serial No. 465,013; published Apr. 4, 1944. Class 12.
Taunton-New Bedford Copper Company, Taunton, Mass., assignor to Revere Copper and Brass Incorporated, New York, N. Y. Sheets and bars of brass, or copper or alloys thereof, metal castings, etc, 189,219; renewed Sept. 16, 1944.
Tockstein, Julia, doing business as Tocsein, Chicago, Ill. Preparation for use in the treatment of St. Vitus dance and infantile paralysis. 407,619; June 13; Serial No. 466,812; published Mar. 28, 1944. Class 6.
Tocsein. (See Tockstein, Julia.)
Union Company, The, Columbus, Ohio. Hats and caps for men and boys. 190,242; renewed Oct. 7, 1944.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Preparation for preventing corrosion of metals, etc. 407,614; June 13; Serial No. 466,561; published Mar. 28, 1944. Class 6.
Van Dusen Aircraft Supplies, Inc., Minneapolis, Minn. Airplane lacquers. 407,643; June 13. Class 16.
Victor Ring Traveler Company, Providence, R. I. Ring travelers. 407,600; June 13; Serial No. 465,642; published Feb. 15, 1944. Class 23.
Ward, Samuel, Mfg. Co., Boston, Mass. Writing papers and envelopes. 184,605; renewed May 27, 1944.
Warren Featherbone Co., The, Three Oaks, Mich. Infant carrying flexible cradle chairs. 407,596; June 13; Serial No. 465,441; published Apr. 4, 1944. Class 19.
Wasson, Fred C., Compton, Calif. Toy airplane. 407,633; June 13; Serial No. 467,629; published Apr. 4, 1944. Class 22.
Weil, Lewis P., Germantown, Pa. Glass dishes, drinking glasses, salvers, etc. 407,621; June 13; Serial No. 466,853; published Apr. 4, 1944. Class 33.
Weston International Company, New York, N. Y. Pyrophoric pipe, cigarette and cigar lighters. 407,641; June 13. Class 34.
Whitmire, Homer E., doing business as Whitmire Research Laboratories, St. Louis, Mo. Insecticidal preparations. 407,609; June 13; Serial No. 466,246; published Mar. 28, 1944. Class 6.
Whitmire Research Laboratories. (See Whitmire, Homer E.)
Wilde, John P., Sands Point, N. Y. Perfumes. 407,601; June 13; Serial No. 465,725; published Mar. 28, 1944. Class 6.
Willamette Hyster Company, Portland, Oreg. Trucks. 407,615; June 13; Serial No. 466,562; published Mar. 28, 1944. Class 23.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Synthetic resins in solid or liquid form. Monsanto Chemical Company. 407,582; June 13; Serial No. 463,573; published Apr. 4, 1944.

CLASS 2

Bags, Paper. D. M. Lorenz. 407,604; June 13; Serial No. 465,952; published Apr. 4, 1944.
Bags, Paper. Southern Advance Bag & Paper Co. Inc. 407,584; June 13; Serial No. 463,941; published Apr. 4, 1944.
Bags, Paper. Southern Advance Bag & Paper Co. Inc. 407,585; June 13; Serial No. 463,943; published Apr. 4, 1944.
Bags, Paper. Southern Advance Bag & Paper Co. Inc. 407,586; June 13; Serial No. 463,948; published Apr. 4, 1944.

CLASS 3

Handbags, Ladies'. I. Jolles. 407,645; June 13.

CLASS 4

Cleaner and polish, Metal. Grady Mfg. Co. 167,544; renewed May 1, 1943.
Powder, Cleaning. Chamberlain Company. 190,428; renewed Oct. 14, 1944.
Soap. Procter & Gamble Company. 407,632; June 13; Serial No. 467,537; published Apr. 4, 1944.

CLASS 6

Chemical compound for oxidizing metal articles. Enthone Company. 407,618; June 13; Serial No. 466,786; published Mar. 28, 1944
Compounds for use in the drawing and tempering of steel. E. F. Houghton & Co. 183,194; renewed Apr. 22, 1944.
Compounds for use in the reheating of steel. E. F. Houghton & Co. 183,195; renewed Apr. 22, 1944.
Face powder, toilet water, lipsticks, etc. Coty, Inc. 407,603; June 13; Serial No. 465,893; published Mar. 28, 1944.
Insecticidal preparations. H. E. Whitmire. 407,609; June 13; Serial No. 466,246; published Mar. 28, 1944.
Laxative. Mayflower Manufacturing Company. 407,617; June 13; Serial No. 466,763; published Mar. 28, 1944.
Licorice paste. MacAndrews & Forbes Company. 190,214; renewed Oct. 7, 1944.
Lime, High-calcium, hydrated. Ash Grove Lime and Portland Cement Company. 190,573; renewed Oct. 14, 1944.
Liniment for bruises, cuts, burns, etc. E. D. Gast. 190,312; renewed Oct. 14, 1944.
Medicinal vitamin iron and liver concentrate preparations. Emdee Laboratories, Inc. 407,616; June 13; Serial No. 466,692; published Mar. 28, 1944.
Perfume. Pinaud, Incorporated. 407,620; June 13; Serial No. 466,845; published Mar. 28, 1944.
Perfumes. J. P. Wilde. 407,601; June 13; Serial No. 465,725; published Mar. 28, 1944.
Pharmaceutical preparations. R. L. Jessen. 407,578; June 13; Serial No. 460,959; published Mar. 28, 1944.
Photographic developer concentrate. Photo Technical Corporation. 407,591; June 13; Serial No. 464,617; published Mar. 28, 1944.
Preparation for making secure dental plates in mouth. Standard Distributing Company. 407,612; June 13; Serial No. 466,465; published Mar. 28, 1944.
Preparation for making secure dental plates in the mouth. Standard Distributing Company. 407,611; June 13; Serial No. 466,464; published Mar. 28, 1944.
Preparation for preventing corrosion of metals, etc. R. T. Vanderbilt Company. 407,614; June 13; Serial No. 466,561; published Mar. 28, 1944.
Preparation for the treatment of disorders of the stomach and bowels. Kemp & Lane, Inc. 182,571; renewed Apr. 15, 1944.
Preparation for use in the treatment of St. Vitus Dance and infantile paralysis. J. Tockstein. 407,619; June 13; Serial No. 466,812; published Mar. 28, 1944.
Salt, baking powder, and baking soda. Creamette Company. 190,536; renewed Oct. 14, 1944.
Tablets, menthol cream, salve, etc. Kemp & Lane, Inc. 187,451; renewed Aug. 5, 1944.
Tooth paste and tooth powder. S. P. D. Products Company. 407,638; June 13.

CLASS 12

Patching and resurfacing cement. Stonhard Company. 407,593; June 13; Serial No. 465,013; published Apr. 4, 1944.

CLASS 13

Ball cocks and trip levers for ball cocks. Northern Indiana Brass Company. 190,106; renewed Oct. 7, 1944.

CLASS 14

Sheets and bars of brass, or copper or alloys thereof, metal castings, etc. Taunton-New Bedford Copper Company. 189,219; renewed Sept. 16, 1944.

CLASS 15

Oils and greases, Lubricating. Elco Grease and Oil Company. 407,622; June 13; Serial No. 466,985; published Mar. 28, 1944.
Oils and greases, Lubricating. Lisco Company. 187,281. renewed July 29, 1944.

CLASS 16

Lacquers, Airplane. Van Dusen Aircraft Supplies, Inc. 407,643; June 13.

CLASS 17

Cigars. J. Holden. 190,150; renewed Oct. 7, 1944.
Tobacco, Smoking. Sears, Roebuck and Co. 407,639. June 13.
Tobacco, Smoking and chewing. Cumberland Tobacco Works. 190,070; renewed Oct. 7, 1944.

CLASS 19

Airplanes and structural parts therefor. Lockheed Aircraft Corporation. 407,588; June 13; Serial No. 464,398; published Apr. 4, 1944.
Bicycles. Arnold, Schwinn & Co. 407,574; June 13; Serial No. 457,598; published Apr. 4, 1944.
Cradle chairs, Infant carrying. Warren Featherbone Co. 407,596; June 13; Serial No. 465,441; published Apr. 4, 1944.

CLASS 21

Fittings for wires and cables. National Cylinder Gas Company. 407,637; June 13.
Illuminating device. Electrically operated. W. L. Stensgaard and Associates, Inc. 407,573; June 13; Serial No. 455,768; published Apr. 4, 1944.
Radio receiving apparatus and parts thereof. Hoffman Radio Corporation. 407,599; June 13; Serial No. 465,602; published Apr. 4, 1944.

CLASS 22

Toy airplane. F. C. Wasson. 407,633; June 13; Serial No. 467,269; published Apr. 4, 1944.

CLASS 23

Drills, reamers, end mills, etc., Twist. National Twist Drill & Tool Co. 407,580; June 13; Serial No. 462,320; published Mar. 14, 1944.
Forks and spoons, Wooden. Indian Arts and Crafts Board. 407,613; June 13; Serial No. 466,495; published Mar. 28, 1944.
Knives and razor blades, Pocket. Genender Sales & Supplies. 407,592; June 13; Serial No. 464,695; published Mar. 2, 1944.
Machines. Loma Machine Manufacturing Co. 407,602. June 13; Serial No. 465,813; published Mar. 21, 1944.
Mufflers, Exhaust. Basca Manufacturing Co. Inc. 407,635; June 13.
Presses and laminating and coating machines, Rotogravure. Rotogravure Engineering Co. of Mass. 407,607; June 13; Serial No. 466,175; published Mar. 14, 1944.
Presses for baling scrap metals. Dempster Brothers, Incorporated. 407,589–90; June 13; Serial Nos. 464,601–2; published Mar. 28, 1944.
Pumps, and parts thereof, etc., Hydraulic. New York Air Brake Company. 407,594; June 13; Serial No. 465,266; published Mar. 28, 1944.
Razor blades. Sheffield Manufacturing Corp. 407,640; June 13.
Ring travelers. Victor Ring Traveler Company. 407,600; June 13; Serial No. 465,642; published Feb. 15, 1944.
Screen separating machines, etc., Vibrating. Robins Conveyors Incorporated. 407,597; June 13; Serial No. 465,576; published Mar. 28, 1944.
Screen separating machines, etc., Vibrating. Robins Conveyors Incorporated. 407,598; June 13; Serial No. 465,577; published Mar. 21, 1944.
Snowplows, Rotary. Rotary Snow Plow Company. 188,141; renewed Aug. 19, 1944.
Trucks. Willamette Hyster Company. 407,615; June 13; Serial No. 466,562; published Mar. 28, 1944.
Vending machines. Hospital Specialty Company. 407,605; June 13; Serial No. 466,080; published Mar. 28, 1944.

CLASS 24

Ironing boards. Kitchen Maid Corporation. 407,623; June 13; Serial No. 466,994; published Apr. 4, 1944.

CLASS 26

Dial indicators. Federal Products Corporation. 407,595; June 13; Serial No. 465,338; published Apr. 4, 1944.
Eyeglasses, spectacles, goggles, etc. American Optical Company. 185,458; renewed June 17, 1944.

CLASS 28

Chains, buckles, collar buttons, etc, Key. Forstner Chain Corporation. 183,511; renewed Apr. 29, 1944.
Rings and wedding rings, Ladies' diamond. A. Cohen & Sons Corp. 407,636; June 13.
Rings, Finger. B. F. Brogan. 190,397; renewed Oct. 14, 1944.
Tableware, Silver-plated flat metal. Associated Silver Company. 185,796; renewed June 24, 1944.

CLASS 31

Filtering apparatus. Republic Filters, Inc. 407,572; June 13; Serial No. 454,811; published Apr. 4, 1944.

CLASS 32

Furniture, Wire. Royal Metal Manufacturing Co. 183,711; renewed May 6, 1944.
Mattresses, bed springs, box springs, etc. L. Cohen. 188,803; renewed Sept. 2, 1944.

CLASS 33

Glass dishes, drinking glasses, salvers, etc. L. P. Weil. 407,621; June 13; Serial No. 466,853; published Apr. 4, 1944.
Glass sheets and glass plates. Glass and Resins Limited. 407,579; June 13; Serial No. 461,484; published Apr. 4, 1944.

CLASS 34

Heaters, Water. General Water Heater Corporation. 185,186; renewed June 10, 1944.
Lighters, Pyrophoric pipe, cigarette and cigar. Weston International Company. 407,641; June 13.

CLASS 35

Belting made of rubber and cotton, and air hose made of rubber and cotton. Hamilton Rubber Manufacturing Company. 190,594; renewed Oct. 14, 1944.
Belts, Power transmission. Gates Rubber Company. 407,630; June 13; Serial No. 467,449; published Apr. 4, 1944.
Plates, laces, lacing and fasteners of leather, Belt-fastening. Crescent Belt Fastener Company. 188,719; renewed Sept. 2, 1944.

CLASS 36

Needles, Phonograph. Aero Needle Company. 407,631; June 13; Serial No. 467,482; published Apr. 4, 1944.

CLASS 37

Adhesive or gummed tape, Containers filled with. Casterline & Brien. 187,131; renewed July 29, 1944.
Envelopes. Church-Budget Envelope Company. 186,069; renewed July 1, 1944.
Paper and envelopes, Writing. Bermingham & Prosser Company. 187,161–2; renewed July 29, 1944.
Paperboard. Container Corporation of America. 407,608; June 13; Serial No. 466,213; published Apr. 4, 1944.
Papers and envelopes, Writing. Samuel Ward Mfg. Co. 184,605; renewed May 27, 1944.
Pen-ink units. Bert M. Morris Co. 407,644; June 13.
Stationery. D. L. Dyer. 407,587; June 13; Serial No. 464,108; published Apr. 4, 1944.
Tape and gummed fabric tape, Gummed paper. McLaurin-Jones Co. 407,575; June 13; Serial No. 458,542; published Apr. 4, 1944.
Tape, and gummed fabric tape, Gummed paper. McLaurin-Jones Co. 407,576; June 13; Serial No. 459,122; published Apr. 4, 1944.

CLASS 38

Cartoons, Series of. F. Fox. 188,651; renewed Sept. 2, 1944.
Cartoons, Series of. F. Fox. 189,967; renewed Sept. 30, 1944.
Publication. Fourth Estate Publishing Company. 188,813; renewed Sept. 2, 1944.

CLASS 39

Arm bands, suspenders, and belts. Greenebaum, Weil & Michels. 190,297; renewed Oct. 14, 1944.
Hats and caps for men and boys. Union Company. 190,242; renewed Oct. 7, 1944.
Scarfs, sweaters, mufflers, etc. Lion Knitting Mills Company. 188,624; renewed Sept. 2, 1944.
Shoes, Children's leather. Buckingham & Hecht. 189,388; renewed Sept. 16, 1944.

CLASS 40

Narrow fabric, braid and tape, Knitted, woven, and braided elastic. Moore Fabric Company. 189,049; renewed Sept. 9, 1944.

CLASS 42

Piece goods, Cotton. S. Slater & Sons, Inc. 183,607; renewed May 6, 1944.
Piece goods, Silk and cotton mixed, mercerized piece goods, etc. H. Jacobs & Sons, Inc. 189,872; renewed Sept. 30, 1944.
Piece goods, Woolen. Dormeuil Freres. 183,553; renewed May 6, 1944.
Piece goods, Worsted. Dormeuil Freres. 182,001; renewed Apr. 1, 1944.
Sateen, cotton, and silk mixed piece goods, etc. H. Jacobs & Sons, Inc. 189,970; renewed Sept. 30, 1944.

CLASS 44

Adhesives, Liquid. H. Berger. 407,583; June 13; Serial No. 463,926; published Apr. 4, 1944.
Napkins, Sanitary. Hospital Specialty Company. 407,606; June 13; Serial No. 466,084; published Apr. 4, 1944.
Tooth picks and tooth sticks. Keene's Laboratories Limited. 407,625; June 13; Serial No. 467,159; published Apr. 4, 1944.

CLASS 46

Bacon, potted ham, potted tongue, etc. Libby, McNeill & Libby. 189,910; renewed Sept. 30, 1944.
Bread, cookies, cake, etc. Purity Baking Co. 190,531: renewed Oct. 14, 1944.
Cakes. Schust Company. 185,739; renewed June 24, 1944.
Candies. Marlon Confections Co. 407,628–9; June 13; Serial Nos. 467,250–1; published Apr. 4, 1944.
Canned olives. L. S. Hunn. 407,624; June 13; Serial No. 467,067; published Apr. 4, 1944.
Canned sardines. F. B. Neuhoff. 183,792; renewed May 6, 1944.
Canned vegetables, fish, and anchovies, pickled fish. H. D. Capriata. 186,718; renewed July 22, 1944.
Cantaloupes, cassaba and fresh vegetables, Fresh. Half Moon Fruit & Produce Co. 176,507; renewed Nov. 27, 1943.
Citrus fruits, Fresh. Lake Hamilton Cooperative, Inc. 407,626–7; June 13; Serial Nos. 467,245–6; published Apr. 4, 1944.
Feed for hogs. Sargent & Company. 407,642; June 13.
Flour, Lecithinated corn. Ph. Orth Company. 407,577; June 13; Serial No. 459,673; published Apr. 4, 1944.
Flour, wheat middlings, wheat screenings, etc., Wheat. Standard Milling Company. 407,571; June 13; Serial No. 421,786; published Mar. 24, 1942.
Pie and pastry fillings. Behen Fruit Service, Inc. 407,634; June 13.
Salt, baking powder, and baking soda. Creamette Company. 190,536; renewed Oct. 14, 1944.
Sardines. F. H. Fromm. 182,790; renewed Apr. 15, 1944.
Sirup, Corn. Anheuser-Busch, Inc. 189,921; renewed Sept. 30, 1944.
Tomatoes and fresh citrus fruit, Fresh. Polis & Hagan. 407,581; June 13; Serial No. 463,102; published Apr. 4, 1944.
Vegetables, Fresh. Wayne B. Brand Co. 407,610; June 13; Serial No. 466,426; published Mar. 28, 1944.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Winding machine. Re. 22,492; June 13.
Abbott Machine Company. (See Abbott, Edward J., assignor.)
Barnes, James F., trustee. (See Bernhardt, R., and Reinecke, assignors.)
Bernhardt, Rudolph, and J. O. Reinecke, Chicago, Ill., assignors to J. F. Barnes, as trustee. Clamp for blankets and the like. Re. 22,493; June 13.
Ferguson, Allan W., East Aurora, assignor to Oxides, Inc., Buffalo, N. Y. Reduction of metals to a powder. Re. 22,494; June 13.
Freund, Morris, Cleveland, Ohio, assignor, by mesne assignments, to J. C. Lincoln, Scottsdale, Ariz. Spring unit for spring cushions. Re. 22,495; June 13.
General Electric Company. (See Wood, Alexander P., assignor.)
Lincoln, John C. (See Freund, Morris, assignor.)
Oxides, Inc. (See Ferguson, Allan W., assignor.)
Reinecke, Jean O. (See Bernhardt, R., and Reinecke.)
Wood, Alexander P., Schenectady, N. Y., assignor to General Electric Company. Brush holder. Re. 22,496; June 13.

LIST OF DESIGN PATENTEES

Adler, Paul, New York, N. Y. Dress. 138,070; June 13.
American Fixture & Manufacturing Co. (See Heck, Albert L., assignor.)
Baird, William M., Chicago, Ill. Drawer for a refrigerated locker system. 138,060; June 13.
Belanger, Louis J., Graniteville, Vt. Milking device. 138,061; June 13.
Benson, Robert H., Minneapolis, and D. Root, St. Paul, Minn. Bridge score. 138,071; June 13.
Benson, Robert H., Minneapolis, and D. Root, St. Paul, Minn. Bridge scorer. 138,072; June 13.
Breen, John A., Pasadena, Calif. Heat dispersing device to aid in cooking. 138,062; June 13.
Bryan, James E., assignor to The Cleveland Shopping News Company, Cleveland, Ohio. Doll. 138,073; June 13.
Bryan, James E., assignor to The Cleveland Shopping News Company, Cleveland, Ohio. Doll. 138,074; June 13.
Burr, Edward E., Chicago, Ill. Combined valet cabinet and coat hanger. 138,063; June 13.
Burr, Edward E., Chicago, Ill. Garment hanger. 138,075; June 13.
Carman, Edwin C., New Orleans, La. Hosiery jar or similar article. 138,076; June 13.
Clark, Llewellynn J., assignor to The Tanglefoot Company, Grand Rapids, Mich. Insecticide dispenser. 138,064; June 13.
Cleveland Shopping News Company, The. (See Bryan, James E., assignor.)
Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 138,080; June 13.
Drell, William, New York, N. Y. Button or similar article. 138,077; June 13.
Drell, William, New York, N. Y. Button or similar article. 138,078; June 13.
Drew, John K., Attica, assignor to Scott Aviation Corporation, Lancaster, N. Y. Aircraft control wheel. 138,079; June 13.
Fairbanks, Morse & Co. (See Townsend, Ferdinand E., assignor.)
Florman, Irving, New York, N. Y. Cigarette lighter or the like. 138,081; June 13.
Goldstein, Edward. (See Ludel, W., and Goldstein.)
Gruber, Abe, New York, N. Y. Suit. 138,105; June 13.
Gruber, Abe, New York, N. Y. Suit. 138,106; June 13.
Gruber, Abe, New York, N. Y. Coat. 138,107; June 13.
Gruber, Abe, New York, N. Y. Suit. 138,108; June 13.
Gruber, Abe, New York, N. Y. Suit. 138,109; June 13.
Gruber, Abe, New York, N. Y. Suit. 138,110; June 13.
Gruber, Abe, New York, N. Y. Coat. 138,111; June 13.
Harkins, Walter E. B., Brooklyn, N. Y. Life raft. 138,082; June 13.
Heck, Albert L., Normandy, assignor to American Fixture & Manufacturing Co., St. Louis, Mo. Tubular member for metal furniture, stanchions, guardrails, or the like. 138,065; June 13.
Hellwegen, Everett, Long Beach, Calif. Hobbyhorse. 138,083; June 13.
Kelly, Allan O., Carlsbad, Calif. Airplane. 138,102; June 13.
Kemper, Adolph M., Larchmont, N. Y. Textile fabric. 138,084; June 13.
Knight Leather Products, Inc. (See Renz, Emil C., assignor.)
Krechman, David, Chicago, Ill. Toy pistol. 138,085; June 13.
Ludel, William, Brooklyn, N. Y., and E. Goldstein, Brookline, Mass., assignors to L. A. Roselaar, New York, N. Y. Ring box or the like. 138,066; June 13.
Ludwig, Louis, New York, N. Y. Electric plug tap. 138,086; June 13.
Marks, John C., New York, N. Y. Handbag or similar article. 138,097; June 13.
Metropolis Bending Company. (See Puls, A. E., and Swenson, assignors.)
Miller, Jacob H., Cresson, Pa. Figure toy. 138,087; June 13.
Moblo, Myrtle. (See Moblo, Ray R. and M.)
Moblo, Ray R. and M., Bellingham, Wash. Artificial fish bait. 138,088; June 13.
Morando, Emanual R., New York, N. Y. Combination baby's high and sleeping chair. 138,067; June 13.
Negbaur, Harry, New York, N. Y. Cigarette lighter. 138,089; June 13.
Negbaur, Harry, New York, N. Y. Cigarette lighter. 138,098; June 13.
Newton, James E., Little Compton, R. I. Combined holder for smoker's articles and memorandum accessories. 138,090; June 13.
Peyrot, George, New York, N. Y. Combined wrist watch and bracelet. 138,099; June 13.
Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Metropolis Bending Company, Metropolis, Ill. Children's feeding and play table. 138,068; June 13.
Renz, Emil C., Dedham, Mass., assignor to Knight Leather Products, Inc. Wallet. 138,100; June 13.
Rodewald, Erwin M., Roselle, Ill. Airplane. 138,091; June 13.
Root, Dean. (See Benson, R. H., and Root.)
Roselaar, Louis A. (See Ludel, W., and Goldstein, assignors.)
Rosenstein Bros. (See Rosenstein, Charles, assignor.)
Rosenstein, Charles, assignor to Rosenstein Bros., Paterson, N. J. Textile fabric or similar article. 138,092; June 13.
Schlitz, Thomas R., Newark, N. J. Catball game device. 138,093; June 13.
Scott Aviation Corporation. (See Drew, John K., assignor.)
Setzer, Richard R., Kansas City, Mo. Drinking fountain for fowls. 138,103; June 13.
Sloane, Max. (See Sloane, Nathan and M.)
Sloane, Nathan and M., Brooklyn, N. Y. Handbag. 138,069; June 13.
Strauch, Harry S., Oak Park, Ill. Ash tray. 138,094; June 13.
Swenson, Edward R. (See Puls, A. E., and Swenson.)
Tanglefoot Company, The. (See Clark, Llewellynn J., assignor.)
Taylor, Lloyd M., San Leandro, Calif. Engine cylinder block. 138,104; June 13.
Thomas, Victor W., Waukegan, Ill. Distributor coil adaptor. 138,095; June 13.
Townsend, Ferdinand E., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Weighing scale. 138,096; June 13.
Victor Metal Products Corporation. (See Derham, Philip A., assignor.)
Walker, Joset, New York, N. Y. Skirt. 138,101; June 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aasland, John L. (See Hyman, B. M., and Aasland.)
Abbey, Robert G., Wynnewood, Pa. Dust precipitator. 2,351,089; June 13.
Acme Metal Goods Manufacturing Co. (See Gamache, Homer, assignor.)
Acme Visible Records, Inc. (See Hall, Marchand B., assignor.)
Agriculture of the United States of America, Claude R. Wickard, and his successors in office, Secretary of. (See Moyer, Andrew J., assignor.)
Agthe, Carl A., Zurich, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Composition to be used as a binder in road construction and its manufacture. 2,350,977; June 13.
Aigner, William J., and A. J. Schueneman, Waukegan, Ill. License plate holder. 2,350,993; June 13.
Ainsworth Manufacturing Corporation. (See Potter, Albert T., assignor.)
Air Reduction Company. (See Miller, Hoke S., assignor.)
Air Reduction Company. (See Tyrner, Joseph M., assignor.)
Aktiebolaget Elektrolux. (See Karlström, Fredrik J. R., assignor.)
Alder, Kurt, and H.-F. Rickert, Cologne, Germany; vested in the Alien Property Custodian. Condensation product. 2,351,311; June 13.
Alfery, Henry F., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Combined safety switch and limit control. 2,350,978; June 13.
Alien Property Custodian. (See Alder, K., and Rickert.)
Alien Property Custodian. (See de Lassus Saint Genies, Anne H. J.)
Alien Property Custodian. (See Herrmann, O., Wunderе, and Böttger.)
Alien Property Custodian. (See Imset, Otto.)
Alien Property Custodian. (See Kaufmann, H., and Keinke.)
Alien Property Custodian. (See Kleine, Johannes.)
Alien Property Custodian. (See Lepetit, Jean.)
Alien Property Custodian. (See Pohl, F. J., and Schmidt.)
Alien Property Custodian. (See Swarovski, Daniel.)
Alien Property Custodian. (See Ulrich, H., Ploetz, and Ferrares.)
Alien Property Custodian. (See van Llempt, J. A. M., and Leijdens.)
Alien Property Custodian. (See Wiest, Georg.)
Alien Property Custodian. (See Wirth, G., Sabel, and Laudenklos.)
Alien Property Custodian. (See Wolf, H., Kuss, Hohn, and Stietzel.)
Alien Property Custodian. (See Zintl, Eduard.)
Allen, Edgar A., Springfield, Mass., assignor to The Diamond Match Company, New York, N. Y. Container for match books and the like. 2,351,469; June 13.
Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Gate valve. 2,351,312; June 13.
Alles, Francis P., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing rubber-coated artificial filaments. 2,351,090; June 13.
Aloi, Millio F., Maywood, Calif. Well casing perforator. 2,351,179; June 13.
Amberg, Walter E., Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill. Self-dispensing package. 2,351,470; June 13.
American Can Company. (See Martin, William M., assignor.)
American Cyanamid Company. (See Howard, Kenneth L., assignor.)
American Machine and Foundry Company. (See Di Ianni, Frank, assignor.)
American Machine and Foundry Company. (See Warren, James W., assignor.)
American Seating Company. (See Orton, Merritt K., assignor.)
American Steel Foundries. (See Tack, Carl E., assignor.)
American Tag Company. (See Swett, D. M., and Van Tuyl, assignors.)
American Viscose Corporation. (See Davidson, H. O., and McDermott, assignors.)
American Viscose Corporation. (See Heymann, Karl, assignor.)
Ames, Fitz-Gerald, et al. (See Downey, James J., assignor.)
Anderson, Albert E., Holbrook, assignor to Submarine Signal Company, Boston, Mass. Recorder. 2,350,994; June 13.
Anderson, August P., assignor to Penn Electric Switch Co., Goshen, Ind. Thermostatic expansion valve. 2,351,313; June 13.

Anderson, Edward A., Chicago, Ill. Molded barrel-shaped container. 2,351,387; June 13.
Anthonisen, Robert C. (See Freeman, R. D., and Anthonisen.)
Ario, Rudolf, deceased, by S. Ario, Brooklyn, N. Y., executrix. Locking device for roll-off van bodies. 2,351,314; June 13.
Ario, Stephania, executrix. (See Ario, Rudolf.)
Armour and Company. (See Zeigler, A. H., Stringley, and Kiefer, assignors.)
Armour Research Foundation. (See Camras, Marvin, assignor.)
Armour Research Foundation. (See Camras, M., and Korzon, assignors.)
Armstrong Cork Company. (See Berger, John L., assignor.)
Armstrong, James B. (See Thompson, A. W., and Armstrong.)
Arthur, Marion A. (See Rust, W. M., Jr., and Arthur.)
Ash, Charles S. Brake mechanism. 2,351,180; June 13.
Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Thread tension for sewing machines. 2,350,995; June 13.
Atkinson, Warren H., Mount Lebanon, Pa., and H. W. Collins, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation. Forming pipe coverings. 2,350,996; June 13.
Atlantic Elevator Company. (See Borden, Joseph H., assignor.)
Atlas Powder Company. (See Brown, Kenneth R., assignor.)
Atwood, Charles T. (See Maxwell, B. L., and Atwood.)
Autographic Register Company. (See Schultz, Frank, assignor.)
Automatic Electric Laboratories, Inc. (See Henrikson, Oscar W., assignor.)
Avery, Harold T., De W. M. Grimm, and F. N. Schwend, Oakland, Calif., assignors to Marchant Calculating Machine Company. Calculating machine. 2,350,979; June 13.
Bacon, Louis. (See Yarmolowich, William C., assignor.)
Bahnson, Agnew H., Jr., Winston-Salem, N. C. Humidifier unit. 2,350,997; June 13.
Bailey, Stanley J., Snyder, assignor to Spencer Lens Company, Buffalo, N. Y. Adjusting and securing prisms. 2,351,471; June 13.
Bailey, William A., Jr. (See McAllister, S. H., and Bailey.)
Baker, J. W. (See Harless, Roy G., assignor.)
Baltimore Paper Box Company, The. (See Ferguson, George K. S., assignor.)
Bangasser, Louis W., assignor to Micro Switch Corporation, Freeport, Ill. Electric switch construction. 2,351,181; June 13.
Bank of America National Trust and Savings Association et al., executors. (See Replogle, Daniel B.)
Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Ink fountain. 2,351,315; June 13.
Barr, Peter J., Twickenham, England. Apparatus for treating solids in fluids. 2,351,091; June 13.
Barr, Walter A. (See Griffith, C. P., and Barr.)
Bateman, Alva W., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating fabric and product produced thereby. 2,351,182; June 13.
Battle, Jack L. (See Jessen, F. W., and Battle.)
Bauer, Len W., Paterson, N. J., assignor to General Box Company, Chicago, Ill. Lock end wire-bound shipping container. 2,351,092; June 13.
Baxter, William R., Garfield Heights, assignor to The Empire Plow Company, Cleveland, Ohio. Agricultural soil working tool. 2,351,388; June 13.
Beach, Frederick H., Denville, N. J. Pin spreader. 2,350,998; June 13.
Beckley, Charles O., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cutter. 2,351,093; June 13.
Beckman, Gustaf S., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 2,351,472; June 13.
Bedard, Roy T., Escanaba, Mich. Mechanical movement. 2,351,389; June 13.
Beecher, Milton F. (See Jeppson, G. N., and Beecher.)
Belrise, John C., Dayton, Ohio. Airplane towing means. 2,350,999; June 13.
Bell Telephone Laboratories, Incorporated. (See Bouton, G. M., Phipps, and Schumacher, assignors.)
Bell Telephone Laboratories, Incorporated. (See Compton, Kenneth G., assignor.)

Bell Telephone Laboratories, Incorporated (See Gent, Edgar W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Gray, Frank, assignor.)
Bell Telephone Laboratories, Incorporated. (See Kent, Robert J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Myers, Oscar, assignor.)
Bell Telephone Laboratories, Incorporated. (See Newby, Neal D., assignor.)
Bell Telephone Laboratories, Incorporated. (See Seibel, Charles F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Shann, Oscar A., assignor.)
Bendix Aviation Corporation. (See Jandasek, Joseph, assignor.)
Bendix Aviation Corporation. (See Karey, Romuald, assignor.)
Bendix Aviation Corporation. (See Neuner, Martin, assignor.)
Bendix-Westinghouse Automotive Air Brake Company. (See Vorech, Stephen, assignor.)
Benito y de la Rosa, M. and D. Clavijo y Garcia, Habana, Cuba. Resilient wheel for vehicles. 2,350,980; June 13.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor-mounted implement. 2,351,473; June 13.
Benning, Anthony F., Woodstown, N. J., and J. D. Park, assignors to Kinetic Chemicals, Inc., Wilmington, Del. Preparing carbon tetrafluoride. 2,351,390; June 13.
Berger, George C., Waubun, Minn. Land mine. 2,351,474; June 13.
Berger, John L., Columbia, assignor to Armstrong Cork Company, Lancaster, Pa. Method and apparatus for shaping and shearing sheet materials. 2,351,475; June 13.
Bergstrom, Herman A., Albany, N. Y., and W. V. Wirth, Woodstown, N. J., assignors to E. I du Pont de Nemours & Company, Wilmington, Del Manufacturing 1,3-isoquinolinediols. 2,351,391; June 13.
Bescherer, Palmer, assignor to York Safe and Lock Company, York, Pa. Door for bomb and gas resisting shelters, buildings, and the like. 2,350,981; June 13.
Best, Cyril. (See Molins, D. W., Best, and Powell.)
Bethlehem Steel Company. (See Hammeren, Hans, assignor.)
Bilofsky, Maxwell M. (See Warsher, Adolph, assignor.)
Biner, George M., Los Angeles, Calif. Filling apparatus. 2,351,392; June 13.
Birch, Raymond E. (See Harvey, F. A., and Birch.)
Blackburn, Luther A., Huntington Park, Calif. Long stroke deep oil well pumping jack unit. 2,351,183; June 13.
Blaker, David G., Webb City, Okla., assignor to Phillips Petroleum Company. Chromium oxide catalyst. 2,351,094; June 13.
Blanchon, Louis C., assignor to Meyer Koulish Co. Inc., New York, N. Y. Polishing machine for "V" jewels. 2,351,095; June 13.
Blue, Lebert E., Teaneck, N. J., assignor to Transit Research Corporation, New York, N. Y. Heating and ventilating system for car bodies. 2,351,096; June 13.
Blum, Henry S. (See Lakhovsky, George, assignor.)
Boeringer, Ralph, University City, assignor to Wagner Electric Corporation, St. Louis, Mo. Transformer anchoring means. 2,351,097; June 13.
Bohlman, George J., Somerville, Mass. Dispensing apparatus. 2,351,393; June 13.
Boldt, Werner F., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo., Hydraulic actuating system. 2,351,098; June 13.
Boone, Paul D., Washington, D. C. Vegetable oil refining. 2,351,184; June 13.
Borden Company, The. (See Corwin, J. F., and White, assignors.)
Borden Company, The. (See White, Robert C., assignor.)
Borden, Henry M., Minneapolis, Minn. Applicator. 2,351,476; June 13.
Borden, Joseph H., Philadelphia, Pa., assignor to Atlantic Elevator Company. Motor control system. 2,351,316; June 13.
Borg-Warner Corporation. (See Carmagua, Harold E., assignor.)
Borg-Warner Corporation. (See Conkle, Carl J., assignor.)
Borg-Warner Corporation. (See Simpson, John M., assignor.)
Borst, Theodore E., Clinton, N. Y., assignor to S. W. Meek, Greenwich, Conn. Method and composition of growing plants with solutions. 2,350,982; June 13.
Boterweg, Dirk, and F. C. W. Slooff, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y. Wireless transmitting or receiving set. 2,351,185; June 13.
Böttger, Hans. (See Herrmann, O., Wunderer, and Böttger.)
Bouton, George M., Madison, G. S. Phipps, Chatham, and E. E. Schumaher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Solder alloy. 2,351,477; June 13.
Bowser, S. F., Company. (See Griffith, C. P., and Barr, assignors.)
Boyle, Thomas, Detroit, Mich. Ship. 2,351,478; June 13.
Boyles, Ralph R., and E. A. Wilhelm, assignors to Waterous Company, St. Paul, Minn. Centrifugal pump. 2,350,983; June 13.
Brecht, Winston A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine-driven locomotive apparatus. 2,351,479; June 13.
Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Pot type burner and delivering secondary air thereto. 2,351,186; June 13.
Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Foraminous baffle for pot-type burners. 2,351,480; June 13.
Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Foraminous pilot baffle for pot type burners. 2,351,481; June 13.
Brelsford, Harry E., Birmingham, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Liquid level gauge. 2,351,099; June 13.
Brelsford, Harry E., Birmingham, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Prismatic accumulator gauge. 2,351,100; June 13.
Brelsford, Harry E., Birmingham, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Liquid level indicator. 2,351,101; June 13.
Brickner, Arthur J. (See Kropf, H. W., and Brickner.)
Brickner-Kropf Machine Company. (See Kropf, H. W., and Brickner, assignors.)
Bristol, Carlton W., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Multiple-point connecting device. 2,351,394; June 13.
Bristol Company, The. (See Bristol, Carlton W., assignor.)
Britton, Edgar C., and M. E. Huscher, assignors to The Dow Chemical Company, Midland, Mich. Selective chlorination of propylene in the presence of acetylenes. 2,350,984; June 13.
Britton, Edgar C., and F. L. Taylor, assignors to The Dow Chemical Company, Midland, Mich. Polymeric vinylidene chloride composition. 2,351,102; June 13.
Broder, Harry, New York, N. Y. Lipstick container-dispenser. 2,351,395; June 13.
Broms, Allan, Whitestone, Long Island, N. Y. Film developing tank and method. 2,351,396; June 13.
Brown, Carl D., Hopedale, Mass., assignor to Draper Corporation. Picker check for looms. 2,351,188; June 13.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Shuttle checking means. 2,351,189; June 13.
Brown, Cicero C., and J. J. Hastik, assignors to Brown Oil Tools, Inc., Houston, Tex. Pipe cutter. 2,351,187; June 13.
Brown, Harold M. (See George, E. D., and Brown.)
Brown Instrument Company, The. (See Ullman, R., and Moore, assignors.)
Brown, Kenneth R., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Solution for the preparation of rayon. 2,350,985; June 13.
Brown Oil Tools, Inc. (See Brown, C. C., and Hastik, assignors.)
Brown, Oliver H., Waupaca, Wis. Sight device for archery bows. 2,351,103; June 13.
Brown, Ralph L., Swarthmore, Pa., and R. E. Plump, Haddonfield, N. J., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Making 2,2,3 trichloro- and tribromo-alkanal-1 compounds and the hydrates thereof. 2,351,000; June 13.
Brown, Robinson W. (See Miller, E. L., and Brown.)
Bruning, Charles, Company. (See Hruby, Joseph H., assignor.)
Buchet, Conrad R., assignor of one-third to D. M. Dowding and one-third to J. C. Tyler, Los Angeles, Calif. Vacuum operated counterbalance. 2,351,397; June 13.
Buchet, Conrad R., assignor of one-third to D. M. Dowding and one-third to J. C. Tyler, Los Angeles, Calif. Hydrovacuumatic balance. 2,351,398; June 13.
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Suspension for multiwheel vehicles. 2,351,001; June 13.
Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)
Budd Wheel Company. (See Ledwinka, Joseph, assignor.)
Bullock, Laurie H., et al, executors. (See Replogle, Daniel B.)
Burdick, Harry J., McCombs, Anaheim, Calif. Valve. 2,350,988; June 13.
Burlin, Leslie H., Valparaiso, Ind., assignor to Milton J. Sturm, Evanston, doing business as Milton Sturm & Company, Chicago, Ill. File rack. 2,351,571; June 13.
Burnett, Burton F. (See Hipple, J. L., Dewey, and Burnett.)
Burton, Gus, Wadley, Ga. Emergency landing runway. 2,351,002; June 13.
Buxton, Incorporated. (See Harvey, Robert P., assignor.)
Cameron Iron Works. (See Allen, Herbert, assignor.)
Camerota, Louis A., Burlington, assignor to Florence Pipe Foundry & Machine Company, Florence, N. J. Hydraulic press system. 2,351,317; June 13.
Campbell, Donald J., Spring Lake, Mich. Drying cores and molds. 2,351,482; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording. 2,351,004; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recorder. 2,351,005; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording head. 2,351,006; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording head. 2,351,007; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Neutralizing inductive disturbances in magnetic reproducers. 2,351,008; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Combination oscillator coil and erasing head for magnetic recorders. 2,351,009; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Controlling high frequency voltage in magnetic recorder heads. 2,351,010; June 13.

Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Energizing magnetic recorder heads. 2,351,011; June 13.

Camras, Marvin, and W. Korzon, assignors to Armour Research Foundation, Chicago, Ill. Recording and reproducing of vibrations. 2,351,003; June 13.

Caracciolo, Felix. (See Caracciolo, Joseph P., F., and G.)

Caracciolo, Genarro. (See Caracciolo, Joseph P., F., and G.)

Caracciolo, Joseph P., F., and G.; said J. P. Caracciolo, assignor to L. C. Caracciolo, Trenton, N. J. Photographic apparatus. 2,351,399; June 13.

Caracciolo, Lucy C. (See (Caracciolo, Joseph P., assignor), and F. and G.)

Carew, Herman, Easton, Pa., assignor to Dixie Cup Company. Container and closure cap therefor. 2,351,318; June 13.

Carlisle, Richard W., assignor to Sonotone Corporation, Elmford, N. Y. Microphone. 2,351,400; June 13.

Carlson, Oscar F., Kenilworth, Ill. Pressure and temperature relief valve. 2,351,190; June 13.

Carnagua, Harold E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,351,483; June 13.

Carpenter, Albert J., Jr., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Ink fountain drive. 2,351,012; June 13.

Carpenter, Albert J., Jr., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Printing press. 2,351,013; June 13.

Carpenter, Herbert L., Brooklyn, N. Y. Container and constricting rim therefor. 2,351,484; June 13.

Carrier Corporation. (See Hanson, Lars, assignor.)

Carter Carburetor Corporation. (See Ewart, W. M., and Klasey, assignors.)

Carter, Perry E., Guilford, Mo. Combined push rake and stacker. 2,351,104; June 13.

Casali, Anthony J., Canton, Ohio. Offset keyway gauge. 2,351,105; June 13.

Case, J. I., Company. (See Rutter, Alvah E., assignor.)

Castings Patent Corporation. (See Hagaemeyer, Henry F., assignor.)

Celanese Corporation of America. (See Whitehead, William, assignor.)

Chambers, James O., Fort Worth, Tex. Bed lift. 2,351,106; June 13.

Champion Spark Plug Company. (See Jeffery, Joseph A., assignor.)

Charland, George, Sandpoint, Idaho. Pole incising mechanism. 2,351,401; June 13.

Charnysh, Maurice, Meriden, Conn. Holder for thermometers. 2,351,107; June 13.

Chase, Leland H., Port Washington, and L. C. Spenard, Brooklyn, assignors to Holmes Electric Protective Company, New York, N. Y. Stylus operating means. 2,351,319; June 13.

Chemical Enterprises, Inc. (See Hahne, Frederick E., assignor.)

Chicago Metal Hose Corporation. (See Fentress, D. W., and Hughes, assignors.)

Chicago Pneumatic Tool Company. (See Miller, E. L., and Brown, assignors.)

Childs, William L., Houston, Tex., J. F. Shaw, Los Angeles, Calif., and W. B. Noble, assignors to Reed Roller Bit Company, Houston, Tex. Rock bit. 2,351,320; July 13.

Chrysler Corporation. (See Pennington, Gordon R., assignor.)

Chrysler Corporation. (See Ross, Albert W., assignor.)

Cities Service Oil Company. (See Lembcke, Richard E., assignor.)

Cities Service Oil Company. (See Morgan, John D., assignor.)

Clark, Ernest E., Lubbock, Tex. Splicing clamp. 2,351,402; June 13.

Clark, Ernest E., Lubbock, Tex. Shock cord installation tool. 2,351,403; June 13.

Clavijo y Garcia, Delina. (See Benito y de la Rosa, M., and Clavijo y Garcia.)

Clayton, William J. (See Svendsen, E. C., and Clayton.)

Clopay Corporation. (See Thexton, Arthur L., assignor.)

Coe, Eric R. C. (See Connery, A. F., and Coe.)

Colley, Russell S., Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Patch applying apparatus. 2,351,404; June 13.

Collings, William R., assignor to The Dow Chemical Company, Midland, Mich. Making highly glazed film coatings. 2,350,987; June 13.

Collins & Aikman Corporation. (See Hiers, Glen S., assignor.)

Collins, Arnold M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Mercaptan modified polymeric derivatives of nonbenzenoid acetylene polymers and making same. 2,351,108; June 13.

Collins, Charles P., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Deflecting drill bit. 2,350,986; June 13.

Collins, Howard W. (See Atkinson, W. H., and Collins.)

Colotyle Corp. (See Hobbs, Frank, assignor.)

Compton, Kenneth G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of electrolytic condensers. 2,351,321; June 13.

Compton, W. H., Shear Company, The. (See Dalley, Charles J., assignor.)

Conkle, Carl J., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Control device. 2,351,485; June 13.

Connell, James J., Chicago, Ill. Inserted tooth cutter. 2,351,491; June 13.

Connery, Alder F., Great Neck, N. Y., and E. R. C. Coe, Chatham, N. J., assignor to Postal Telegraph-Cable Company, (New York), New York, N. Y. Alarm for synchronous telegraph circuits. 2,351,014; June 13.

Consolidated Car-Heating Company. (See Oakley, G. E., and Griffin, assignors.)

Constable, James M., Baltimore, Md., and R. W. Stamm, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. X-ray exposure system. 2,351,486; June 13.

Cooney, Edward W., Woodstock, Ill., assignor to International Harvester Company. Oven. 2,351,487; June 13.

Cooper, Benjamin, Jersey City, N. J. Toll checking system. 2,351,405; June 13.

Cooper, Hugh S., assignor of one-half to F. H. Wilson, Cleveland, Ohio. Producing magnesium. 2,351,488; June 13.

Cooper, Hugh S., assignor of one-half to F. H. Wilson, Cleveland, Ohio. Metallurgical furnace. 2,351,489; June 13.

Cooper, Hugh S., assignor of one-half to F. H. Wilson, Cleveland, Ohio. Terminal for vacuum-type furnaces. 2,351,490; June 13.

Coppus Engineering Corporation. (See Gibson, Carl W., assignor.)

Corwin, John F., and R. C. White, Bainbridge, assignors to The Borden Company, New York, N. Y. Bottle labeling adhesive. 2,351,109; June 13.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Cowles Company, The. (See Cowles, Edwin, assignor.)

Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Method and apparatus for treating paper stock. 2,351,492; June 13.

Craig, Burnie J., Los Angeles County, Calif. Transmission. 2,350,989; June 13.

Craig, Burnie J., Los Angeles County, Calif. Hydraulic medium. 2,350,990; June 13.

Crake, Wilfred S. E., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Bottom hole regulator. 2,351,322; June 13.

Cream City Trimming Co. (See Pike, John E., assignor.)

Crecelius, Samuel B. (See Rheineck, A. E., and Crecelius.)

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Heterodyne elimination circuit. 2,351,191; June 13.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver. 2,351,192; June 13.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation detector circuit. 2,351,193; June 13.

Crowley, Clyde A., Chicago, and G. H. Goodyear, Wilmette, assignors to The Huey Co., Chicago, Ill. Blueprint sensitizer. 2,350,991; June 13.

Cummins, Walter E., Santa Maria, and W. W. Stapp, Long Beach, Calif. Electrochemical value recovery apparatus. 2,350,992; June 13.

Cunningham, Marion M. (See Luxengerger, E. A., Erich, and Cunningham.)

Curry, Joseph G., Austin, Tex. Extruder. 2,351,493; June 13.

Cutler-Hammer, Inc. (See Hodgson, Howard E., assignor.)

Dacar Chemical Products Company, The. (See Stone, N. G., and Holliday, assignors.)

Dalley, Charles J., Maplewood, assignor to The W. H. Compton Shear Company, Newark, N. J. Footpower snip. 2,351,406; June 3.

Daniels, Claude H., Greenwich, Conn., and M. P. Foy, Endicott, N. Y. Shoe. 2,351,323; June 13.

Davenport, Emerson L., Grand Rapids, Mich. Blueprint machine. 2,351,251; June 13.

David, Roger H., St. Paul, Minn. Shoe-shining kit. 2,351,407; June 13.

Davidson, Hobart O., Swarthmore, and H. J. McDermott, Prospect Park, Pa., assignors to American Viscose Corporation, Wilmington, Del. Apparatus for liquid treatment of filamentary material. 2,351,110; June 13.

Davies, Arthur E., deceased, by C. Herman, administrator, assignor of twenty per cent to F. P. Shadden, Los Angeles, Calif., and eighty per cent to S. A. Davies. Swivel mechanism for seats. 2,351,194; June 13.

Davies, Shirley A., et al. (See Davies, Arthur E., assignor.)

Davis, Edward A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Assembling strip material. 2,351,111; June 13.

Davis Engineering Corporation. (See Thompson, William H., assignor.)

Davison, Robert L., New York, N. Y. Building construction. 2,351,015; June 13.

Day, Jabe. Courtenay, British Columbia, Canada. Chain saw teeth. 2,351,112; June 13.

Dayton, Victor. (See Farber, E., Dayton, and Wallerstein.)

Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Electrical control system. 2,351,016; June 13.

De Beaumont, Pierre S., Grosse Pointe, assignor to Packard Motor Car Company, Detroit, Mich. Indicating system. 2,351,408; June 13.

De Becker Remy, Marc, Detroit, Mich. Plastic compound. 2,351,149; June 13.

Deere & Company. (See Oehler, Alvin W., assignor.)

Deere & Company. (See Silver, Walter H., assignor.)

Deere & Company. (See White, Charles H., assignor.)

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,351,017; June 13.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,351,018; June 13.

Delano, Chauncey L. (See Smiley, G., and Delano.)

De Lassus Saint Genies, Anne H. J., Versailles, France; vested in the Alien Property Custodian. Color film. 2,351,019; June 13.

Devoe & Raynolds Company. (See Rheineck, A. E., and Crecelius.)

De Wall, Charles H., Orange, N. J. Gas mixing device. 2,351,494; June 13.

Dewey, Clarence L., Elkhart, Ind. Machine for inturning tube ends. 2,351,020; June 13.

Dewey, Frederick L. (See Hipple, J. L., Dewey, and Burnett.)

Deyrup, Alden J., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Enamel. 2,351,252; June 13.

Diamond Match Company, The. (See Allen, Edgar A., assignor.)

Diamond Power Specialty Corporation. (See Breisford, Harry E., assignor.)

Diamond Power Specialty Corporation. (See Glinn, R. J., and Handoll, assignors.)

Diamond Power Specialty Corporation. (See Thomas, W. P., assignor.)

Dick, Winfred O., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Commutator assembly. 2,351,021; June 13.

Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Arylaminoketo compound and preparation. 2,351,409; June 13.

Di Ianni, Frank, Brooklyn, N. Y., assignor to American Machine and Foundry Company. Positive tobacco conveyer. 2,351,410; June 13.

Distillers Company Limited, The. (See Mair, Hugh, assignor.)

Distillers Company Limited, The. (See Staudinger, H. P., and Tuerck, assignors.)

Dixie Cup Company. (See Carew, Herman, assignor.)

Dodd, Arthur E., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical control apparatus. 2,351,495; June 13.

Donelson, William W., Boston, and J. W. Downey, Newton Center, assignors to The Federal Flooring Corporation, Boston, Mass. Flooring. 2,351,022; June 13.

Doran Brothers, Incorporated. (See Schultze, Paul.)

Doran, John C. (See Schultze, Paul, assignor.)

Doughty, Howard W., Jr., Westfield, Mass., assignor to Tubize Chatillon Corporation, New York, N. Y. Thread-winding apparatus. 2,351,411; June 13.

Douglas Aircraft Company. (See Kleinhans, E. S., and Dunlap, assignors.)

Dow Chemical Company, The. (See Britton, E. C., and Huscher, assignors.)

Dow Chemical Company, The. (See Britton, E. C., and Taylor, assignors.)

Dow Chemical Company, The. (See Collings, William R., assignor.)

Dow Chemical Company, The. (See Freeman, R. D., and Anthonisen, assignors.)

Dow Chemical Company, The. (See Hanson, Alden W., assignor.)

Dowd, Erith M., and C. S. Johnston, deceased, by C. L. Johnston, Amarillo, Tex., independent executrix. Grass stripper. 2,351,412; June 13.

Dowding, Darrell M., et al. (See Buchet, Conrad R., assignor.)

Downey, James J., San Mateo, assignor of twenty-five percent to J. J. Downey, and twenty-five percent to F. Ames, San Francisco, Calif. Armored observation port. 2,351,253; June 13.

Downey, John W. (See Donelson, W. W., and Downey.)

Downey, Joseph J., et al. (See Downey, James J., assignor.)

Draper Corporation. (See Brown, Carl D., assignor.)

Draper Corporation. (See Villani, Antonio, assignor.)

Dreyling, Alfred, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fingernail enamel remover composition. 2,351,195; June 13.

Dunham, James V., Southampton, Pa. Chronograph. 2,351,023; June 13.

Dunlap, David E. (See Kleinhans, E. S., and Dunlap.)

Duplex Printing Press Company, The. (See Carpenter, Albert J., Jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Alles, Francis P., assignor.)

Du Pont, E. I., de Nemours & Company. (See Bateman, Alva W., assignor.)

D. Pont, E. I., de Nemours & Company. (See Bengstrom, H. A., and Wirth, assignors.)

Du Pont, E I., de Nemours & Company. (See Collins, Arnold M., assignor.)

Du Pont, E. I., de Nemours & Company. (See Deyrup, Alden J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Dreyling, Alfred, assignor.)

Du Pont, E. I., de Nemours & Company. (See Fox, Arthur L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hanford, William E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Salisbury, Leroy F., assignor.)

Du Pont, E. I., de Nemours & Company. (See Segel, Joseph, assignor.)

Du Pont, E. I., de Nemours & Company. (See Sonnichsen, Harold M., assignor.)

Du Pont, E. I., de Nemours & Company. (See Ware, Virgil W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Weinmayr, Viktor, assignor.)

Du Pont, E. I., de Nemours & Company. (See Woodbury, Clifford A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Fuller, Richard B., assignor.)

E. C. D. Limited. (See Evans, David J., assignor.)

Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)

Eastman Oil Well Survey Company, et al. (See Collins, Charles P., assignor.)

Eastman Oil Well Survey Corporation, et al. (See Collins, Charles P., assignor.)

Ebelke, William H., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Thiazyl sulphenamide derivatives. 2,351,496; June 13.

Eisemann Corporation. (See Tabb, Warner T., assignor.)

Electric Heat Control Company. (See Makuh, George, assignor.)

Electric & Musical Industries Limited. (See Metcalfe, C., and Parrish, assignors.)

Elmendorf, Duryea E., Cleveland, Ohio, assignor to General Electric Company. Electric discharge device. 2,351,254; June 13.

Emanuel, Amy, Asheville, N. C. Practice typewriter. 2,351,324; June 13.

Empire Plow Company, The. (See Baxter, William R., assignor.)

English, John C., assignor to Johnson Gas Appliance Company, Cedar Rapids, Iowa. Ignition means for fluid fuel burners. 2,351,325; June 13.

Erbguth, Paul F. K., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Predetermining system. 2,351,326; June 13.

Erich, Herbert C. (See Luxenberger, E. A., Erich, and Cunningham.)

Evans, David J., Tonbridge, assignor to E. C. D. Limited, Tonbridge Kent, England. Water purification apparatus. 2,351,113; June 13.

Evans, Theodore W. (See Marple, K. E., and Evans.)

Evans, Theodore W., and K. E. Marple, Oakland, assignors to Shell Development Company, San Francisco, Calif. Glycerine aryl methyl ethers. 2,351,024; June 13.

Ewart, William M., Webster Groves, and J. H. Klasey, assignors to Carter Carburetor Corporation, St. Louis, Mo. Testing carburetors. 2,351,027; June 13.

Ewing, Edwin C., assignor to Zenith Radio Corporation, Chicago, Ill. Thermionic tube. 2,351,026; June 13.

Ex-Cell-O Corporation. (See Stewart, Gilbert, assignor.)

Farber, Eduard, New Haven, Conn., V. Dayton and J. S. Wallerstein, assignors to The Overly Bio-Chemical Research Foundation, Inc., New York, N. Y. Treating fermented liquors for recovery of glycerol. 2,351,413; June 13.

Farm Tools, Inc. (See Warne, Frederick C., assignor.)
Farmer, Harold O., assignor to Alan Muntz & Company Limited, Hounslow, England. Fuel injection pump. 2,351,414; June 13.
Farrell, Joseph E., Toms River, N. J., assignor to National Engineering Foundation, Inc., Washington, D. C. Horizotal burner. 2,351,115; June 13.
Farrell, William J., Parlin, N. J., assignor to Hercules Powder Company, Wilmington, Del. Grid support. 2,351,415; June 13.
Fearon, Robert E., assignor to Well Survey's, Incorporated, Tulsa, Okla. Well surveying method and apparatus. 2,351,028; June 13.
Federal Electric Company. (See Kepp, Carl J., assignor.)
Federal Flooring Corporation, The. (See Donelson, W. W., and Downey, assignors.)
Federal-Mogul Corporation. (See Meyer, Theodore F. W., assignor.)
Feichter, Harold R., assignor to United States Quarry Tile Company, Canton, Ohio. Spark plug manufacture. 2,351,029; June 13.
Fentress, David W., Barrington, Ill., and S. J. Hughes, Belvedere Gardens, Calif., assignors to Chicago Metal Hose Corporation, Maywood, Ill. Coupling structure. 2,351,416; June 13.
Ferguson, George K. S., Wilkinsburg, Pa., assignor to The Baltimore Paper Box Company, Baltimore, Md. Carton. 2,351,417; June 13.
Fernández, Fernando, Mexico City, Mexico. Intaglio printing apparatus. 2,351,030; June 13.
Ferrares, Oskar. (See Ulrich, Ploetz, and Ferrares.)
Finnigan, Charles W. (See Mountjoy, G., and Finnigan.)
Fischer, Albert C., Chicago, Ill. Apparatus for joining spaced elements. 2,351,255; June 13.
Fischer, Albert C., Chicago, Ill. Fertilizer distribution. 2,351,256; June 13.
Florence Pipe Foundry & Machine Company. (See Camerota, Louis A., assignor.)
Flournoy, Algernon F., Monroe, assignor to R. S. Robertson, Shreveport, La. Yarn and spool holder. 2,351,418; June 13.
Fomeen, Basil N., Los Angeles, Calif. Musical instrument. 2,351,497; June 13.
Formhals, Calvin, Smithfield, Ill. Multiple barrel gun. 2,351,257; June 13.
Foster, Warren D. (See Wilson, O. W., and Foster.)
Fowler, Donald E., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Coating sheet material. 2,351,498; June 13.
Fox, Arthur L., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reduction of organic compounds. 2,351,196; June 13.
Foy, Martin P. (See Daniels, C. H., and Foy.)
Francis, Joseph N., Woburn, Mass., assignor to Sattley Company, Detroit, Mich. Coin sorting machine. 2,351,197; June 13.
Franklin, William B. (See Smith, D. A., and Franklin.)
Frankwich, Alexander C., and G. A. Seeley, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Article assembly apparatus. 2,351,116; June 13.
Freeman, George A., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge lamp starting circuit. 2,351,499; June 13.
Freeman, Richard D., and R. C. Anthonisen, assignors to The Dow Chemical Company, Midland, Mich. Recovery of water-soluble salts of carboxyalkyl cellulose. 2,351,258; June 13.
Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Cam-actuated brake. 2,351,114; June 13.
Friedman, Samuel, Brooklyn, N. Y. Machine for cleaning fur. 2,351,198; June 13.
Froelich, George E., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Draftsman's tracing board. 2,351,031; June 13.
Fry, Samuel R., Wyomissing, assignor to The Narrow Fabric Company, West Reading, Pa. Elastic band, article of wearing apparel embodying the same and their production. 2,351,119; June 13.
Fuetterer, Charles T., Cuyahoga Falls, Ohio. Conditioning water. 2,351,259; June 13.
Fuller, Richard B., New York, N. Y., assignor to The Dymaxion Company, Inc., Wilmington, Del. Building construction. 2,351,419; June 13.
Gabor, Dennis, Rugby, England. System of photography and projection in relief. 2,351,032; June 13.
Gabor, Dennis, Rugby, England. System of projecting pictures in stereoscopic relief. 2,351,033; June 13.
Gabor, Dennis, Rugby, England. Optical system composed of lenticules. 2,351,034; June 13.
Gaertner, Moritz. (See Klett, Fred F., assignor.)
Gamache, Homer, assignor to Acme Metal Goods Manufacturing Co., Newark, N. J. Peeling implement. 2,351,327; June 13.
Garr, Donald E., and G. E. Shaad, Schenectady, N. Y., assignors to General Electric Company. Furnace control system. 2,351,420; June 13.
Geigy, J. R., A. G. (See Agthe, Carl A., assignor.)
Geigy, J. R., A. G. (See Gysin, Hans, assignor.)
General Aniline & Film Corporation. (See Trageser, Georg, assignor.)
General Box Company. (See Bauer, Len W., assignor.)
General Control Company. (See Smiley, G., and Delano.)
General Electric Company. (See Elmendorf, Duryea E., assignor.)
General Electric Company. (See Garr, D. E., and Shaad, assignors.)
General Electric Company. (See Hahn, Clarence E., assignor.)
General Electric Company. (See Hansen, Albert, Jr., assignor.)
General Electric Company. (See Haelis, George A., assignor.)
General Electric Company. (See Irons, Davison E., assignor.)
General Electric Company. (See Lemmers, Eugene, assignor.)
General Electric Company. (See Livingston, Orrin W., assignor.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Race, Hubert H., assignor.)
General Electric Company. (See Rippl, F. J., and Isaac, assignors.)
General Electric Company. (See Smith, Richard E., assignor.)
General Electric Company. (See Thayer, Richard N., assignor.)
General Electric Company. (See Wall, Alexander C., assignor.)
General Motors Corporation. (See Groomus, Albert O., assignor.)
General Motors Corporation. (See Shroyer, G. A., Gould, and Moule, assignors.)
General Motors Corporation. (See Storer, Richard M., assignor.)
Gent, Edgar W., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Air motor. 2,351,328; June 13.
George, Everett D., Ridley Park, Pa., and H. M. Brown, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Wilmington, Del. Rubber valve handling apparatus. 2,351,200; June 13.
Gerstenmaier, John H., St. Marys, assignor to Wingfoot Corporation, Akron, Ohio. Method and apparatus for making rubber torsion units. 2,351,329; June 13.
Gibson, Carl W., Linden, N. J., assignor to Coppus Engineering Corporation, Worcester, Mass. Rotary burner for gas and oil. 2,351,421; June 13.
Gillis, Randall, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring. 2,351,201; June 13.
Gleason Works. (See McMullen, Frederick E., assignor.)
Glinn, Roy J., and P. G. Handoll, London, England, assignors to Diamond Power Specialty Corporation, Detroit, Mich. Fluid heater cleaner. 2,351,117; June 13.
Goetz, Emil, Detroit, Mich. Food treating and juice extracting apparatus. 2,351,330; June 13.
Gohr, Edwin J., Summit, N. J., assignor to Standard Oil Development Company. Cracking of hydrocarbon oil. 2,351,422; June 13.
Goldberg, Mark J., Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Liquid dispensing apparatus. 2,351,331; June 13.
Goodloe, Alfred M., Montclair, assignor to Metal Textile Corporation, West Orange, N. J. Liquid straining device. 2,351,332; June 13.
Goodrich, B. F., Company, The. (See Colley, Russell S., assignor.)
Goodrich, B. F., Company, The. (See Davis, Edward A., assignor.)
Goodrich, B. F., Company, The. (See Leguillon, Charles W., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Goodyear, George H. (See Crowley, C. A., and Goodyear.)
Gould, Louis P. (See Shroyer, G. A., Gould, and Moule.)
Grant, Harry C., Jr., New York, N. Y., and W. M. Haessler, Jersey City, assignors to Specialties Development Corporation, Bloomfield, N. J. Cutoff valve. 2,351,035; June 13.
Grant, Harry C., Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J. Immersion actuator. 2,351,036; June 13.
Graver Tank & Mfg. Co. (See Welp, Edward W., assignor.)
Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron lens structure. 2,351,501; June 13.
Green, Clarence J., assignor to Norton Company, Worcester, Mass. Cam grinding apparatus. 2,351,502; June 13.
Green, Samuel G., Gray, Ga. Stabilizer for guns. 2,351,037; June 13.
Greenlee, Harry R. (See Patrick, G. C., and Greenlee.)
Griffin, Percy M. (See Oakley, G. E., and Griffin.)
Griffith, Clement P., and W. A. Barr, assignors to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Liquid dispensing apparatus. 2,351,503; June 13.
Griffith, Raymond C. (See Harrington, F. T., Griffith, and Shartle.)
Grimm, De Witt M. (See Avery, H. T., Grimm, and Schwend.)

Grooms, Albert O., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,351,038; June 13.
Guardian Electric Manufacturing Co. (See Obszarny, Theodore, assignor.)
Gulllow, Paul K., Wakefield, Mass. Model airplane glider. 2,351,504; June 13.
Gysin, Hans, assignor to J. R. Geigy A. G., Basel, Switzerland. 6-(p-aminobenzene sulphonyl)-amino-2:4-dimethylpyrimidine and its manufacture. 2,351,333; June 13.
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Coloring matters of the phthalocyanine series. 2,351,118; June 13.
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Coloring matter of the phthalocyanine series. 2,351,119; June 13.
Haessler, Walter M. (See Grant, H. C., Jr., and Haessler.)
Hagemeyer, Henry F., Chicago, Ill., assignor to Castings Patent Corporation. Dispensing mechanism. 2,351,505; June 13.
Hagemeyer, Henry F., assignor to Castings Patent Corporation, Chicago, Ill. Dispensing mechanism. 2,351,506; June 13.
Hahn, Clarence E., Euclid, Ohio, assignor to General Electric Company. Lehr. 2,351,262; June 13.
Hahne, Frederick E., assignor to Chemical Enterprises, Inc., New York, N. Y. Manufacturing thin rubber articles. 2,351,202; June 13.
Hall, Marchand B., assignor to Acme Visible Records, Inc., Chicago, Ill. Drawer or tray front. 2,351,260; June 13.
Hall, Marchand B., assignor to Acme Visible Records, Inc., Chicago, Ill. Visible index. 2,351,423; June 13.
Hall, Newton L., Long Beach, Calif. Fence post. 2,351,261; June 13.
Hallock, Robert L., Larchmont, N. Y. Vacuum cleaner. 2,351,507; June 13.
Hamilton, Hugh G., Baldwin, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electric motor control system. 2,351,508; June 13.
Hamilton Manufacturing Company. (See Froelich, George E., assignor.)
Hammeren, Hans, Bethlehem, Pa., assignor to Bethlehem Steel Company. Tank construction. 2,351,509; June 13.
Handoll, Percy G. (See Glinn, R. J., and Handoll.)
Hanford, William E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of ethylenic materials. 2,351,120; June 13.
Hannevig, Christoffer, New York, N. Y. Tires or shoes for automobiles, airplanes, and the like. 2,351,334; June 13.
Hansen, Albert, Jr., Nahant, Mass., assignor to General Electric Company. Magnetic suspension for horizontal shafts. 2,351,424; June 13.
Hanson, Alden W., assignor to The Dow Chemical Company, Midland, Mich. Making simulated woven fabric. 2,351,039; June 13.
Hanson, C. H., Company, The. (See Johnson, Helge S., assignor.)
Hanson, Lars, assignor to Carrier Corporation, Syracuse, N. Y. Fluid routing. 2,351,425; June 13.
Hanson, Milton E., Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass. Thermostatically controlled engine fan cooling system. 2,351,203; June 13.
Harbison-Walker Refractories Company. (See Harvey, F. A., and Birch, assignors.)
Harless, Roy G., Gillette, assignor of one-half to J. W. Baker, Sheridan, Wyo. Toy stick horse. 2,351,510; June 13.
Harrington, Ferris T., R. C. Griffith, Detroit, Mich., and R. A. Shartle, Rockford, Ill., assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,351,263; June 13.
Harrington, Ferris T., and J. Robinson, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,351,264; June 13.
Hart, Norman, Sutton, England. Curved structure. 2,351,121; June 13.
Hartzog, Harrison C., Port Lavaca, Tex. Boat construction. 2,351,122; June 13.
Harvey, Frederic A., Pittsburgh, and R. E. Birch, Mount Lebanon, and Harbison-Walker Refractories Company, Pittsburgh, Pa. Silica refractory. 2,351,204; June 13.
Harvey, Robert P., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key holder support for key cases. 2,351,205; June 13.
Hastik, Jaros J. (See Brown, C. C., and Hastik.)
Hattox, Erwin M. (See Voorhies, A., Jr., and Hattox.)
Hawley, Jesse G., Painted Post, N. Y. Power unit. 2,351,040; June 13.
Hawley, Jesse G., Painted Post, N. Y. Brake. 2,351,041; June 13.
Hays, Harrison L., Phillips, and J. L. Maher, Odessa, Tex., assignors to Phillips Petroleum Company. Preparing hydrocarbons for polymerization. 2,351,123; June 13.
Hayward, John A., Claremont, N. H., assignor to Sullivan Machinery Company. Cutter chain. 2,351,206; June 13.
Healis, George A., Lansdowne, Pa., assignor to General Electric Company. Electric switch. 2,351,426; June 13.
Heller, Harold S., Cleveland Heights, Ohio. Stapling machine. 2,351,042; June 13.
Heller, Harold S., Cleveland Heights, Ohio. Stapling machine. 2,351,043; June 13.
Heller, Harold S., Cleveland Heights, Ohio. Stapling machine. 2,351,044; June 13.
Heller, Harold S., Cleveland Heights, Ohio. Staple. 2,351,045; June 13.
Henderson, George T., and N. A. Ringholz, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio. Luggage box. 2,351,207; June 13.
Hendrick, John C., Wichita, Kans. Grinding tool for reseating gate valves. 2,351,124; June 13.
Henrikson, Oscar W., Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Hand telephone mounting. 2,351,125; June 13.
Henshaw, Richard C., assignor to Lord Manufacturing Company, Erie, Pa. Vibration damping mounting. 2,351,427; June 13.
Hercules Powder Company. (See Farrell, William J., assignor.)
Herman, Carrington, administrator. (See Davies, Arthur E.)
Herrmann, Otto, Wiesbaden, and A. Wunderer, and H. Böttger, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian. Making superpolyamide films. 2,351,208; June 13.
Heymann, Karl, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Dyeing vinyl polymers. 2,351,046; June 13.
Hiers, Glen S., Bala-Cynwyd, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Flocking of cotton and like fabrics. 2,351,265; June 13.
Hiers, Glen S., Bala-Cynwyd, assignors to Collins & Aikman Corporation, Philadelphia, Pa. Flocking apparatus. 2,351,266; June 13.
Highton, Alexander G., Paterson, N. J. Machine for photographically comprising type characters. 2,351,126; June 13.
Hinde & Dauch Paper Company, The. (See Henderson, G. T., and Ringholz, assignors.)
Hipple, James L., F. L. Dewey, and B. F. Burnett, Canton, Ill., assignors to International Harvester Company. Dispensing arrangement. 2,351,511; June 13.
Hobbs, Frank, assignor to Colotyle Corp., Seattle, Wash. Building construction. 2,351,209; June 13.
Hobbs, Frank, Seattle, Wash. Immersing vat. 2,351,210; June 13.
Hodgson, Howard E., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Drive for valves and the like. 2,351,211; June 13.
Hodson, Milo G., South Bend, Ind., assignor to The Kawneer Company, Niles, Mich. Muntin assembly clip. 2,351,127; June 13.
Hoepli, M. H. (See Mitchell, Henry N., assignor.)
Hohn, Hans. (See Wolf, H., Kuss, Hohn, and Stietzel.)
Holliday, Samuel W. (See Stone, N. G., and Holliday.)
Holmes Electric Protective Company. (See Chase L. H., and Spenard, assignors.)
Holmes, John E., Auburndale, Mass. Illuminated showcase. 2,351,335; June 13.
Holt, Ray G., Euclid, Ohio, assignor to Pesco Products Co. Nonchattering relief valve. 2,351,512; June 13.
Homeyer, August H. (See Wallingford, V. H., and Homeyer.)
Hooven, Frederick J., Dayton, Ohio. Bomb release system. 2,351,336; June 13.
Hotine, William, Westbury, N. Y. Automatic carrier for strip materials. 2,351,428; June 13.
Houghton, William D., Setauket, N. Y., assignor to Radio Corporation of America. Convertible demodulator circuit. 2,351,212; June 13.
Houston, Herbert W., North Hollywood, Calif. Film measuring apparatus. 2,351,337; June 13.
Howard, Kenneth L., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Tanning with D'-methoxy-D-hydroxymethyl diglycollic aldehyde. 2,351,338; June 13.
Hruby, Joseph H., Chicago, Ill., assignor to Charles Bruning Company, Inc., New York, N. Y. Cooling system for photoprinting mechanisms. 2,351,339; June 13.
Hubby, Laurence M. (See Lay, R. L., Treybig, and Hubby.)
Huebsch Manufacturing Company. (See Huebsch, Monte F., assignor.)
Huebsch, Monte F., assignor to Huebsch Manufacturing Company, Milwaukee, Wis. Drying apparatus. 2,351,429; June 13.
Huey Co., The. (See Crowley, C. A., and Goodyear, assignors).
Hughes, Ralph C., assignor to Reynolds Gas Regulator Company, Anderson, Ind. Fluid pressure regulator. 2,351,047; June 13.
Hughes, Sidney J. (See Fentress, David W.)
Hunt, John O., assignor to Mountain City Foundry and Machine Co., Greenville, S. C. Loom. 2,351,513; June 13.
Huscher, Myron E. (See Britton, E. C., and Huscher.)

Hutchinson, Fenton F., assignor to Kohler & Chase, San Francisco, Calif. Automatic voltage control system for alternators. 2,351,340; June 13.

Hutchinson, Paul, St. Louis, Mo. Dispensing device. 2,351,514; June 13.

Huthsing, Charles K., Grosse Pointe Farms, Mich. Nozzle construction. 2,351,430; June 13.

Hyman, Benjamin M., and J. L. Aasland, Moline, Ill., assignors to International Harvester Company. Corn picker. 2,351,515; June 13.

Illinois Tool Works. (See Poupitch, Ougljisa J., assignor.)

Immordino, Anthony, Deer Park, N. Y. Handbag. 2,351,341; June 13.

Imperial Chemical Industries Limited. (See Haddock, Normal H., assignor.)

Imperial Chemical Industries Limited. (See Knight, Arthur H., assignor.)

Imset, Otto, Skoyen near Oslo, Norway; vested in the Alien Property Custodian. Screen for paper stock and the like. 2,351,048; June 13.

Independent Pneumatic Tool Company. (See Kaman, Frank A., assignor.)

International Harvester Company. (See Benjamin, Bert R., assignor.)

International Harvester Company. (See Cooney, Edward W., assignor.)

International Harvester Company. (See Hipple, J. L., Dewey, and Burnett, assignors.)

International Harvester Company. (See Hyman B. M., and Aasland, assignors.)

International Harvester Company. (See Johnson, A. E. W., and Kaupke, assignors.)

International Harvester Company. (See Welty, Albert B., assignors.)

International Standard Electric Corporation. (See Deakin, Gerald, assignor.)

Irons, Davison E., Erie, Pa., assignor to General Electric Company. Shaft bearing. 2,351,431. June 13.

Irwin, George C., St. Louis, Mo. Chemical container. 2,351,267. June 13.

Isaac, Elmer B. (See Rippl, F. J., and Isaac.)

Jackson, Donald R. P., assignor to Molins Machine Company, Limited, Deptford, London, England. Signal pistol. 2,351,268; June 13.

James, William S., assignor to The Studebaker Corporation, South Bend, Ind. Transmission. 2,351,213; June 13.

Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbotransmission. 2,351,516; June 13.

Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbotransmission. 2,351,517; June 13.

Jeffery, Joseph A., Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio. Effective seal between center electrode and insulator of spark plugs. 2,351,128. June 13.

Jennings, Ode D., and E. Mihalek, assignors to O. D. Jennings & Company, Chicago, Ill. Vending machine. 2,351,432; June 13.

Jennings, O. D., & Company. (See Jennings, O. D., and Mihalek, assignors.)

Jeppson, George N., Brookfield, and M. F. Beecher, Holden, assignors to Norton Company, Worcester, Mass. Vitrified grinding wheel. 2,351,433. June 13.

Jessen, Frank W., and J. L. Battle, Houston, Tex., assignors to Standard Oil Development Company. Use of pecan hulls for treating muds. 2,351,434; June 13.

Jockel, Rudolph, Chicago, Ill., assignors to Titan Abrasives Company. Anchor stud for abrasive wheels. 2,351,129; June 13.

Johnson, Arnold E. W., Chicago, Ill., and L. H. Kaupke, Auburn, N. Y., assignors to International Harvester Company. Digger. 2,351,518; June 13.

Johnson Gas Appliance Company. (See English, John C., assignor.)

Johnston, Camma L., independent executrix. (See Dowd, E. M., and Johnston.)

Johnston, Clarence S. (See Dowd, E. M., and Johnston.)

Jones, Edwin A., Webster Groves, assignor to Majestic Manufacturing Company, St. Louis, Mo. Griddle plate. 2,351,130; June 13.

Jonsson, Helge S., Villa Park, assignor to The C. H. Hanson Company, Chicago, Ill. Marker. 2,351,519; June 13.

Kaman, Frank A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Squeeze riveter. 2,351,049; June 13.

Karey, Romuald, Agawam, Mass., assignor to Bendix Aviation Corporation, South Bend, Ind. Outboard motor. 2,351,050; June 13.

Karlström, Fredrik J. R., Bo, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Dishwasher. 2,351,342; June 13.

Katzin, Martin, and F. J. W. Schoenborn, Riverhead, N. Y., assignors to Radio Corporation of America. Transmission lines. 2,351,520; June 13.

Kaufmann, Hermann, and R. Keinke, Leuna, Germany; vested in the Alien Property Custodian. Carrying out catalytic gas reactions. 2,351,214; June 13.

Kaupke, Lee H. (See Johnson, A. E. W., and Kaupke.)

Kawneer Company, The. (See Hodson, Milo G., assignor.)

Keefer, Walter L., assignor to Pangborn Corporation, Hagerstown, Md. Abrading apparatus. 2,351,521; June 13.

Keinke, Rudolf. (See Kaufmann, H., and Keinke.)

Keiser, Bernhard. (See De Groote, M., and Keiser.)

Kelley, Benjamin F. (See Kelley, John A. L., assignor.)

Kelley, John A. L., Dallas, Tex., assignor of one-half to B. F. Kelley, Tulsa, Okla. Oil saver. 2,351,343; June 13.

Kelly-Wheaton Company. (See Wheaton, Estel O., assignor.)

Kenigson, Harry, Brooklyn, N. Y. Egg tray set. 2,351,051; June 13.

Kent, Robert J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Plug cutting tool. 2,351,435; June 13.

Kerr, Arthur N., Los Angeles, Calif., assignor to Phillips Petroleum Company. System for storage and utilization of fuel gases. 2,351,131; June 13.

Ketz, Charles T., Novelty, Ohio. Work clamp. 2,351,436; June 13.

Klefer, James M. (See Zeigler, A. H., Stingley, and Klefer.)

Kinetic Chemicals, Inc. (See Benning, A. F., and Park, assignors.)

King, Charles S., Osgood, Ind., assignor to Solid Back Brush Machinery Company, Detroit, Mich. Bristle-trimming mechanism. 2,351,344; June 13.

Kingston, Walter E., Emporium, Pa., assignor to Sylvania Electric Products, Inc. Direct-reading recording dilatometer. 2,351,572; June 13.

Kinney, John W., Jr. (See Ockrant, W., and Kinney.)

Kiscelle, John M., Detroit, Mich. Cigarette tray. 2,351,052; June 13.

Klasey, John H. (See Ewart, W. M., and Klasey.)

Kleine, Johannes, Dessau, Germany; vested in the Alien Property Custodian. Production of artificial filaments, fibers, and foils. 2,351,345; June 13.

Kleinhans, Earl S., and D. E. Dunlap, assignors to Douglas Aircraft Company, Incorporated, Santa Monica, Calif. Retractable landing gear. 2,351,215; June 13.

Klett, Fred F., Brooklyn, assignor to M. Gaertner, New York, N. Y. Apparatus for purifying liquids. 2,351,053; June 13.

Kling, Ferd R., New York, N. Y. Hat sweatband, and joining the ends thereof. 2,351,132; June 13.

Klotz, Otto H., Philadelphia, Pa. Air conditioner and air compressor. 2,351,437; June 13.

Knaak, George, Milwaukee, Wis. Control. 2,351,216; June 13.

Knapp-Monarch Company. (See Ward, Lawrence T., assignor.)

Knapp-Monarch Company. (See Weida, Millard F., assignor.)

Knight, Arthur H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Monoazo dyestuff. 2,351,133; June 13.

Kohler & Chase. (See Hutchinson, Fenton F., assignor.)

Kopp, Carl J., assignor to Federal Electric Company, Inc., Chicago, Ill. Cutting and threading tool. 2,351,217; June 13.

Korzon, William. (See Camras, M., and Korzon.)

Koulish, Meyer, assignor to Meyer Koulish Co., Inc., New York, N. Y. Machine for grinding "V" jewels. 2,351,134; June 13.

Koulish, Meyer, Co. Inc. (See Blanchon, Louis C., assignor.)

Koulish, Meyer, Co. (See Koulish, Meyer, assignor.)

Kropf, Henry W., and A. J. Brickner, assignors to Brickner-Kropf Machine Company, Muskegon Heights, Mich. Grinding wheel dresser. 2,351,269; June 13.

Krugler, Allen D., Pontiac, Mich., assignor to Phillips Petroleum Company. Pressure regulator. 2,351,135; June 13.

Krusemark, Frederick A., Chicago, Ill., assignor to The Mansfield Tire and Rubber Company, Mansfield, Ohio. Valve for safety inner tubes and the like. 2,351,054; June 13.

Kubatzky, Otto, St. Louis, Mo. Window ventilator for casements. 2,351,522; June 13.

Kuss, Ernst. (See Wolf, H., Kuss, Hohn, and Stietzel.)

Lakhovsky, Anne-Marie L., administratrix. (See Lakhovsky, George.)

Lakhovsky, George, New York, N. Y., deceased, A.-M. L. Lakhovsky, administratrix, assignor to H. S. Blum, Chicago, Ill. Tube for producing multiple wave lengths. 2,351,055; June 13.

Langer, Nicholas, New York, N. Y. Garment hanger. 2,351,523; June 13.

Laudenklos, Hans. (See Wirth, G., Sabel, and Laudenklos.)

Lay, Roy L., B. H. Treybig, Jr., and L. M. Hubby, Houston, Tex., assignors to Texaco Development Corporation, New York, N. Y. Seismic prospecting. 2,351,524; June 13.

Leary, Marshall L., Columbus, Ga. Wall construction and device therefor. 2,351,525; June 13.

Lebus, William A., assignor to Protectoseal Company of America, Inc., Chicago, Ill. Gas tank fitting. 2,351,526; June 13.

Ledwinka, Joseph, assignor to Budd Wheel Company, Philadelphia, Pa. Brake mechanism. 2,351,573; June 13.

Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method of and apparatus for depositing films. 2,351,271; June 13.

Leijdens, Pieter. (See van Liempt, J. A. M., and Liejdens.)

Lembcke, Richard E., Tallant, assignor to Cities Service Oil Company, Bartlesville, Okla. Refining low boiling alcohols. 2,351,527; June 13.

Lemmers, Eugene, Cleveland Heights, Ohio, assignor to General Electric Company. Electric discharge device and operation. 2,351,270; June 13.

Le Monde Corset Company. (See Schubert, Minna R., assignor.)

Lepetit, Jean, Clichy, France; vested in the Alien Property Custodian. Electric conductor. 2,351,056; June 13.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Sandblasting machine. 2,351,272; June 13.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Lever Brothers Company. (See Maxwell, B. L., and Atwood, assignors.)

Levy, Ludwig, New York, N. Y. Razor blade sharpener. 2,351,438; June 13.

Lewel Manufacturing Co. Inc. (See Welsch, Samuel L., assignor.)

Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Pyrolysis. 2,351,346; June 13.

Linden, John F., Caledon, Ontario, Canada. Hoe. 2,351,136; June 13.

Littlefield, Glenn C., assignor of one-half to M. H. Littlefield, and one-half to J. P. Mayo, Monterey, Calif. Runway for airports and the like and making same. 2,351,273; June 13.

Littlefield, Mary H., et al. (See Littlefield, Glenn C., assignor.)

Livingston, Orrin W., Scotia, N. Y., assignor to General Electric Company. Electric valve oscillator. 2,351,439; June 13.

Long, James W., Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph apparatus. 2,351,137; June 13.

Lord Manufacturing Company. (See Henshaw, Richard C., assignor.)

Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 2,351,218; June 13.

Luce, Richard W., Southport, Conn. Making threaded locking devices. 2,351,057; June 13.

Lueck, Frank R., Los Angeles, Calif. Nonrefillable bottle. 2,351,138; June 13.

Luneburg, Rudolf K. (See Osterberg, H., Pride, and Luneburg.)

Lupton, Elmer H., Ilchester, Md. Bottle carrier. 2,351,528; June 13.

Luten, Daniel B., Jr., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Turbine oil. 2,351,347; June 13.

Luxenberger, Eugene A., and H. C. Erich, Mishawaka, and M. M. Cunningham, South Bend, Ind., assignors to United States Rubber Company, New York, N. Y. Shaping mold. 2,351,529; June 13.

Maher, Joseph L. (See Hays, H. L., and Maher.)

Mair, Hugh, Cranford, assignor to The Distillers Company Limited, Linden, N. J. Capping machine. 2,351,348; June 13.

Mair, Hugh, Cranford, assignor to The Distillers Company Limited, Linden, N. J. Capping machine. 2,351,349; June 13.

Majestic Manufacturing Company. (See Jones, Edwin A., assignor.)

Makuh, George, assignor to Electric Heat Control Company, Cleveland, Ohio. Electrical testing. 2,351,441; June 13.

Malhiot, Eugene L., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article assembling apparatus. 2,351,276; June 13.

Mallinckrodt Chemical Works. (See Wallingford, V. H., and Homeyer, assignors.)

Mallory, Gerald D., assignor to Wingfoot Corporation, Akron, Ohio. Laminating film. 2,351,350; June 13.

Mann, Arthur S. (See Oswald, L. H., Mann, and Wahlbeck.)

Mansfield Tire and Rubber Company, The. (See Krusemark, Frederick A., assignor.)

Mantz, Harold A., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety device. 2,351,277; June 13.

Marchant Calculating Machine Company. (See Avery, H. T., Grimm, and Schwend, assignors.)

Margrave, Wilton. (See Parker, A. L., Wolfram, and Margrave.)

Marks, Alvin M., Beechhurst, N. Y. Impresser mechanism. 2,351,058; June 13.

Marmon-Herrington Company. (See Schon, Pierre, assignor.)

Marple, Kenneth E. (See Evans, T. W., and Marple.)

Marple, Kenneth E., and T. W. Evans, Oakland, assignors to Shell Development Company, San Francisco, Calif. Preparation of aryl ethers of trihydric alcohols. 2,351,025; June 13.

Martin, Glenn L., Company, The. (See Overbeke, John W., assignor.)

Martin, Stoddard B., Lakewood, Ohio. Pusher. 2,351,220; June 13.

Martin, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Filling machine. 2,351,059; June 13.

Mathews, Lee G., Los Angeles, Calif. Floor finishing machine. 2,351,278; June 13.

Matter, Albert J., Park Ridge, Ill., assignor to The Nye Tool & Machine Works. Pipe bender. 2,351,279; June 13.

Mawen Motor Corporation. (See Meyer, A. J., and Taylor, assignor.)

Maxwell, Bernard L., Reading, and C. T. Atwood, Belmont, assignors to Lever Brothers Company, Cambridge, Mass. Apparatus for dedusting comminuted soap. 2,351,351; June 13.

Mayo, Joseph P., et al. (See Littlefield, Glenn C., assignor.)

Maytag Company, The. (See Smith, Thomas R., assignor.)

McAllister, Sumner H., Lafayette, and W. A. Bailey, Jr., Oakland, assignors to Shell Development Company, San Francisco, Calif. Separation of by-products from isophorone. 2,351,352; June 13.

McCarter, William L., Hanford, Calif. Registering device for printing. 2,351,274; June 13.

McCarthy, Henry J., Danvers, Mass., assignor to Sylvania Electric Products Inc. Electric discharge lamp starting device. 2,351,440; June 13.

McCarty, Malcolm D., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Galvanometer. 2,351,353; June 13.

McCloy, Graham S., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,351,139; June 13.

McCloy, Graham S., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,351,140; June 13.

McConnel, Frederick L., Emporia, Va. Portable mast. 2,351,275; June 13.

McDermott, Henry J. (See Davidson, H. O., and McDermott.)

McGowan, Michael E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Sealing-in and molding lamp bulbs. 2,351,530; June 13.

McLauthlin, Martin B., Malden, Mass. Hoisting machine. 2,351,060; June 13.

McLean, Robert E., Fort Benning, Ga. Swing-out-of-the-way-type wall bracket. 2,351,531; June 13.

McMillan, Frank M., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Executing catalyzed vapor phase reactions. 2,351,354; June 13.

McMillan, Wallace A., Forest Hills, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Gas analysis apparatus. 2,351,532; June 13.

McMullen, Frederick E., assignor to Gleason Works, Rochester, N. Y. Gearing. 2,351,219; June 13.

McNally, James G. (See Dickey, J. B., and McNally.)

Meek, Samuel W. (See Borst, Theodore E., assignor.)

Merck & Co. (See Ruigh, William L., assignor.)

Merki, Ernest, Portland, Oreg. Blade holder. 2,351,442; June 13.

Merrett, Harry, Dairymoor, Wickham, England. Gripping and supporting device suitable for supporting vehicle wheels. 2,351,355; June 13.

Merrill, Patterson D., assignor to M. B. Skinner Company, South Bend, Ind. Saddle coupling. 2,351,141; June 13.

Metal Textile Corporation. (See Goodloe, Alfred M., assignor.)

Metcalfe, Clifford, Ruislip, and H. J. Parrish, Sidmouth, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Push button mechanism for tuning radio receivers. 2,351,443; June 13.

Meyer, André J., and R. E. Taylor, Lexington, Ky., assignors to Mawen Motor Corporation, New York, N. Y. Transmission. 2,351,061; June 13.

Meyer, Theodore F. W., Birmingham, assignor to Federal-Mogul Corporation, Detroit, Mich. Propeller inhibitor. 2,351,356; June 13.

Micro Switch Corporation. (See Bangasser, Louis W., assignor.)

Mihalek, Emery. (See Jennings, O. D., and Mihalek.)

Miller, Edward L., and R. W. Brown, Oklahoma City, Okla., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Bearing for rock bits. 2,351,357; June 13.

Miller, Hoke S., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Treating castor and similar oils. 2,351,444; June 13.

Milwaukee Gas Specialty Company. (See Alfery, Henry F., assignor.)

Milwaukee Gas Specialty Company. (See Mantz, Harold A., assignor.)

Miner, Frederick I., Providence, R. I., assignor to Welsh Manufacturing Company. Goggle. 2,351,358; June 13.

Miner, W. H., Inc. (See Lounsbury, Harvey J., assignor.)

Mitchell, Henry N., Sanford, Maine, assignor to M. H. Hoepli, New York, N. Y. Mothproofing. 2,351,359; June 13.

Mitchell, Meldon, New York, N. Y. Camouflaging method and device therefor. 2,351,142; June 13.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuit. 2,351,062; June 13.

Molins, Desmond W., C. Best, and G. F. W. Powell, assignors to Molins Machine Company, Limited, Deptford, London, England. Weighing mechanism. 2,351,533; June 13.

Molins Machine Company, Limited. (See Jackson, Donald R. P., assignor.)

Molins Machine Company, Limited. (See Molins, D. W., Best, and Powell, assignors.)

Moller, Kasper F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tool guard. 2,351,143; June 13.

Moore, Coleman B. (See Ullman, R., and Moore.)

Morgan, John D., South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y. Lubricant. 2,351,280; June 13.

Morgan, Maurice W., Goose Creek, Tex., assignor to Standard Oil Development Company. Refining mineral oils with clay. 2,351,445; June 13.

Moule, Rex E. (See Shroyer, G. A., Gould, and Moule.)

Mountain City Foundry and Machine Co. (See Hunt, John O., assignor.)

Mountjoy, Garrard, Manahasset, and C. W. Finnigan, Little Neck, Long Island, N. Y., assignors to Radio Corporation of America. Superregenerative receiver circuit. 2,351,221; June 13.

Moyer, Andrew J., Peoria, Ill., assignor to Claude R. Wickard, as Secretary of Agriculture of United States of America, and his successors in office. Gluconic acid production. 2,351,500; June 13.

Muntz, Alan, & Company Limited. (See Farmer, Harold O., assignor.)

Muskin, Charles, and B. Sheinman, New York, N. Y. Combined reclining chair and couch. 2,351,222; June 13.

Myers, Oscar, Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sender load control. 2,351,446; June 13.

Nachemov, Leonard, assignor to A. J., T. T., and N. Sossner, co-partners, doing business as Sossner Steel Stamps, New York, N. Y. Stamping machine and the like. 2,351,281; June 13.

Narrow Fabric Company, The. (See Fry, Samuel R., assignor.)

Nathan, Emanuel, Maplewood, N. J. Spectacle case. 2,351,447; June 13.

National Cash Register Company, The. (See Placke, Everett H., assignor.)

National Engineering Foundation, Inc. (See Farrell, Joseph E., assignor.)

National Screen Company. (See Williams, G. T., and Story, assignors.)

Neivert, Harry, New York, N. Y. Combined cigarette and match package. 2,351,223; June 13.

Neumer, Martin, Fairview, assignor to Bendix Aviation Corporation, Bendix, N. J. Electric apparatus. 2,351,448; June 13.

Newby, Neal D., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selecting system. 2,351,360; June 13.

Noble, Thomas, Quathiaski Cove, British Columbia, Canada. Anchor bolt. 2,351,449; June 13.

Noble, Wiley B. (See Childs, W. L., Shaw, and Noble.)

Nolan, John R., Larchmont, N. Y. Machine for reinforcing clothespins. 2,351,450; June 13.

Norcross, Austin S., Waban, Mass. Slasher squeeze roll pressure regulator. 2,351,534; June 13.

Norton Company. (See Green, Clarence J., assignor.)

Norton Company. (See Jeppson, G. N., and Beecher, assignors.)

Norton Company. (See Weinland, Hermon G., assignor.)

Nye Tool & Machine Works, The. (See Matter, Albert J., assignor.)

Nystrom, Axel C., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Marking device. 2,351,224; June 13.

Oakley, George E., and P. M. Griffin, assignors to Consolidated Car-Heating Company, Inc., Albany, N. Y. Variable angle drive mechanism. 2,351,535; June 13.

Obszarny, Thedore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Preselector. 2,351,451; June 13.

Ockrant, William, and J. W. Kinney, Jr., Cincinnati, Ohio; said Kinney assignor to said Ockrant. Removably mounting extractor shafts. 2,351,361; June 13.

Oehler, Alvin W., assignor to Deere & Company, Moline, Ill. Pickup mechanism. 2,351,144; June 13.

Ohio Citizens Trust Company, The, trustee. (See Replogle, Daniel B., assignor.)

Oil Devices. (See Breese, James L., assignor.)

Oliver Machinery Company. (See Tuthill, Howard B., assignor.)

Oliver, William H., Jr., Oakland, Calif. Microscopic slide. 2,351,282; June 13.

Orton, Merritt K., assignor to American Seating Company, Grand Rapids, Mich. Chair. 2,351,283; June 13.

Osterberg, Harold, G. E. Pride, and R. K. Luneburg, assignors to Spencer Lens Company, Buffalo, N. Y. Treating surfaces. 2,351,536; June 13.

Osterberg, Harold, G. E. Pride, and R. K. Luneberg, assignors to Spencer Lens Company, Buffalo, N. Y. Apparatus for treating surfaces. 2,351,537; June 13.

Oswald, Leslie H., Chicago, A. S. Mann, and J. H. Wahlbeck, assignors to Paramount Textile Machinery Co., Kankakee, Ill. Garment treating apparatus. 2,351,063; June 13.

Overbeke, John W., Annesle, assignor to The Glenn L. Martin Company, Baltimore, Md. Aircraft construction. 2,351,284; June 13.

Overly Bio-Chemical Research Foundation, Inc., The. (See Farber, E., Dayton, Wallerstein, assignors.)

Owens-Corning Fiberglas Corporation. (See Atkinson, W. H., and Collins, assignors.)

Packard Motor Car Company. (See de Beaumont, Pierre S., assignor.)

Pangborn Corporation. (See Keefer, Walter L., assignor.)

Paramount Textile Machinery Co. (See Oswald, L. H., Mann, and Wahlbeck, assignors.)

Park, Joseph D. (See Benning, A. F., and Park.)

Parker Appliance Company, The. (See Parker, Arthur L., assignor.)

Parker Appliance Company, The. (See Parker, A. L., Wolfram, and Margrave, assignors.)

Parker, Arthur H. (See Sebell, Harry, assignor.)

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Coupling for tubes. 2,351,362; June 13.

Parker, Arthur L., J. N. Wolfram, and W. Margrave, assignors to The Parker Appliance Company, Cleveland, Ohio. Coupling for tubes. 2,351,363; June 13.

Parrill, Easton E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for control of highway crossing signals. 2,351,538; June 13.

Parrish, Harry J. (See Metcalfe, C., and Parrish.)

Parsons, John B., Toledo, Ohio. Window regulator mechanism. 2,351,285; June 13.

Pash, Robert, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Pantograph. 2,351,452; June 13.

Patrick, Grover C., and H. R. Greenlee, assignors to The Studebaker Corporation, South Bend, Ind. Engine and fan assembly. 2,351,225; June 13.

Paull, William H., Highland Park, Ill. Toy boat or glider. 2,351,542; June 13.

Pearl, William A., Chicago, assignor to Whiting Corporation, Harvey, Ill. Apparatus for cleaning castings or metal parts. 2,351,453; June 13.

Pearson, Martin, Pontiac, Mich. Stilt. 2,351,145; June 13.

Peck, William F., Snyder, assignor to Spencer Lens Company, Buffalo, N. Y. Polarimeter apparatus. 2,351,539; June 13.

Pelikan, John M., Chicago, Ill., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,351,540; June 13.

Pengilly, Lewis; Loma Mar, Calif. Engine fuel pump. 2,351,064; June 13.

Penn Electric Switch Co. (See Anderson, August P., assignor.)

Pennington, Gordon R., Bloomfield Hills, assignor to Chrysler Corporation, Highland Park, Mich. Fluid coupling. 2,351,286; June 13.

Pennsylvania Salt Manufacturing Company, The. (See Brown, R. L., and Plump, assignors.)

Pereles Bros., Inc. (See Pereles, Joseph L., assignor.)

Pereles, Joseph L., assignor to Pereles Bros. Inc., Milwaukee, Wis. Apparatus for forming shoe heels. 2,351,454; June 13.

Pernhall, William P., Atlantic City, N. J. Atomizer. 2,351,226; June 13.

Pesco Products Co. (See Holt, Ray G., assignor.)

Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)

Petrone, Robert, Chicago, Ill. Stopper for nonrefillable receptacles. 2,351,227; June 13.

Petruccione, Vincenzo, Amsterdam, N. Y. Loom. 2,351,364; June 13.

Phillips Petroleum Company. (See Blaker, David G., assignor.)

Phillips Petroleum Company. (See Hays, H. L., and Maher, assignors.)

Phillips Petroleum Company. (See Kerr, Arthur N., assignor.)

Phillips Petroleum Company. (See Krugler, Allen D., assignor.)

Phillips Petroleum Company. (See Schulze, Walter A., assignor.)

Phipps, George S. (See Bouton, G. M., Phipps, and Schumacher.)

Piagneri, Umberto, San Francisco, Calif. Fire extinguisher. 2,351,365; June 13.

Pike, John E., assignor to Cream City Trimming Co., Inc., Milwaukee, Wis. Stretcher. 2,351,146; June 13.

Placke, Everett H., assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,351,541; June 13.

Plantfeber, Jacobus M. (See Woods, H. A., and Plantfeber.)

Ploetz, Ernst. (See Ulrich, H., Ploetz, and Ferrares.)

Plump, Ralph E. (See Brown, R. L., and Plump.)

Pneumatic Scale Corporation, Limited. (See Vergobbi, Robert W., assignor.)

Pohl, Franz J., Hofheim, and W. Schmidt, Frankfort-on-the-Main-Hoechst, Germany; vested in the Alien Property Custodian. Preparing acetoacetic esters. 2,351,366; June 13.

Postal Telegraph-Cable Company (New York). (See Connery, A. F., and Coe, assignors.)

Potter, Albert T., assignor to Ainsworth Manufacturing Corporation, Detroit, Mich. Bomb shackle. 2,351,147; June 13.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Tape feed alarm. 2,351,229; June 13.

Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastener device. 2,351,065; June 13.

Powell, Gordon F. W. (See Molins, D. W., Best, and Powell.)

Powell, Raymond E., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Welding electrode. 2,351,230; June 13.

Pratesi, Dino J., New Bedford, Mass. Thermometer reader. 2,351,455; June 13.

Pride, Gilbert E. (See Osterberg, H., Pride, and Luneburg.)

Proctor & Schwartz, Incorporated. (See Schwartz, Phillips K., assignor.)

Protectoseal Company of America, Inc. (See Lebus, William A., assignor.)

Queen, Harold E., et al., executors. (See Replogle, Daniel B.)

Race, Hubert H., Schenectady, N. Y., assignor to General Electric Company. Electrical discharge device. 2,351,066; June 13.

Race, Hubert H., Schenectady, N. Y., assignor to General Electric Company. Electrical discharge device. 2,351,543; June 13.

Radio Corporatio nof America. (See Boterweg, D., and Sloff, assignors.)

Radio Corporation of America. (See Crosby, Murray G., assignor.)

Radio Corporation of America. (See Houghton, William D., assignor.)

Radio Corporation of America. (See Katzin, M., and Schoenborn, assignors.)

Radio Corporation of America. (See Mountjoy, G., and Finnigan, assignors.)

Radio Corporation of America. (See Roberts, Walter van B., assignor.)

Radio Corporation of America. (See Schade, Otto H., assignor.)

Radio Corporation of America. (See Trevor, Bertram, assignor.)

Radio Corporation of America. (See Usselman, George L., assignor.)

Rafter, Albert, Glen Ridge, assignor to Rafter Machine Company, Belleville, N. J. Variable speed unit. 2,351,148; June 13.

Rafter Machine Company. (See Rafter, Albert, assignor.)

Randol, Glenn T., St. Louis, Mo. Control means for change-speed transmissions. 2,351,067; June 13.

Reed Roller Bit Company. (See Childs, W. L., Shaw, and Noble, assignors.)

Reichert, Ellsworth, Baldwin, Md. Sunglass attachment for eyeglasses. 2,351,287; June 13.

Replogle, Carl S., et al, executors. (See Replogle, Daniel B.)

Replogle, Daniel B., Berkeley, Calif., deceased; Bank of America National Trust and Savings Association, C. S. Replogle, H. E. Queen, and L. H. Bullock, executors, assignors to The Ohio Citizens Trust Company, Toledo, Ohio, trustee. Dust indicator for air-method cleaning system. 2,351,068; June 13.

Revard, Edward L., Ponca City, Okla. Thermosiphon circulator. 2,351,544; June 13.

Reynolds Gas Regulator Company. (See Hughes, Ralph C., assignor.)

Rheineck, Alfred E., and S. B. Crecelius, Louisville, Ky., assignors to Devoe & Raynolds Company, Inc. Manufacture of varnishes. 2,351,545; June 13.

Riches, Harry G. G. G., Singapore, Straits Settlements, assignor to Shaw Darby & Company Limited. Concrete pile. 2,351,288; June 13.

Rickard, Arthur, assignor to Universal Building Products Corp., Dallas, Tex. Tubular steering wheel or the like and making same. 2,351,289; June 13.

Rieker, Norman H., Tulsa, Okla., assignor to Standard Oil Development Company. Seismic prospecting. 2,351,456; June 13.

Rickert, Hans-Ferdinand. (See Alder, K., and Rickert.)

Rider, Ernest G., Philadelphia, Pa. Sheet feeding mechanism. 2,351,367; June 13.

Ridings, Garvice H., Summit, N. J., assignor to The Westlon Union Telegraph Company, New York, N. Y. Automatic facsimile telegraph system. 2,351,231; June 13.

Ringholz, Norbert A. (See Henderson, G. T., and Ringholz.)

Rippl, Francis J., Cleveland, and E. B. Isaac, Cleveland Heights, Ohio, assignors to General Electric Company. Flash lamp. 2,351,290; June 13.

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Reactance tube. 2,351,368; June 13.

Robertson, Robert S. (See Flournoy, Algernon F., assignor.)

Robinson, James. (See Harrington, F. T., and Robinson.)

Rogers, Paul M., Orange, Calif. Manufacture of flat mops. 2,351,546; June 13.

Rose, William R., Arlington, Va. Hot tar roof cart. 2,351,292; June 13.

Ross, Albert W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Motor vehicle suspension. 2,351,291; June 13.

Ruigh, William, Princeton, assignor to Merck & Co., Inc., Rahway, N. J. Making heterocyclic nitrogen-containing compounds. 2,351,069; June 13.

Rust, William M., Jr., and M. A. Arthur, Houston, Tex., assignors to Standard Oil Development Company. Grating spectrograph. 2,351,457; June 13.

Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Disk plow. 2,351,360; June 13.

Sabel, Franz. (See Wirth, G., Sabel, and Laudenklos.)

Salisbury, Leroy F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low melting polyamides. 2,351,074; June 13.

Sanford, Hugh W., Knoxville, Tenn. Container. 2,351,150; June 13.

Sassner Steel Stamps, et al. (See Nachemov, Leonard, assignor.)

Sattler, Edward J., Mineral City, Ohio. Semitrailer construction. 2,351,151; June 13.

Saunders, Bertha, Los Angeles, Calif. Exerciser. 2,351,293; June 13.

Schaaff, Louis W., Jackson Heights, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Chute. 2,351,370; June 13.

Schaal, Earl V., East Aurora, assignor to Trico Products Corporation, Buffalo, N. Y. Valve. 2,351,547; June 13.

Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. Television viewing screen. 2,351,294; June 13.

Schellenberg, Albert, Joliet, Ill. Rinsing soap from washed clothing. 2,351,295; June 13.

Schick, Herbert M., San Francisco, Calif. Airplane body construction. 2,351,152; June 13.

Schmidt, Hermann H., Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo. Apparatus for making molasses feeds and similar materials. 2,351,070; June 13.

Schmidt, Hermann H., Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo. Making feed products. 2,351,071; June 13.

Schmidt, Hermann H., Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo. Producing vaporous mixtures containing air. 2,351,072; June 13.

Schmidt, Walter. (See Pohl, F. J., and Schmidt.)

Schnabolk, Samuel, Paterson, N. J. Stud setting and removing tool. 2,351,232; June 13.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking system. 2,351,153; June 13.

Schoenborn, Ferdinand J. W. (See Katzin, M., and Schoenborn.)

Schon, Pierre, assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Dual motor chassis. 2,351,233; June 13.

Schon, Pierre, assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Dual powered axle. 2,351,234; June 13.

Schubert, Minna R., assignor to Le Monde Corset Company, Saginaw, Mich. Maternity support garment. 2,351,296; June 13.

Schueneman, Aloysius J. (See Aigner, W. J., and Schueneman.)

Schultz, Frank, Cliffside Park, assignor to Autographic Register Company, Hoboken, N. J. Typewriting machine. 2,351,075; June 13.

Schultze, Paul, assignor to John C. Doran, doing business as Doran Brothers, Incorporated, Danbury, Conn. Pouncing hats. 2,351,076; June 13.

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treating hydrocarbons. 2,351,154; June 13.

Schumacher, Earle E. (See Bouton, G. M., Phipps, and Schumacher.)

Schwab, Martin C., Chicago, Ill. Device for protection of municipalities against incendiary bombs and delayed action bombs. 2,351,297; June 13.

Schwartz, Lyle H., Maplewood, N. J., and H. A. Tooker, Monroe, assignors to Western Electric Company, Incorporated, New York, N. Y. Frequency comparison recorder. 2,351,548; June 13.

Schwartz, Phillips K., assignor to Proctor-Schwartz, Incorporated, Philadelphia, Pa. Treating filaments and threads. 2,351,549; June 13.

Schwend, Frederick N. (See Avery, H. T., Grimm, and Schwend.)

Searle, Marshall O., Beverly Hills, Calif. Clutch assembly for ferruling machines. 2,351,155; June 13.

Sebell, Harry, Marblehead, assignor of one-half to A. H. Parker, Lexington, Mass. Container. 2,351,550; June 13.
Seeley, George A. (See Frankwich, A. C., and Seeley.)
Segal, Samuel, Brooklyn, N. Y. Tubular lock. 2,351,077; June 13.
Segel, Joseph, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Regulator auxiliary. 2,351,156; June 13.
Seibel, Charles F., Glen Rock, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,351,551; June 13.
Semon, Waldo L., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Purification of nitriles. 2,351,157; June 13.
Senn, James, Berne, Switzerland. Device for manufacturing CO_2-butter from cream and milk. 2,351,458; June 13.
Shaad, George E. (See Garr, D. E., and Shaad.)
Shadden, Flossie P., et al. (See Davies, Arthur E., assignor.)
Shann, Oscar A., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone set. 2,351,459; June 13.
Shartle, Robert A. (See Harrington, F. T., Griffith, and Shartle.)
Shaw Darby & Company Limited. (See Riches, Harry G. G. G., assignor.)
Shaw, John F. (See Childs, W. L., Shaw, and Noble.)
Sheinman, Benjamin. (See Muskin, C., and Sheinman.)
Shell Development Company. (See Crake, Wilfred St. M. E., assignor.)
Shell Development Company. (See Evans, T. W., and Marple, assignors.)
Shell Development Company. (See Luten, Daniel B., Jr., assignor.)
Shell Development Company. (See Marple, K. E., and Evans, assignors.)
Shell Development Company. (See McAllister, S. H., and Bailey.)
Shell Development Company. (See McMillan, Frank M., assignor.)
Shell Development Company. (See Thigpen, Thelma T., assignor.)
Shell Development Company. (See Thomas, Samuel B., assignor.)
Shell Development Company. (See Wachter, Aaron, assignor.)
Shell Development Company. (See White, Ellis R., assignor.)
Shell Development Company. (See Wilson, Joseph G., assignor.)
Shell Development Company. (See Woods, H. A., and Plantfeber, assignors.)
Shelton, Horace W., Palestine, Tex. Electric grass and weed cutter. 2,351,460; June 13.
Sherman, John Q., deceased, Dayton, Ohio; K. M. and W. C. Sherman, and W. B. Turner, executors. Normally inert manifolding materials. 2,351,073; June 13.
Sherman, Katherine M., et al., executors. (See Sherman, John Q.)
Sherman, William C., et al., executors. (See Sherman, John Q.)
Shogran, Sixten, Kansas City, Kans. Adjustable door stay. 2,351,298; June 13.
Shroyer, George A., L. P. Gould, and R. E. Moule, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., Helmet. 2,351,235; June 13.
Shurley, Frederick, Windsor, Ontario, Canada. Rotary printing machine. 2,351,552; June 13.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Lister. 2,351,078; June 13.
Simpson, John M., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Blocker. 2,351,553; June 13.
Simpson, John M., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Piston. 2,351,554; June 13.
Singer Manufacturing Company, The. (See Hamilton, Hugh G., assignor.)
Sivertsen, Jens, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Recorder for testing machines. 2,351,574; June 13.
Skinner, M. B., Company. (See Merrill, Patterson D., assignor.)
Sloof, Florus C. W. (See Boterweg, D., and Sloof.)
Smiley, Gilbert, Hingham, and C. L. Delano, Waltham, assignors to General Control Company, Cambridge, Mass. Electric switch. 2,351,236; June 13.
Smith, Delmas A., Goose Creek, and W. B. Franklin, Baytown, Tex., assignors to Standard Oil Development Company. Production of anhydrous hydrogen chloride. 2,351,461; June 13.
Smith, Richard E., Cleveland Heights, Ohio, assignor to General Electric Company. Filament connection for electric lamps. 2,351,299; June 13.
Smith, Roland L., Belmont, Mass. Film cleaner. 2,351,371; June 13.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Support and mounting for washing machine tubs. 2,351,237; June 13.
Smith, Wendell V., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of gas-expanded rubber products. 2,351,555; June 13.
Snyder, Clay M., Anniston, Ala. Oil burner. 2,351,372; June 13.
Socony-Vacuum Oil Company. (See McCarty, Malcolm D., assignor.)
Solid Back Brush Machinery Company. (See King, Charles S., assignor.)
Solvay Sales Corporation. (See Treffler, Andrew, assignor.)
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heating apparatus. 2,351,300; June 13.
Sonnichsen, Harold M., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Plastic composition. 2,351,301; June 13.
Sonotone Corporation. (See Carlisle, Richard W., assignor.)
Sossner, Abraham J., et al. (See Nachemov, Leonard, assignor.)
Sossner, Nettie, et al. (See Nachemov, Leonard, assignor.)
Sossner, Theodore T., et al. (See Nachemov, Leonard, assignor.)
Specialties Development Corporation. (See Grant, Harry C., Jr., assignor.)
Specialties Development Corporation. (See Grant, H. C., Jr., and Haessler, assignors.)
Spenard, Le Roy C. (See Chase, L. H., and Spenard.)
Spencer Lens Company. (See Bailey, Stanley J., assignor.)
Spencer Lens Company. (See Osterberg, H., Pride and Luneburg, assignors.)
Spencer Lens Company. (See Peck, William F., assignor.)
Stamm, Roger W. (See Constable, J. M., and Stamm.)
Standard Oil Development Company. (See Gohr, Edwin J., assignor.
Standard Oil Development Company. (See Jessen, F. W., and Battle, assignors.)
Standard Oil Development Company. (See Morgan, Maurice W., assignor.)
Standard Oil Development Company. (See Ricker, Norman H., assignor.)
Standard Oil Development Company. (See Rust, W. M., Jr., and Arthur, assignors.)
Standard Oil Development Company. (See Smith, D. A., and Franklin, assignors.)
Standard Oil Development Company. (See Voorhies, A. Jr., and Hattox, assignors.)
Stapp, Wallace W. (See Cumming, W. E., and Stapp.)
Staudinger, Hanns P., Ewell, and K. H. W. Tuerck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Production of methyl glycerol. 2,351,302; June 13.
Stelzer, Harry, Forest Hills, N. Y. Money belt. 2,351,158; June 13.
Stewart, Gilbert, assignor to Ex-Cell-O Corporation, Detroit, Mich. Dressing mechanism for grinding wheels. 2,351,159; June 13.
Stietzel, Fritz. (See Wolf, H., Kuss, Hohn, and Stietzel.)
Stingley, Dale V. (See Zeigler, A. H., Stingley, and Kiefer.)
Stone, Norman G., Canton, and S. W. Holliday, Greentown, Ohio, assignors to The Dacar Chemical Products Company, Pittsburgh, Pa. Regenerating zeolites. 2,351,160; June 13.
Storer, Richard M., Denver, Colo., assignor to General Motors Corporation, Dayton, Ohio. Apparatus for harvesting ice. 2,351,303; June 13.
Story, Walter F. Jr. (See Williams, G. T., and Story.)
Strobel, Howard M., Allegany, N. Y. Inertia control system. 2,351,079; June 13.
Studebaker Corporation, The. (See James, William S., assignor.)
Studebaker Corporation, The. (See Patrick, G. C., and Greenlee, assignors.)
Sturm, Milton, & Company. (See Burlin, Leslie H., assignor.)
Sturm, Milton J. (See Burlin, Leslie H., assignor.)
Sturtevant, B. F., Company. (See Hanson, Milton E., assignor.)
Submarine Signal Company. (See Anderson, Albert E., assignor.)
Sullivan Machinery Company. (See Hayward, John A., assignor.)
Svendsen, Edward C., and W. J. Clayton, Mishawaka, Ind., assignors to United States Rubber Company, New York, N. Y. Manufacture of sponge rubber. 2,351,556; June 13.
Swarovski, Daniel, Wattens, Tyrol, Germany; vested in the Alien Property Custodian. Signal device. 2,351,080; June 13.
Swett, Donald M., Chicago, and S. E. Van Tuyl, Riverside, assignors to American Tag Company, Chicago, Ill. Tag fastening device. 2,351,557; June 13.
Swift, Gilbert, Tulsa, Okla. Recording measuring instrument. 2,351,081; June 13.
Sykora, Louis, Currie, Minn. Fishing cork. 2,351,558; June 13.
Sylvania Electric Products, Inc. (See Kingston, Walter E., assignor.)
Sylvania Electric Products, Inc. (See McCarthy, Henry J. assignor.)
Tabb, Warner T., Brooklyn, assignor to Eisemann Corporation, New York, N. Y. Fluid transfer apparatus. 2,351,304; June 13.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Rotor brake. 2,351,575; June 13.
Tagliabue, Charles J., Mfg. Co. (See Erbguth, Paul F. K., assignor.)
Taylor, Alvah L., Kew Gardens, N. Y., and K. W. Wallen, Murfreesboro, Tenn. Bismuth-containing derivative of trihydroxy glutaric acid, and making it. 2,351,161; June 13.
Taylor, Fred L. (See Britton, E. C., and Taylor.)
Taylor, Ross E. (See Meyer, A. J., and Taylor.)
Teletype Corporation. (See Potts, Louis M., assignor.)
Teuber, Max M., Los Angeles, Calif. Display device. 2,351,238; June 13.
Texaco Development Corporation. (See Lay, R. L., Treybig, and Hubby, assignors.)
Texas Company, The. (See McMillan, Wallace A., assignor.)
Texas Company, The. (See Veltman, Preston L., assignor.)
Thayer, Richard N., Cleveland Heights, Ohio, assignor to General Electric Company. Discharge lamp base and starter. 2,351,305; June 13.
Thexton, Arthur L., Ft. Thomas, Ky., assignor to Clopay Corporation, Cincinnati, Ohio. Reversible window shade. 2,351,373; June 13.
Thigpen, Thelma T., near Sandoval, Ill., assignor to Shell Development Company, San Francisco, Calif. Polished rod pumper jack. 2,351,576; June 13.
Thomas, Samuel B., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Isomerization of hydrocarbons. 2,351,577; June 13.
Thomas, Willis P., Highland Park, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Gauge glass. 2,351,162; June 13.
Thomas, Willis P., Highland Park, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 2,351,163; June 13.
Thompson, Alfred W., and J. B. Armstrong, Ekalaka, Mont. Ventilated closet bowl. 2,351,560; June 13.
Thompson, Loren E., Parkersburg, W. Va., Abrading wheel. 2,351,561; June 13.
Thompson, William H., Chatham, assignor to Davis Engineering Corporation, Elizabeth, N. J. Heat exchanger. 2,351,239; June 13.
Timken-Detroit Axle Company. (See Buckendale, Lawrence R., assignor.)
Tinius Olsen Testing Machine Company. (See Sivertsen, Jens, assignor.)
Titan Abrasives Company. (See Jockel, Rudolph, assignor.)
Tooker, Howard A. (See Schwartz, L. H., and Tooker.)
Trageser, Georg, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Pulverulent metallic substance for electro-magnetic purposes. 2,351,462; June 13.
Transit Research Corporation. (See Blue, Lebert E., assignor.)
Treffler, Andrew, Paterson, N. J., assignor to Solvay Sales Corporation, New York, N. Y. Preparation of detergent mixtures. 2,351,559; June 13.
Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Phase and frequency modulation receiver. 2,351,240; June 13.
Treybig, Bernhardt H., Jr. (See Lay, R. L., Treybig, and Hubby.)
Trico Products Corporation. (See Schaal, Earl V., assignor.)
Troiel, Arthur E., assignor to Troiel Companies, Inc., Berkeley, Calif. Pile form. 2,351,164; June 13.
Troiel Companies, Inc. (See Troiel, Arthur E., assignor.)
Tubize Chatillon Corporation. (See Doughty, Howard W., Jr., assignor.)
Tuerck, Karl H. W. (See Staudinger, H. P., and Tuerck.)
Turner, Wellmore B., et al., executors. (See Sherman, John Q.)
Tuthill, Howard B., assignor to Oliver Machinery Company, Grand Rapids, Mich. Package. 2,351,306; June 13.
Tyden, Emil, Hastings, Mich. Flow responsive alarm valve. 2,351,082; June 13.
Tyler, John C., et al. (See Buchet, Conrad R., assignor.)
Tyrner, Joseph M., Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Electric arc welding. 2,351,083; June 13.
Ullman, Roy, Roslyn, and C. B. Moore, Carroll Park, assignors to The Brown Instrument Company, Philadelphia, Pa. Instrument casing. 2,351,374; June 13.
Ulrich, Heinrich, E. Ploetz and O. Ferrares, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Road constructional material. 2,351,241; June 13.
Union Switch & Signal Company, The. (See Dodd, Arthur E., assignor.)
Union Switch & Signal Company, The. (See Parrill, Easton E., assignor.)
Union Switch & Signal Company, The. (See Pelikan, John M., assignor.)
United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)
United States Quarry Tile Company. (See Feichter, Harold R., assignor.)
United States Rubber Company. (See Ebelke, William H., assignor.)
United States Rubber Company. (See Fowler, Donald E., assignor.)
United States Rubber Company. (See Luxengerger, E. A., Erich, and Cunningham, assignors.)
United States Rubber Company. (See Smith, Wendell V., assignor.)
United States Rubber Company. (See Svendsen, E. C., and Clayton, assignors.)
Universal Building Products Corp. (See Rickard, Arthur, assignor.)
Universal Paper Products Company. (See Amberg, Walter E., assignor.)
Universal Royalty and Development Company, The. (See Schmidt, Henry H., assignor.)
Universal Royalty and Development Company, The. (See Schmidt, Hermann H., assignor.)
Universal Winding Company. (See Beckman, Gustaf S., assignor.)
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulator. 2,351,463; June 13.
Van Liempt, Johannes A. M., and P. Leijdens, Eindhoven, Netherlands. Flash lamp. 2,351,375; June 13.
Van Tuyl, Sidney E. (See Swett, D. M., and Van Tuyl.)
Vaughn, Albert L., Elko, Nev. Power transmission. 2,351,242; June 13.
Veltman, Preston L., Fishkill, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Catalysts. 2,351,562; June 13.
Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Carton. 2,351,165; June 13.
Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton. 2,351,166; June 13.
Vetter, Johannas, San Diego, Calif. Combination drill guide and clamp. 2,351,243; June 13.
Vickers, Harry F., assignor to Vickers, Incorporated. Detroit, Mich. Hoist brake and control system. 2,351,084; June 13.
Vickers Incorporated. (See Harrington, F. T., Griffith, and Shartle, assignors.)
Vickers Incorporated. (See Harrington, F. T., and Robinson, assignors.)
Vickers, Incorporated. (See Vickers, Harry F., assignor.)
Villani, Antonio, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle. 2,351,244; June 13.
Voorhies, Alexis, Jr., and E. M. Hattox, Baton Rouge, La., assignors to Standard Oil Development Company. Alkylation of isoparaffins. 2,351,464; June 13.
Vorech, Stephen, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Controlling mechanism. 2,351,307; June 13.
Wachter, Aaron, assignor to Shell Development Company, San Francisco, Calif. Internal corrosion prevention in ferrous metal containers for light liquid petroleum distillates. 2,351,465; June 13.
Wagner Electric Corporation. (See Boeringer, Ralph, assignor.)
Wagner Electric Corporation. (See Boldt, Werner F., assignor.)
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wahlbeck, John H. (See Oswald, L. H., Mann, and Wahlbeck.)
Waldes Koh-I-Noor, Inc. (See Schaaff, Louis W., assignor.)
Walker, James M. (See Walker, John H. and J. M.)
Walker, John H. and J. M., Ste. Genevieve, Mo. Aircraft location instrument. 2,351,563; June 13.
Walker, Ralph T., Nashville, Tenn. Automatic speed regulator. 2,351,245; June 13.
Wall, Alexander C., Indianapolis, Ind., assignor to General Electric Company. Electric discharge device. 2,351,564; June 13.
Wallen, Kruger W. (See Taylor, A. L., and Wallen.)
Wallerstein, James S. (See Farber, E., Dayton and Wallerstein.)
Walling, Clyde E., Cleveland, Ohio. Universal head for machine tools. 2,351,246; June 13.
Wallingford, Vernon H., Ferguson, and A. H. Homeyer, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Producing alkali metal phenyl malonic esters. 2,351,085; June 13.
Ward, Lawrence T., Philadelphia, Pa., assignor to Knapp-Monarch Company, St. Louis, Mo. Spraying device. 2,351,376; June 13.
Ware, Virgil W., Arden, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removal of oxygen from normally gaseous olefins. 2,351,167; June 13.
Warne, Frederick C., assignor to Farm Tools, Inc., Mansfield, Ohio. Hydraulic control means for tractor-drawn disk harrows. 2,351,168; June 13.
Warren, James W., Lynbrook, N. Y., assignor to American Machine and Foundry Company. Cigarette machine paster. 2,351,565; June 13.
Warsher, Adolph, Maywood, assignor, by mesne assignments, to M. M. Bloksky, Newark, N. J. Electromagnet structure. 2,351,377; June 13.
Waterous Company. (See Boyles, R. R., and Wilhelm, assignors.)

Wehringer, Herman H., Montclair, N. J. Shortening take-up for cords or the like. 2,351,379; June 13.
Weida, Millard F., assignor to Knapp-Monarch Company, St. Louis, Mo. Heating element support for sandwich toasters. 2,351,466; June 13.
Weinland, Hermon G., Springfield, Ohio, assignor to Norton Company, Worcester, Mass. Abrasive device for cleaning still tubes and the like. 2,351,169; June 13.
Weinland, Hermon G., Springfield, Ohio, assignor to Norton Company, Worcester, Mass. Abrasive device for cleaning still tubes and the like. 2,351,170; June 13.
Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacturing carbazole. 2,351,171; June 13.
Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Amino-substituted compound of the benzene series and making the same. 2,351,247; June 13.
Weissman, Samuel, New York, N. Y. Combination display board, container, and pad. 2,351,378; June 13.
Well Survey's, Incorporated. (See Fearon, Robert E., assignor.)
Wells, Herbert J. C., Atlantic Highlands, N. J. Thermostatically controlled device. 2,351,086; June 13.
Welp, Edward W., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc. Filter underdrain. 2,351,308; June 13.
Welsch, Samuel L., South Orange, assignor to Lewel Manufacturing Co. Inc., Newark, N. J. Maternity foundation garment. 2,351,566; June 13.
Welsh, Edward T., Buffalo, N. Y. Mounting for rear-vision mirrors. 2,351,087; June 13.
Welsh Manufacturing Company. (See Miner, Frederic L., assignor.)
Welty, Albert B., Moline, Ill., assignor to International Harvester Company. Thresher. 2,351,567; June 13.
Western Electric Company. (See Beckley, Charles O., assignor.)
Western Electric Company. (See Frankwich, A. C., and Seeley, assignors.)
Western Electric Company. (See Gillis, Randall, assignor.)
Western Electric Company. (See Malhiot, Eugene L., assignor.)
Western Electric Company. (See Moller, Kasper F., assignor.)
Western Electric Company. (See Nystrom, Axel C., assignor.)
Western Electric Company. (See Pash, Robert, assignor.)
Western Electric Company. (See Powell, Raymond E., assignor.)
Western Electric Company. (See Schwartz, L. H., and Tooker, assignors.)
Western Union Telegraph Company, The. (See Long, James W., assignor.)
Western Union Telegraph Company, The. (See Ridings, Garvice H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brecht, Winston A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Constable, J. M., and Stamm, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dick, Winfred O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Freeman, George A., assignor.)
Westinghouse Electric & Manufacturing Company. (See McCloy, Graham S., assignor.)
Westinghouse Electric & Manufacturing Company. (See McGowan, Michael E., assignor.)
Wheaton, Estel O., assignor to Kelly-Wheaton Company, Toledo, Ohio. Electroforming method of producing dispensing tools. 2,351,568; June 13.
White, Charles H., assignor to Deere & Company, Moline, Ill. Tool lift mechanism. 2,351,172; June 13.
White, Charles H., assignor to Deere & Company, Moline, Ill. Furrow opener for planters and the like. 2,351,173; June 13.
White, Donald H., Wellesley Hills, Mass. Fastening device for safety pins and other pins. 2,351,569; June 13.
White, Ellis R., Albany, assignor to Shell Development Company, San Francisco, Calif. Anti-ring-sticking lubricant. 2,351,380; June 13.
White, Robert C., Brainbridge, assignor to The Borden Company, New York, N. Y. Bottle label adhesive. 2,351,309; June 13.
White, Robert C. (See Corwin, J. F., and White.)
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Coated material. 2,351,174; June 13.
Whiting Corporation. (See Pearl, William A., assignor.)
Wiest, Georg, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Conversion of ketoximes into acid amides. 2,351,381; June 13.
Wilhelm, Edward A. (See Boyles, R. R., and Wilhelm.)
Wilhelm, Harold F., Orange, N. J. Wire sawing. 2,351,175; June 13.
Williams, George T., and W. F. Story, Jr., assignors to National Screen Company, Incorporated, Suffolk, Va. Window screen clip. 2,351,570; June 13.
Williams, Victor G., Toronto, Ontario, Canada. Packaging machine. 2,351,382; June 13.
Wilson, Frank H. (See Cooper, Hugh S., assignor.)
Wilson, Joseph G., Oakland, assignor to Shell Development Company, San Francisco, Calif. Purifying solutizer solutions. 2,351,467; June 13.
Wilson, Oliver W., New York, N. Y., and W. D. Foster, Washington Township, Bergen County, N. J.; said Wilson assignor to said Foster. Film handling apparatus. 2,351,088; June 13.
Wingfoot Corporation. (See George, E. D., and Brown, assignors.)
Wingfoot Corporation. (See Gerstenmaier, John H., assignor.)
Wingfoot Corporation. (See Lichty, Joy G., assignor.)
Wingfoot Corporation. (See Mallory, Gerald D., assignor.)
Wirkkala, Oscar A., Seattle, Wash. Hook and cable connection. 2,351,176; June 13.
Wirth, Gustav, F. Sabel, and H. Laudenklos, Leuna, Germany; vested in the Alien Property Custodian. Production of hydrocarbons. 2,351,248; June 13.
Wirth, Walter V. (See Bergstrom, H. A., and Wirth.)
Wolf, Hermann, E. Kuss, H. Hohn, and F. Stietzel, Duisburg, Germany; vested in the Alien Property Custodian. Manufacture of zinc. 2,351,383; June 13.
Wolfram, John N. (See Parker, A. L., Wolfram, and Margrave.)
Wood, John, Manufacturing Company. (See Goldberg, Mark J., assignor.)
Woodbury, Clifford A., Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilized explosive composition. 2,351,468; June 13.
Woods, Harold A., and J. M. Plantfeber, Martinez, assignors to Shell Development Company, San Francisco, Calif. Lithium soap grease. 2,351,384; June 13.
Wunderer, Anton. (See Herrmann, O., Wunderer, and Böttger.)
Yarmolowich, William C., assignor of one-fourth to L. Bacon, Alliance, Ohio. Adjustable scaffold hanger for ladders. 2,351,310; June 13.
Yerian, Harold W., Cumberland, Ohio. Battery service tool. 2,351,250; June 13.
York Safe and Lock Company. (See Bescherer, Palmer, assignor.)
Younkman, George W., Jersey City, N. J. Nonspill vent plug for batteries. 2,351,177; June 13.
Zeigler, Albert H., Evanston, D. V. Stingley, Downers Grove, and J. M. Kiefer, assignors to Armour and Company, Chicago, Ill. Treating fatty acids. 2,351,249; June 13.
Zenith Radio Corporation. (See Ewing, Edwin C., assignor.)
Zimmerman, Henry, Del Mar, Calif. Clamping device. 2,351,178; June 13.
Zintl, Eduard, Darmstadt, Germany; vested in the Alien Property Custodian. Preparing anhydrous sodium-orthosilicate. 2,351,385; June 13.
Zucker, Frank C., New York, N. Y. Alignment gauge. 2,351,386; June 13.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Clamp for blankets and the like. R. Bernhardt and J. O. Reinecke. Re. 22,493; June 13.
Holder, Brush. A. P. Wood. Re. 22,496; June 13.
Machine, Winding. E. J. Abbott. Re. 22,492; June 13.
Metals to a powder, Reduction of. A. W. Ferguson. Re. 22,494; June 13.
Spring unit for spring cushions. M. Freund. Re. 22,495; June 13.

LIST OF DESIGN INVENTIONS

Airplane. A. O. Kelly. 139,102; June 13.
Airplane. E. M. Rodewald. 138,091; June 13.
Block, Engine cylinder. L. M. Taylor. 138,104; June 13.
Box or the like, Ring. W. Ludel and E. Goldstein. 138,066; June 13.
Bridge scorer. R. H. Benson. 138,071–2; June 13.
Button or similar article. W. Drell. 138,077–8; June 13.
Cabinet and coat hanger, Combined valet. E. E. Burr. 138,063; June 13.
Cap, Container. P. A. Derham. 138,080; June 13.
Chair, Combination baby's high and sleeping. E. R. Morando. 138,067; June 13.
Coat. A. Gruber. 138,107; June 13.
Coat. A. Gruber. 138,111; June 13.
Coil adaptor, Distributor. V. W. Thomas. 138,095; June 13.
Dispenser, Insecticide. L. J. Clark. 138,064; June 13.
Doll. J. E. Bryan. 138,073–4; June 13.
Drawer for a refrigerated locker system. W. M. Baird. 138,060; June 13.
Dress. P. Adler. 138,070; June 13.
Fabric or similar article, Textile. C. Rosenstein. 138,092; June 13.
Fabric, Textile. A. M. Kemper. 138,084; June 13.
Fish bait, Artificial. R. R. and M. Moblo. 138,088; June 13.
Fountain for fowls, Drinking. R. R. Setzer. 138,103; June 13.
Game device, Catball. T. R. Schlitz. 138,093; June 13.
Handbag. N. and M. Sloane. 138,069; June 13.
Handbag or similar article. J. C. Marks. 138,097; June 13.
Hanger, Garment. E. E. Burr. 138,075; June 13.
Heat dispersing device to aid in cooking. J. A. Breen. 138,062; June 13.
Hobby-horse. E. Hellwegen. 138,083; June 13.
Holder for smoker's article and memorandum accessories, Combined. J. E. Newton. 138,090; June 13.
Jar or similar article, Hosiery. E. C. Carman. 138,076; June 13.
Lighter, Cigarette. H. Negbaur. 138,089; June 13.
Lighter, Cigarette. H. Negbaur. 138,098; June 13.
Lighter or the like, Cigarette. I. Florman. 138,081; June 13.
Milking device. L. J. Belanger. 138,061; June 13.
Raft, Life. W. E. B. Harkins. 138,082; June 13.
Scale, Weighing. F. E. Townsend. 138,096; June 13.
Skirt. J. Walker. 139,101; June 13.
Suit. A. Gruber. 138,105–6; June 13.
Suit. A. Gruber. 138,108–10; June 13.
Table, Child's feeding and play. A. E. Puls and E. R. Swenson. 138,068; June 13.
Tap. Electric plug. L. Ludwig. 138,086; June 13.
Toy, Figure. J. H. Miller. 138,087; June 13.
Toy pistol. D. Krechman. 138,085; June 13.
Tray, Ash. H. S. Stronach. 138,094; June 13.
Tubular member for metal furniture stanchions, guard rails, or the like. A. L. Heck. 138,065; June 13.
Wallet. E. C. Renz. 138,100; June 13.
Wheel, Aircraft control. J. K. Drew. 138,079; June 13.
Wrist watch and bracelet, Combined. G. Peyrot. 138,099; June 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading apparatus. W. L. Keefer. 2,351,521; June 13.
Abrading wheel. L. E. Thompson. 2,351,561; June 13.
Abrasive device for cleaning still tubes and the like. H. G. Weinland. 2,351,169–70; June 13.
Accounting machine. E. H. Placke. 2,351,541; June 13.
Acetoacetic esters, Preparing. F. J. Pohl and W. Schmidt. 2,351,366; June 13.
Acids, Treating fatty. A. H. Zeigler, D. V. Stingley, and J. M. Kiefer. 2,351,249; June 13.
Adjusting and securing prisms. S. J. Bailey. 2,351,471; June 13.
Agricultural soil working tool. W. R. Baxter. 2,351,388; June 13.
Air conditioner and air compressor. O. H. Klotz. 2,351,437; June 13.
Aircraft construction. J. W. Overbeke. 2,351,284; June 13.
Aircraft location instrument. J. H. Walker and J. M. Walker. 2,351,563; June 13.
Air motor. E. W. Gent. 2,351,328; June 13.
Airplane body construction. H. M. Schick. 2,351,152; June 13.
Airplane towing means. J. C. Beirise. 2,350,999; June 13.
Alarm for synchronous telegraph circuits. A. F. Connery and E. R. C. Coe. 2,351,014; June 13.
Alcohols, Refining low-boiling. R. E. Lembcke. 2,351,527; June 13.
Alignment gauge. F. C. Zucker. 2,351,386; June 13.
Alkali metal phenyl malonic esters, Producing. V. H. Wallingford, and A. H. Homeyer. 2,351,085; June 13.
Alkylation of isoparaffins. A. Voorhies, Jr., and E. M. Hattox. 2,351,464; June 13.
Alloy: *See*—
Solder alloy.
Amino-substituted compound of the benzene series and making the same. V. Weinmayr. 2,351,247; June 13.
Anchor stud for abrasive wheels. R. Jockel. 2,351,129; June 13.
Anhydrous sodium-orthosilicate, Preparing. E. Zintl. 2,351,385; June 13.
Apparatus for cleaning castings or metal parts. W. A. Pearl. 2,351,453; June 13.
Apparatus for control of highway crossing signals. E. E. Parrill. 2,351,538; June 13.
Apparatus for dedusting comminuted soap. B. L. Maxwell and C. T. Atwood. 2,351,351; June 13.
Apparatus for forming shoe heels. J. L. Pereles. 2,351,454; June 13.
Apparatus for harvesting ice. R. M. Storer. 2,351,303; June 13.
Apparatus for joining spaced elements. A. C. Fischer. 2,351,255; June 13.
Apparatus for liquid treatment of filamentary material. H. O. Davidson and H. J. McDermott. 2,351,110; June 13.
Apparatus for making molasses feeds and similar materials. H. H. Schmidt. 2,351,070; June 13.
Apparatus for purifying liquids. F. F. Klett. 2,351,053; June 13.
Apparatus for treating solids in fluids. P. J. Bar. 2,351,091; June 13.
Apparatus for treating surfaces. H. Osterberg, G. E. Pride and R. K. Luneburg. 2,351,537; June 13.
Applicator. H. M. Borden. 2,351,476; June 13.
Armored observation port. J. J. Downey. 2,351,253; June 13.
Article assembling apparatus. E. L. Malhiot. 2,351,276; June 13.
Article assembly apparatus. A. C. Frankwich and G. A. Seeley. 2,351,116; June 13.
Arylaminoketo compound and preparation. J. B. Dickey and J. G. McNally. 2,351,409; June 13.
Assembling strip material. E. A. Davis. 2,351,111; June 13.
Atomizer. W. P. Pernhall. 2,351,226; June 13.
Automatic carrier for strip materials. W. Hotinee. 2,351,428; June 13.
Automatic facsimile telegraph system. G. H. Ridings. 2,351,231; June 13.
Automatic speed regulator. R. T. Walker. 2,351,245; June 13.
Automatic voltage control system for alternators. F. F. Hutchinson. 2,351,340; June 13.
Axle, Dual powered. P. Schon. 2,351,234; June 13.
Battery service tool. H. W. Yerian. 2,351,250; June 13.
Bearing: *See*—
Shaft bearing.
Bearing for rock bits. E. L. Miller and R. W. Brown. 2,351,357; June 13.
Bed lift. J. O. Chambers. 2,351,106; June 13.
Belt, Money. H. Stelzer. 2,351,158; June 13.
Bismuth-containing derivative of trihydroxy, glutaric acid, and making it. A. L. Haylor and K. W. Wallen. 2,351,161; June 13.
Bit: *See*—
Deflecting drill bit. Rock bit.
Blade holder. E. Merki. 2,351,442; June 13.
Blocker. J. M. Simpson. 2,351,553; June 13.
Blueprint machine. E. L. Davenport. 2,351,251; June 13.
Blueprint sensitizer. C. A. Crowley and G. H. Goodyear. 2,350,991; June 13.
Board: *See*—
Draftsman's tracing board.
Boat construction. H. C. Hartzog. 2,351,122; June 13.
Boiler cleaner. W. P. Thomas. 2,351,163; June 13.
Bolt, Anchor. T. Noble. 2,351,449; June 13.
Bomb release system. F. J. Hooven. 2,351,336; June 13.
Bottle carrier. E. H. Lupton. 2,351,528; June 13.
Bottle label adhesive. R. C. White. 2,351,309; June 13.
Bottle labeling adhesive. J. F. Corwin and R. C. White. 2,351,109; June 13.
Bottle, Nonrefillable. F. R. Lueck. 2,351,138; June 13.
Bottom hole regulator. W. St. M. E. Crake. 2,351,322; June 13.
Bowl, Ventilated closet. A. W. Thompson and J. B. Armstrong. 2,351,560; June 13.
Box: *See*—
Luggage box.
Bracket: *See*—
Wall bracket.
Brake: *See*—
Cam-actuated brake. Rotor brake.
Brake. J. G. Hawley. 2,351,041; June 13.
Brake mechanism. C. S. Ash. 2,351,180; June 13.
Brake mechanism. J. Ledwinka. 2,351,573; June 13.
Braking system. S. Schnell. 2,351,153; June 13.
Bristle-trimming mechanism. C. S. King. 2,351,344; June 13.
Building construction. R. L. Davison. 2,351,015; June 13.
Building construction. R. F. Fuller. 2,351,419; June 13.
Building construction. F. Hobbs. 2,351,209; June 13.
Burner: *See*—
Horizontal burner. Oil burner.
Burner and means for delivering secondary air thereto, Pot type. J. L. Breese. 2,351,186; June 13.
Calculating machine. H. T. Avery, De W. M. Grimm, and F. N. Schwend. 2,350,979; June 13.
Cam-actuate dbrake. W. R. Freeman. 2,351,114; June 13.
Cam grinding apparatus. C. J. Green. 2,351,502; June 13.
Camouflaging method and device therefor. M. Mitchell. 2,351,142; June 13.
Capping machine. H. Mair. 2,351,348–9; June 13.
Car construction. H. J. Lounsbury. 2,351,218; June 13.
Carbon tetrafluoride, Preparing. A. F. Benning and J. D. Park. 2,351,390; June 13.
Carbazole, Manufacturing. V. Weinmayr. 2,351,171; June 13.
Carburetors, Testing. W. M. Ewart and J. H. Klasey. 2,351,027; June 13.
Carrier: *See*—
Bottle carrier.
Case: *See*—
Spectacle case.
Carton. G. K. S. Ferguson. 2,351,417; June 13.
Carton. R. W. Vergobbi. 2,351,165–6; June 13.
Catalysis. P. L. Veltman. 2,351,562; June 13.
Catalyzed vapor phase reactions, Executing. F. M. McMillan. 2,351,354; June 13
Centrifugal pump. R. R. Boyles and E. A. Wilhelm. 2,350,983; June 13.
Chain: *See*—
Cutter chain.
Chain saw teeth. J. Day. 2,351,112; June 13.
Chair. M. K. Orton. 2,351,283; June 13.
Chair and couch, Combined reclining. C. Muskin, and B. Sheinman. 2,351,222; June 13.
Check for looms, Picker. C. D. Brown. 2,351,188; June 13.
Chemical container. G. C. Irwin. 2,351,267; June 13.

Chlorination of propylene in the presence of acetylenes, Selective. E. C. Britton and M. E. Huscher. 2,350,984; June 13.
Chromium oxide catalyst. D. G. Blaker. 2,351,094; June 13.
Chronograph. J. V. Dunham. 2,351,023; June 13.
Chute. L. W. Schaaff. 2,351,370; June 13.
Cigarette and match package, Combined. H. Neivert. 2,351,223; June 13.
Cigarette machine paster. J. W. Warren. 2,351,565; June 13.
Circuit: *See*—
Convertible demodulator circuit. Heterodyne elimination circuit.
Discharge lamp starting circuit. Superregenerative receiver circuit.
Frequency modulation detector circuit.
Circulator, Thermo-syphon. E. L. Revard. 2,351,544; June 13.
Clamp: *See*—
Splicing clamp. Work clamp.
Clamping device. H. Zimmerman. 2,351,178; June 13.
Cleaner: *See*—
Boiler cleaner. Fluid heater cleaner.
Film cleaner. Vacuum cleaner.
Clip: *See*—
Muntin assembly clip. Window screen clip.
Clutch assembly for ferruling machines. M. O. Searle. 2,351,155; June 13.
Coated material. W. Whitehead. 2,351,174; June 13.
Coating sheet material. D. E. Fowler. 2,351,498; June 13.
Coin sorting machine. J. N. Francis. 2,351,197; June 13.
Coloring matter of the phthalocyanines series. N. H. Haddock. 2,351,119; June 13.
Coloring matters of the phthalocyanines series. N. H. Haddock. 2,351,118; June 13.
Composition to be used as a binder in road construction and its manufacture. C. A. Agthe. 2,350,977; June 13.
Concrete pile. H. G. G. G. Riches. 2,351,288; June 13.
Condensation product. K. Alder and H.-F. Rickert. 2,351,311; June 13.
Conditioning water. C. T. Fuetterer. 2,351,259; June 13.
Container: *See*—
Chemical container. Molded barrel-shaped container.
Lock end wire-bound shipping container.
Container. H. W. Sanford. 2,351,150; June 13.
Container. H. Sebell. 2,351,550; June 13.
Container and closure cap therefor. H. Carew. 2,351,318; June 13.
Container and constricting rim therefor. H. L. Carpenter. 2,351,484; June 13.
Container for match books and the like. E. A. Allen. 2,351,469; June 13.
Control. G. Knaak. 2,351,216; June 13.
Control device. C. J. Conkle. 2,351,485; June 13.
Control means for change-speed transmissions. G. T. Randol. 2,351,067; June 13.
Controlling high frequency voltages in magnetic recorder heads. M. Camras. 2,351,010; June 13.
Controlling mechanism. S. Vorech. 2,351,307; June 13.
Convertible demodulator circuit. W. D. Houghton. 2,351,212. June 13.
Cooling system for photoprinting mechanisms. J. H. Hruby. 2,351,339; June 13.
Cores and molds, Drying. D. J. Campbell. 2,351,482; June 13.
Corn picker. B. M. Hyman and J. L. Aasland. 2,351,515; June 13.
Coupling: *See*—
Fluid coupling. Saddle coupling.
Coupling for tubes. A. L. Parker. 2,351,362; June 13.
Coupling for tubes. A. L. Parker, J. N. Wolfram, and W. Margrave. 2,351,363; June 13.
Coupling structure. D. W. Fentress and S. J. Hughes. 2,351,416; June 13.
Cotton and like fabrics, Flocking of. G. S. Hiers. 2,351,265; June 13.
Curved structure. N. Hart. 2,351,121; June 13.
Cutoff valve. H. C. Grant, Jr., and W. M. Haessler. 2,351,035; June 13.
Cutter: *See*—
Electrical grass and weed cutter. Inserted tooth cutter. Pine cutter
Cutter. C. O. Beckley. 2,351,093; June 13.
Cutter chain. J. A. Hayward. 2,351,206; June 13.
Cutting and threading tool. C. J. Kopp. 2,351,217; June 13.
Deflecting drill bit. C. P. Collins. 2,350,986; June 13.
Device for manufacturing CO_2-butter from cream and milk. J. Senn. 2,351,458; June 13.
Device for protection of municipalities against incendiary bombs and delayed action bombs. M. C. Schwab. 2,351,297; June 13.
Digger. A. E. W. Johnson and L. H. Kaupke. 2,351,518; June 13.
Dilatometer, Direct-reading recording. W. E. Kingston. 2,351,572; June 13.
Discharge lamp starting circuit. G. A. Freeman. 2,351,499; June 13.
Dishwasher. F. J. R. Karlstrom. 2,351,342; June 13.
Disk plow. A. E. Rutter. 2,351,369; June 13.
Dispensing apparatus. G. J. Bohlman. 2,351,393; June 13.
Dispensing arrangement. J. L. Hipple, F. L. Dewey, and B. F. Burnett. 2,351,511; June 13.
Dispensing device. P. Hutchinson. 2,351,514; June 13.
Dispensing mechanism. H. F. Hagemeyer. 2,351,505–6; June 13.
Display board, container, and pad, Combination. S. Weissman. 2,351,378; June 13.
Display device. M. M. Teuber. 2,351,238; June 13.
Door for bomb and gas resisting shelters, buildings, and the like. P. Bescherer. 2,350,981; June 13.
Door stay, Adjustable. S. Shogran. 2,351,298; June 13.
Draftsman's tracing board. G. E. Froelich. 2,351,031; June 13.
Drawer or tray front. M. B. Hall. 2,351,260; June 13.
Dressing mechanism for grinding wheels. G. Stewart. 2,351,159; June 13.
Drill guide and clamp, Combination. J. Vetter. 2,351,243; June 13.
Drive for valves and the like. H. E. Hodgson. 2,351,211; June 13.
Drying apparatus. M. F. Heubsch. 2,351,429; June 13.
Dust indicator for air-method cleaning systems. D. B. Replogle. 2,351,068; June 13.
Dust precipitator. R. G. Abbey. 2,351,089; June 13.
Dyestuff, Monoazo. A. H. Knight. 2,351,133; June 13.
Egg tray set. H. Kenigson. 2,351,051; June 13.
Elastic band, article of wearing apparel embodying the same and their production. S. R. Fry. 2,351,199; June 13.
Electric apparatus. M. Neuner. 2,351,448; June 13.
Electric arc welding. J. M. Tyrner. 2,351,083; June 13.
Electric conductor. J. Lepetit. 2,351,056; June 13.
Electric discharge device. D. E. Elmendorf. 2,351,254; June 13.
Electric discharge device. A. C. Wall. 2,351,564; June 13.
Electric discharge device and operation. E. Lemmers. 2,351,270; June 13.
Electric discharge lamp starting device. H. J. McCarthy. 2,351,440; June 13.
Electric grass and weed cutter. H. W. Shelton. 2,351,460; June 13.
Electric motor control system. H. G. Hamilton. 2,351,508; June 13.
Electric switch. G. A. Healis. 2,351,426; June 13.
Electric switch. G. Smiley and C. L. Delano. 2,351,236; June 13.
Electric switch construction. L. W. Bangasser. 2,351,181; June 13.
Electric valve circuits. A. H. Mittag. 2,351,062; June 13.
Electrical control apparatus. A. E. Dodd. 2,351,495; June 13.
Electrical control system. G. Deakin. 2,351,016; June 13.
Electrical discharge device. H. H. Race. 2,351,066; June 13.
Electrical discharge device. H. H. Race. 2,351,543; June 13.
Electrical testing. G. Makuh. 2,351,441; June 13.
Electrochemical valve recovery apparatus. W. E. Cummins and W. W. Stapp. 2,350,992. June 13.
Electroforming method of producing dispensing tools. E. O. Wheaton. 2,351,568. June 13.
Electrolytic condensers, Manufacture of. K. G. Compton. 2,351,321; June 13.
Electromagnet structure. A. Warsher. 2,351,377; June 13.
Electron lens structure. F. Gray. 2,351,501; June 13.
Enamel. A. J. Deyrup. 2,351,252; June 13.
Enamel remover composition, Finger nail. A. Dreyling. 2,351,195; June 13.
Engine and fan assembly. G. C. Patrick and H. R. Greenlee. 2,351,225; June 13.
Engine fan cooling system, Thermostatically controlled. M. E. Hanson. 2,351,203; June 13.
Engine fuel pump. L. Pengilly. 2,351,064; June 13.
Exerciser. B. Saunders. 2,351,293; June 13.
Explosive composition, Stabilized. C. A. Woodbury. 2,351,468; June 13.
Extractor shafts, Removably mounting. W. Ockrant and J. W. Kinney, Jr. 2,351,361; June 13.
Extruder. J. G. Curry. 2,351,493; June 13.
Fabric: *See*—
Simulated woven fabric.
Fabric and product produced thereby, Treating. A. W. Bateman. 2,351,182; June 13.
Fabric, Making simulated woven. A. W. Hanson. 2,351,039; June 13.
Fastener device. D. J. Poupitch. 2,351,065; June 13.
Fastening device for safety pins and other pins. D. H. White. 2,351,569; June 13.
Feed products, Making. H. H. Schmidt. 2,351,071; June 13.
Fence post. N. L. Hall. 2,351,261; June 13.
Fertilizer distribution. A. C. Fischer. 2,351,256; June 13.

Filament connection for electric lamps. R. E. Smith. 2,351,299; June 13.
Filaments and threads, Treating. P. K. Schwartz. 2,351,549; June 13.
Filaments, fibers and foils, Production of artificial. J. Kleine. 2,351,345; June 13.
File rack. L. H. Burlin. 2,351,571; June 13.
Filling apparatus. G. M. Biner. 2,351,392; June 13.
Filling machine. W. M. Martin. 2,351,059; June 13.
Film cleaner. R. L. Smith. 2,351,371; June 13.
Film developing tank and method. A. Broms. 2,351,396; June 13.
Film coatings, Making highly glazed. W. R. Collings. 2,350,987; June 13.
Film, Color. A. H. J. De Lassus Saint Genies. 2,351,019; June 13.
Film handling apparatus. O. W. Wilson and W. D. Foster. 2,351,088; June 13.
Film, Laminating. G. D. Mallory. 2,351,350; June 13.
Film measuring apparatus. H. W. Houston. 2,351,337; June 13.
Films, Making superpolyamide. O. Herrmann, A. Wunderer, and H. Böttger. 2,351,208; June 13.
Films, Method of and apparatus for depositing. C. W. Leguillon. 2,351,271; June 13.
Filter underdrain. E. W. Welp. 2,351,308; June 13.
Fire extinguisher. U. Piagneri. 2,351,365; June 13.
Fishing cork. L. Sykora. 2,351,558; June 13.
Flash lamp. F. J. Rippl and E. B. Isaac. 2,351,290; June 13.
Flash lamp. J. A. M. van Liempt and P. Leijdens. 2,351,375; June 13.
Flat mops, Manufacture of. P. M. Rogers. 2,351,546; June 13.
Flocking apparatus. G. S. Hiers. 2,351,266; June 13.
Floor finishing machine. L. G. Mathews. 2,351,278; June 13.
Flooring. W. W. Donelson and J. W. Downey. 2,351,022; June 13.
Flow responsive alarm valve. E. Tyden. 2,351,082; June 13.
Fluid coupling. G. R. Pennington. 2,351,286; June 13.
Fluid heater cleaner. R. J. Glinn and P. G. Handoll. 2,351,117; June 13.
Fluid pressure regulator. R. C. Hughes. 2,351,047; June 13.
Fluid routing. L. Hanson. 2,351,425; June 13.
Fluid transfer apparatus. W. T. Tabb. 2,351,304; June 13.
Food treating and juice extracting apparatus. E. Goetz. 2,351,330; June 13.
Footpower snip. C. J. Dalley. 2,351,406; June 13.
Foraminous baffle for pot-type burners. J. L. Breese. 2,351,480; June 13.
Foraminous pilot baffle for pot-type burners. J. L. Breese. 2,351,481; June 13.
Foundation garment, Maternity. S. L. Welsch. 2,351,566; June 13.
Fountain, Ink. H. M. Barber. 2,351,315; June 13.
Frequency comparison recorder. L. H. Schwartz and H. A. Tooker. 2,351,548; June 13.
Frequency modulation detector circuit. M. G. Crosby. 2,351,193; June 13.
Frequency modulation receiver. M. G. Crosby. 2,351,192; June 13.
Frequency modulator. G. L. Usselman. 2,351,463; June 13.
Fuel injection pump. H. O. Farmer. 2,351,414; June 13.
Furnace: *See*—
Metallurgical furnace.
Furnace control system. D. E. Garr and G. E. Shaad. 2,351,420; June 13.
Galvanometer. M. D. McCarty. 2,351,353; June 13.
Garment hanger. N. Langer. 2,351,523; June 13.
Garment treating apparatus. L. H. Oswald, A. S. Mann, and J. H. Wahlbeck. 2,351,063; June 13.
Gas analysis apparatus. W. A. McMillan. 2,351,532; June 13.
Gas mixing device. C. H. De Wall. 2,351,494; June 13.
Gas reactions, Carrying out catalytic. H. Kaufmann and R. Keinke. 2,351,214; June 13.
Gas tank fitting. W. A. Lebus. 2,351,526; June 13.
Gate valve. H. Allen. 2,351,312; June 13.
Gauge: *See*—
Alignment gauge.
Liquid level gauge.
Offset keyway gauge.
Prismatic accumulator gauge.
Gauge glass. W. P. Thomas. 2,351,162; June 13.
Gear: *See*—
Retractible landing gear.
Gearing. F. E. McMullen. 2,351,219; June 13.
Glider, Model airplane. P. K. Guillow. 2,351,504; June 13.
Gluconic acid production. A. J. Moyer. 2,351,500; June 13.
Glycerine aryl methyl ethers. T. W. Evans and K. E. Marple. 2,351,024; June 13.
Goggle. F. I. Miner. 2,351,358; June 13.
Grass stripper. E. M. Dowd and C. S. Johnston. 2,351,412; June 13.
Grid support. W. J. Farrell. 2,351,415; June 13.
Griddle plate. E. A. Jones. 2,351,130; June 13.
Grinding tool for reseating gate valves. J. C. Hendrick. 2,351,124; June 13.
Gripping and supporting device suitable for supporting vehicle wheels. H. Merrett. 2,351,355; June 13.
Growing plants with solutions, Method and composition of. T. E. Borst. 2,350,982; June 13.
Guard, Tool. K. F. Moller. 2,351,143; June 13.
Hand telephone mounting. O. W. Henrikson. 2,351,125; June 13.
Handbag. A. Immordino. 2,351,341; June 13.
Hanger: *See*—
Garment hanger.
Hat sweatband, and joining the ends thereof. F. R. Kling. 2,351,132; June 13.
Hats, Pouncing. P. Schultze. 2,351,076; June 13.
Heat exchanger. W. H. Thompson. 2,351,238; June 13.
Heating and ventilating system for car bodies. L. E. Blue. 2,351,096; June 13.
Helmet. G. A. Shroyer, L. P. Gould, and R. E. Moule. 2,351,235; June 13.
Heterocyclic nitrogen-containing compounds, Making. W. Ruigh. 2,351,069; June 13.
Heterodyne elimination circuit. M. G. Crosby. 2,351,191; June 13.
Hoe. J. F. Linden. 2,351,136; June 13.
Hoist brake and control system. H. F. Vickers. 2,351,084; June 13.
Hoisting machine. M. B. McLauthlin. 2,351,060; June 13.
Holder: *See*—
Blade holder.
License plate holder.
Yarn holder:
Holder for thermometers. M. Charnysh. 2,351,107; June 13.
Hook and cable connection. O. A. Wirkkala. 2,351,176; June 13.
Horizontal burner. J. E. Farrell. 2,351,115; June 13.
Hot tar roof cart. W. R. Rose. 2,351,292; June 13.
Humidifier unit. A. H. Bahnson, Jr. 2,350,997; June 13.
Hydraulic actuating system. W. F. Boldt. 2,351,098; June 13.
Hydraulic control means for tractor-drawn disk harrows. F. C. Warne. 2,351,168; June 13.
Hydraulic medium. B. J. Craig. 2,350,990; June 13.
Hydraulic press system. L. A. Camerota. 2,351,317; June 13.
Hydrocarbons for polymerization, Preparing. H. L. Hays and J. L. Maher. 2,351,123; June 13.
Hydrocarbons, Isomerization of. S. B. Thomas. 2,351,577; June 13.
Hydrocarbons, Production of. G. Wirth, F. Sabel, and H. Laudenklos. 2,351,248; June 13.
Hydrocarbons, Treating. W. A. Schulze. 2,351,154; June 13.
Hydrogen chloride, Production of anhydrous. D. A. Smith and W. B. Franklin. 2,351,461; June 13.
Hydrovacuumatic balance. C. R. Buchet. 2,351,398; June 13.
Ignition means for fluid fuel burners. J. C. English. 2,351,325; June 13.
Immersion actuator. H. C. Grant, Jr. 2,351,036; June 13.
Implement, Peeling. H. Gamache. 2,351,327; June 13.
Impresser mechanism. A. M. Marks. 2,351,058; June 13.
Index, Visible. M. B. Hall. 2,351,423; June 13.
Indicating system. P. S. de Beaumont. 2,351,408; June 13.
Indicator: *See*
Liquid level indicator.
Induction heating apparatus. H. E. Somes. 2,351,300; June 13.
Inertia control system. H. M. Strobel. 2,351,079; June 13.
Ink fountain drive. A. J. Carpenter, Jr. 2,351,012; June 13.
Inserted tooth cutter. J. J. Connell. 2,351,491; June 13.
Instrument casing. R. Ullman and C. B. Moore. 2,351,374; June 13.
Intaglio printing apparatus. F. Fernández. 2,351,030; June 13.
Internal corrosion prevention in ferrous metal containers for light liquid petroleum distillates. A. Wachter. 2,351,465; June 13.
Isophorone, Separation of by-products from. S. H. McAllister and W. A. Bailey, Jr. 2,351,352; June 13.
Jack: *See*—
Polished rod pumper jack.
Ketoximes into acid amides, Conversion of. G. Wiest. 2,351,381; June 13.
Key holder support for key cases. R. P. Harvey. 2,351,205; June 13.
Lamp: *See*—
Flash lamp.
Lamp base and starter, Discharge. R. N. Thayer. 2,351,305; June 13.
Lamp bulbs, Sealing-in and molding. M. E. McGowan. 2,351,530; June 13.
Land mine. G. C. Berger. 2,351,474; June 13.
Lehr. C. E. Hahn. 2,351,262; June 13.
License plate holder. W. J. Aigner and A. J. Schuenemann. 2,350,993; June 13.
Lipstick container-dispenser. H. Broder. 2,351,395; June 13.
Liquid dispensing apparatus. M. J. Goldberg. 2,351,331; June 13.
Liquid dispensing apparatus. C. P. Griffith and W. A. Barr. 2,351,503; June 13.

Liquid level gauge. H. E. Brelsford. 2,351,099; June 13.
Liquid level indicator. H. E. Brelsford. 2,351,101; June 13.
Liquid straining device. A. M. Goodloe. 2,351,332; June 13.
Liquors for recovery of glycerol, Treating fermented. E. Farber, V. Dayton, and J. S. Wallerstein. 2,351,413; June 13.
Lister. W. H. Silver. 2,351,078; June 13.
Lock: *See*—
Tubular lock.
Lock end wire-bound shipping container. L. W. Bauer. 2,351,092; June 13.
Locking device for roll-off van bodies. R. Ario. 2,351,314; June 13.
Loom. J. O. Hunt. 2,351,513; June 13.
Loom. V. Petruccione. 2,351,364; June 13.
Loom shuttle. A. Viliani. 2,351,244; June 13.
Low melting polyamides. L. F. Salisbury. 2,351,074; June 13.
Lubricant. J. D. Morgan. 2,351,280; June 13.
Lubricant, Anti-ring-sticking. E. R. White. 2,351,380; June 13.
Luggage box. G. T. Henderson and N. A. Ringholz. 2,351,207; June 13.
Machine for cleaning fur. S. Friedman. 2,351,198; June 13.
Machine for grinding "V" jewels. M. Koulish. 2,351,134; June 13.
Machine for interning tube ends. C. L. Dewey. 2,351,020; June 13.
Machine for photographically composing type characters. A. G. Highton. 2,351,126; June 13.
Magnetic recorder. M. Camras. 2,351,005; June 13.
Magnetic recorder heads, Energizing. M. Camras. 2,351,011; June 13.
Machine for reenforcing clothespins. J. R. Nolan. 2,351,450; June 13.
Magnesium, Producing. H. S. Cooper. 2,351,488; June 13.
Magnetic recording. M. Camras. 2,351,004; June 13.
Magnetic recording head. M. Camras. 2,351,006–7; June 13.
Magnetic suspension for horizontal shafts. A. Hansen, Jr. 2,351,424; June 13.
Manifolding material, Normally inert. J. Q. Sherman. 2,351,073; June 13.
Marker. H. S. Jonsson. 2,351,519; June 13.
Marking device. A. C. Nystrom. 2,351,224; June 13.
Mast, Portable. F. L. McConnel. 2,351,275; June 13.
Maternity support garment. M. R. Schubert. 2,351,296; June 13.
Measuring. R. Gillis. 2,351,201; June 13.
Mechanical movement. R. T. Bedard. 2,351,389; June 13.
Mercaptan modified polymeric derivatives of non-benzenoid acetylene polymers and making same. A. M. Collins. 2,351,108; June 13.
Metallurgical furnace. H. S. Cooper. 2,351,489; June 13.
Microphone. R. W. Carlisle. 2,351,400; June 13.
Mineral oils with clay, Refining. M. W. Morgan. 2,351,445; June 13.
Microscopic slide. W. H. Oliver, Jr. 2,351,282; June 13.
Mold: *See*—
Shaping mold.
Molded barrel-shaped container. E. A. Anderson. 2,351,387; June 13.
Mothproofing. H. N. Mitchell. 2,351,359; June 13.
Motor: *See*—
Air motor.
Outboard motor.
Motor chassis, Dual. P. Schon. 2,351,233; June 13.
Motor control system. J. H. Borden. 2,351,316; June 13.
Motor vehicle suspension. A. W. Ross. 2,351,291; June 13.
Mounting: *See*—
Hand telephone mounting.
Vibration damping mounting.
Mounting for rear-vision mirrors. E. T. Welsh. 2,351,087; June 13.
Multiple barrel gun. C. Formhals. 2,351,257; June 13.
Multiple-point connecting device. C. W. Bristol. 2,351,394; June 13.
Muntin assembly clip. M. G. Hodson. 2,351,127; June 13.
Musical instrument. B. N. Fomeen. 2,351,497; June 13.
Neutralizing inductive disturbances in magnetic reproducers. M. Camras. 2,351,008; June 13.
Nitriles, Purification of. W. L. Semon. 2,351,157; June 13.
Nonchattering relief valve. R. G. Holt. 2,351,512; June 13.
Nozzle construction. C. K. Huthsing. 2,351,430; June 13.
Offset keyway gauge. A. J. Casali. 2,351,105; June 13.
Oil burner. C. M. Snyder. 2,351,372; June 13.
Oil, Cracking of hydrocarbon. E. J. Gohr. 2,351,422; June 13.
Oil refining, Vegetable. P. D. Boone. 2,351,184; June 13.
Oil saver. J. A. L. Kelley. 2,351,343; June 13.
Oil, Turbine. D. B. Luten, Jr. 2,351,347; June 13.
Oil well pumping jack unit, Long stroke deep. L. A. Blackburn. 2,351,183; June 13.
Oils, Treating castor and similar. H. S. Miller. 2,351,444; June 13.
1,3-isoquinolinediols, Manufacturing. H. A. Bergstrom and W. V. Wirth. 2,351,391; June 13.
Opener for planters and the like, Furrow. C. H. White. 2,351,173; June 13.
Optical system composed of lenticules. D. Gabor. 2,351,034; June 13.
Organic compounds, Reduction of. A. L. Fox. 2,351,196; June 13.
Oscillator coil and erasing head for magnetic recorders, Combination. M. Camras. 2,351,009; June 13.
Oscillator, Electric valve. O. W. Livingston. 2,351,439; June 13.
Outboard motor. R. Karey. 2,351,050; June 13.
Oven. E. W. Cooney. 2,351,487; June 13.
Oxygen from normally gaseous olefins, Removal of. V. W. Ware. 2,351,167; June 13.
Package. H. B. Tuthill. 2,351,306; June 13.
Package, Self-dispensing. W. E. Amberg. 2,351,470; June 13.
Packaging machine. V. G. Williams. 2,351,382; June 13.
Pantograph. R. Pash. 2,351,452; June 13.
Patch applying apparatus. R. S. Colley. 2,351,404; June 13.
Pecan hulls for treating muds, Use of. F. W. Jessen and J. L. Battle. 2,351,434; June 13.
Petroleum emulsions, Breaking. M. De Groote and B. Keiser. 2,351,017–18; June 13.
Phase and frequency modulation receiver. B. Trevor. 2,351,240; June 13.
Photographic apparatus. J. P. Caracciolo, F. Caracciolo and G Caracciolo. 2,351,399; June 13.
Pickup mechanism. A. W. Oehler. 2,351,144; June 13.
Pile form. A. E. Troiel. 2,351,164; June 13.
Pin spreader. F. H. Beach. 2,350,998; June 13.
Pipe bender. A. J. Matter. 2,351,279; June 13.
Pipe coverings, Forming. W. H. Atkinson and H. W. Collins. 2,350,996; June 13.
Pipe cutter. C. C. Brown and J. J. Hastik. 2,351,187; June 13.
Pistol, Signal. D. R. P. Jackson. 2,351,268; June 13.
Piston. J. M. Simpson. 2,351,554; June 13.
Plastic composition. H. M. Sonnichsen. 2,351,301; June 13.
Plastic compound. M. de Becker Remy. 2,351,149; June 13.
Plug cutting tool. R. J. Kent. 2,351,435; June 13.
Plug for batteries, Nonspill vent. G. W. Younkman. 2,351,177; June 13.
Polarimeter apparatus. W. F. Peck. 2,351,539; June 13.
Pole incising mechanism. G. Charland. 2,351,401; June 13.
Polished rod pumper jack. T. T. Thigpen. 2,351,576; June 13.
Polishing machine for "V" jewels. L. C. Blanchon. 2,351,095; June 13.
Polymeric vinylidene chloride composition. E. C. Britton and F. L. Taylor. 2,351,102; June 13.
Polmerization of ethylenic materials. W. E. Hanford. 2,351,120; June 13.
Power transmission. F. T. Harrington, R. C. Griffith and R. A. Shartle. 2,351,263; June 13.
Power transmission. F. T. Harrington and J. Robinson. 2,351,264; June 13.
Power transmission. A. L. Vaughn. 2,351,242; June 13.
Power unit. J. G. Hawley. 2,351,040; June 13.
Predetermining system. P. F. K. Erbguth. 2,351,326; June 13.
Preparation of aryl ethers of trihydric alcohols. K. E. Marple and T. W. Evans. 2,351,025; June 13.
Preparation of detergent mixtures. A. Treffler. 2,351,559; June 13.
Preselector. T. Obszarny. 2,351,451; June 13.
Press: *See*—
Printing press.
Pressure and temperature relief valve. O. F. Carlson. 2,351,190; June 13.
Pressure regulator. A. D. Krugler. 2,351,135; June 13.
Printing apparatus, Intaglio. W. O. Dick. 2,351,021; June 13.
Printing machine, Rotary. F. Shurley. 2,351,552; June 13.
Printing press. A. J. Carpenter, Jr. 2,351,013; June 13.
Prismatic accumulator gauge. H. E. Brelsford. 2,351,100; June 13.
Production of methyl glycerol. H. P. Staudinger and K. H. W. Tuerck. 2,351,302; June 13.
Propeller inhibitor. T. F. W. Meyer. 2,351,356; June 13.
Pulverulent metallic substance for electromagnetic purposes. G. Trageser. 2,351,462; June 13.
Pump: *See*—
Centrifugal pump.
Engine fuel pump.
Fuel injection pump.
Purifying solutizer solutions. J. G. Wilson. 2,351,467; June 13.
Push button mechanism for tuning radio receivers. C. Metcalfe and H. J. Parrish. 2,351,443; June 13.
Push rake and stacker, Combined. P. E. Carter. 2,351,104; June 13.
Pusher. S. B. Martin. 2,351,220; June 13.
Pyrolysis. J. G. Lichty. 2,351,346; June 13.

Rack: *See*—
File rack.
Railway traffic controlling apparatus. J. M. Pelikan. 2,351,540; June 13.
Reactance tube. W. Van B. Roberts. 2,351,368; June 13.
Recorder. A. E. Anderson. 2,350,994; June 13.
Recorder for testing machines. J. Sivertsen. 2,351,574; June 13.
Recording and reproducing of vibrations. M. Camras and W. Korzon. 2,351,003; June 13.
Recording measuring instrument. G. Swift. 2,351,081; June 13.
Refrigerating apparatus. A. O. Grooms. 2,351,038; June 13.
Refrigeration apparatus. G. S. McCloy. 2,351,139–40; June 13.
Registering device for printing. W. L. McCarter. 2,351,274; June 13.
Regulator: *See*—
Automatic speed regulator.
Bottom hole regulator.
Fluid pressure regulator.
Pressure regulator.
Roll pressure regulator.
Regulator auxiliary. J. Segel. 2,351,156; June 13.
Retractable landing gear. E. S. Kleinhans and D. E. Dunlap. 2,351,215; June 13.
Rinsing soap from washed clothing. A. Schellenberg. 2,351,295; June 13.
Road constructional material. H. Ulrich, E. Ploetz and O. Ferrares. 2,351,241; June 13.
Rock bit. W. L. Childs, J. F. Shaw and W. B. Noble. 2,351,320; June 13.
Roll pressure regulator, Slasher squeeze. A. S. Norcross. 2,351,534; June 13.
Rotary burner for gas and oil. C. W. Gibson. 2,351,421; June 13.
Rotor brake. C. E. Tack. 2,351,575; June 13.
Rubber articles, Manufacturing thin. F. E. Hahne. 2,351,202; June 13.
Rubber-coated artificial filaments, Preparing. F. P. Alles. 2,351,090; June 13.
Rubber, Manufacture of sponge. E. C. Svendsen and W. J. Clayton. 2,351,556; June 13.
Rubber products, Manufacture of gas-expanded. W. V. Smith. 2,351,555; June 13.
Rubber torsion units, Method and apparatus for making. J. H. Gerstenmaier. 2,351,329; June 13.
Rubber valve handling apparatus. E. D. George and H. M. Brown. 2,351,200; June 13.
Runway, Emergency landing. G. Burton. 2,351,002; June 13.
Runway for airports and the like and making same. G. C. Littlefield. 2,351,273; June 13.
Saddle coupling. P. D. Merrill. 2,351,141; June 13.
Safety device. H. A. Mantz. 2,351,277; June 13.
Safety switch and limit control, Combined. H. F. Alfery. 2,350,978; June 13.
Sandblasting apparatus. R. G. Le Tourneau. 2,351,272; June 13.
Scaffold hanger for ladders. W. C. Yarmolowich. 2,351,310; June 13.
Screen: *See*—
Television viewing screen.
Screen for paper stock and the like. O. Imset. 2,351,048; June 13.
Seal between center electrode and insulator of spark plugs, Effecting. J. A. Jeffery. 2,351,128; June 13.
Seismic prospecting. R. L. Lay, B. H. Treybig, Jr., and L. M. Hubby. 2,351,524; June 13.
Seismic prospecting. N. H. Ricker. 2,351,456; June 13.
Selecting system. N. D. Newby. 2,351,360; June 13.
Semitrailer construction. E. J. Sattler. 2,351,151; June 13.
Sender load control. O. Myers. 2,351,446; June 13.
Shackle, Bomb. A. T. Potter. 2,351,147; June 13.
Shaft bearing. D. E. Irons. 2,351,431; June 13.
Shaping and shearing sheet materials, Method and apparatus for. J. L. Berger. 2,351,475; June 13.
Shaping mold. E. A. Luxenberger, H. C. Erich, and M. M. Cunningham. 2,351,529; June 13.
Sharpener, Razor blade. L. Levy. 2,351,438; June 13.
Sheet feeding mechanism. E. G. Rider. 2,351,367; June 13.
Ship. T. Boyle. 2,351,478; June 13.
Shock cord installation tool. E. E. Clark. 2,351,403; June 13.
Shoe. C. H. Daniels and M. P. Foy. 2,351,323; June 13.
Shoe-shining kit. R. H. David. 2,351,407; June 13.
Showcase, Illuminated. J. E. Holmes. 2,351,335; June 13.
Shuttle checking means. C. D. Brown. 2,351,189; June 13.
Sight device for archery bows. O. H. Brown. 2,351,103; June 13.
Signal device. D. Swarovski. 2,351,080; June 13.
Silica refractory. F. A. Harvey and R. E. Birch. 2,351,204; June 13.
6-(p-aminobenzene sulphonyl)-amino-2:7-dimethylpyrimidine and its manufacture. H. Gysin. 2,351,333; June 13.
Soap grease, Lithium. H. A. Woods and J. M. Plantfeber. 2,351,384; June 13.
Solder alloy. G. M. Bouton, G. S. Phipps, and E. E. Schumacher. 2,351,477; June 13.
Solution for the preparation of rayon. K. R. Brown. 2,350,985; June 13.
Spark plug manufacture. H. R. Feichter. 2,351,029; June 13.
Spectacle case. E. Nathan. 2,351,447; June 13.
Spectrograph, Grating. W. M. Rust, Jr., and M. A. Arthur. 2,351,457; June 13.
Speed unit, Variable. A. Rafter. 2,351,148; June 13.
Splicing clamp. E. E. Clark. 2,351,402; June 13.
Spraying device. L. T. Ward. 2,351,376; June 13.
Squeeze riveter. F. A. Kaman. 2,351,049; June 13.
Stabilizer for guns. S. G. Greene. 2,351,037; June 13.
Stamping machine and the like. L. Nachemov. 2,351,281; June 13.
Staple. H. S. Heller. 2,351,045; June 13.
Stapling machine. H. S. Heller. 2,351,042–4; June 13.
Steering wheel or the like and making the same, Tubular. A. Rickard. 2,351,289; June 13.
Stilt. M. Pearson. 2,351,145; June 13.
Stopper for nonrefillable receptacles. R. Petrone. 2,351,227; June 13.
Stretcher. J. E. Pike. 2,351,146; June 13.
Stud setting and removing tool. S. Schnabolk. 2,351,232; June 13.
Stylus operating means. L. H. Chase and L. C. Spenard. 2,351,319; June 13.
Sunglass attachment for eyeglasses. E. Reichert. 2,351,287; June 13.
Superregenerative receiver circuit. G. Mountjoy and C. W. Finnigan. 2,351,221; June 13.
Support: *See*—
Grid support.
Support and mounting for washing machine tubs. T. R. Smith. 2,351,237; June 13.
Support for sandwich toasters, Heating element. M. F. Weida. 2,351,466; June 13.
Suspension for multiwheel vehicles. L. R. Buckendale. 2,351,001; June 13.
Switch: *See*—
Electric switch.
Swivel mechanism for seats. A. E. Davies. 2,351,194; June 13.
System for storage and utilization of fuel gases. A. N. Kerr. 2,351,131; June 13.
System of photography and projection in relief. D. Gabor. 2,351,032; June 13.
System of projecting pictures in stereoscopic relief. D. Gabor. 2,351,033; June 13.
Tag fastening device. D. M. Swett and S. E. Van Tuyl. 2,351,557; June 13.
Take-up for cords or the like, Shortening. H. H. Wehringer. 2,351,379; June 13.
Tank construction. H. Hammeren. 2,351,509; June 13.
Tanning with D'-methoxy-D-hydroxymethyl diglycollic aldehyde. K. L. Howard. 2,351,338; June 13.
Tape feed alarm. L. M. Potts. 2,351,229; June 13.
Telegraph apparatus. J. W. Long. 2,351,137; June 13.
Telephone set. O. A. Shann. 2,351,459; June 13.
Telephone system. C. F. Seibel. 2,351,551; June 13.
Television viewing screen. O. H. Schade. 2,351,294; June 13.
Terminal for vacuum-type furnaces. H. S. Cooper. 2,351,490; June 13.
Thermionic tube. E. C. Ewing. 2,351,026; June 13.
Thermometer reader. D. J. Pratesi. 2,351,455; June 13.
Thermostatic expansion valve. A. P. Anderson. 2,351,313; June 13.
Thermostatically controlled device. H. J. C. Wells. 2,351,086; June 13.
Thread tension for sewing machines. F. Ashworth. 2,350,995; June 13.
Thread-winding apparatus. H. W. Doughty, Jr. 2,351,411; June 13.
Threaded locking devices, Making. R. W. Luce. 2,351,057; June 13.
Thiazyl sulphenamide derivatives. W. H. Ebelke. 2,351,496; June 13.
Thresher. A. B. Welty. 2,351,567; June 13.
Tires or shoes for automobiles, airplanes, and the like. C. Hannevig. 2,351,334; June 13.
Tobacco conveyer, Positive. F. Di Ianni. 2,351,410; June 13.
Toll checking system. B. Cooper. 2,351,405; June 13.
Tool: *See*—
Agricultural soil working tool.
Battery service tool.
Cutting and threading tool.
Plug cutting tool.
Shock cord installation tool.
Stud setting and removing tool.
Tool lift mechanism. C. H. White. 2,351,172; June 13.
Toy boat or glider. W. H. Paull. 2,351,542; June 13.
Toy stick horse. R. G. Harless. 2,351,510; June 13.
Tractor-mounted implement. B. R. Benjamin. 2,351,473; June 13.
Transformer anchoring means. R. Boeringer. 2,351,097; June 13.
Transmission. B. J. Craig. 2,350,989; June 13.
Transmission. W. S. James. 2,351,213; June 13.
Transmission. A. J. Meyer and R. E. Taylor. 2,351,061; June 13.

Transmission control. H. E. Carnagua. 2,351,483; June 13.
Transmission line. M. Katzin and F. J. W. Schoenborn. 2,351,520; June 13.
Transmitting or receiving set, Wireless. D. Boterweg, and F. C. W. Slooff. 2,351,185; June 13.
Tray, Cigarette. J. M. Kisselle. 2,351,052; June 13.
Treating paper stock, Method and apparatus for. E. Cowles. 2,351,492; June 13.
Treating surfaces. H. Osterberg, G. E. Pride, and R. K. Luneburg. 2,351,536; June 13.
Tube: *See*—
Reactance tube.
Thermionic tube.
Tube for producing multiple wave lengths. G. Lakhovsky. 2,351,055; June 13.
Tubular lock. S. Segal. 2,351,077; June 13.
Turbine-driven locomotive apparatus. W. A. Brecht. 2,351,479; June 13.
Turbotransmission. J. Jandasek. 2,351,516–17; June 13.
2, 2, 3 trichloro- and tribromo-alkanal-1 compounds and the hydrates thereof, Making. R. L. Brown and R. E. Plump. 2,351,000; June 13.
Typewriter, Practice. A. Emanuel. 2,351,324; June 13.
Typewriting machine. F. Schultz. 2,351,075; June 13.
Universal head for machine tools. C. E. Walling. 2,351,246; June 13.
Vacuum cleaner. R. L. Hallock. 2,351,507; June 13.
Vacuum operated counterbalance. C. R. Buchet. 2,351,397; June 13.
Valve: *See*—
Cut-off valve.
Flow responsive alarm valve.
Nonchattering relief valve.
Pressure and temperature relief valve.
Thermostatic expansion valve.
Valve. H. J. M. Burdick. 2,350,988; June 13.
Valve. E. V. Schaal. 2,351,547; June 13.
Valve for safety inner tubes and the like. F. A. Krusemark. 2,351,054; June 13.
Vaporous mixtures containing air, Method of producing. H. H. Schmidt. 2,351,072; June 13.
Variable angle drive mechanism. G. E. Oakley and P. M. Griffin. 2,351,535; June 13.
Varnishes, Manufacture of. A. E. Rheineck and S. B. Creeebus. 2,351,545; June 13.
Vat, Immersing. F. Hobbs. 2,351,210; June 13.
Vending machine. O. D. Jennings and E. Mihalek. 2,351,432; June 13.
Vibration damping mounting. R. C. Henshaw. 2,351,427; June 13.
Vinyl polymers, Dyeing. K. Heymann. 2,351,046; June 13.
Vitrified grinding wheel. G. N. Jeppson and M. F Beecher. 2,351,433; June 13.
Wall bracket, Swing-out-of-the-way-type. R. E. McLean. 2,351,531; June 13.
Wall construction and device therefor. M L. Leary. 2,351,525; June 13.
Water purification apparatus. D. J. Evans. 2,351,113; June 13.
Water-soluble salts of carboxyalkyl cellulose, Recovery of. R. D. Freeman and R. C. Anthonisen 2,351,258; June 13.
Weighing mechanism. D. W. Molins, C. Best, and G. F. W. Powell. 2,351,532; June 13.
Weighing mechanism. D. W. Molins, C. Best, and G. F. W. Powell. 2,351,533; June 13.
Welding electrode. R. E. Powell. 2,351,230; June 13.
Well surveying method and apparatus. R. E. Fearon. 2,351,028; June 13.
Wheel: *See*—
Abrading wheel.
Vitrified grinding wheel.
Wheel dresser, Grinding. H. W. Kropf and A. J. Brickner. 2,351,269; June 13.
Wheel for vehicles, Resilient. M. Benito y de la Rosa and D. Clavijo y Garcia. 2,350,980; June 13.
Winding machine. G. S. Beckman. 2,351,472; June 13.
Window regulator mechanism. J. B. Parsons. 2,351,285; June 13.
Window screen clip. G. T. Williams and W. F. Story, Jr. 2,351,570; June 13.
Window shade, Reversible. A. L. Thexton. 2,351,373; June 13.
Window ventilator for casements. O. Kubatzky. 2,351,522; June 13.
Wire sawing. H. F. Wilhelm. 2,351,175; June 13.
Work clamp. C. T. Ketz. 2,351,436; June 13.
X-ray exposure system. J. M. Constable and R. W. Stamm. 2,351,486; June 13.
Yarn and spool holder. A. F. Flournoy. 2,351,418; June 13.
Zeolites, Regenerating. N. G. Stone and S. W. Holliday. 2,351,160; June 13.
Zinc, Manufacture of. H. Wolf, E. Kuss, H. Hohn, and F. Stietzel. 2,351,383; June 13.

CLASSIFICATION OF PATENTS

ISSUED JUNE 13, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Adjudicated Patent

(C. C. A. N. Y.) Derman patent, No. 1,933,099, for built-up container, claims 11, 13, and 14 *Held* invalid. *Derman* v. *Stor-Aid, Inc.*, 141 F.(2d) 580.

Briefs in Appealed Cases

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed:

Pat. 2,167,279, F. L. Manny, Rotary punching and notch cutting machine, decided March 28, 1944, claims 10, 24, 26, 27, and 28.

Pat. 2,300,950, Frederick Lux, Timer, decided May 24, 1944, claims 2, 3, 4, 7, and 8.

Pat. 2,231,418, H. O. Trotter, Liquid-administering apparatus, decided May 20, 1944, claims 1, 2, and 3.

Pat. 2,235,127, C. W. Tyson, Process for removing volatile solvents from polymerized substances, decided March 31, 1944, claim 1.

Disclaimers

2,235,127.—*Charles W. Tyson*, Summit, N. J. PROCESS FOR REMOVING VOLATILE SOLVENTS FROM POLYMERIZED SUBSTANCES. Patent dated March 18, 1941. Disclaimer filed May 16, 1944, by the assignee, *Jasco, Incorporated.*

Hereby disclaims claim 1 of said patent.

2,252,984.—*John T. Rutherford* and *Robert J. Miller*, Berkeley, Calif. COMPOUNDED HYDROCARBON OIL. Patent dated August 19, 1941. Disclaimer filed May 10, 1944, by the assignee, *Standard Oil Company of California.*

Hereby enters this disclaimer to claims 1, 4, 5, 8, 11, 13, 14, 15, 17, 18, 19, 20, and 24 of said patent.

NOTICE

Attorneys and agents filing amendments and other papers in connection with pending applications are urged to indicate thereon the division to which the application has been assigned for examination. This will frequently eliminate the necessity of correspondence between the Richmond Office and the Washington Office, and thereby avoid delay.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business June 3, 1944

Total number of applications awaiting action, excluding Trade-Mark Division, 45,813; Trade-Mark Division, 1,511. Oldest new case, June 30, 1943; oldest amended, July 10, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers, Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	†Jan. 17	Dec. 10	428
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses: Tobacco; Textile Wringers; Butchering.	Nov. 17	Dec. 2	593
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Oct. 29	Oct. 12	970
4. BISHOP, WALTER C., Conveyers; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 28	Oct. 11	486
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 22	Sept. 20	1,115
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 12	Dec. 2	1,157
7. JARBOE, C. G., Optics, Photography	†Jan. 8	†Jan. 19	752
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	†Jan. 15	Nov. 4	495
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Dec. 23	Dec. 17	687
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Feb. 2	Dec. 10	254
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Sept. 24	Sept. 13	1,029
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	Dec. 20	Dec. 20	555
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Jan. 31	†Jan. 24	634
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	Dec. 24	Dec. 30	765
16. SPENCER, C. J., Telegraphy; Telephony	Dec. 31	Dec. 31	581
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 28	Sept. 30	524
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 14	July 10	863
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Dec. 10	Dec. 4	532
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	†Jan. 20	†Jan. 12	350
21. THOMPSON, T. J., Textiles	Dec. 21	Nov. 1	433
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Oct. 15	Oct. 15	1,096
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 19	Aug. 2	180
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 21	†Jan. 1	516
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Nov. 17	Nov. 27	733
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 1	Sept. 9	922
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 16	Sept. 17	503
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Sept. 16	Sept. 3	744
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 22	Dec. 16	693
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Sept. 9	Sept. 18	1,041
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 24	Dec. 11	1,044
32. LESH, K. ,Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 16	Nov. 17	624
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	†Jan. 17	†Jan. 17	632
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	†Jan. 3	†Jan. 7	551
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	†Feb. 10	Dec. 9	488
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 20	†Jan. 12	431
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 4	Oct. 22	735
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Oct. 20	Oct. 5	499
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 20	Dec. 20	676
40. DRUMMOND, E. J., Receptacles (part); Packages	†Jan. 22	†Jan. 19	625
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 13	Sept. 18	425
42. MARANS, H., Electric Signaling	†Jan. 24	†Jan. 29	328
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Nov. 15	Nov. 6	758
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 1	Oct. 4	408
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 20	Nov. 24	1,014
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Nov. 2	Nov. 2	489
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	†Jan. 27	Dec. 9	599
48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Nov. 9	Nov. 6	802
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 11	Nov. 18	658
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Nov. 27	Nov. 27	1,401
51. CROCKER, A. W., Radiant Energy, Multiplex Telephony, Modulators	Oct. 19	Oct. 23	1,386
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Nov. 20	Nov. 3	776
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	†Jan. 1	Nov. 10	424
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 30	July 30	795
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Sept. 27	Oct. 4	631
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Nov. 13	Nov. 10	746
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 12	Sept. 30	767
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Dec. 3	Dec. 24	637
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Sept. 28	Oct. 14	1,361
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 27	Sept. 27	807
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Nov. 27	Dec. 7	475
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Jan. 3	Dec. 7	845
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 1	Sept. 23	948
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	†Jan. 15	†Jan. 15	1,027
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Aug. 24	Aug. 13	881
Trade-Marks: RICHMOND, F. A.	†Apr. 3	†May 3	1,511
Designs: KALUPY, H. H	†Apr. 26	†May 10	489

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

SINCLAIR REFINING COMPANY

v.

COE, COMMISSIONER OF PATENTS

No. 8,479. Decided May 1, 1944

PATENTABILITY—OIL CRACKING.

Certain claims of three applications relating to the cracking of oils *Held* unpatentable over the prior art.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Louis D. Forward (*Messrs. Clarence M. Fisher* and *Raymond F. Adams* of counsel) for Sinclair Refining Company.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before MILLER, EDGERTON and ARNOLD, Associate Justices

PER CURIAM:

Even assuming, although not deciding, that this proceeding was properly brought under section 4915, R. S.,[1] we are satisfied, nevertheless, that the disputed claims were unpatentable over the prior art; hence that they were properly rejected by the Patent Office and by the district court.[2]

Affirmed.

U. S. Court of Appeals for the District of Columbia

CORNING GLASS WORKS

v.

COE, COMMISSIONER OF PATENTS

No. 8,531. Decided April 10, 1944

PATENTABILITY—REFRACTORY PRODUCT AND METHOD OF MAKING IT.

Appellant *Held* not entitled to a patent on a refractory product and method of making the product.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Vernon M. Dorsey for Corning Glass Works.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before GRONER, Chief Justice, and MILLER and PROCTOR, Associate Justices of the district court

PER CURIAM:

The findings and judgment of the trial court find full support in the record. Appellant has failed to meet the burden imposed upon a plaintiff in a section 4915 proceeding [1] and is not entitled to a patent.

Affirmed.

U. S. Court of Appeals for the District of Columbia

ROBERT SCHILLING, GENERAL MOTORS CORPORATION

v.

SCHWITZER-CUMMINS COMPANY

No. 8,412. Decided March 31, 1944

1. APPEAL—SUIT UNDER SECTION 4915 R. S.—FINDINGS.

"In its preliminary memorandum opinion the trial court found the facts to be 'substantially as claimed by the defendant * * *' and directed counsel to draft findings. Appellants contend this is not a commendable procedure; that the findings subsequently made are entitled to no weight; and, consequently, that the case should be considered by this court, on the evidence, de novo. Assuming the correctness of the premise, the conclusion does not follow. In such a situation as that of the present case, if adequate findings had not been made, the proper procedure would be to remand the case to the trial court and direct that new findings be made. It is not the function of an appellate court to assume the powers of the trial court; which it would do, necessarily, if it tried, de novo, such a case as the present."

2. CIVIL ACTION—FINDINGS—PREPARATION OF FINDINGS.

"The premise assumed by appellants is incorrect. Whatever may be the most commendable method of preparing findings—whether by a judge alone, or with the assistance of his court reporter, his law clerk and his secretary, or from a draft submitted by counsel—may well depend upon the case, the judge, and facilities available to him. If inadequate findings result from improper reliance upon drafts prepared by counsel—or from any other cause—it is the result and not the source that is objectionable. It is no more appropriate to tell a trial judge he must refrain from using or requiring the assistance of able counsel, in preparing his findings, than it would be to tell an appellate judge he must write his opinions without the aid of briefs and oral argument. What the law requires in this respect is that the findings as made, shall be those of the trial judge himself."

3. SAME—SAME—ADEQUACY OF FINDINGS.

"The ultimate test as to the adequacy of findings will always be whether they are sufficiently comprehensive and pertinent to the issues to provide a basis for decision, and whether they are supported by the evidence. To the extent that they are, in addition, concisely stated, non-argumentative in form, free from conclusions of law and from the redundancy so frequently found in pleadings, they will be more useful to all concerned."

4. SAME—SAME—SAME.

"While counsel may be disappointed that findings do not discuss propositions sincerely contended for, that alone, does not make them inadequate or suggest that such propositions were not understood by the court."

[1] *Hemphill Co.* v. *Coe*, 527 O. G. 486, 74 App. D. C. 123, 124, 121 F.(2d) 897, 898: "Under section 4915, an appeal from a decision of the Patent Office (Board of Appeals) to the Court of Customs and Patent Appeals precludes later maintenance of a bill in equity upon the same application. The remedies are alternative and mutually exclusive . . . The remedy elected is conclusive of the issues raised and of those which might have been raised. A party therefore by filing a second application cannot obtain a review of questions which were, or might have been, determined on a review relating to the first."

[2] *Abbott* v. *Coe*, 512 O. G. 3, 71 App. D. C. 195, 197–198, 109 F.(2d) 449, 451–452; *Daniels* v. *Coe*, 521 O. G. 787, 73 App. D. C. 54, 58, 116 F.(2d) 941, 945; *Morrison* v. *Coe*, 537 O. G. 269, 75 U. S. App. D. C. 219, 220, 127 F.(2d) 737, 738.

[1] *Abbott* v. *Coe*, 71 App. D. C. 195, 197–198, 109 F.(2d) 449, 451–452, 512 O. G. 3; *Daniels* v. *Coe*, 73 App. D. C. 54, 58, 116 F.(2d) 941, 945, 521 O. G. 787; *Morrison* v. *Coe*, 75 U. S. App. D. C. 219, 220, 127 F.(2d) 737, 738, 537 O. G. 269.

5. SUIT UNDER SECTION 4915 R. S.—INTERFERENCE—EVIDENCE.

"One who assumes the difficult burden placed upon a plaintiff in a section 4915 proceeding, does not aid his cause by giving ground for the impression that he deliberately failed to make a full disclosure in the Patent Office. • • • While the 1927 amendment to section 4915, R. S. contemplated a de novo trial in the district court and made the record in the Patent Office proceeding available, along with other evidence, for that purpose, it was not intended to encourage the practice of suppressing evidence before the administrative agency, for whatever purpose."

6. SAME—SAME—SAME.

"Whether or not withholding evidence may constitute suppression will depend upon the circumstances of the particular case."

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Arthur Raisch (*Messrs. Stuart C. Barnes* and *John G. Sbarbaro* of counsel) for Robert Schilling, General Motors Corporation.

Mr. Ralph G. Lockwood (*Mr. Dwight B. Galt* of counsel) for Schwitzer-Cummins Company.

Before GRONER, Chief Justice, and MILLER and EDGERTON, Associate Justices

MILLER, *A. J.*:

This appeal arises out of a section 4915 proceeding in the district court which, in turn, followed an interference proceeding in the Patent Office. Invention is conceded; the improvement being an automatic seal, a self-contained assembly which can be handled and put in place as a unit, intended primarily for water pumps used on automobiles. Both the Patent Office and the district court decided in favor of appellee. Specifically, the court found:

"5. The invention in issue relates to a fluid seal generally used to seal the water pump shaft in water cooled motors, including a self-contained non-exploding sealing unit, as set forth and particularly described and claimed in plaintiff's application, claims 19 to 22, inclusive. 6. The defendant-patentee, Schwitzer-Cummins Company, has established possession of the invention in issue, as having been invented by its assignor, Kurt A. Beier, on or before November 6, 1935, and its disclosure to plaintiffs by the drawing in evidence as Defendant's Exhibit N and the letter of transmittal thereof to the plaintiffs dated November 6, 1935. 7. The earliest date that plaintiffs have established as their being in possession of the invention in issue and as the invention of Robert Schilling, is November 26, 1935. 8. Plaintiffs have failed to establish that they first disclosed the invention in issue to defendant, Schwitzer-Cummins Company, or its assignor, Kurt A. Beier, the first disclosure of one of said parties to the other being established as the disclosure of defendant, Schwitzer-Cummins Company, to plaintiffs by its letter dated November 6, 1935, transmitting the drawing, Defendant's Exhibit N. 9. Plaintiff's successful tests of the seals produced by defendant, Schwitzer-Cummins Company, according to the said Defendant's Exhibit N, constituted a reduction to practice inuring to the benefit of said defendant's assignor Beier. 10. The plaintiff-applicant Schilling was not the true, original and first inventor or discoverer of the fluid seal as defined by his said claims here in issue, having failed to establish his invention thereof as being prior to that of the said defendant's assignor Beier."

[1] In its preliminary memorandum opinion the trial court found the facts to be "substantially as claimed by the defendant . . ." and directed counsel to draft findings. Appellants contend this is not a commendable procedure; that the findings subsequently made are entitled to no weight; and, consequently, that the case should be considered by this court, on the evidence, de novo. Assuming the correctness of the premise, the conclusion does not follow. In such a situation as that of the present case, if adequate findings had not been made, the proper procedure would be to remand the case to the trial court and direct that new findings be made.[1] It is not the function of an appellate court to assume the powers of the trial court; which it would do, necessarily, if it tried, de novo, such a case as the present.[2]

[2][3][4] However, the premise assumed by appellants is incorrect. Whatever may be the most commendable method of preparing findings—whether by a judge alone, or with the assistance of his court reporter, his law clerk and his secretary, or from a draft submitted by counsel—may well depend upon the case, the judge, and facilities available to him.[3] If inadequate findings result from improper reliance upon drafts prepared by counsel—or from any other cause—it is the result and not the source that is objectionable.[4] It is no more appropriate to tell a trial judge he must refrain from using or requiring the assistance of able counsel,[5] in preparing his findings, than it would be to tell an appellate judge he must write his opinions without the aid of briefs and oral argument. What the law requires in this respect is that the findings as made, shall be those of the trial judge himself.[6] The ultimate test as to the adequacy of findings will always be whether they are sufficiently comprehensive and pertinent to the issues to provide a basis for decision,[7] and whether they are supported by the evidence.[8] To the extent that they are, in addition, concisely stated, non-argumentative in form, free from conclusions of law[9] and from the redundancy so frequently found in pleadings, they will be more useful to all concerned.[10] While counsel may be disappointed that findings do not discuss propositions sincerely contended for, that, alone, does not make them inadequate or suggest that such propositions were not understood by the court. A decision, as between two contestants, necessarily rejects contentions made by one or the other. The Bar—other than counsel who participate in each particular case—complains, only too frequently, of the length of decisions in appellate courts, which results from judicial efforts to reflect consideration of contentions made by both parties. Certainly, we should not require or encourage trial judges, in preparing findings, to assert the negative of each rejected contention as well as the affirmative of those which they find to be correct.

[5][6] Specifically, appellants say the trial judge disregarded certain evidence upon which they placed great reliance. On the contrary, the judge stated in his memorandum opinion:

"The court concludes that the testimony of the plaintiff's witness, Charles Lewis, and plaintiff's Exhibits Nos. 43, 47, and 51 should not be admitted in evidence because they were readily available to the plaintiff (General Motors Corporation) and were either suppressed or withheld from the Interference Proceedings in the Patent Office, *but even if allowed in evidence the judgment of the court would still be for the defendant, Schwitzer-Cummins Company.*" [Italics supplied.]

The language used by Mr. Justice Rutledge, speaking for this court, in the Boucher Inventions case,[11] is applicable in the present case:

"The practice, under section 4915 as well as within the Patent Office itself, contemplates a full disclosure to that office, so far as is reasonably possible, particularly in relation to models, exhibits, drawings, etc. While the 4915 suit is de novo and permits introduction of evidence not presented to the Patent Office, it does not contemplate the suppression or the withholding of evidence so readily available and of such importance as was Exhibit AR or oversight of such glaring proportions. We have added these views, . . . though not strictly necessary for decision of the cause, to avoid by admonition, if possible, the necessity for making decision on such a ground in another case, in which the consequences might be more serious."

One who assumes the difficult burden placed upon a plaintiff in a section 4915 proceeding,[12] does not aid his cause by giving ground for the impression that he deliberately failed to make a full disclosure in the Patent Office. The same result flows from Judge Wooley's opinion in the Barrett case,[13] upon which appellants rely:

"Specifically our decision is that the plaintiffs in this action under section 4915, R. S., *are estopped to offer evidence which was wholly within their possession and control at the interference proceeding and which they withheld from that proceeding . . .*" [Italics supplied.]

While the 1927 amendment to section 4915, R. S. contemplated a de novo trial in the district court and made the record in the Patent Office proceeding available, along with other evidence, for that purpose,[14] it was not intended to encourage the practice of suppressing evidence before the administrative agency, for whatever purpose.[15] On this appeal, appellants did not deny that the disputed evidence was wholly within their possession and control at the interference proceeding, and was withheld from that proceeding. Whether or not withholding evidence may constitute suppression will depend upon the circumstances of the particular case. But, in any event, after a careful examination of the record—including the disputed evidence—we have concluded there was ample support for the findings and judgment of the trial court; hence, there is no reason to interfere with its determination.[16]

Affirmed.

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[1] *Rainey* v. *Rainey*, 76 U. S. App. D. C. 341, 131 F.(2d) 349; *National Savings & Trust Co.* v. *Shutack*, — U. S. App. D. C. —, 139 F.(2d) 371; *Fogle* v. *General Credit, Inc.*, 71 App. D. C. 338, 110 F.(2d) 128; *Boss* v. *Hardee*, 68 App. D. C. 75, 93 F.(2d) 234. See *Matton Oil Transfer Corp.* v. *The Dynamic*, 2 Cir., 123 F.(2d) 999; *Graham* v. *Bayne*, 18 How. [U. S.] 60.

[2] See 28 U. S. C. A. § 225(*a*): "The circuit courts of appeal shall have appellate jurisdiction to review by appeal . . ." D. C. Code (1940) tit. 17; id. at 11–208.

[3] *Matton Oil Transfer Corp.* v. *The Dynamic*, 2 Cir., 123 F.(2d) 999, 1001: "Of course, we do not mean to imply that a trial court is not privileged to seek such aid of counsel, both as to the facts and the law, as it thinks desirable prior to and as a step in decision; or to limit or restrict in any way the procedure for amending or otherwise correcting findings set forth in F. R. C. P. 52(*b*). Nor do we wish to preclude the trial court from preparing an opinion, for that can be most illuminating and helpful to an appellate court." See Chesnut, Analysis of Proposed New Federal Rules of Civil Procedure, 22 A. B. A. J. 533, 541.

[4] *Epstein* v. *Goldstein*, 2 Cir., 107 F.(2d) 755; *Process Engineers, Inc.*, v. *Container Corp. of America*, 7 Cir., 70 F.(2d) 487, 489.

[5] *Societe Suisse Pour Valeurs de Metaux* v. *Cummings*, 69 App. D. C. 154, 157, 99 F.(2d) 387, 390: "In cases requiring findings of facts it is the better practice to insist that counsel for the prevailing party submit to the court and to the adverse party proposed findings. Thereafter a time should be set at which objections and proposed modifications, eliminations, or additions may be submitted and then, if necessary, a hearing had and the findings settled."

[6] Fed. Rules Civ. Proc., Rule 52(*a*). See *Mayo* v. *Lakeland Highlands Canning Co.*, 309 U. S. 310, 316; *Interstate Circuit, Inc.* v. *United States*, 304 U. S. 55, 56; *Hazeltine Corp.* v. *General Motors Corp.*, 3 Cir., 131 F.(2d) 34, 37.

[7] *Klimkiewicz* v. *Westminster Deposit & Trust Co.*, 74 App. D. C. 333, 334, 122 F.(2d) 957, 958, and cases there collected. See *Heitmeyer* v. *Federal Communications Comm.*, 68 App. D. C. 180, 185, 188, 95 F.(2d) 91, 96, 99; *Saginaw Broadcasting Co.* v. *Federal Communications Comm.*, 68 App. D. C. 282, 288–289, 96 F.(2d) 554, 560–561, cert. denied, 305 U. S. 613, and authorities cited.

[8] *Nichols* v. *Gaston*, 72 App. D. C. 186, 112 F.(2d) 220. See *Florida* v. *United States*, 282 U. S. 194, 212–215; *Heitmeyer* v. *Federal Communications Comm.*, 68 App. D. C. 180, 189, 95 F.(2d) 91, 100.

[9] *Societe Suisse Pour Valeurs de Metaux* v. *Cummings*, 69 App. D. C. 154, 157, 99 F.(2d) 387, 390: ". . . it would have been better if the findings had not been interwoven with conclusions of law and interspersed with expressions of the court's opinion on the merits; but by disregarding the extraneous matter there is enough left to enable us to determine the issues which the case presents." *Heitmeyer* v. *Federal Communications Comm.*, 68 App. D. C. 180, 185, 95 F.(2d) 91, 96.

[10] *Klimkiewicz* v. *Westminster Deposit & Trust Co.*, 74 App. D. C. 333, 334, 122 F.(2d) 957, 958; *Petterson Lighterage & Towing Corp.* v. *New York Central R. Co.*, 2 Cir., 126 F.(2d) 992, 996; *McGee* v. *Nee*, 8 Cir., 113 F.(2d) 543, 546: "The findings should be 'a clear and concise statement of the ultimate facts, and not a statement, report, or recapitulation of evidence from which such facts may be found or inferred.' *Anglo-American L. M. & A. Co.* v. *Lombard*, 8 Cir., 132 F. 721, 734; *Becker* v. *Evans & Howard Sewer Pipe Co.*, [8 Cir., 70 F.(2d) 596, 598] . . ."

[11] *Boucher Inventions, Ltd.*, v. *Sola Electric Co.*, 542 O. G. 599, U. S. App. D. C. 169, 162, 131 F.(2d) 225, 227, cert. denied, 318 U. S. 770.

[12] *Morgan* v. *Daniels*, 67 O. G. 811, 153 U. S. 120, 125; *Cleveland Trust Co.* v. *Berry*, 6 Cir., 99 F.(2d) 517, 522.

[13] *Barrett Co.* v. *Koppers Co.*, 3 Cir., 22 F.(2d) 395, 397. See also, *Greene* v. *Beidler*, 367 O. G. 701, 2 Cir., 58 F.(2d) 207.

[14] Act of March 2, 1927, c. 273, § 11, 44 Stat. 1336–1337.

[15] See *Abbott* v. *Coe*, 512 O. G. 3, 71 App. D. C. 195, 197, 109 F.(2d) 449, 451.

[16] *Abbott* v. *Coe*, 512 O. G. 3, 71 App. D. C. 195, 197–198, 109 F. (2d) 449, 451–452; *Morrison* v. *Coe*, 537 O. G. 269, 75 U. S. App. D. C. 219, 220, 127 F.(2d) 737, 738; *Daniels* v. *Coe*, 521 O. G. 787, 78 App. D. C. 54, 58, 116 F.(2d) 941, 945.

U. S. Court of Customs and Patent Appeals

STEPHEN F. WHITMAN & SON, INC.

v.

CHRISTY COSMETICS, INC.

CHRISTY COSMETICS, INC.

v.

STEPHEN F. WHITMAN & SON, INC.

Nos. 4,829 and 4,831. Decided February 7, 1944

[140 F.(2d) 1001]

1. TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES.

Lipsticks and candy *Held* not to possess the same descriptive properties.

2. SAME—USE.

Where the specimens filed by Christy Cosmetics, Inc., with its application for registration of the term "Sampler" as a trade-mark for lipsticks showed that this term was used merely as a part of the phrase "Christy Lipstick Sampler Set," which was used to describe its "unique package," *Held* that said corporation had not used the term "Sampler" as a trademark and was not entitled to the registration for which it applied.

APPEALS from the Patent Office. Affirmed.

Messrs. Mason, Fenwick & Lawrence (*Mr. Edward G. Fenwick* of counsel) for Stephen F. Whitman & Son, Inc.

Mr. Joseph J. Juhass for Christy Cosmetics, Inc.

HATFIELD, *J.*:

These are cross-appeals in a trade-mark opposition proceeding from the decision of the Commissioner of Patents affirming the decision of the Examiner of Interferences dismissing the notice of opposition of appellant, Stephen F. Whitman & Son, Inc., but reversing the Examiner's decision so far as it held that Christy Cosmetics, Inc. was entitled to the registration of its alleged trade-mark "Sampler" for use on lipsticks.

The applicant, Christy Cosmetics, Inc., alleged in its application for registration that it had used its mark on its goods since June 1932.

In its notice of opposition, the opposer, Stephen F. Whitman & Son, Inc., alleged that it was the owner of trade-mark registration No. 155,868, issued June 6, 1922 (renewed June 6, 1942), of the word "Sampler" for use on candy; that the goods of the parties possessed the same descriptive properties; that the opposer was the prior user of the mark; and that it would be damaged by the registration of applicant's alleged trade-mark "Sampler."

No evidence was introduced by either party, although a copy of the opposer's registration is in the record.

It appears from the record that the applicant filed with its application for registration certain cartons on which, it was contended, appeared the trade-mark as actually used. The cartons were, as stated by the Commissioner, "designed to contain a lipstick and eight samples" of lipstick of different colors which are stated on the cartons to be "the famous Christy colors." The cartons, as stated by the Commissioner, "are labeled 'Christy Lipstick Sampler Set,' all four words being printed in the same type and in a single line." The words "Try All Eight Colors on Your Lips" are also printed on the cartons, together with certain advertising matter and an explanation of the proper manner of testing the colors to determine the one desired.

In holding that the applicant was not entitled to register the term "Sampler" for use on its goods, the Commissioner said:

> The word "sampler," defined as "a specimen or example," is listed as obsolete in Webster's New International Dictionary; but manifestly that is the meaning it is intended to convey to purchasers of applicant's product. Certainly it is not used as a trade-mark, nor is it likely to be considered by the public as an indication of origin. It is merely an apt name describing applicant's unique package.

In appeal No. 4,829, the appellant, Stephen F. Whitman & Son, Inc., appealed from the decision of the Commissioner holding that the goods of the parties did not possess the same descriptive properties and affirming the decision of the Examiner of Interferences dismissing appellant's notice of opposition.

[1] Although it is contended here by counsel for appellant that the goods of the parties possess the same descriptive properties, we think, as did the tribunals of the Patent Office, that they obviously do not.

Counsel for appellant presents no argument here in support of the claim contained in their reasons of appeal that the goods of the parties possess the same descriptive properties. Accordingly, that issue requires no further discussion.

In appeal No. 4,831, the appellant, Christy Cosmetics, Inc., appealed from the decision of the Commissioner holding in an ex parte rejection of appellant's application for registration that appellant had not used the term "Sampler" as a trade-mark; that the term did not indicate to the public the origin of appellant's goods; and that as used the term was "merely an apt name describing applicant's unique package."

Counsel for appellant here contends that appellant is entitled to the registration of the term "Sampler," apparently upon the theory that the term was the dominant feature of a composite trade-mark, and, in support of his contention, counsel cites the case of *In re Standard Underground Cable Company*, 27 App. D. C. 320, 123 O. G. 656.

In that case the applicant sought to register the term "eclipse" as a trade-mark for use on insulated wire. It appears that the label attached to the applicant's goods included the term "eclipse" printed on a dark background representing a partial solar eclipse and the words "Black Core" appearing immediately underneath the dark background. The court there held that it was not unusual for a trade-mark, such as a coined or fanciful word, to be used upon a label on which appeared embellishments and other matter, and that when the Commissioner found that the mark as claimed had been actually used "in interstate or foreign commerce" as a trade-mark he was without authority to require the applicant to add embellishments and other matter appearing on the label to the technical trade-mark desired to be registered.

In the case of *Quaker City Flour Mills Company* v. *Quaker Oats Company*, 43 App. D. C. 260, 214 O. G. 684, it appears that the applicant filed an application for the registration of the term "Quaker" for use on flour. It further appears that it had never used the term "Quaker" alone as a trade-mark, but had used the mark "Quaker City." The court held that as appellant had not used the term "Quaker" as a trade-mark, it was not entitled to register it. In so holding, the court said that the law required that the mark for which registration was sought be the mark that had been actually used as a trade-mark. In support of its decision, the court cited and quoted from the decision in the case of *In Re Motz Tire & Rubber Company*, 40 App. D. C. 487, 193 O. G. 513, where it was held that an applicant was not entitled to the registration of a mark which it had not used as a trade-mark. The court also distinguished the issues in the *Quaker City Flour Mills Company* case from those presented in the case of *In re Standard Underground Cable Company*, supra, stating that the term "City" in the trade-mark "Quaker City" was more than a mere embellishment appearing on appellant's label, that it was an integral part of appellant's trade-mark.

[2] We think it is apparent from the record that applicant has not used the term "Sampler" as a trade-mark. According to the specimens filed with appellant's application, the term has been used merely as a part of the phrase "Christy Lipstick Sampler Set." As used, it was not intended to indicate the origin of appellant's goods. On the contrary, as stated by the Commissioner, it was merely a part of the phrase "Christy Lipstick Sampler Set" which was used to describe applicant's "unique package" arrangement.

The term "Sampler" not having been used as a trade-mark by the applicant, applicant is not entitled to the registration which it seeks.

For the reasons stated, the decision of the Commissioner of Patents is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE LEGGE

No. 4,850. Decided February 7, 1944

[140 F.(2d) 999]

PATENTABILITY—WELDING.

Certain claims to a method of welding martensitic steel *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. John E. Jackson (*Mr. Charles B. Spencer* and *Mr. Edward W. Shepard* of counsel) for Legge.

Mr. W. W. Cochran for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner rejecting certain claims of appellant's application for patent relating to a method of welding steel, particularly martensitic steel. Six claims, numbered 1 to 6, inclusive, were involved before the tribunals of the Patent Office and were included in the appeal to us, but appellant withdrew claims 1, 3, and 4 from the appeal, so that we have to consider only claims 2, 5, and 6.

Claim 2, which is the broadest of the three claims, reads as follows:

> 2. A method of welding martensitic steel, including heating said steel around the welding zone to temperatures sufficiently high so that when said zone is heated during welding to temperatures forming austenite it cools upon completion of welding at a rate effecting direct decomposition of austenite to a product other than martensite, and welding said steel at said zone while said steel around said zone is heated to the first named temperatures, said steel being treated prior to its welding to have a determined tensile strength and the first named temperature being insufficiently high to materially alter said strength.

Claims 5 and 6 specify a range of temperatures from 350 to 1100 degrees Fahrenheit to which the parts of the metal adjacent the weld are heated. Claim 6, in addition, defines the weld resulting from the process as having "a tensile strength exceeding 135,000 lbs. per sq. in."

The brief of the Solicitor for the Patent Office summarizes the teaching of appellant's specification as follows:

> The application relates to a method of welding heat treated martensitic steel in such manner that the welded joint is at least as strong as the welded members. Martensitic steel is a carbon steel which is formed by rapid quenching. The steel thus formed is somewhat brittle but may be heat treated by tempering so that it has a tensile strength of 135,000 to 250,000 lbs. per square inch. The members to be welded are made of this tempered martensitic steel. If the members were welded in the ordinary manner by heating merely the abutting edges to a molten condition, the weld would cool very rapidly because the heat would be conducted away from the weld by the adjacent cold portions of the members. By this rapid cooling the material forming the weld would be transformed to ordinary martensitic steel which as stated before is somewhat brittle. The weld would therefore not be as strong as the tempered martensitic steel members. Appellant's object was to cure this defect by preventing the formation of the brittle martensitic steel in the weld as it cools and causing instead the formation of a stronger steel in the weld. As pointed out above martensitic steel is formed by rapid quenching of heated steel. If the steel is cooled more slowly by keeping the temperature in the neighborhood of 1,000°–1,200° F. for a short time, approximately 10 seconds, the steel is transformed to a variety known as pearlite. This according to appellant is at least as strong as tempered martensitic steel. In his method therefore appellant retards the cooling of the weld material so that it is transformed to pearlite instead of martensite. To retard the rate of cooling appellant heats not only the abutting edges of the members to be welded but also to a somewhat lower temperature the adjacent regions of the members. The heat present in these adjacent regions prevents the undesired rapid cooling of the weld.

The following references were cited in the Board's decision: Anderson, 1,930,847, October 17, 1933; Bain et al., 1,924,099, August 29, 1933; and Anderson, 1,972,509, September 4, 1934.

Metals Handbook 1936 Edition. Published by American Society for Metals, Cleveland, Ohio. (Copy in Div. 3). Pages 109–110.

The patent to Bain et al. does not relate to the welding art but to the thermal hardening of steel. It is described in part in appellant's brief before us as follows:

> This patent is concerned with the hardening of martensitic steel by heating it to an austenitic condition, quenching it at a rate at least equal its critical cooling rate, which would mean that if it were quenched to a low enough temperature martensite would be produced, and then, prior to reaching such a lower temperature, holding the temperature of the steel within a range of from 300° to slightly less than 1000° F., the result being the production of a new structure having material advantages over tempered martensite and which has since become known as "bainite". The patent shows the now well known S-curve of austenite transformation * * *, but it does not graphically show the cooling rates superimposed on this curve. However, reference to the specification of the patent shows that it is predicated upon clearing what is called the "nose" of the S-curve, which is in the vicinity of 1100° F. in the case of the curve of the patent, so that the steel can enter the slow austenite transforming range which the patent features.

The patent to Anderson, No. 1,930,847, discloses a method and apparatus for welding, and embraces both method and apparatus claims. The Anderson patent, No. 1,972,509, is entitled "Method of welding seams along curving surfaces," and is limited to the method. It recites, substantially, the method steps of his earlier patent (to the application for which reference is made in the application for the later patent) and some additional steps.

The Anderson patents are particularly concerned with the butt-welding of opposed end edges of pipe, or tubular sections of metal. Neither of them specifically names iron or steel, but appellant does not seem to question the fact that the process they describe is applicable to steel. He insists, in effect, however, that the steel of the articles contemplated by Anderson was low carbon steel, and did not present the problem which appellant solved.

As best we can determine from the record before us, the Examiner rejected the claims on the Anderson patents in view of Bain et al., citing the Metal Handbook article as showing that the idea of preheating a high carbon steel (this in answer to appellant's contention respecting the steel of Anderson being low carbon steel) prior to welding was old in the art.

The Board's discussion of the merits of the case is quite brief. It merely said:

As stated by the Examiner, the metallurgical problem presented here is deemed to be fully set forth in the patent to Bain et al. This patent is concerned with martensitic steel. The patents to Anderson disclose the necessity for preheating the metal before the welding operation so as to insure a weld of substantially homogeneous composition and in which the crystalline character of the metal does not vary abruptly. These patents are concerned with the welding of pipe and while no specific reference is made to iron or steel, still it is very probable that the metal contemplated was a mild steel of low carbon content of the type usually employed in making so-called iron pipe. By reason of the low carbon content the problem presented in these patents was not the same as in the present case, but from the description in Patent No. 1,972,509 it is apparent that the patentee was attempting to achieve analogous results.

It is clear from the Anderson patents that his process involved, first, the preheating of sections of pipe lying adjacent the end edges to be welded, the preheating extending back some distance from the edges, and, second, the heating of the seam formed by the junction of the edges to welding temperature, the method being continuous. The Anderson process is fairly described in the brief of the Solicitor for the Patent Office as follows:

As will be evident from Fig. 2 of the patent [No. 1,930,847], the parts to be welded are passed beneath a series of heating jets 22 arranged to converge toward the seam. The welding takes place where the jets converge on the seam. The heat of the weld however is prevented from being conducted rapidly away by the heat already present in the adjacent regions, which heat was previously applied by the diverging series of jets 24.

The result obtained is stated in the patent as follows:

* * * while heat continues to be conducted to the relatively cool regions away from which the application of heat is being displaced, still, due to the heat previously applied at these portions, walls of hot metal are created which render impossible any large difference in temperature between fusing metal and nearby solid metal. This effectively reduces conduction away from the highly heated area of fusing metal, thereby promoting penetration, and eliminates the usual demarkation between parent metal and the metal of the completed weld. On the contrary, because of the advantageous temperature gradient which is maintained, both the internal structure across the weld into the parent metal, as well as the external formation are much improved over results formerly obtained.

So, it is obvious from the prior art that there was nothing new in the step of heating the parts of metal to be welded for a considerable distance on each side of the weld in order to retard leakage of heat from the welded section. That, in the final analysis, appears to us to be the essence of appellant's process.

It is true that in appellant's case the process is applied to a type of metal different from that to which Anderson's process is applied, but, so far as the claims on appeal are concerned, the alleged invention lies in the process, and not in the resultant product.

We do not overlook the fact that there is no teaching in the Anderson patents of the range of temperatures applied, while in appellant's claims 5 and 6 the temperatures are defined as being in the range of from 350 to 1100 degrees Fahrenheit, but this range is shown in the Bain et al. process for the thermal hardening of steel, which (while not describing a welding process) describes, as stated by the Examiner, "the metallurgy of the effect of heating a martensitic steel." This effect is fairly stated in the excerpt from appellant's brief above quoted.

We fail to see wherein it was error on the part of the Board to affirm, as by implication it clearly did, the holding of the Examiner that "the Bain patent in the metallurgical art would teach the welding art which temperatures to use when welding martensitic steel in order to obtain after cooling a weld of the desirable character."

Having the process of Anderson in mind it would seem that if a martensitic steel is to be welded, one skilled in the art would readily apply the teaching of Bain et al. to the problem.

So, notwithstanding appellant's arguments respecting various details, such as the terms "fusion" and "annealing," we are not convinced that his process involved invention.

The appeal as to claims 1, 3, and 4 is dismissed, and the decision of the Board of Appeals as to claims 2, 5, and 6 is affirmed.

Affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 20, 1944

[VOL. 563. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 457,436. GEORGIA KAOLIN COMPANY, Elizabeth N. J. Filed Dec. 16, 1942.

HYDRITE

FOR CLAY FOR USE IN THE MANUFACTURE OF PAPER, RUBBER, AND CERAMICS.
Claims use since Sept. 18, 1942.

Ser. No. 458,339. REICHHOLD CHEMICALS, INC., Detroit, Mich. Filed Feb. 4, 1943.

PLYOPHEN

FOR SYNTHETIC PLASTIC RESINS.
Claims use since Dec. 12, 1942.

CLASS 2

RECEPTACLES

Ser. No. 468,494. SPEAR BOX COMPANY INCORPORATED, New York, N. Y. Filed Mar. 21, 1944.

GLU-O-MATIC

The syllable "Glu" is disclaimed apart from the mark.
FOR FOLDING PAPER AND CARDBOARD BOXES.
Claims use since Jan. 30, 1941.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 460,735. FIDELITY CHEMICAL PRODUCTS CORP., Newark, N. J. Filed May 19, 1943.

FIDELITY

ABSORBO

FOR CLEANING COMPOSITION FOR REMOVING GREASE AND OIL FROM MATERIALS TO BE CLEANED, BEING A DRY POWDER COMPOSED ENTIRELY OF MINERAL MATTER AND APPLIED IN THE DRY STATE TO A SURFACE, ACTING TO REMOVE OIL AND GREASE BY CAPILLARY ATTRACTION ONTO THE PARTICLES OF MINERAL MATTER.
Claims use since Mar. 29, 1943.

Ser. No. 465,218. WAVERLY PETROLEUM PRODUCTS COMPANY, Philadelphia, Pa. Filed Nov. 22, 1943.

Flix

FOR HAND CLEANERS—NAMELY, ABSORBING PADS USED IN CLEANING THE HANDS.
Claims use since Oct. 29, 1943.

Ser. No. 466,162. J N T MFG. COMPANY INC., New York, N. Y. Filed Dec. 29, 1943.

Furniture Doctor

The word "Furniture" is disclaimed apart from the mark.
FOR CLEANER FOR REMOVING SURFACE FILM.
Claims use since Dec. 24, 1935.

Ser. No. 466,352. NATIONAL PLASTIC PRODUCTS COMPANY, Odenton, Md. Filed Jan. 6, 1944.



FOR CURLED PLASTIC STRIP FOR CLEANING AND POLISHING SURFACE OF POTS, PANS, AND THE LIKE.
Claims use since June 1943.

Ser. No. 469,243. GUY E. BRIGNALL, doing business as Lite Soap Company, Aurora, Ill. Filed Apr. 12, 1944.

LIGHTENS WORK
Lite
SANITARY
MINERAL

The words "Lightens Work" and "Sanitary Mineral" are disclaimed apart from the mark.
FOR HOUSEHOLD SOAP.
Claims use since June 1, 1922.

Ser. No. 469,510. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Apr. 20, 1944.

DUZ

Applicant is the owner of registrations Nos. 18,085, 112,261, and 135,159, all renewed.
FOR SOAP.
Claims use since Nov. 3, 1919.

Ser. No. 469,607. MID-WEST ABRASIVE COMPANY, Detroit, Mich. Filed Apr. 24, 1944.

WATERSAND

FOR COATED ABRASIVE PAPERS.
Claims use since Nov. 7, 1935.

CLASS 5
ADHESIVES

Ser. No. 468,249. THE FIRESTONE TIRE & RUBBER COMPANY, doing business as Firestone Industrial Products Company, Akron, Ohio. Filed Mar. 13, 1944.

VELOGEL

FOR ADHESIVES COMPRISING A SOLUTION, EMULSION, AND/OR DISPERSION OF PLASTIC AND/OR SYNTHETIC RESINOUS MATERIAL.
Claims use since Feb. 4, 1944.

Ser. No. 468,250. THE FIRESTONE TIRE & RUBBER COMPANY, doing business as Firestone Industrial Products Company, Akron, Ohio. Filed Mar. 13, 1944.

VELOWELD

FOR ADHESIVES COMPRISING A SOLUTION, EMULSION, AND/OR DISPERSION OF PLASTIC AND/OR SYNTHETIC RESINOUS MATERIAL.
Claims use since Feb. 4, 1944.

Ser. No. 469,806. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Apr. 29, 1944.

COPREIN

FOR PROTEIN MATERIAL USED AS A BINDER IN CLAY COATING OF PAPER.
Claims use since Mar. 10, 1944.

CLASS 6
CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 464,450. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Oct. 27, 1943.

W. S.

FOR PETROLATUM, AN UNCTUOUS MIXTURE OF HYDROCARBONS USED TO IMPART PERMANENT SOFTNESS TO RUBBER, SPRAY OIL, WOOD PRESERVING OIL INTENDED TO PROTECT WOOD FROM INSECTS AND WEATHERING BY THE ELEMENTS, AND TEXTILE OIL.
Claims use since Aug. 27, 1943.

Ser. No. 465,762. MIAHATI, INC., New York, N. Y. Filed Dec. 14, 1943.

KA LANI KEIA

FOR PERFUMES.
Claims use since January 1939.

Ser. No. 465,793. BOTANY WORSTED MILLS, Passaic, N. J. Filed Dec. 16, 1943.



FOR LANOLIN AND LANOLIN TOILET PREPARATIONS—NAMELY, CREAM AND LOTION.
Claims use since Oct. 19, 1943.

Ser. No. 466,899. MAURICIO Y ALBERTO HABIF Y CIA, Havana, Cuba. Filed Jan. 26, 1944.

Frenesi

FOR PERFUME, SKIN LOTION, AND TOILET WATER.
Claims use since Feb. 3, 1943.

Ser. No. 468,224. CHELSEA LABORATORIES, INC., New York, N. Y. Filed Mar. 13, 1944.

Brunière

The mark is a portion of the facsimile signature of Elizabeth de Brunière, president of applicant company.
FOR CLEANSING CREAM.
Claims use since Feb. 14, 1944.

Ser. No. 468,258. HORWITZ AND DUBERMAN, New York, N. Y. Filed Mar. 13, 1944.

"THE TWO OF US"

FOR PERFUME.
Claims use since Feb. 29, 1944.

Ser. No. 468,434. BRUNSWIG DRUG CO., doing business as Angelus Laboratories, Los Angeles, Calif. Filed Mar. 20, 1944.

Maxi-MIN

FOR VITAMIN CAPSULES.
Claims use since Mar. 6, 1944.

Ser. No. 468,436. BRUNSWIG DRUG CO., doing business as Angelus Laboratories, Los Angeles, Calif. Filed Mar. 20, 1944.

Maxi-VITA

FOR B COMPLEX SYRUP WITH VITAMINS A AND D.
Claims use since Mar. 6, 1944.

Ser. No. 468,587. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa. Filed Mar. 24, 1944.

ACTALYTE

FOR METAL STRIPPING COMPOSITION FOR REMOVING COPPER, LEAD, ZINC, AND CADMIUM FROM BASIS METAL.
Claims use since Feb. 29, 1944.

Ser. No. 468,597. COTY, INC., New York, N. Y. Filed Mar. 24, 1944.

KYPRIS

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Mar. 21, 1944.

Ser. No. 468,722. PARFAIT POWDER PUFF CO., INC., Chicago, Ill. Filed Mar. 27, 1944.

TRADITION

FOR FACE POWDER.
Claims use since Oct. 4, 1943.

Ser. No. 468,807. NUODEX PRODUCTS CO., INC., Elizabeth, N. J. Filed Mar. 29, 1944.

NUODEX

FOR METALLIC SALTS AND SOAPS IN SOLID, PASTE AND LIQUID FORM, USEFUL ALONE AND AS AN ADDITIVE FOR A WIDE VARIETY OF PURPOSES IN THE DIFFERENT ARTS WHERE SUCH PRODUCTS ARE USEFUL, SUCH AS FUNGICIDES, GERMICIDES, INSECTICIDES, DRIERS, WETTING AGENTS, STABILIZING AGENTS, GRINDING AIDS, ANTI-CHALKING AGENTS, BODYING AGENTS, ANTI-FOULING AGENTS, RUST AND CORROSION INHIBITANTS, LUBRICANT ADDITIVES, DISPERSING AGENTS, NON-PENETRATING AGENTS, WATER REPELLENTS AND CATALYSTS, INCLUDING OXIDATION CATALYSTS, COMBUSTION CATALYSTS FOR OILS, CANDLES AND SMUDGE POTS, AND SPRAYS TO PREVENT SMOKING OF COAL DURING COMBUSTION.
Claims use since 1924.

Ser. No. 468,808. NUODEX PRODUCTS CO., INC., Elizabeth, N. J. Filed Mar. 29, 1944.

NUODITE

FOR METALLIC SALTS AND SOAPS IN SOLID, PASTE AND LIQUID FORM, USEFUL ALONE AND AS AN ADDITIVE FOR A WIDE VARIETY OF PURPOSES IN THE DIFFERENT ARTS WHERE SUCH PRODUCTS ARE USEFUL, SUCH AS FUNGICIDES, GERMICIDES, INSECTICIDES, DRIERS, WETTING AGENTS, STABILIZING AGENTS, GRINDING AIDS, ANTI-CHALKING AGENTS, BODYING AGENTS, ANTI-FOULING AGENTS, RUST AND CORROSION INHIBITANTS, LUBRICANT ADDITIVES, DISPERSING AGENTS, NON-PENETRATING AGENTS, WATER REPELLENTS AND CATALYSTS, INCLUDING OXIDATION CATALYSTS, COMBUSTION CATALYSTS FOR OILS, CANDLES AND SMUDGE POTS, AND SPRAYS TO PREVENT SMOKING OF COAL DURING COMBUSTION.
Claims use since 1935.

Ser. No. 468,810. NUODEX PRODUCTS CO., INC., Elizabeth, N. J. Filed Mar. 29, 1944.

THREE LITTLE BOTTLES



THAT BUILT THE PLANT

No claim is made for the words "Manganese," "Head," or "Cobalt" apart from the mark.

FOR METALLIC SALTS AND SOAPS IN SOLID, PASTE AND LIQUID FORM, USEFUL ALONE AND AS AN ADDITIVE FOR A WIDE VARIETY OF PURPOSES IN THE DIFFERENT ARTS WHERE SUCH PRODUCTS ARE USEFUL, SUCH AS FUNGICIDES, GERMICIDES, INSECTICIDES, DRIERS, WETTING AGENTS, STABILIZING AGENTS, GRINDING AIDS, ANTI-CHALKING AGENTS, BODYING AGENTS, ANTI-FOULING AGENTS, RUST AND CORROSION INHIBITANTS, LUBRICANT ADDITIVES, DISPERSING AGENTS, NON-PENETRATING AGENTS, WATER REPELLENTS AND CATALYSTS, INCLUDING OXIDATION CATALYSTS, COMBUSTION CATALYSTS FOR OILS, CANDLES AND SMUDGE POTS, AND SPRAYS TO PREVENT SMOKING OF COAL DURING COMBUSTION.

Claims use since 1937.

Ser. No. 468,812. PARFAIT POWDER PUFF CO., INC., Chicago, Ill. Filed Mar. 29, 1944.

MARDI GRAS

FOR LIPSTICK.

Claims use since Mar. 17, 1944.

Ser. No. 468,910. WILLKE CHEMICAL COMPANY, Houston, Tex. Filed Mar. 31, 1944.

RICO

FOR INSECTICIDES.

Claims use since February 1940.

Ser. No. 469,148. THE CHEMICAL CORPORATION, Springfield, Mass. Filed Apr. 8, 1944.

STRIPODE

FOR CHEMICALS USED AS ADDITION AGENTS FOR ELECTROLYTIC STRIPPING BATHS.

Claims use since Apr. 8, 1940.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 461,014. COLT'S PATENT FIRE ARMS MANUFACTURING COMPANY, Hartford, Conn. Filed May 29, 1943.

CHALLENGER

FOR PISTOLS.

Claims use since May 26, 1943.

CLASS 10

FERTILIZERS

Ser. No. 468,561. FIDELITY CHEMICAL CORPORATION, Houston, Tex. Filed Mar. 23, 1944.

FIDELITY

FOR FERTILIZERS.

Claims use since on or about Jan. 1, 1906.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 466,584. NATIONAL PLYWOODS INCORPORATED, Chicago, Ill. Filed Jan. 14, 1944.

NAPCO

FOR PLYWOOD.

Claims use since Apr. 1, 1940.

Ser. No. 466,743. PHILLIPS ROOFING CO., INC., Baltimore, Md. Filed Jan. 20, 1944.

PHILROOCO

FOR ASBESTOS ASPHALT ROOF CEMENT, ASBESTOS FIBRE PLASTIC COATING.

Claims use since September 1928.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 461,580. UNION AIRCRAFT PRODUCTS CORP., New York, N. Y., assignor to Union Aircraft Products Corp., New York, N. Y., a corporation of New Jersey. Filed June 21, 1943.

UNIONAIR

UNION AIRCRAFT PRODUCTS CORP. A UNION R

The words "Aircraft Products" are disclaimed apart from the mark.

FOR METAL PIPE FITTINGS.

Claims use since May 1, 1941.

Ser. No. 466,192. CENTRAL SCREW COMPANY, Chicago, Ill. Filed Dec. 30, 1943.

FASTENEERING

FOR SCREWS, NUTS, BOLTS, RIVETS, AND SPECIAL FASTENING PLATES AND CLIPS FOR CO-OPERATION THEREWITH.

Claims use since Dec. 22, 1943.

Ser. No. 466,203. MAXWELL & HITCHCOCK, Atlanta, Ga. Filed Dec. 30, 1943.

TORNADO

FOR METALLIC TIMBER JOINT CLIPS FOR USE IN ASSEMBLING AND REINFORCING WOOD STRUCTURES.

Claims use since Nov. 20, 1943.

Ser. No. 466,354. NATIONAL PLASTIC PRODUCTS COMPANY, Odenton, Md. Filed Jan. 6, 1944.



FOR PLASTIC DRAWER PULLS OF SYNTHETIC RESIN.

Claims use since March 1942.

Ser. No. 467,854. ARTHUR I. PLATT, doing business as Arthur I. Platt & Company, Fairfield, Conn. Filed Feb. 29, 1944.



No claim is made to the word "Grip" or to the representation of the goods apart from the mark.

FOR WALL TOOL AND ARTICLE HOLDING CLIPS.

Claims use since March 1932.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 466,974. BUFFALO FOUNDRY & MACHINE CO., Buffalo, N. Y. Filed Jan. 29, 1944.

BUFLOKAST

FOR CASTINGS—NAMELY, GRAY IRON AND ALLOYED IRON CASTINGS.

Claims use since Mar. 1, 1913.

Ser. No. 467,546. I. STERN & CO., INC., New York, N. Y. Filed Feb. 18, 1944.

AUTO-FLUX

No claim is made to the term "Flux" except as shown.

FOR SOLDER STRIPS.

Claims use since November 1916.

Ser. No. 468,618. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Mar. 24, 1944.

SOLDALOY

FOR COPPER ALLOY STOCK FOR USE IN MAKING SOLDERING IRONS.

Claims use since Mar. 11, 1940.

CLASS 15

OILS AND GREASES

Ser. No. 469,704. SINCLAIR REFINING COMPANY, New York, N. Y. Filed Apr. 26, 1944.

CARNITE

FOR CUTTING OILS.

Claims use since Apr. 27, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 468,246. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 13, 1944.

VELOID

FOR PAINTS IN PASTE AND/OR READY MIXED FORM, LACQUERS, VARNISHES, AND PROTECTIVE COATINGS IN THE NATURE OF PAINT OR LACQUER COMPRISING A PLASTIC AND/OR A SYNTHETIC RESIN.

Claims use since Feb. 4, 1944.

Ser. No. 468,886. GREAT LAKES VARNISH WORKS, INC., Chicago, Ill. Filed Mar. 31, 1944.

Plastic-Var

The word "Plastic" is disclaimed apart from the mark.

FOR VARNISH.

Claims use since Mar. 28, 1944.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 466,263. M & N CIGAR MANUFACTUREES, INC., Cleveland, Ohio. Filed Jan. 1, 1944. Under 10-year proviso.

LA FLOR DE
LUIS MARTINEZ

FOR CIGARS.
Claims use since 1876.

Ser. No. 468,717. H. L. NEFF, doing business as H. L. Neff & Co., Red Lion, Pa. Filed Mar. 27, 1944.

RECORD BOND



VALUE RECEIVED

Applicant disclaims the words "Value Received" and "Bond" separately from the mark.
FOR CIGARS.
Claims use since Jan. 15, 1909.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 463,638. SPERRY GYROSCOPE COMPANY, INC., Brooklyn, N. Y. Filed Sept. 24, 1943.

REFLEX
KLYSTRON

The word "Reflex" is disclaimed apart from the mark.
FOR ELECTRONIC TUBES, INCLUDING HIGH FREQUENCY VELOCITY MODULATING TUBES, AMPLIFIERS, OSCILLATORS, DETECTORS, PHASE SHIFTERS, FREQUENCY SHIFTERS, MODULATORS, MULTIPLIERS, HARMONIC GENERATORS, AND MIXERS.
Claims use since Sept. 14, 1943.

Ser. No. 463, 997. GEORGE GORTON MACHINE COMPANY, Racine, Wis. Filed Oct. 8, 1943.

GORTON
SPIT-FIRE



In so far as the Trade-Mark Act of February 20, 1905, as now amended, and the instant application, are concerned, the name "Gorton" standing apart from the particular mark shown, is disclaimed without prejudice to applicant's hereinbefore identified trade-mark registrations, and without prejudice to applicant's right to apply for and secure additional trade-mark registrations of the name "Gorton" under now existing or hereafter approved acts or laws of the United States providing for trade-mark registration of proper names, and without prejudice to any rights of action that applicant may now or hereafter possess under his trade-mark registrations and trade-mark use of "Gorton." The representation of the etching electrode is disclaimed apart from the mark.
FOR ELECTRIC ARC ETCHING MACHINES, SINGLE AND MULTIPLE ATTACHABLE ELECTRIC ARC ETCHING HEADS FOR PANTOGRAPH AND OTHER MACHINES, THE NECESSARY CONTROLLING ELECTRICAL EQUIPMENT FOR SAID MACHINES AND HEADS, AND SPECIALLY DESIGNED ETCHING ELECTRODES FOR SAID MACHINES AND HEADS.
Claims use since Apr. 15, 1942.

Ser. No. 467,123. ELECTRIC MACHINERY MFG. COMPANY, Minneapolis, Minn. Filed Feb. 3, 1944.

EM

FOR ELECTRICAL MACHINES AND APPARATUS—NAMELY, SYNCHRONOUS GENERATORS, SYNCHRONOUS MOTORS, DIRECT-CURRENT GENERATORS, INDUCTION MOTORS, VERTICAL HOLLOW-SHAFT SYNCHRONOUS MOTORS, DIRECT-CURRENT MOTORS, DUAL-VOLTAGE SYNCHRONOUS GENERATORS, SYNCHRONOUS CONDENSERS, AUTOMATIC SYNCHRONIZERS, VOLTAGE REGULATORS, FREQUENCY-RESPONSIVE SYNCHRONOUS-MOTOR CONTROLS, POLARIZED FIELD-FREQUENCY SYNCHRONOUS-MOTOR CONTROLS, PART-WINDING MOTOR STARTING CONTROLS, AUTOMATIC CONTROLS FOR INDUCTION MOTORS, SWITCH MAGNETS, OVERLOAD RELAYS, AUTOTRANSFORMERS, CURRENT TRANSFORMERS, UNDERVOLTAGE RELEASE RELAYS, FIELD DISCHARGE RESISTORS, DISCONNECTING SWITCHES, CONTROL TRANSFORMERS, REACTORS, RHEOSTATS, AND MAGNETIC DRIVES.
Claims use to synchronous motors since on or about June 1, 1914; to direct-current generators since on or about Jan. 1, 1914; to induction motors since on or about Jan. 1, 1920; to direct-current motors since on or about Jan. 1, 1914; to vertical hollow-shaft synchronous motors since on or about Feb. 3, 1936; to dual-voltage synchronous generators since on or about Oct. 20, 1942; to synchronous condensers since on or about June 1, 1929; to automatic synchronizers since Oct. 1, 1939; to voltage regulators since on or about Dec. 18, 1938; to field-frequency responsive synchronous-motor controls since on or about Jan. 1, 1925; to polarized field-frequency synchronous motor controls since on or about Mar. 1, 1939; to part-winding-starting controls since on or about Feb. 1, 1930; to automatic controls for induction motors since on or about July 8, 1943; to switch magnets since on or about Oct. 28, 1930; to overload relays since on or about Sept. 14, 1930; to autotransformers since on or about Jan. 25, 1930; to current transformers since on or about Oct. 29, 1930; to undervoltage release relays since on or about Oct. 1, 1933; to field discharge resistors since on or about Feb. 1, 1936; to disconnecting switches since on or about Sept. 1, 1932; to control transformers since on or about Apr. 1, 1935; to reactors since on or about Sept. 2, 1932; to rheostats since on or about May 1, 1940; to meter reading multipliers since on or about Mar. 18, 1939; to unloaders for compressors since on or about Feb. 11, 1932; and to magnetic drives since Mar. 15, 1940.

Ser. No. 467,124. ELECTRIC MACHINERY MFG. COMPANY, Minneapolis, Minn. Filed Feb. 3, 1944.

EM

FOR ELECTRICAL MACHINES AND APPARATUS—NAMELY, SYNCHRONOUS GENERATORS, SYNCHRONOUS MOTORS, DIRECT-CURRENT GENERATORS, INDUCTION MOTORS, VERTICAL HOLLOW-SHAFT SYNCHRONOUS MOTORS, DIRECT-CURRENT MOTORS, DUAL-VOLTAGE SYNCHRONOUS GENERATORS, SYNCHRONOUS CONDENSERS, AUTOMATIC SYNCHRONIZERS, VOLTAGE REGULATORS, FREQUENCY-RESPONSIVE SYNCHRONOUS-MOTOR CONTROLS, POLARIZED FIELD-FREQUENCY SYNCHRONOUS-MOTOR CONTROLS, PART-WINDING MOTOR STARTING CONTROLS, AUTOMATIC CONTROLS FOR INDUCTION MOTORS, SWITCH MAGNETS, OVERLOAD RELAYS, AUTOTRANSFORMERS, CURRENT TRANSFORMERS, UNDERVOLTAGE RELEASE RELAYS, FIELD DISCHARGE RESISTORS, DISCONNECTING SWITCHES, CONTROL TRANSFORMERS, REACTORS, RHEOSTATS, AND MAGNETIC DRIVES.
Claims use to synchronous motors since on or about Jan. 1, 1917; to direct-current generators since on or about Jan. 1, 1917; to induction motors since on or about Jan. 1, 1920; to direct-current motors since on or about Jan. 1, 1917; to vertical hollow-shaft synchronous motors since on or about Feb. 3, 1936; to dual-voltage synchronous generators since on or about Oct. 20, 1942; to synchronous condensers since on or about June 1, 1929; to automatic synchronizers since Oct. 1, 1939; to voltage regulators since on or about Dec. 18, 1938; to field-frequency responsive synchronous-motor controls since on or about Jan. 1, 1925; to polarized field-frequency synchronous motor controls since on or about Mar. 1, 1939; to part-winding-starting controls since on or about Feb. 1, 1930; to automatic controls for induction motors since on or about July 8, 1943; to switch magnets since on or about Oct. 28, 1930; to overload relays since on or about Sept. 14, 1930; to autotransformers since on or about Jan. 25, 1930; to current transformers since on or about Oct. 29, 1930; to undervoltage release relays since on or about Oct. 1, 1933; to field discharge resistors since on or about Feb. 1, 1936; to disconnecting switches since on or about Sept. 1, 1932; to control transformers since on or about Apr. 1, 1935; to reactors since on or about Sept. 2, 1932; to rheostats since on or about May 1, 1940; to meter reading multipliers since on or about Mar. 18, 1939; to unloaders for compressors since on or about Feb. 11, 1932; and to magnetic drives since Mar. 15, 1940.

Ser. No. 467,699. PIERCE RENEWABLE FUSES, INC., Buffalo, N. Y. Filed Feb. 23, 1944.



No claim is made to the representation of an electric fuse apart from the mark. The animated figure is a part of the mark.
FOR ELECTRIC FUSES.
Claims use since Nov. 15, 1943.

Ser. No. 468,319. ARTHUR C. DAVIS, doing business as Cinema Engineering Company, Burbank, Calif. Filed Mar. 15, 1944.

VARIATEN

FOR VARIABLE ATTENUATORS.
Claims use since Mar. 1, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 468,372. L. R. BOWEN, doing business as Li-Cut Live Bait Co., Los Angeles, Calif. Filed Mar. 17, 1944.

LI-CUT
LIVE BAIT

No claim is made to the words "Live Bait" apart from the mark.
FOR FISH BAIT.
Claims use since Mar. 1, 1938.

Ser. No. 469,741. WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif. Filed Apr. 27, 1944.

WASCO

FOR ALL TYPES OF FISHING TACKLE—NAMELY, FISHING RODS, REELS, LINES, LEADERS, AND HOOKS FOR USE IN BOTH SALT AND FRESH WATER.

Claims use since September 1939.

Ser. No. 469,972. CHARLES A. SAUNDERS, doing business as Saunders Archery Target Co., Manilla, Iowa. Filed May 5, 1944.



FOR ARCHERY TARGET BUTTS.

Claims use since July 1, 1941.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 463,132. NEW HOLLAND MACHINE COMPANY, New Holland, Pa. Filed Aug. 31, 1943.



FOR FARM MACHINERY—NAMELY, AUTOMATIC BALERS, CORN SHELLERS, HUSKER SHELLERS, SAW FRAMES, TRACTOR SAWS, HAMMER MILLS, LIMESTONE PULVERIZERS, LAWN MOWERS, FEED GRINDERS, ENSILAGE CUTTERS; AND INDUSTRIAL EQUIPMENT—NAMELY, ROLL CRUSHERS, JAW CRUSHERS, HAMMER CRUSHERS, VIBRATING SCREENS, REVOLVING SCREENS, ELEVATORS, DIESEL AND GASOLINE ENGINES, AND DEWATERERS.

Claims use since Jan. 1, 1942.

Ser. No. 467,467. REX CUTLERY CORPORATION, Irvington, N. J. Filed Feb. 16, 1944.

JOY

FOR HOUSEHOLD SCISSORS, SEWING SCISSORS, POCKET SCISSORS, EMBROIDERY SCISSORS, TWEEZERS FOR ALL PURPOSES EXCEPT MANICURE, DENTAL, AND SURGICAL USE.

Claims use since January 1944.

Ser. No. 467,468. REX CUTLERY CORPORATION, Irvington, N. J. Filed Feb. 16, 1944.

P.O.R.

FOR HOUSEHOLD SCISSORS, SEWING SCISSORS, POCKET SCISSORS, EMBROIDERY SCISSORS, TWEEZERS FOR ALL PURPOSES EXCEPT MANICURE, DENTAL, AND SURGICAL USE.

Claims use since Jan. 28, 1944.

Ser. No. 468,228. THE DELTA MANUFACTURING COMPANY, Milwaukee, Wis. Filed Mar. 13, 1944.

UNIHEAD

FOR ADJUSTABLE WORK HEADS FOR MACHINE TOOLS.

Claims use since Feb. 14, 1944.

Ser. No. 468,332. THE PRODUCTO MACHINE COMPANY, Bridgeport, Conn. Filed Mar. 15, 1944.

PRODUCTO

FOR MACHINE TOOLS AND PARTS THEREFOR—NAMELY, MILLING MACHINES, MANUAL TAPPING MACHINES, FOOT PRESSES, SPECIAL MACHINERY, VISES AND OTHER WORK HOLDERS, DIE SETS AND DIE MAKERS ACCESSORIES, JIGS AND FIXTURES, AND VARIOUS SMALL TOOLS—I. E., MILLING CUTTERS AND HAMMERS.

Claims use since April 1928.

Ser. No. 468,333. THE PRODUCTO MACHINE COMPANY, Bridgeport, Conn. Filed Mar. 15, 1944.



FOR MACHINE TOOLS AND PARTS THEREFOR—NAMELY, MILLING MACHINES, MANUAL TAPPING MACHINES, FOOT PRESSES, SPECIAL MACHINERY, VISES AND OTHER WORK HOLDERS, DIE SETS AND DIE MAKERS ACCESSORIES, JIGS AND FIXTURES, AND VARIOUS SMALL TOOLS—I. E., MILLING CUTTERS AND HAMMERS.

Claims use since April 1928.

Ser. No. 468,450. HARTLEY WIRE DIE COMPANY, Thomaston, Conn. Filed Mar. 20, 1944.



FOR CEMENTED CARBIDE DIES FOR DRAWING, EXTRUDING, HEADING AND STAMPING; WIRE DRAWING DIES EMBODYING THE USE OF A DIAMOND FOR DRAWING WIRE; CEMENTED CARBIDE WEAR RESISTANCE PARTS—NAMELY, GUIDES AND BUSHINGS; AND CEMENTED CARBIDE SPECIAL TOOLS, SUCH AS FORM TOOLS, REAMERS, DRILLS, AND CUTTERS.

Claims use since April 1941.

Ser. No. 468,715. MIXERMOBILE MANUFACTURERS, Portland, Oreg. Filed Mar. 27, 1944.

SHOVELMOBILE

FOR POWER DRIVEN VEHICLE MOUNTED BULK MATERIAL HANDLING AND LOADING APPARATUS.

Claims use since Mar. 15, 1944.

CLASS 25

LOCKS AND SAFES

Ser. No. 467,029. FRED FREDRIKSEN, doing business as Fredriksen Service Co., Chicago, Ill. Filed Jan. 31, 1944.



No claim is made to the words "Safe-T-Seal" apart from the mark as shown.

FOR SAFETY SEALS FOR FIRE EXTINGUISHERS.

Claims use since Jan. 14, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 453,841. JAEGER WATCH COMPANY, INC., New York, N. Y. Filed June 24, 1942.

CHRONOFLITE

FOR TIMEPIECES — NAMELY, CHRONOGRAPHS AND COMBINATIONS OF CLOCKS, CHRONOGRAPHS, AND CHRONOMETERS ADAPTED MORE ESPECIALLY FOR USE IN AVIATION.

Claims use since Nov. 18, 1929.

Ser. No. 461,937. SPERRY GYROSCOPE COMPANY, INC., Brooklyn, N. Y. Filed July 8, 1943.

GYROTRON

FOR ELECTRONIC GYRO-COMPASSES, ELECTRONIC GYROPILOTS, ELECTRONIC DIRECTION INDICATING INSTRUMENTS, ELECTRONIC ARTIFICIAL HORIZON INSTRUMENTS, ELECTRONIC TURN AND BANK INDICATING INSTRUMENTS, AND ELECTRONIC TESTING INSTRUMENTS FOR GYROSCOPES.

Claims use since June 5, 1943, on electronic gyro-compasses; and since June 23, 1943, on remainder of goods.

Ser. No. 466,816. WATCHEMOKET OPTICAL CO. INC., Providence, R. I. Filed Jan. 22, 1944.

WATCHEMOKET
SALVA
OJOS

The words "Salva Ojos" are the Spanish equivalent of the words "Eye Savers" and are disclaimed apart from the mark.

FOR INDUSTRIAL SAFETY GOGGLES.

Claims use since January 1943.

Ser. No. 467,718. GEORGE M. LAUB, New York, N. Y. Filed Feb. 24, 1944.

A. B. C.

FOR PAPER DRESS PATTERNS.

Claims use since Jan. 27, 1944.

Ser. No. 467,998. CHROMAT-O-SCOPE COMPANY, Los Angeles, Calif. Filed Mar. 6, 1944.

ULTRAVUE

FOR CHROMOSCOPES AND VIEWING BOXES FOR VIEWING PHOTOGRAPHIC SLIDES AND FILMS.
Claims use since Feb. 16, 1944.

Ser. No. 468,757. STEFAN KAESZ, doing business as American Zyloptic Co., New York, N. Y. Filed Mar. 28, 1944.

CORVETTE

FOR LENSES FOR EYE GLASSES, GOGGLES, AND SPECTACLES; AND EYEGLASS, GOGGLE, AND SPECTACLE FRAMES AND PARTS THEREFOR OF METAL, SHELL, AND VARIOUS PLASTIC COMPOSITIONS.
Claims use since Nov. 15, 1943.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 468,286. HOROWITZ & SON, INC., New York, N. Y. Filed Mar. 14, 1944.

Executive

FOR WATCHES.
Claims use since July 1943.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 467,428. DESSY JEWELERS, INC., New York, N. Y. Filed Feb. 15, 1944.

DESSY

FOR JEWELRY FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES.
Claims use since June 1, 1942.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 462,876. MANUEL ONTANON DELGADO, Anahuac Colony, Mexico City, Mexico. Filed Aug. 20, 1943.

1-2-3

FOR CLOTHES BRUSHES AND WHISK BROOMS.
Claims use since June 1942.

Ser. No. 466,095. MONTCLAIR MCCABE, doing business as Montclair Products, Los Angeles, Calif. Filed Dec. 27, 1943.

KLEENIP

FOR BRUSHES FOR CLEANING NIPPLES OF BABIES' NURSING BOTTLES.
Claims use since Sept. 8, 1943.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 470,030. INFILCO INCORPORATED, Chicago, Ill. Filed May 8, 1944.

STELLAR

FOR FILTERS.
Claims use since Dec. 10, 1940.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 465,158. EDWARD C. TATNALL, New York, N. Y. Filed Nov. 19, 1943.

LITE-IT

FOR REACH EXTENDING MATCH OR TAPER HOLDING LIGHTERS FOR LIGHTING CEILING LAMPS, CANDELABRA, OVENS, FIREPLACES, AND THE LIKE.
Claims use since Jan. 8, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 462,233. SANIWAX PAPER COMPANY, Kalamazoo, Mich. Filed July 22, 1943.

SAN-I-FILM

Applicant is the owner of Reg. No. 117,366 (renewed). The word "Film" is disclaimed apart from the mark.
FOR WRAPPING PAPER.
Claims use since June 25, 1943.

Ser. No. 462,520. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Aug. 4, 1943.

Kem-Tone

Applicant is the owner of Regs. Nos. 390,463. and 399,867.
FOR WALLPAPER.
Claims use since October 1942.

Ser. No. 467,632. C. WILSON WOOD, doing business as L. K. Mallinckrodt, Baltimore, Md., assignor to L. K. Mallinckrodt, Inc., Baltimore, Md., a corporation of Maryland. Filed Feb. 21, 1944.

Sargo

FOR WRAPPING PAPER, TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, AND CLEANSING TISSUES.
Claims use since Nov. 27, 1942.

Ser. No. 467,633. C. WILSON WOOD, doing business as L. K. Mallinckrodt, Baltimore, Md., assignor to L. K. Mallinckrodt, Inc., Baltimore, Md., a corporation of Maryland. Filed Feb. 21, 1944.

TRAIL BLAZER

FOR WRAPPING PAPER, TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, AND CLEANSING TISSUES.
Claims use since Feb. 18, 1943.

Ser. No. 467,634. C. WILSON WOOD, doing business as L. K. Mallinckrodt, Baltimore, Md., assignor to L. K. Mallinckrodt, Inc., Baltimore, Md., a corporation of Maryland. Filed Feb. 21, 1944.

GreenHead

The drawing is lined for green.
FOR WRAPPING PAPER, TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, AND CLEANSING TISSUES.
Claims use since Dec. 30, 1942.

Ser. No. 467,635. C. WILSON WOOD, doing business as L. K. Mallinckrodt, Baltimore, Md., assignor to L. K. Mallinckrodt, Inc., Baltimore, Md., a corporation of Maryland. Filed Feb. 21, 1944.

Northland

FOR WRAPPING PAPER, TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, AND CLEANSING TISSUES.
Claims use since Dec. 30, 1942.

Ser. No. 467,695. S. S. KRESGE COMPANY, Detroit, Mich. Filed Feb. 23, 1944.

SKY HIGH

FOR WRITING TABLETS.
Claims use since Nov. 1, 1933.

Ser. No. 468,314. C. WILSON WOOD, doing business as L. K. Mallinckrodt, Baltimore, Md., assignor to L. K. Mallinckrodt, Inc., Baltimore, Md., a corporation of Maryland. Filed Mar. 14, 1944.

WAXWING

FOR WRAPPING PAPER AND WAXED PAPER.
Claims use since Mar. 3, 1943.

Ser. No. 468,648. WANSCO PAPER PRODUCTS CO. INC., New York, N. Y. Filed Mar. 24, 1944.

HIAWATHA BOND

The word "Bond" is disclaimed apart from the mark.
FOR TYPEWRITING PAPERS, WRITING PAPER, ENVELOPES, PRINTING PAPERS, LITHOGRAPHING PAPER, WRITING TABLETS, AND PAPETERIES.
Claims use since Sept. 27, 1934.

Ser. No. 468,649. WANSCO PAPER PRODUCTS CO. INC., New York, N. Y. Filed Mar. 24, 1944.



The word "Products" is disclaimed apart from the mark.
FOR TYPEWRITING PAPER, WRITING PAPER, ENVELOPES, PRINTING PAPERS, LITHOGRAPHING PAPER, PAPETERIES, AND WRITING TABLETS.
Claims use since Sept. 27, 1934.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 469,247. THE CHRISTIAN SCIENCE PUBLISHING SOCIETY, Boston, Mass. Filed Apr. 12, 1944. Under 10-year proviso.

THE CHRISTIAN SCIENCE JOURNAL

FOR MONTHLY PUBLICATION.
Claims use since April 1885.

CLASS 39

CLOTHING

Ser. No. 460,468. BONWIT TELLER, INC., New York, N. Y. Filed May 7, 1943.

"DELILAH"

FOR WOMEN'S AND MISSES' BLOUSES; NECKWEAR—I. E., SCARFS; HANDERCHIEFS; SWEATERS; DRESSES; COATS; SUITS; OUTERSKIRTS; HATS; SCARFS; BELTS FOR OUTER WEAR; SHOES MADE OF LEATHER, FABRIC AND COMBINATIONS THEREOF; HOSIERY, GLOVES MADE OF LEATHER AND FABRIC; AND UNDERGARMENTS—I. E., SLIPS, PETTICOATS, BRASSIÈRES, GIRDLES, CORSETS, BLOOMERS, AND PANTIES.

Claims use since Apr. 15, 1943.

Ser. No. 461,464. THE LA RESISTA CORSET COMPANY, Bridgeport, Conn. Filed June 17, 1943.

INCHES"

"ACTION

FOR LADIES' CORSETS, CORSELETS, GIRDLES, AND COMBINATION FOUNDATION UNDER-GARMENTS COMPRISING COMBINATIONS OF TWO OR MORE OF THE FOLLOWING: BRASSIÈRE OR BANDEAU, GIRDLE, CORSET, OR CORSELET AND UNDERDRAWERS OR BLOOMERS.

Claims use since on or about July 1, 1942.

Ser. No. 461,465. THE LA RESISTA CORSET COMPANY, Bridgeport, Conn. Filed June 17, 1943.



No claim is made to the illustrative picture of the goods, except in the form and arrangement shown.

FOR LADIES' CORSETS, CORSELETS, GIRDLES, AND COMBINATION FOUNDATION UNDER-GARMENTS COMPRISING COMBINATIONS OF TWO OR MORE OF THE FOLLOWING: BRASSIÈRE OR BANDEAU, GIRDLE, CORSET, OR CORSELET AND UNDERDRAWERS OR BLOOMERS.

Claims use since on or about July 1, 1942.

Ser. No. 466,943. JAYSON CLASSICS, INC., New York, N. Y., assignor to F. Jacobson & Sons, Inc., New York, N. Y., a corporation of New York. Filed Jan. 28, 1944.

Jayson

FOR LADIES' SPORTSWEAR AND PLAY CLOTHES—NAMELY, TENNIS DRESSES, BADMINTON DRESSES, SLACKS, SHORTS, SPORTS DRESSES, SUN-BACK DRESSES, BLOUSES, AND SPORTS SHIRTS.

Claims use since October 1940.

Ser. No. 467,255. MEYER SOLOWEY, Philadelphia, Pa. Filed Feb. 7, 1944.

Jane Kerri

FOR WOMEN'S AND MISSES' DRESSES.

Claims use since Dec. 15, 1943.

Ser. No. 467,268. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Feb. 8, 1944.

SANFORIZED

FOR WEARING APPAREL FOR MEN, BOYS, WOMEN, AND CHILDREN—NAMELY, SHIRTS, NEGLIGEE SHIRTS, DRESS SHIRTS, SPORT SHIRTS, WORK SHIRTS, UNDERWEAR, COLLARS, NECKTIES AND SCARVES, PAJAMAS, NIGHT SHIRTS, APRONS, CAPS, HATS, COVERALLS, DUNGAREES, JACKETS, OVERALLS, PANTS, MILITARY, NAVAL, MARINE, DENTISTS', DOCTORS', NURSES', BARBERS', BEAUTICIANS', AND SERVANTS' UNIFORMS, OFFICE COATS, DRESS COATS, WAISTCOATS, CUMMERBUNDS, BATHING SUITS, BATHING TRUNKS, BREECHES, COATS, GYM SUITS, PLAY SUITS, SKI SUITS, SKI PANTS AND SKI HATS, SLACKS, AVIATOR SUITS, SNOW SUITS, SUN SUITS, JODHPURS, WASH SUITS, SUMMER SUITS, CONFIRMATION SUITS, BATHROBES, BEACHROBES, KIMONOS, BEDJACKETS, BRASSIÈRES, CORSETS, GARTER BELTS, GIRDLES, HOUSECOATS, NEGLIGEES, NIGHTGOWNS, PANTIES, SLIPS, SMOCKS, BLOUSES, DICKIES, OUTER SKIRTS, UNDERSKIRTS, SUITS AND DRESSES, BONNETS, CREEPERS, DIAPERS, WRAPPERS, SACQUES, TODDLER'S SUITS, AND SLEEPERS.

Claims use since December 1930 on shirts; and prior to Feb. 8, 1944 on remainder of goods.

Ser. No. 467,673. BEN PULITZER, New York, N. Y. Filed Feb. 22, 1944.

Gold of Persia

No claim is made to the word "Persia" apart from the mark as shown.

FOR MEN'S NECKTIES.

Claims use since Dec. 22, 1943.

Ser. No. 468,105. BINKY BABY PRODUCTS COMPANY, New York, N. Y. Filed Mar. 9, 1944.

Binkytoy

BOR BABY PANTS, BIBS, BOOTIES, BABIES' HATS, UNDERSHIRTS, GLOVES MADE OF LEATHER AND/OR FABRIC OR WOOL.

Claims use since January 1939.

Ser. No. 468,592. BRIAN FABRICS CORPORATION, New York, N. Y. Filed Mar. 24, 1944.

GRANDANA

FOR SCARVES AND FASCINATORS.

Claims use since Mar. 20, 1944.

Ser. No. 468,826. BAKER CLOTHES, Philadelphia, Pa. Filed Mar. 30, 1944.

Lin-Air

The term "Lin" is disclaimed apart from the mark.

FOR MEN'S AND WOMEN'S SUITS, SPORT COATS, SLACKS.

Claims use since Oct. 26, 1943.

Ser. No. 469,012. I. JABLOW & COMPANY, Philadelphia, Pa. Filed Apr. 4, 1944.

LIT-L-SQUIRT

FOR BOYS' SHIRTS, SPORT SHIRTS, SPORT COATS, POLO SHIRTS, SLACKS, SLACK SUITS CONSISTING OF A SPORT COAT, SPORT SHIRT, OR POLO SHIRT IN COMBINATION WITH A PAIR OF SLACKS, PAJAMAS, BLOUSES, AND UNDERWEAR.

Claims use since Mar. 1, 1944.

Ser. No. 469,046. THE GLOVE CORPORATION, Alexandria, Ind. Filed Apr. 5, 1944.



FOR LEATHER, COMBINED LEATHER AND FABRIC, AND FABRIC GLOVES.

Claims use since Jan. 4, 1924.

Ser. No. 469,051. LADYARN SPORTWEAR, New York, N. Y. Filed Apr. 5, 1944.

Ladyarn SPORTWEAR

The word "Sportwear" is disclaimed apart from the mark.

FOR LADIES' AND MISSES' SWEATERS AND SWEATER ENSEMBLES.

Claims use since Feb. 1, 1944.

Ser. No. 469,053. THE LILLEY-AMES COMPANY, Columbus, Ohio. Filed Apr. 5, 1944.

Trim Craft

No claim is made to the word "Trim" apart from the mark.

FOR WOMEN'S AND MISSES' SLACKS.

Claims use since Dec. 1, 1943.

Ser. No. 469,447. STEIN BROTHERS, New York, N. Y. Filed Apr. 18, 1944.

RAUNCHY

FOR MEN'S AND BOYS' SUITS, COATS, TROUSERS, AND SPORT COATS, AND LADIES' SUITS AND COATS.

Claims use since 1943.

Ser. No. 469,509. PEERLESS WOLFSON COMPANY, Chicago, Ill. Filed Apr. 20, 1944.

Lincoized

FOR HANDKERCHIEFS.

Claims use since Apr. 3, 1934.

Ser. No. 469,694. JOSEPH ROTHSTEIN, Philadelphia, Pa. Filed Apr. 26, 1944.



FOR WOMEN'S DRESSES, SLACK SUITS, AND JACKETS.

Claims use since Apr. 10, 1944.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 462,855. HENRY POLLAK, INC., New York, N. Y. Filed Aug. 19, 1943.

LICORICE

FOR BRAIDS FOR MILLINERY.

Claims use since January 1941.

Ser. No. 467,523. GREAT LAKES BUTTON CO. INC., Brockport, N. Y. Filed Feb. 18, 1944.

VALPLAS

FOR BUTTONS.

Claims use since Nov. 22, 1943.

Ser. No. 468,666. DIADEM, INC., Leominster, Mass. Filed Mar. 25, 1944.

FLOWER-TAINER

Applicant disclaims the word "Flower" except as shown.
FOR COIFFURE COMBS.
Claims use since Jan. 3, 1944.

Ser. No. 468,667. DIADEM, INC., Leominster, Mass. Filed Mar. 25, 1944.

BOW-TAINER

Applicant disclaims the word "Bow" except as shown.
FOR COIFFURE COMBS.
Claims use since Jan. 3, 1944.

Ser. No. 468,668. DIADEM, INC., Leominster, Mass. Filed Mar. 25, 1944.

HAT-TAINER

Applicant disclaims the word "Hat" except as shown.
FOR COIFFURE COMBS.
Claims use since Jan. 3, 1944.

Ser. No. 468,795. HAROLD V. HAHN, doing business as Phillips Brush Company, Cleveland, Ohio. Filed Mar. 29, 1944.

MIRACLE GRIP

No claim is made to the word "Grip" apart from the mark.
FOR COIFFURE COMBS.
Claims use since May 10, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 458,620. AUGUST F. SCHRAMM, JR., New York, N. Y. Filed Feb. 18, 1943.

Selflex PROCESS

Applicant disclaims the word "Process."
FOR TEXTILE FABRICS OF COTTON, RAYON, LINEN, WOOL, SILK AND MIXTURES THEREOF WHICH HAVE BEEN SUBJECTED TO A TREATMENT CONSISTING OF A DISPERSION OF PLASTIC PARTICLES, AND ARE INTENDED FOR USE IN MAKING SWEAT BANDS FOR HATS, COLLARS, COATS, LINING, AND SIMILAR ITEMS.
Claims use since Dec. 23, 1942.

Ser. No. 462,889. ROSENBLUTH BROTHERS, New York, N. Y. Filed Aug. 20, 1943.

ARBECO

FOR CURTAINS MADE OF RAYON, COTTON, WOOL, SILK, AND MIXTURES THEREOF.
Claims use since on or about Jan. 2. 1939.

Ser. No. 466,357. NATIONAL PLASTIC PRODUCTS COMPANY, Odenton, Md. Filed Jan. 6, 1944.



FOR FABRICS IN THE PIECE, KNITTED, NETTED, OR WOVEN FROM PLASTIC STRANDS, THREAD OR YARN, AND INTENDED FOR USE AS SCREENING, FOR UPHOLSTERING FURNITURE, FOR MAKING DRAPERIES, AND FOR MAKING WEARING APPAREL, LUGGAGE, AND OTHER LIKE ARTICLES.
Claims use since May 1942.

Ser. No. 468,062. BOTANY WORSTED MILLS, Passaic, N. J. Filed Mar. 8, 1944.

Crestcrepe

FOR WOOLEN PIECE GOODS.
Claims use since Feb. 28, 1944.

Ser. No. 468,064. BRAND & OPPENHEIMER, INCORPORATED, New York, N. Y. Filed Mar. 8, 1944.

BANDO

FOR FABRICS AND PIECE GOODS OF RAYON, WOOL AND COTTON AND OF VARIOUS MIXTURES AND BLENDS THEREOF.
Claims use since Jan. 1, 1938.

Ser. No. 468,546. A. STEINAM COMPANY, INC., New York, N. Y. Filed Mar. 22, 1944.

"A Kiddyland Fabric"

The word "Fabric" is disclaimed apart from the mark as shown.
FOR COTTON PIECE GOODS, RAYON PIECE GOODS, AND COMBINATIONS THEREOF.
Claims use since Feb. 9, 1944.

Ser. No. 468,920. RUBE P. HOFFMAN, Los Angeles, Calif. Filed Apr. 1, 1944.



FOR PIECE GOODS COMPOSED OF RAYON, MIXTURES OF RAYON WITH NATURAL OR SYNTHETIC SILK; WOOL AND MIXTURES OF WOOL WITH RAYON OR OTHER SYNTHETIC SILK OR WITH SILK OR COTTON.
Claims use since Jan. 2, 1942.

Ser. No. 468,984. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944.

LUSTRALAMA

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE HAVING A SUBSTANTIAL CONTENT OF LLAMA'S HAIR.
Claims use since Aug. 11, 1942.

Ser. No. 469,570. LERON, INC., New York, N. Y. Filed Apr. 22, 1944.

"TERRYGLO"

FOR TOWELS, WASH CLOTHS, AND BATH MATS.
Claims use since Mar. 1, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 468,767. VERITAS PRODUCTS COMPANY, INC., New York, N. Y. Filed Mar. 28, 1944.

VEPCO

FOR VAGINAL DIAPHRAGMS.
Claims use since June 1939.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 468,190. CALIFORNIA CITRUS JUICE CO., Springfield, Ill. Filed Mar. 11, 1944.

FRUIT VITARICH DRINKS

The words "Rich" and "Fruit Drinks" are disclaimed apart from the mark.
FOR BOTTLED FRUIT JUICE DRINKS.
Claims use since Nov. 24, 1942.

Ser. No. 469,089. NEIL'S FLAVOR LABORATORY, Los Angeles, Calif. Filed Apr. 6, 1944.

1 to 1

FOR NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND FOUNTAIN EXTRACTS AND EXTRACTS AND CONCENTRATES FOR MAKING THE SAME.
Claims use since Mar. 13, 1944.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 420,435. TWO BOYS FRUIT & PRODUCE, Yakima, Wash. Filed June 12, 1939.



FOR POTATOES, FRESH FRUITS—NAMELY, APRICOTS AND FRESH VEGETABLES.
Claims use since March 1932.

Ser. No. 457,974. W. M. HEYMAN, Phoenix, Ariz. Filed Jan. 18, 1943.



FOR FRESH VEGETABLES AND MELONS.
Claims use since Nov. 29, 1939.

Ser. No. 458,634. MUTUAL CITRUS PRODUCTS CO. INC., Anaheim, Calif. Filed Feb. 19, 1943.

BEV-ADE

No claim is made to the word "Ade" apart from the mark.
FOR POWDERED FRUIT BASE FOR USE IN MAKING JELLIES, JAMS, PRESERVES, AND FOR FLAVORING SALAD DRESSING, CAKES, AND OTHER FOODS.
Claims use since Dec. 15, 1942.

Ser. No. 466,777. MAX AMS INC., New York, N. Y. Filed Jan. 22, 1944.

PECTO

FOR FRUIT PECTIN MADE FROM A REFINED AND CONCENTRATED FRUIT PECTIN, ACIDULATED WITH LACTIC ACID.
Claims use since Jan. 18, 1944.

Ser. No. 467,306. ANGLO-AMERICAN PACKING CORP., New York, N. Y. Filed Feb. 10, 1944.

A. L. B.

FOR CHILE CON CARNE, CORNED BEEF HASH.
Claims use since Jan. 12, 1944.

Ser. No. 467,936. MARY N. DODGE, Studio City, Calif. Filed Mar. 3, 1944.

Mary Dodge

CONFETTI CRUNCH



The name "Mary Dodge" and the word "Crunch" are disclaimed apart from the mark.
FOR CONFECTION COMPOSED PRINCIPALLY OF FLAVORED KERNELS OF POPPED POPCORN AND LIKE CEREALS.
Claims use since Oct. 1, 1940.

Ser. No. 468,035. LAFOND CHOCOLATIER, New York, N. Y. Filed Mar. 7, 1944.

Ery

FOR CANDY.
Claims use since September 1943.

Ser. No. 468,090. SMITH VEGETABLE COMPANY, Phoenix, Ariz. Filed Mar. 8, 1944.



FOR FRESH VEGETABLES.
Claims use since Jan. 27, 1944.

Ser. No. 469,078. LAFOND CHOCOLATIER, New York, N. Y. Filed Apr. 6, 1944.

La 400

FOR CANDY.
Claims use since Mar. 15, 1944.

Ser. No. 469,103. MAX AMS, INC., New York, N. Y. Filed Apr. 7, 1944. Under 10-year proviso.

MAX AMS

FOR HONEY, BOTTLED OLIVES, PANCAKE SYRUP, DEVIL'S FOOD CAKE MIX, FONDANT ICING, APPLE JELLY, MARSHMALLOW POWDER, CREAM THICKENER MADE OF VEGETABLE GUM STABILIZER, SUGAR AND STARCH, PRUNE BUTTER, PRUNE JUICE, ELBOW MACARONI, APPLE PECTIN LIQUID, DOUGHNUT FLOUR, LEMON PIE FILLING, AND MERINGUE WHIP POWDER.
Claims use since 1868.

Ser. No. 469,558. EATON-TOMLINSON CO., Avondale, Colo. Filed Apr. 22, 1944.

BOMBER

FOR FRESH VEGETABLES AND MELONS.
Claims use since Aug. 22, 1943, for melons; and since Mar. 31, 1944, for fresh vegetables.

Ser. No. 469,821. OLD SMOKY SALES CO., Los Angeles, Calif. Filed Apr. 29, 1944.



Applicant is owner of Reg. No. 376,454, dated Mar. 26, 1940. The picture is fanciful.
FOR SEASONINGS FOR MEATS, POULTRY, AND FISH.
Claims use since May 15, 1939.

CLASS 47

WINES

Ser. No. 467,900. ST. CHRISTOPHER WINE CORPORATION, Charlotte, N. C. Filed Mar. 1, 1944.



The picture is that of Jesse James, deceased, an outlaw who was active in the western portion of the United States.
FOR WINES.
Claims use since May 1942.

Ser. No. 468,254. GIBSON WINE COMPANY, Cincinnati, Ohio. Filed Mar. 13, 1944.

White Pheasant

FOR WINES.
Claims use since 1937.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 466,474. AMERICAN SOIL PRODUCTS CO., INC., New York, N. Y. Filed Jan. 11, 1944.

ALKEMI

FOR SOIL TESTING SET COMPOSED OF SOIL TESTING ELEMENTS, CHART AND PRINTED INSTRUCTIONS.
Claims use since Nov. 15, 1943.

Ser. No. 469,402. KEYES FIBRE COMPANY, Waterville, Maine. Filed Apr. 17, 1944.

KYS

FOR MOLDED PULP PROTECTIVE PACKING SHEETS AND PADS USED IN PACKING AND SHIPPING FRAGILE ARTICLES.
Claims use since Oct. 16, 1936.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 20, 1944

407,646. LADIES' AND MISSES' SWEATERS, SWEATER ENSEMBLES, CONSISTING OF A SWEATER AND COAT, BATHING SUITS, AND SLACKS. CENTRAL KNITWEAR MILLS, INC., New York, N. Y.
Filed May 25, 1940. Serial No. 432,339. PUBLISHED APRIL 11, 1944. Class 39.

407,647. HAIR TONIC AND DANDRUFF REMOVER. ORAZIO PRINCIOTTA, doing business as N. P. Co., Jamaica Plain, Mass.
Filed December 16, 1941. Serial No. 449,529. PUBLISHED APRIL 4, 1944. Class 6.

407,648. PURE RYE WHISKEY. THE BALTIMORE PURE RYE DISTILLING COMPANY, Dundalk, Md.
Filed June 25, 1942. Serial No. 453,870. PUBLISHED APRIL 4, 1944. Class 49.

407,649. WINDSHIELDS OF TRANSPARENT MATERIAL NOT INCLUDING GLASS. CROASDALE & DEANGELIS, Haverford Township, Delaware County, Pa.
Filed September 19, 1942. Serial No. 455,621. PUBLISHED FEBRUARY 9, 1943. Class 19.

407,650. COSMETICS—NAMELY, LIPSTICKS, ROUGE, PERFUME, FACE POWDER, NAIL POLISH. ALBERT V. SADACCA, Ann Arbor, Mich.
Filed December 18, 1942. Serial No. 457,513. PUBLISHED APRIL 4, 1944. Class 6.

407,651. TRADE PUBLICATION PUBLISHED AT IRREGULAR INTERVALS. EDGAR G. HERRMANN, Oak Park, Ill.
Filed January 9, 1943. Serial No. 457,830. PUBLISHED OCTOBER 26, 1943. Class 38.

407,652. CALENDARS. EUREKA SPECIALTY PRINTING COMPANY, Scranton, Pa.
Filed January 16, 1943. Serial No. 457,949. PUBLISHED APRIL 4, 1944. Class 38.

407,653. CHEMICALS FOR REPAIRING CRACKS IN METALS, PARTICULARLY CRACKS IN MOTOR BLOCKS OF INTERNAL COMBUSTION ENGINES, STEAM ENGINES, WATER JACKETS, CYLINDERS, VALVE PORTS, BOILERS, AND THE LIKE. MILLER MANUFACTURING COMPANY, Camden, N. J.
Filed February 6, 1943. Serial No. 458,369. PUBLISHED APRIL 4, 1944. Class 6.

407,654. METAL NUTS, BOLTS, WASHERS, AND CLIPS. SIMMONDS AEROCESSORIES LIMITED, Brentford, England.
Filed February 23, 1943. Serial No. 458,712. PUBLISHED APRIL 11, 1944. Class 13.

407,655. PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa.
Filed March 13, 1943. Serial No. 459,086. PUBLISHED JUNE 8, 1943. Class 50.

407,656. SECTION OF A MAGAZINE. THE HOME SHIFT, San Francisco, Calif.
Filed March 26, 1943. Serial No. 459,369. PUBLISHED APRIL 4, 1944. Class 38.

407,657. SPONGES. GULF & WEST INDIES CO., INC., New York, N. Y.
Filed May 11, 1943. Serial No. 460,546. PUBLISHED APRIL 11, 1944. Class 1.

407,658. CHAMOIS. GULF & WEST INDIES CO., INC., New York, N. Y.
Filed May 11, 1943. Serial No. 460,547. PUBLISHED APRIL 11, 1944. Class 1.

407,659. LUMBER. HENRY A. BRANDMEIR, doing business as Brandmeir Lumber Company, Seattle, Wash.
Filed May 18, 1943. Serial No. 460,688. PUBLISHED APRIL 11, 1944. Class 12.

407,660. BRANDY. MILDURA WINERY PROPRIETARY LIMITED, Merbein, Victoria, Australia.
Filed May 27, 1943. Serial No. 460,964. PUBLISHED DECEMBER 7, 1943. Class 49.

407,661. LEAD PENCILS. A. W. FABER, INC., Newark, N. J.
Filed June 17, 1943. Serial No. 461,461. PUBLISHED APRIL 11, 1944. Class 37.

407,662. WINES. CALIFORNIA WINE SALES, INC., Lodi, Calif.
Filed June 28, 1943. Serial No. 461,710. PUBLISHED NOVEMBER 9, 1943. Class 47.

407,663. CONCENTRATE OF VITAMINS AND MINERALS FOR USE AS AN ADDITION TO FOODS FOR LIVESTOCK, DAIRY COWS, POULTRY, DOGS, AND FUR BEARING ANIMALS. SEALED-IN VITAMINS, INC., New York, N. Y.
Filed July 3, 1943. Serial No. 461,857. PUBLISHED APRIL 4, 1944. Class 6.

407,664. MEDICINAL PREPARATIONS OF BERBERIS FOR USE AS A GERMICIDE. ALBERT LABORATORIES, INC., Chicago, Ill.
Filed July 12, 1943. Serial No. 461,995. PUBLISHED APRIL 4, 1944. Class 6.

407,665. WINES. GLENN A. SMITH, doing business as Santa Nella Vineyards, Los Angeles, Calif.
Filed July 12, 1943. Serial No. 462,032. PUBLISHED APRIL 11, 1944. Class 47.

407,666. BRANDY. GLENN A. SMITH, doing business as Santa Nella Vineyards, Los Angeles, Calif.
Filed July 12, 1943. Serial No. 462,033. PUBLISHED APRIL 11, 1944. Class 49.

407,667. WELDED METAL TUBING. GLOBE STEEL TUBES CO., Milwaukee, Wis.
Filed July 23, 1943. Serial No. 462,254. PUBLISHED NOVEMBER 16, 1943. Class 13.

407,668. RAZORS, RAZOR BLADES, SAFETY RAZORS, SAFETY RAZOR BLADES, MECHANICAL RAZOR STROPPERS, MECHANICAL RAZORS, AND ELECTRIC TONSORIAL SHAVERS. SOLA HERMANOS, Buenos Aires, Argentina.
Filed July 26, 1943. Serial No. 462,325. PUBLISHED APRIL 4, 1944. Class 23.

407,669. MEDICINAL PREPARATION CONTAINING VITAMINS INDICATED FOR USE IN THE PREVENTION OR TREATMENT OF VITAMIN DEFICIENCIES. HOFFMANN-LA ROCHE, INC., Nutley, N. J.
Filed July 31, 1943. Serial No. 462,415. PUBLISHED OCTOBER 12, 1943. Class 6.

407,670. ASPHALT FELT ROLL ROOFING AND SHINGLES. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo.
Filed August 20, 1943. Serial No. 462,896. PUBLISHED APRIL 11, 1944. Class 12.

407,671. PAINT IN PASTE FORM. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed August 21, 1943. Serial No. 462,931. PUBLISHED APRIL 4, 1944. Class 16.

407,672. BRANDY. CALWISA BRANDY COMPANY, Lodi, Calif.
Filed August 28, 1943. Serial No. 463,063. PUBLISHED FEBRUARY 1, 1944. Class 49.

407,673. WATER REPELLENT FOR USE ON FABRICS. R. R. STREET & CO., INC., Chicago, Ill.
Filed September 3, 1943. Serial No. 463,218. PUBLISHED APRIL 4, 1944. Class 6.

407,674. MAGNETO TESTING AND ANALYZING APPARATUS AND PARTS THEREOF. JOSEPH WEIDENHOFF, INC., Chicago, Ill.
Filed September 9, 1943. Serial No. 463,306. PUBLISHED JANUARY 4, 1944. Class 26.

407,675. METAL GRILLE FENCING, TRELLISES, AND GATES. DALLAS E. WALKER, doing business as Art Craft Metal Works, Tampa, Fla.
Filed September 27, 1943. Serial No. 463,717. PUBLISHED APRIL 11, 1944. Class 13.

407,676. INVESTMENT SURVEY BULLETIN AND STATISTICAL YEARBOOK, SAID BULLETIN BEING PUBLISHED AND DISTRIBUTED WEEKLY AND SAID STATISTICAL YEARBOOK BEING PUBLISHED AND DISTRIBUTED ANNUALLY. ARNOLD BERNHARD, New York, N. Y.
Filed October 6, 1943. Serial No. 463,927. PUBLISHED APRIL 4, 1944. Class 38.

407,677. ELECTRICAL INSULATOR BONDING MATERIALS—NAMELY, ELECTRICAL INSULATOR CUSHION COMPOUND, ELECTRICAL INSULATOR BUSHING CEMENT POWDER, ELECTRICAL INSULATOR BUSHING CEMENT LIQUID, AND ELECTRICAL INSULATOR ENAMEL FOR USE IN FORMING BONDS BETWEEN ELECTRICAL INSULATOR PARTS. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee and West Allis, Wis.
Filed October 9, 1943. Serial No. 464,013. PUBLISHED APRIL 11, 1944. Class 21.

407,678. CLEANING AND POLISHING COMPOUND FOR CLEANING AND POLISHING PAINTED, ENAMELED, AND PORCELAIN SURFACES. SERVEL, INC., Evansville, Ind., and New York, N. Y.
Filed October 20, 1943. Serial No. 464,274. PUBLISHED APRIL 11, 1944. Class 4.

407,679. TEQUILA. SIMON LEVI CO., LTD., Los Angeles, Calif.
Filed October 25, 1943. Serial No. 464,394. PUBLISHED APRIL 11, 1944. Class 49.

407,680. FERTILIZER COMPOUND. HERCULES POWDER COMPANY, Wilmington, Del.
Filed October 27, 1943. Serial No. 464,437. PUBLISHED APRIL 11, 1944. Class 10.

407,681. CIGARS. NATIONAL CIGAR CORPORATION, Wilmington, Del., Frankfort, Ind., and Cincinnati, Ohio.
Filed October 28, 1943. Serial No. 464,488. PUBLISHED APRIL 11, 1944. Class 17.

407,682. POULTRY FEEDS CONTAINING CORN MEAL, BRAN, GROUND WHEAT, PULVERIZED OATS, LINSEED OIL MEAL, SOYA BEAN OIL MEAL, AND OTHER INGREDIENTS. HARPER FEED MILLS, INC., Pittsburgh, Pa.
Filed October 29, 1943. Serial No. 464,507. PUBLISHED APRIL 11, 1944. Class 46.

407,683. GOLF TEES. LANDON P. SMITH, INC., Irvington, N. J.
Filed November 4, 1943. Serial No. 464,732. PUBLISHED APRIL 11, 1944. Class 22.

407,684. BROOCHES, BRACELETS, NECKLACES, LAVALIERES, PENDANTS, AND BUCKLES FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES. JOHN RUBEL, doing business as John Rubel Co., New York, N. Y.
Filed November 5, 1943. Serial No. 464,761. PUBLISHED APRIL 11, 1944. Class 28.

407,685. AIRPLANES AND STRUCTURAL PARTS THEREFOR. CURTISS-WRIGHT CORPORATION, New York and Buffalo, N. Y., Columbus, Ohio, St. Louis, Mo., and Louisville, Ky.
Filed November 6, 1943. Serial No. 464,778. PUBLISHED APRIL 11, 1944. Class 19.

407,686. WOMEN'S AND MISSES' SPORT JACKETS, SKIRTS, SUITS, AND BLOUSES. H. & M. SCHAINMAN SPORTWEAR, New York, N. Y.
Filed November 6, 1943. Serial No. 464,798. PUBLISHED JANUARY 25, 1944. Class 39.

407,687. POWER CUTTING KNIVES INSTALLED ON WOODWORKING, PAPER CUTTING, VENEER CUTTING, AND SHEET METAL SHEARING MACHINES. THE OHIO KNIFE COMPANY, Cincinnati, Ohio.
Filed November 22, 1943. Serial No. 465,206. PUBLISHED APRIL 4, 1944. Class 23.

407,688. MACHINE CUTTING TOOLS USED ON SHAPERS, PLANERS, LATHES, AND OTHER METAL CUTTING MACHINES. THE OHIO KNIFE COMPANY, Cincinnati, Ohio.
Filed November 22, 1943. Serial No. 465,207. PUBLISHED APRIL 4, 1944. Class 23.

407,689. WOVEN OR OTHER FABRICS IN STRIPS, SHEETS OR CONTINUOUS ROLLS HAVING ONE SURFACE PROCESSED TO PRESENT A LEATHER LIKE SURFACE. LEONARD FREEDMAN & SONS LTD., New York, N. Y.
Filed November 25, 1943. Serial No. 465,289. PUBLISHED FEBRUARY 22, 1944. Class 50.

407,690. STENCIL INK. DIAGRAPH-BRADLEY STENCIL MACHINE CORPORATION, St. Louis, Mo.
Filed December 1, 1943. Serial No. 465,415. PUBLISHED MARCH 28, 1944. Class 11.

407,691. CLEANING, CLEANSING, AND DETERGENT MATERIAL, PARTICULARLY ADAPTED FOR WASHING BOTTLES, BUT NOT LIMITED THERETO. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich.
Filed December 3, 1943. Serial No. 465,496. PUBLISHED APRIL 4, 1944. Class 4.

407,692. AUXILIARY CONTROL APPARATUS FOR AUTOMATIC REGULATORS—NAMELY, APPARATUS FOR ELIMINATING AND MINIMIZING "HUNTING," OVERSHOOTING, AND UNDESIRABLE OSCILLATION OR DELAYS IN THE ATTAINMENT OF A PREDETERMINED VALUE BY A REGULATED VARIABLE. THE BRISTOL COMPANY, Waterbury, Conn.
Filed December 8, 1943. Serial No. 465,612. PUBLISHED APRIL 11, 1944. Class 26.

407,693. APPARATUS FOR USE IN PNEUMATIC TELEMETERING SYSTEMS—NAMELY, APPARATUS WHEREIN A FLUID PRESSURE IS MADE PROPORTIONAL TO OR REPRESENTATIVE OF THE VALUE OF A MEASURED MAGNITUDE AT THE POINT OF MEASUREMENT, AND IS QUANTITIVELY DETERMINED AT A REMOTE POINT WHEREBY AT SAID REMOTE POINT THERE IS EXHIBITED A VALUE OF THE MAGNITUDE UNDER MEASUREMENT. THE BRISTOL COMPANY, Waterbury, Conn.
Filed December 8, 1943. Serial No. 465,614. PUBLISHED APRIL 11, 1944. Class 26.

407,694. THERMALLY-OPERATED ELECTRICAL APPARATUS—NAMELY, RELAYS WHEREIN CIRCUIT CONTROLLING ELEMENTS ARE ACTUATED BY ELECTRICALLY HEATED THERMAL MEMBERS, THE WHOLE BEING ENCLOSED IN A GAS-TIGHT ENVELOPE, EVACUATED OR OTHERWISE MAINTAINED AT NON-ATMOSPHERIC CONDITIONS. THE BRISTOL COMPANY, Waterbury, Conn.
Filed December 8, 1943. Serial No. 465,615. PUBLISHED APRIL 11, 1944. Class 21.

407,695. PUBLICATIONS, CHARTS, AND DRAWINGS IN THE MOTION-PICTURE EQUIPMENT FIELD PUBLISHED FROM TIME TO TIME. NATURAL VISION EQUIPMENT CORPORATION, New York, N. Y.
Filed December 17, 1943. Serial No. 465,848. PUBLISHED APRIL 11, 1944. Class 38.

407,696. MEN'S, WOMEN'S, BOYS', AND GIRLS' LEATHER SPORT COATS AND JACKETS. H. L. B. CORPORATION, New York, N. Y.
Filed December 18, 1943. Serial No. 465,869. PUBLISHED APRIL 11, 1944. Class 39.

407,697. MAGAZINE COLUMN. THE F-R PUBLISHING CORPORATION, New York, N. Y.
Filed December 20, 1943. Serial No. 465,900. PUBLISHED MARCH 14, 1944. Class 38.

407,698. LIPSTICK, ROUGE, FACE POWDER, FACIAL MAKE-UP, BRILLIANTINE, AND FINGER NAIL POLISH AND PERFUMES. ASSOCIATED DISTRIBUTORS, Chicago, Ill.
Filed December 24, 1943. Serial No. 466,033. PUBLISHED APRIL 4, 1944. Class 6.

407,699. WOOLEN PIECE GOODS. BOTANY WORSTED MILLS, Passaic, N. J.
Filed December 29, 1943. Serial No. 466,143. PUBLISHED APRIL 4, 1944. Class 42.

407,700. WOOLEN PIECE GOODS. BOTANY WORSTED MILLS, Passaic, N. J.
Filed December 29, 1943. Ser. No. 466,144. PUBLISHED APRIL 4, 1944. Class 42.

407,701. READY-MIXED PAINTS. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed December 29, 1943. Ser. No. 466,181. PUBLISHED APRIL 4, 1944. Class 16.

407,702. APPLIQUÉ EMBLEMS FOR DECORATING AND TRIMMING GARMENTS AND TEXTILES. PRESS-ON, INC., New York, N. Y.
Filed December 30, 1943. Ser. No. 466,206. PUBLISHED APRIL 4, 1944. Class 40.

407,703. SKIN OINTMENT FOR INJURIES AND INFECTIONS OF THE SKIN. RESEARCH DRUG CO., INC., New York, N. Y.
Filed December 31, 1943. Ser. No. 466,230. PUBLISHED APRIL 4, 1944. Class 6.

407,704. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. CHARLES A. EATON COMPANY, Brockton, Mass.
Filed January 6, 1944. Ser. No. 466,348. PUBLISHED APRIL 4, 1944. Class 39.

407,705. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. CHARLES A. EATON COMPANY, Brockton, Mass.
Filed January 6, 1944. Ser. No. 466,349. PUBLISHED APRIL 4, 1944. Class 39.

407,706. REPELLENTS FOR RODENTS AND INSECTS AND INSECTICIDES, FUNGICIDES, HERBICIDES, RODENTICIDES, AND BACTERICIDES. NUGUARD CHEMICALS, INC., East Paterson, N. J.
Filed January 6, 1944. Ser. No. 466,361. PUBLISHED APRIL 4, 1944. Class 6.

407,707. REINFORCING STEEL BARS FOR USE IN CONCRETE CONSTRUCTIONS. INLAND STEEL COMPANY, Chicago, Ill.
Filed January 7, 1944. Ser. No. 466,378. PUBLISHED APRIL 11, 1944. Class 12.

407,708. PERMANENT WAVE OIL, CREAM, CLEANSING CREAM, HAIR BLEACH OIL, HAIR BLEACH OIL AND SOFTENER, WAVE OIL, ETC. MIDDLEBROOKE LANCASTER, INC., Brooklyn, N. Y.
Filed January 13, 1944. Ser. No. 466,535. PUBLISHED APRIL 4, 1944. Class 6.

407,709. SINKS AND COMBINED SINKS AND CABINETS. MULLINS MANUFACTURING CORPORATION, Salem and Warren, Ohio.
Filed January 13, 1944. Ser. No. 466,536. PUBLISHED APRIL 11, 1944. Class 13.

407,710. MASTIC COMPOUND FOR USE AS A PUTTY SUBSTITUTE IN THE GLAZING OF WINDOWS. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 13, 1944. Ser. No. 466,559. PUBLISHED APRIL 4, 1944. Class 16.

407,711. SOAP COMPOUND FOR WASHING DISHES, SILVERWARE, AND GLASSES. CHARLES BAIN, Philadelphia, Pa.
Filed January 14, 1944. Ser. No. 466,566. PUBLISHED APRIL 4, 1944. Class 4.

407,712. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed January 22, 1944. Ser. No. 466,778. PUBLISHED APRIL 11, 1944. Class 15.

407,713. SHOE POLISH. ESTATE OF LEONARD GRAZIADEI, doing business as Beau Brummel Polish Company, Worcester, Mass.
Filed January 26, 1944. Ser. No. 466,876. PUBLISHED APRIL 4, 1944. Class 4.

407,714. TELEVISION RECEIVING AND AMPLIFYING APPARATUS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed January 28, 1944. Ser. No. 466,967. PUBLISHED APRIL 11, 1944. Class 21.

407,715. CANNED DOG FOOD. EARL J. CHAPPEL, Rockford, Ill.
Filed January 29, 1944. Serial No. 466,980. PUBLISHED APRIL 11, 1944. Class 46.

407,716. PHARMACEUTICAL PREPARATION USED AS AN ADDITION TO THE DIET OF ADULTS AND CHILDREN, IN TABLET AND POWDER FORM, COMPOSED OF BREWER'S YEAST, THIAMINE, RIBOFLAVIN, AND NIACINAMIDE. MEAD JOHNSON & COMPANY, Evansville, Ind.
Filed January 31, 1944. Serial No. 467,040. PUBLISHED APRIL 4, 1944. Class 6.

407,717. CIGARS, CIGARETTES, AND SMOKING TOBACCO. LINCOLN & ULMER INC., New York, N. Y.
Filed February 1, 1944. Serial No. 467,070. PUBLISHED APRIL 11, 1944. Class 17.

407,718. PAINTINGS (BOTH OIL AND WATER-COLOR). INDIAN ARTS AND CRAFTS BOARD, Washington, D. C.
Filed February 1, 1944. Serial No. 467,083. PUBLISHED APRIL 4, 1944. Class 38.

407,719. COKE. DE BARDELEBEN COAL CORPORATION, Birmingham, Ala.
Filed February 2, 1944. Serial No. 467,092. PUBLISHED APRIL 11, 1944. Class 1.

407,720. MEN'S ATHLETIC UNDERWEAR. NANTEX MANUFACTURING CO., New York, N. Y.
Filed February 2, 1944. Serial No. 467,105. PUBLISHED APRIL 4, 1944. Class 39.

407,721. CHILDREN'S SHIRTS AND BLOUSES. ROSEWAL SPORTSWEAR CO., New York, N. Y.
Filed January 7, 1944. Serial No. 466,385. PUBLISHED APRIL 4, 1944. Class 39.

407,722. WHISKEY. BERNHEIM DISTILLING COMPANY, Louisville, Ky.
Filed January 8, 1944. Serial No. 466,400. PUBLISHED APRIL 11, 1944. Class 49.

407,723. LOTIONS FOR SKIN AND HAIR. GOLDEN GLINT COMPANY, Seattle, Wash.
Filed January 11, 1944. Serial No. 466,486. PUBLISHED APRIL 4, 1944. Class 6.

407,724. COATED TEXTILE FABRICS USED AS A LEATHER SUBSTITUTE. THE PANTASOTE LEATHER COMPANY, Passaic, N. J.
Filed January 12, 1944. Serial No. 466,512. PUBLISHED APRIL 11, 1944. Class 50.

407,725. GAS WATER HEATERS. SERVEL, INC., Evansville, Ind., and New York, N. Y.
Filed January 11, 1944. Serial No. 466,491. PUBLISHED APRIL 11, 1944. Class 34.

407,726. LADIES' DRESSES, BRUNCH COATS, AND NURSES' UNIFORMS. HARRY M. HOLLUB, doing business as Cotton Classics, New York, N. Y.
Filed February 5, 1944. Serial No. 467,196. PUBLISHED APRIL 11, 1944. Class 39.

407,727. LADIES' AND CHILDREN'S UNDERWEAR. BLUE SWAN MILLS, INC., New York, N. Y.
Filed February 7, 1944. Serial No. 467,229. PUBLISHED APRIL 11, 1944. Class 39.

407,728. WINES. TRANSAMERICA WINE CORP., New York, N. Y.
Filed February 10, 1944. Serial No. 467,325. PUBLISHED APRIL 11, 1944. Class 47.

407,729. SENSITIZED PHOTOGRAPHIC MATERIALS OF PAPER, FILM, AND GLASS. ACTINA, INC., New York, N. Y.
Filed February 12, 1944. Serial No. 467,364. PUBLISHED APRIL 11, 1944. Class 26.

407,730. WOMEN'S UNDERWEAR. HOLEPROOF HOSIERY CO., Milwaukee, Wis.
Filed February 14, 1944. Serial No. 467,399. PUBLISHED APRIL 11, 1944. Class 39.

407,731. FRESH VEGETABLES. O. R. RECKER, doing business as O. R. Recker Packing Co., Phoenix, Ariz.
Filed February 14, 1944. Serial No. 467,405. PUBLISHED APRIL 11, 1944. Class 46.

407,732. INTERNAL COMBUSTION ENGINES AND PARTS THEREOF. WILLYS-OVERLAND MOTORS, INC., Toledo, Ohio.
Filed February 18, 1944. Serial No. 467,551. PUBLISHED APRIL 4, 1944. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,733. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) HOLOPHANE COMPANY, INC., New York, N. Y. Filed Feb. 12, 1943. Serial No. 458,494.

HI-STRESS

FOR GLASS LAMP PANELS AND SCREENS (FLAT OR CURVED) GLOBES, LENSES, AND REFLECTORS, SMOOTH, RIBBED, OR PRISMATIC.
Claims use since Nov. 24, 1942.

407,734. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) COE LABORATORIES, INC., Chicago, Ill. Filed June 24, 1943. Serial No. 461,625.

CERTIFIED LABORATORY CAL SERVICE

FOR DENTAL PROSTHESES.
Claims use since Nov. 1, 1942.

407,735. (CLASS 12. CONSTRUCTION MATERIALS.) MODERN TRIMEDGE, INC., Youngstown, Ohio. Filed Aug. 24, 1943. Serial No. 462,968.

Trimedge

FOR METALLIC AND PLASTIC MOULDINGS.
Claims use since Oct. 10, 1941.

407,736. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL C. BRAGG, doing business as Live Food Products Co., Burbank, Calif. Filed Aug. 28, 1943. Serial No. 463,062.

BRAGG SPRINKLE

FOR SEASONING COMPOSED OF SPICES, HERBS, AND SALT TO BE USED AS A SALT SUBSTITUTE.
Claims use since 1934.

407,737. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CEIL GOLDFINE, doing business as V-Brands, New York, N. Y. Filed Sept. 8, 1943. Serial No. 463,270.

Jeeps

FOR PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES AND SANITARY NAPKINS.
Claims use since May 1, 1943.

407,738. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) C. A. KIGER COMPANY, Kansas City, Mo. Filed Sept. 10, 1943. Serial No. 463,320.

IDENTIFIED

Applicant is the owner of Reg. No. 406,378.
FOR PRECIOUS AND SEMI-PRECIOUS STONES.
Claims use since June 16, 1942.

407,739. (CLASS 37. PAPER AND STATIONERY.) SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass. Filed Oct. 6, 1943. Serial No. 463,951.

PUREWRAP

FOR KRAFT WRAPPING PAPER.
Claims use since 1931.

407,740. (CLASS 32. FURNITURE AND UPHOLSTERY.) ISADORE M. TWERY, doing business as Durable Textile Company, Chicago, Ill. Filed Nov. 29, 1943. Serial No. 465,375.

Slip-Coverettes

FOR SLIP COVERS FOR CHAIRS AND SOFAS.
Claims use since Feb. 6, 1943.

407,741. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARMON & REID, Grants, N. Mex. Filed Feb. 8, 1944. Serial No. 467,278.



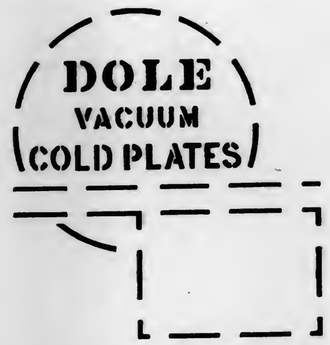
FOR FRESH VEGETABLES.
Claims use since September 1939.

407,742. (CLASS 12. CONSTRUCTION MATERIALS.) WEATHER-SEAL, INC., Barberton, Ohio. Filed Feb. 10, 1944. Serial No. 467,328.



FOR COMBINATION STORM AND SCREEN WINDOWS AND DOORS.
Claims use since June 27, 1936.

407,743. (CLASS 31. FILTERS AND REFRIGERATORS.) DOLE REFRIGERATING COMPANY, Chicago, Ill. Filed Feb. 19, 1944. Serial No. 467,561.



FOR COLD PLATES USED IN REFRIGERATION.
Claims use since July 25, 1941.

407,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KRAK-SEAL CO., Highland Park, N. J. Filed Feb. 25, 1944. Serial No. 467,760.

KRAK-SEAL

FOR CHEMICAL COMPOUND FOR SEALING CRACKED OR LEAKING BLOCKS, CYLINDER HEADS, CYLINDERS, JACKETS, RADIATORS, AND COMBUSTION CHAMBERS.
Claims use since Dec. 1, 1938.

407,745. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM P. SWARTZ, JR. AND COMPANY, Roanoke, Va. Filed Feb. 28, 1944. Serial No. 467,824.

A-SUP-R-FINE

FOR SOAPS, CLEANING COMPOUNDS FOR GENERAL USE AND SWEEPING COMPOUND, RUG SHAMPOO AND SOAP HAVING INCIDENTAL DISINFECTANT PROPERTIES.
Claims use since Sept. 19, 1941.

407,746. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BRAUN & CORWIN, Irvington-on-Hudson, N. Y. Filed Mar. 1, 1944. Serial No. 467,872.

Ivorystone

FOR CAST FIGURINES MADE FROM MARBLE DUST.
Claims use since Mar. 1, 1941.

407,747. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALLEGHENY LUDLUM STEEL CORPORATION, Brackenridge, Pa. Filed Mar. 31, 1944. Serial No. 468,863.

Allegheny

FOR INGOTS, BILLETS, BARS, RODS, WIRE, PLATES, STRIP AND SHEETS MADE FROM STEEL ALLOYS.
Claims use since January 1930.

407,748. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALLEGHENY LUDLUM STEEL CORPORATION, Brackenridge, Pa. Filed Mar. 31, 1944. Serial No. 468,864.

Allegheny Metal

FOR INGOTS, BILLETS, BARS, RODS, WIRE, PLATES, STRIP AND SHEETS MADE FROM STEEL ALLOYS.
Claims use since January 1930.

TRADE-MARK REGISTRATIONS RENEWED

24,555. **"PEACH" AND DRAWING.** LARD. Registered April 17, 1894. THE ANGLO-AMERICAN PROVISION COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 17, 1944.

25,029. **"PEACH" AND DRAWING.** HOG PRODUCTS, INCLUDING HAMS. Registered July 17, 1894. THE ANGLO-AMERICAN PROVISION COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed July 17, 1944.

25,043. **"PEACH LEAF" AND DRAWING.** HOG PRODUCTS, INCLUDING LARD. Registered July 24, 1894. THE ANGLO-AMERICAN PROVISION COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed July 24, 1944.

182,374. **VARCO.** METAL-WORKING TOOLS, WOODWORKING TOOLS, OIL-WELL TOOLS—NAMELY, DIES, DRILLS, COLD CHISELS, PLUGGING CHISELS, SOLID PUNCHES, RIVET PUNCHES, CENTER PUNCHES, AUTO PUNCHES, AND OTHER CERTAIN NAMED TOOLS. Registered April 8, 1924. ABEGG & REINHOLD CO. INC. Renewed April 8, 1944, to Abegg & Reinhold Co. Ltd., Los Angeles, Calif., a corporation of California, by change of name.

182,411. **SUN GROWN.** FRESH APPLES. Registered April 8, 1924. RESETAR BROS. Renewed April 8, 1944, to Watsonville Exchange, Inc., Watsonville, Calif., a corporation of California, successor.

182,929. **"BULL GRIP" AND DESIGN.** LIBRARY PASTE, PHOTO PASTE, LABEL PASTE, TIN AND NICKEL LABEL PASTE, AND VEGETABLE GLUES. Registered April 22, 1924. JOHN J. HARRIS, doing business as John J. Harris & Co., Chicago, Ill. Renewed April 22, 1944.

183,114. **ORENO.** FISHING REELS, FISHING RODS, ARTIFICIAL FISHING BAITS AND LURES, FISH HOOKS, FISHING LINES, LEADERS FOR FISH HOOKS. Registered April 22, 1924. SOUTH BEND BAIT COMPANY, South Bend, Ind., a corporation of Indiana. Renewed April 22, 1944.

183,218. **"PREMIER" AND DRAWING.** SPECTACLE FRAMES, EYEGLASS FRAMES, TEMPLES, AND COMPONENT PARTS OF SPECTACLE FRAMES AND OF EYEGLASS FRAMES. Registered April 22, 1924. THE TELLER OPTICAL COMPANY. Renewed April 22, 1944, to Lena Teller, Providence, R. I., assignee.

183,342. **LA TOURAINE.** LADIES' HOSIERY. Registered April 29, 1924. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 29, 1944.

183,776. **COBRO.** GOLD LEAF, IMITATION GOLD LEAF, AND SILVER LEAF. Registered May 6, 1924. COUGHLIN MANUFACTURING COMPANY, New York, N. Y., a firm. Renewed May 6, 1944.

183,824. **KLUTCH.** PREPARATIONS FOR HOLDING FALSE TEETH IN PLACE. Registered May 6, 1924. HART & CO. Renewed May 6, 1944, to I. Putnam, Inc., Elmira, N. Y., a corporation of New York, assignee.

184,170. **WELFARE.** NATURAL STERILIZED MILK. Registered May 20, 1924. AMERICAN MILK PRODUCTS CORPORATION. Renewed May 20, 1944, to General Milk Company, Inc., New York, N. Y., a corporation of Delaware, by change of name.

184,240. **REPRESENTATION OF AN OCTAGONAL DESIGN.** PACKAGED MEATS AND MEAT PRODUCTS IN GENERAL—NAMELY, BACON, HAM, AND LARD. Registered May 20, 1924. JOSEPH STERN & SONS, INC., New York, N. Y. Renewed May 20, 1944, to Armour and Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

184,569. **CELLOXAN.** CHEMICAL PRODUCT TO BE USED IN DYEING AND PRINTING. Registered May 27, 1924. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed May 27, 1944, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

184,632. **EL TORO.** OLIVE OIL. Registered May 27, 1924. BRIONES & CO., INC., New York, N. Y., a corporation of New York. Renewed May 27, 1944.

184,664. **CALHOUN.** PENCILS AND WRAPPING PAPER. Registered May 27, 1924. FISHER BROS. PAPER COMPANY, Fort Wayne, Ind., a corporation of Indiana. Renewed May 27, 1944.

184,961. **CERTIFIED.** MATRIX, DRY MAT, OR BOARD USED IN STEREOTYPING AND ELECTROTYPING. Registered June 3, 1924. GEORGE A. KUBLER. Renewed June 3, 1944, to Certified Dry Mat Corporation, New York, N. Y., a corporation of New York, assignee.

184,979. **PALMDAYL.** MEN'S, BOYS', AND WOMEN'S DRESS, NEGLIGEE, AND WORK SHIRTS, NIGHTSHIRTS, PYJAMAS, BOYS' BLOUSES, WOMEN'S BLOUSES. Registered June 3, 1924. COHN-GOLDWATER COMPANY. Renewed June 3, 1944, to Cohn-Goldwater Manufacturing Co., Los Angeles, Calif., a corporation of California, assignee.

185,297. **"CERTIFIED" AND DESIGN.** MATRIX, DRY MAT, OR BOARD USED IN STEREOTYPING AND ELECTROTYPING. Registered June 10, 1924. GEORGE A. KUBLER. Renewed June 10, 1944, to Certified Dry Mat Corporation, New York, N. Y., a corporation of New York, assignee.

185,651. **CILKLOID.** SURGICAL DRESSING IN SHEET FORM. Registered June 24, 1924. THE CILKLOID COMPANY. Renewed June 24, 1944, to V. A. McGrew, Marshalltown, Iowa, successor.

185,818. **DIAZANIL.** DYES AND DYESTUFFS. Registered June 24, 1924. H. A. METZ & CO., INC. Renewed June 24, 1944, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee.

185,819. **HELINDONE.** DYES AND DYESTUFFS. Registered June 24, 1924. H. A. METZ & CO., INC. Renewed June 24, 1944, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee.

185,828. **PINACYANOL.** SUBSTANCES FOR SENSITIZING PHOTOGRAPHIC PLATES. Registered June 24, 1924. H. A. METZ & Co., INC. Renewed June 24, 1944, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

186,012. **"CARON" AND DRAWING.** TOILET POWDER. Registered July 1, 1924. CARON CORPORATION, New York, N. Y., a corporation of New York. Renewed July 1, 1944.

186,516. **CELANESE.** LADIES' KNITTED UNDERWEAR—NAMELY, KNICKERS AND VESTS. Registered July 22, 1924. BRITISH CELLULOSE AND CHEMICAL MANUFACTURING COMPANY LIMITED, London, England, now by change of name British Celanese Limited, assignor to The American Cellulose & Chemical Manufacturing Company, Ltd. Renewed July 22, 1944, to Celanese Corporation of America, New York, N. Y., a corporation of Delaware, assignee.

186,923. **SWEETHEART.** CHILDREN'S BLOUSES AND DRESSES. Registered July 22, 1924. ELEANOR VAN NESS, Baltimore, Md. Renewed July 22, 1944, to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York, assignee by mesne assignments.

186,943. **HEXATONE.** DIURETIC ELIXIR. Registered July 22, 1924. THE UPJOHN COMPANY, Kalamazoo, Mich., a corporation of Michigan. Renewed July 22, 1944.

187,083. **TIA JUANA.** BLEACHED COTTON PIECE GOODS—NAMELY, MUSLIN, CAMBRIC, AND NAINSOOK. Registered July 29, 1924. B. B. & R. KNIGHT, INC., Providence, R. I., and New York, N. Y. Renewed July 29, 1944, to Fruit of the Loom, Inc., Providence, R. I., a corporation of Rhode Island, assignee by mesne assignments.

187,231. **"BORLAND'S STOMOEASE" AND DRAWING.** MEDICINE FOR THE TREATMENT OF STOMACH DISORDERS. Registered July 29, 1924. CHARLES W. BORLAND, Columbus, Ohio. Renewed July 29, 1944.

187,400. **TELECHRON.** ELECTRICAL MOTORS. Registered August 5, 1924. WARREN CLOCK COMPANY. Renewed August 5, 1944, to Warren Telechron Company, Ashland, Mass., a corporation of Maine, by change of name.

187,747. **SOURIRE DE FRANCE.** PERFUME. Registered August 12, 1924. LENTHERIC INCORPORATED, New York, N. Y., a corporation of New York. Renewed August 12, 1944.

187,985. **"ART BLANKET" AND DESIGN.** BLANKETS. Registered August 12, 1924. L. B. PRICE MERCANTILE COMPANY, Greenwich, Conn. Renewed August 12, 1944, to The L. B. Price Mercantile Co., St. Louis, Mo., a corporation of Missouri.

189,360. **NORTHWEST.** TRENCH EXCAVATORS, DRAG-LINE EXCAVATORS, HOISTING MACHINES, LOCOMOTIVE CRANES, SHOVELING MACHINES, AND POWER SHOVELS. Registered September 16, 1924. NORTHWEST ENGINEERING COMPANY. Renewed September 16, 1944, to Northwest Engineering Company, Green Bay, Wis., a corporation of Delaware, assignee.

189,382. **EQUITY.** HOSIERY. Registered September 16, 1924. EQUITY HOSIERY MILLS. Renewed September 16, 1944, to Equity Hosiery Company, New York, N. Y., a firm, successor.

189,396. **"BIG 'WINSTON' OVERALLS" AND DESIGN.** OVERALLS. Registered September 16, 1924. FLETCHER BROTHERS CO., doing business as Fletcher Brothers. Renewed September 16, 1944, to J. R. Fletcher, doing business as Fletcher Brothers, Winston-Salem, N. C., assignee.

189,399. **CELANESE.** DYESTUFFS. Registered September 16, 1924. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY LIMITED. Renewed September 16, 1944, to Celanese Corporation of America, New York, N. Y., a corporation of Delaware, by change of name.

189,638. **"HANDELOK" AND DRAWING.** MERCHANDISE RECEPTACLES OR ENVELOPES. Registered September 23, 1924. SERVICE BAG CO. INC., New York, N. Y. Renewed September 23, 1944, to Wolf Brothers, Philadelphia, Pa., a firm, assignee.

189,706. **YELLOW & BLUE.** COFFEE. Registered September 23, 1924. GEO. W. CASWELL CO., San Francisco, Calif., a corporation of California. Renewed September 23, 1944.

189,707. **"CASWELL'S" AND DRAWING.** COFFEE. Registered September 23, 1924. GEO. W. CASWELL CO., San Francisco, Calif., a corporation of California. Renewed September 23, 1944.

189,869. **YOLANDA.** HAIR NETS. Registered September 30, 1924. SITROUX IMPORTING CO. INC. Renewed September 30, 1944, to The Sitroux Company Inc., New York, N. Y., a corporation of New York, by change of name.

189,889. **CLUB HOUSE.** CHEESE AND BUTTER. Registered September 30, 1924. THE CHANDLER AND RUDD COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 30, 1944.

189,914. **"BANDANA" AND DRAWING.** VINEGAR. Registered September 30, 1924. ROANOKE APPLE PRODUCTS CO., Roanoke, Va., a firm. Renewed September 30, 1944.

190,001. **"MAMMOTH" AND DRAWING.** WOOD-FIBER WALL BOARD. Registered September 30, 1924. PLASTERGON WALL BOARD CO., Buffalo, N. Y., a corporation of New York. Renewed September 30, 1944.

190,002. **REPRESENTATION OF A MAMMOTH.** WOOD-FIBER WALL BOARD. Registered September 30, 1924. PLASTERGON WALL BOARD CO., Buffalo, N. Y., a corporation of New York. Renewed September 30, 1944.

190,003. **MAMMOTH.** WOOD-FIBER WALL BOARD. Registered September 30, 1924. PLASTERGON WALL BOARD CO., Buffalo, N. Y., a corporation of New York. Renewed September 30, 1944.

190,133. **IDEAL.** EVAPORATED MILK, DRY AND POWDERED MILK, DRY AND POWDERED SKIMMED MILK, MALTED MILK, CREAM, CHEESE, COFFEE WITH MILK. Registered October 7, 1924. NESTLÉ & ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland. Renewed October 7, 1944, to Nestlé's Milk Products, Inc., New York, N. Y., a corporation of New York, assignee.

190,164. **KENECO.** CURTAIN RODS, DRAPERY HARDWARE, AND WINDOW-SHADE HARDWARE. Registered October 7, 1924. KENNEY MANUFACTURING COMPANY, Cranston, R. I., a corporation of Rhode Island. Renewed October 7, 1944.

190,215. **RADIOL.** PHOTOGRAPHIC DEVELOPER. Registered October 7, 1924. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y., a corporation of New York. Renewed October 7, 1944.

190,318. **TUF-TEX.** PLAY SUITS, HOSIERY; UNDERWEAR MADE OF KNITTED AND TEXTILE FABRIC AND USED BY MEN, WOMEN, AND CHILDREN; BOYS' BLOUSES, AND OVERALLS, AND DRESS, NEGLIGEE, AND WORK SHIRTS. Registered October 14, 1924. SMITH, BEIR & GORMLY, assignor to Smith, Gormly Co., Inc. Renewed October 14, 1944, to Smith, Gormly Company, Inc., Rochester, N. Y., a corporation of New York, assignee.

190,333. **RADIOPHONE.** MOUTH HARMONICAS. Registered October 14, 1924. M. HOHNER, INC., New York, N. Y., a corporation of New York. Renewed October 14, 1944.

190,334. **BROADCASTER.** MOUTH HARMONICAS. Registered October 14, 1924. M. HOHNER, INC., New York, N. Y., a corporation of New York. Renewed October 14, 1944.

190,338. **CUTIE.** MOUTH HARMONICAS. Registered October 14, 1924. M. HOHNER, INC., New York, N. Y., a corporation of New York. Renewed October 14, 1944.

190,393. **ECONOMY.** FINISHED COMMUTATOR SEGMENTS, COPPER BARS AND STRIPS USED FOR ELECTRICAL PURPOSES, AND INSULATED COPPER WIRE. Registered October 14, 1924. ANACONDA COPPER MINING COMPANY, New York, N. Y. Renewed October 14, 1944, to Anaconda Copper Mining Company, Butte, Mont., a corporation of Montana.

190,477. **"G R" AND DRAWING.** AMPLIFIERS, DIRECT AND ALTERNATING CURRENT; AUDIOFREQUENCY TRANSFORMERS, SOCKETS, RHEOSTATS, MISCELLANEOUS SMALL PARTS—NAMELY, BINDING POSTS, SWITCHES, AND CONTACTS; AND COMPLETE RADIO SETS. Registered October 14, 1924. GENERAL RADIO COMPANY, Cambridge, Mass., a corporation of Massachusetts. Renewed October 14, 1944.

190,510. **FITRITE.** SKYLIGHT GEARING. Registered October 14, 1924. DAVID LEVOW, New York, N. Y. Renewed October 14, 1944.

190,530. **"SHEN-AN-DOAH FARMS" AND DRAWING.** FARM PRODUCTS, INCLUDING LIVE STOCK AND POULTRY, AND PARTICULARLY SHORTHORN CATTLE, BERKSHIRE HOGS, SHROPSHIRE SHEEP, LIVE AND DRESSED BARRED ROCK AND BLACK LANGHORN CHICKENS, LIVE AND DRESSED TURKEYS, AND PORK SAUSAGE. Registered October 14, 1924. W. W. WILLIAMSON, New Market, Va. Renewed October 14, 1944.

190,549. **"VELLUMOID" AND DESIGN.** SHEET PACKING AND GASKETS, MADE OF PAPER COMPOSITION. Registered October 14, 1924. THE VELLUMOID COMPANY, Boston, Mass. Renewed October 14, 1944, to The Vellumoid Company, Worcester, Mass., a corporation of Massachusetts.

190,553. **CONVENTIONAL REPRESENTATION OF A FAN-BLOWER WHEEL.** POWER-DRIVEN BLOWERS AND FANS FOR DRAFTING AND VENTILATING PURPOSES. Registered October 14, 1924. COPPUS ENGINEERING CORPORATION, Worcester, Mass., a corporation of Massachusetts. Renewed October 14, 1944.

190,554. **VANO.** POWER-DRIVEN BLOWERS AND FANS FOR DRAFTING AND VENTILATING PURPOSES. Registered October 14, 1924. COPPUS ENGINEERING CORPORATION, Worcester, Mass., a corporation of Massachusetts. Renewed October 14, 1944.

190,595. **GRAVITY.** RING SPINNING AND TWISTING TRAVELERS. Registered October 14, 1924. NATIONAL RING TRAVELER CO., Providence, R. I. Renewed October 14, 1944, to National Ring Traveler Co., Pawtucket, R. I., a corporation of Rhode Island.

190,596. **"WENTWORTH GRAVITY" AND DRAWING.** RING SPINNING AND TWISTING TRAVELERS. Registered October 14, 1924. NATIONAL RING TRAVELER CO., Providence, R. I. Renewed October 14, 1944, to National Ring Traveler Co., Pawtucket, R. I., a corporation of Rhode Island.

190.608. **VESTAL.** DISINFECTANTS, DEODORANTS, INSECTICIDES, GERMICIDES, AND VERMIN POISONS AND POWDERS. Registered October 14, 1924. VESTAL CHEMICAL COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 14, 1944.

190,690. **"F B & D" AND DESIGN.** PERIODICAL PUBLICATIONS. Registered October 21, 1924. FORD, BACON & DAVIS, INC., New York, N. Y., a corporation of New Jersey. Renewed October 21, 1944.

190,696. **"TMC" AND DESIGN.** VEHICLE BODY HARDWARE—NAMELY, VEHICLE WINDOW-REGULATOR HANDLES, AUTOMOBILE DOOR HANDLES, AUTOMOBILE DOOR PULL-TO HANDLES, AUTOMOBILE ROBE RAILS, AUTOMOBILE FOOTRESTS, AUTOMOBILE BODY KNOBS, AND INTERIOR TRIM HARDWARE FOR AUTOMOBILE BODIES. Registered October 21, 1924. TERNSTEDT MANUFACTURING COMPANY. Renewed October 21, 1944, to General Motors Corporation, Detroit, Mich., a corporation of Delaware, assignee.

190,726. **"LYRIC" AND DRAWING.** BIRD FOOD CONSISTING OF MIXED BIRDSEED. Registered October 21, 1924. PHILADELPHIA SEED CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 21, 1944.

190,747. **"RYT-OYL" AND DRAWING.** LUBRICATING OILS, GREASES, AND COMPOUNDS, CUTTING OILS AND COMPOUNDS, SOLUBLE OILS AND COMPOUNDS, THE LATTER TWO OILS AND COMPOUNDS CONSISTING OF CERTAIN NAMED MATERIALS AND USED SINGLY OR IN COMBINATION FOR THE LUBRICATION OF TOOLS, DIES, AND SIMILAR ARTICLES; QUENCHING AND TEMPERING OILS, WHICH CONSIST OF MINERAL AND ANIMAL OILS USED SEPARATELY OR IN COMBINATION IN THE HEAT TREATING OF METALS. Registered October 21, 1924. RYT-OYL LUBRICANTS COMPANY, San Francisco, Calif., a corporation of California. Renewed October 21, 1944.

190,749. **"NYOIL" AND DRAWING.** LUBRICATING OIL. Registered October 21, 1924. ANDERSON W. KELLEY, Executor for Joseph K. Nye Estate, doing business as William F. Nye, New Bedford, Mass. Renewed October 21, 1944, to William F. Nye, Inc., Fairhaven, Mass., a corporation of Massachusetts, successor.

190,750. **W. P. FULLER & CO.** VARNISHES AND DRY, PASTE, AND READY-MIXED PAINTS. Registered October 21, 1924. W. P. FULLER & Co., San Francisco, Calif., a corporation of California. Renewed October 21, 1944.

190,751. **FULLER.** VARNISHES AND DRY, PASTE, AND READY-MIXED PAINTS. Registered October 21, 1924. W. P. FULLER & Co., San Francisco, Calif., a corporation of California. Renewed October 21, 1944.

REISSUES

JUNE 20, 1944

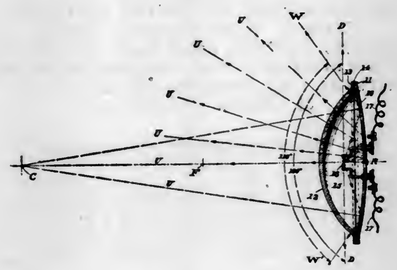
22,497

SIGNAL LAMP

Charles Adler, Jr., Baltimore, Md.

Original No. 2,339,243, dated January 18, 1944, Serial No. 509,628, November 9, 1943. Application for reissue April 7, 1944, Serial No. 530,190

4 Claims. (Cl. 176—34)



1. A "sealed beam" running lamp for aircraft having a generally circular concave reflector, the reflector surface being substantially free from dead spots throughout its area, a generally circular concave cover glass convexly disposed with respect to the reflector, said reflector and cover glass being united at their circular edges and forming a sealed chamber in which the cover glass covers substantially the entire area of the reflector, and a light source positioned in the sealed chamber, the light source being located out of the focal point of the reflector and between the reflector and the focal point thereof to produce an upright enlarged virtual image on the reflector of smaller area than the total area of the reflector when the light source is energized, the position of the light source with respect to the reflector and the curvature of the reflector being such that nonparallel beams are reflected from substantially the entire area of the reflector including the central portion thereof, some of said reflected beams having a wide angle spread with respect to the lamp axis, whereby said reflected beams are projected and are visible forwardly, to the sides and above and below the lamp and the illumination is devoid of a central dark area.

22,498

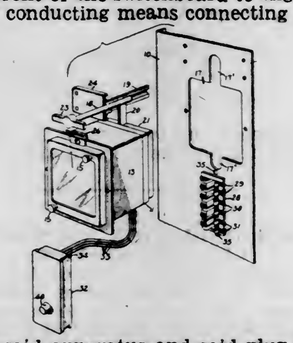
MOUNTING ELECTRICAL APPARATUS

Charles H. Hill, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York

Original No. 2,227,970, dated January 7, 1941, Serial No. 262,226, March 16, 1939. Application for reissue July 23, 1942, Serial No. 452,087

21 Claims. (Cl. 175—298)

1. In a switchboard mounting for electroresponsive apparatus provided with terminals, means insertable from the front of the switchboard through an opening therein for supporting said apparatus for movement to and from a normal switchboard position through the opening with the terminals of the apparatus at the rear of the switchboard, means operable from the front of the switchboard for securing said supporting means thereto, a terminal block mounted on the switchboard, a cooperating plug operable from the front of the switchboard to engage said block, and conducting means connecting the terminals of said apparatus and said plug movable through an opening in the switch board upon movement of said apparatus through its switchboard opening.



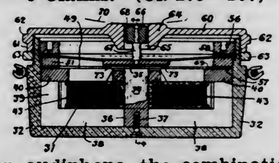
22,499

BONE CONDUCTION HEARING-AID

Hugo Lieber, deceased, late of New York, N. Y., by Lieber Patents Corporation, assignee, Elmsford, N. Y.

Original No. 2,077,425, dated April 20, 1937, Serial No. 648,733, December 24, 1932. Renewed February 28, 1934. Application for reissue April 14, 1939, Serial No. 267,932

9 Claims. (Cl. 179—107)



2. In an audiphone, the combination of electromagnetic means adapted to respond to varying currents substantially throughout the audible frequency range, a casing secured thereto, a relatively stiff vibratory member operatively associated with the means for vibration thereby, a contactor connected to the member and forming at least part of a wall of the casing, resilient means between the contactor and the casing whereby the contactor can vibrate relatively to the casing, and means supporting the casing with the contactor in operative contact with the bone structure of the user for conducting its vibrations therethrough to the inner ear.

22,500

PROCESS OF MANUFACTURING ANIMAL FEED COMPOSITIONS

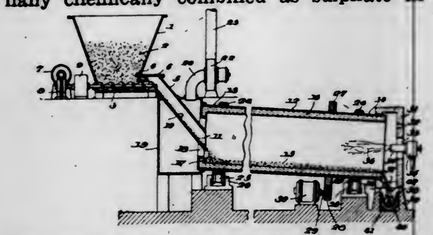
Mark Shoeld, Towson, Md., assignor to The Davison Chemical Corporation, a corporation of Maryland

Original No. 2,328,884, dated September 7, 1943, Serial No. 443,257, May 16, 1942. Application for reissue November 3, 1943, Serial No. 508,870

9 Claims. (Cl. 99—2)

1. In a process of manufacturing animal feed from superphosphates, the step of calcining

superphosphate at temperatures above 800° C. to substantially 1200° C. to remove sulphur originally chemically combined as sulphate in the



superphosphate and to increase the availability for animal feed of the calcium and phosphorus contents.

22,501

DETECTING INDICATOR FOR AIR-METHOD CLEANING SYSTEMS

Daniel Benson Replogle, deceased, late of Berkeley, Calif., by Bank of America National Trust & Savings Association, San Francisco, Carl S. Replogle, Piedmont, and Harold E. Queen and Laurie H. Bullock, both of Berkeley, Calif., executors; said Daniel Benson Replogle assignor to the Ohio Citizens Trust Company, Toledo, Ohio, a corporation of Ohio, as trustee

Original No. 2,293,920, dated August 25, 1942, Serial No. 411,931, September 22, 1941. Application for reissue January 11, 1944, Serial No. 517,897

9 Claims. (Cl. 302—65)

1. A dust indicator for a suction cleaning system, comprising a spherical chamber located in the system, having transparent outer wall and a circular diaphragm mounted for rotation about an axis within the chamber, said diaphragm including an outer transparent ring portion adapted to deflect dust against the spherical wall of



the chamber and having a central opening to permit air and dust to pass to an outlet passage.

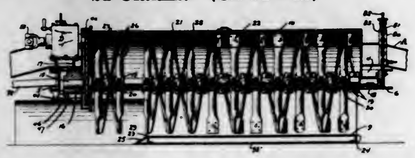
22,502

ROAD MATERIAL MIXING MACHINE

Clyde W. Wood, Pasadena, Calif.

Original No. 1,997,959, dated April 16, 1935, Serial No. 678,913, July 3, 1933. Application for reissue August 24, 1943, Serial No. 499,851

21 Claims. (Cl. 94—42)



1. A road material mixing machine comprising a wheel supported main frame adapted to be connected to a tractor to be pulled over a road to be surfaced, a mixing cylinder carried by the frame, means for gathering up material from the road and for delivering it to the cylinder, a rotatable conveyor and mixer in the cylinder for mixing, conveying and discharging the material at the rear end of the cylinder, and means for transmitting power from the tractor to drive the mixer and conveyor.

►

PATENTS

GRANTED JUNE 20, 1944

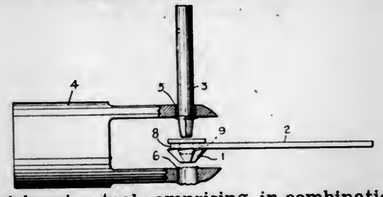
2,351,578

BURRING TOOL

Arthur G. Bauer, Hempstead, N. Y., assignor to South Shore Machine & Tool Works, Inc., Seaford, N. Y., a corporation of New York

Application March 18, 1943, Serial No. 479,661

2 Claims. (Cl. 77—73.5)



1. A burring tool comprising, in combination, a cutting head provided with an angularly disposed cutting face, an annular groove disposed above said cutting face, a socket in said cutting head for engagement with a rotatable spindle, and a handle disposed at substantially right angles to the axis of rotation of the cutting head, said handle being mounted in said annular groove and said cutting head being freely rotatable in said handle.

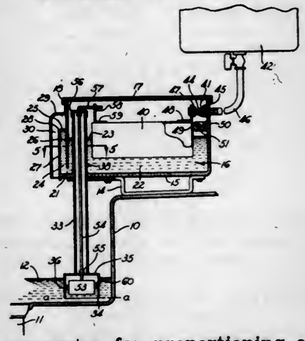
2,351,579

METHOD AND APPARATUS FOR PROPORTIONING

Arnold O. Beckman, Altadena, Calif., assignor to National Technical Laboratories, South Pasadena, Calif., a corporation of California

Application November 22, 1941, Serial No. 420,140

20 Claims. (Cl. 137—68)



2. An apparatus for proportioning a solution into a liquid in a receptacle as the liquid level therein rises, including in combination: a container adapted to retain a body of said solution; means for displacing a portion of said solution from said container into said receptacle in response to an increase in the amount of liquid in said receptacle; a source of supply of said solution; and means for admitting additional solution from said source of supply to said container only between periods of displacement of solution from said container to said receptacle in amount sufficient to compensate for the solution displaced from said container during the preceding period of displacement and for preventing admission of additional solution to said container from said source during each of said periods of displacement.

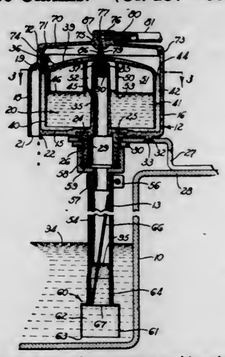
2,351,580

METHOD AND APPARATUS FOR PROPORTIONING

Arnold O. Beckman, Altadena, Calif., assignor to National Technical Laboratories, South Pasadena, Calif., a corporation of California

Application November 22, 1941, Serial No. 420,139

26 Claims. (Cl. 137—68)



1. An apparatus for proportioning a solution into a liquid in a receptacle as the liquid level therein rises, including in combination: walls defining a main chamber and a discharge chamber completely surrounding said main chamber, said chambers being adapted to contain main and discharge columns of said solution and said columns communicating with each other at a position below the upper surfaces thereof; overflow means associated with said discharge chamber and communicating with said receptacle for discharge of solution into said receptacle as the surface of said discharge column rises to said overflow means; means for displacing solution from said main chamber to said discharge chamber to overflow into said receptacle in amount substantially proportional to the increase in the amount of liquid in said receptacle; and means for bringing said chambers to atmospheric pressure preparatory to said displacing of said solution.

2,351,581

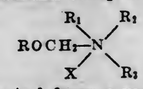
STABILIZATION OF CELLULOSIC FABRICS WITH OXYMETHYL QUATERNARY SALTS

Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application April 5, 1941, Serial No. 378,066

8 Claims. (Cl. 8—124)

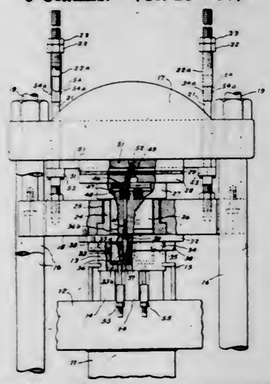
1. A process for stabilizing a cellulosic fabric against changes in dimensions, which comprises impregnating said fabric with a solution containing between about 5% and about 20% of a quaternary ammonium compound of the formula



wherein R is selected from a member of the class consisting of aliphatic and cycloaliphatic hydrocarbon groups and aralkyl groups of less than 13

carbon atoms, X is an anion, and R_1, R_2, and R_3 are selected to satisfy three valences of the nitrogen from at least one member of the class consisting of trivalent unsaturated hydrocarbon groups which jointly with the nitrogen form a heterocycle, divalent saturated aliphatic groups which jointly with the nitrogen form a heterocycle, and monovalent alicyclic, araliphatic, and aliphatic groups, drying the impregnated fabric under conditions imparting the desired dimensions, and heating to cause reaction between fabric and salt.

2,351,582
TRANSFER MOLDING PRESS
George P. Bohrer, Union Township, Union County, N. J., assignor to Shaw Insulator Company, Irvington, N. J., a corporation of New Jersey
Application August 29, 1941, Serial No. 408,721
6 Claims. (Cl. 18—30)

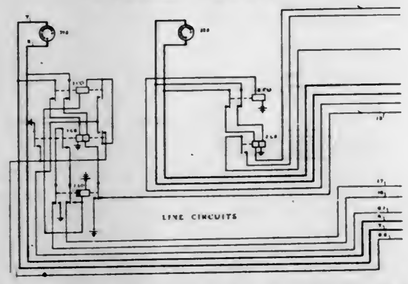


3. A transfer molding press comprising a die, a loading chamber for charging said die with thermosetting molding material, said chamber being formed by a cylinder and having a piston associated therewith, means for effecting relative movement between said cylinder and piston, a gate leading from said chamber into said die, and means for removing thermally reacted cull material from said chamber and from said gate comprising a cull-pulling plug on and located inwardly of the edge of the bottom of said piston and in alignment with said gate for connecting the said thermally reacted cull to said piston inwardly of the edge of said cull and for maintaining such connection during relative separating movement of the cylinder and piston in which the cull is withdrawn from within said chamber, said plug being small enough to enter said gate, a pin mounted in said piston for detaching the thermally reacted cull from said plug and from said piston, and means for operating said pin to detach the cull from the piston upon withdrawal of the reacted material from said gate and from within said loading chamber.

2,351,583
INSECTICIDAL COMPOSITION
Clifford J. Boissonou, Concord, and Wallace J. Yates, Martinez, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 2, 1941, Serial No. 409,159½
8 Claims. (Cl. 167—28)

1. An insecticidal composition comprising an emulsifiable mineral oil insecticidal material and a minor portion of a saturated aliphatic ketone having from 7 to 12 carbon atoms, said ketone being free from polarizing groups in the alkyl chains thereof.

2,351,584
THREE-DIMENSIONAL CROSSBAR SWITCH SYSTEM
Theron L. Bowser and Frank H. Slaymaker, Rochester, N. Y., assignors to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application August 18, 1942, Serial No. 455,196
12 Claims. (Cl. 179—22)



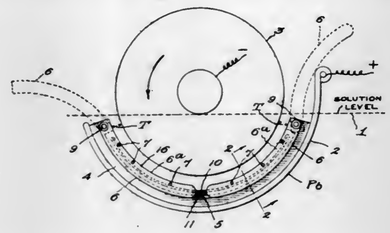
1. In a telephone system, a cross bar switch, a group of lines and a plurality of trunks appearing in the contact sets of said switch, a plurality of units magnets each common to all lines of said group having the same units digit, a plurality of tens magnets each common to all lines of said group having the same tens digit, means controlled over a calling line for operating the units and tens magnets common to this line, a trunk magnet individual to each trunk of said plurality, means controlled by the operation of said units and said tens magnets for operating a trunk magnet associated with an idle trunk, means controlled by the operation of said trunk magnet for operating only the contact set which connects said calling line to said idle trunk, and lockout means including contacts directly actuated by said units and said tens magnets for preventing the operation of more than one of each of said magnets at any one time.

2,351,585
THERMOFLUID PRINTING INK
Frank G. Breyer, Wilton, Conn., assignor to J. M. Huber, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application July 11, 1940, Serial No. 344,847
4 Claims. (Cl. 260—23)

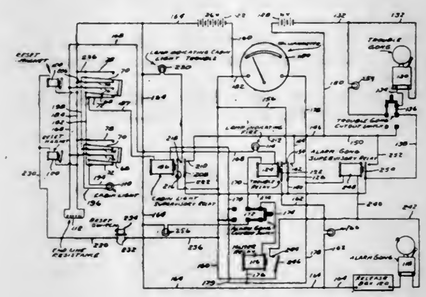
1. Thermo-fluid printing ink consisting of coloring pigment incorporated in a normally solid vehicle, at least 85% of said vehicle consisting of about 25 to 40% of hard thermo-plastic cumarone resin, about 15 to 30% of gilsonite and about 30 to 45% of hydrogenated soya bean oil.

2,351,586
APPARATUS FOR ELECTROPLATING CYLINDERS
Silas Coulson, Jackson Heights, N. Y.
Application December 20, 1941, Serial No. 423,750
8 Claims. (Cl. 204—212)

1. In an electroplating apparatus having a cylindrical rotatable cathode, a container for electrolyte beneath the cathode with the electrolyte partially immersing said cathode, and a support arranged below the immersed portion of the cathode and substantially coaxial therewith, the combination with the aforesaid support, of an anode assembly comprising; sheets of stripped copper shell in face abutting relation to one another carried by said support and substantially coaxial with the cylinder, a filter overlying said copper sheets and substantially coextensive therewith, a grid bearing down upon the filter to hold the filter and copper sheets in substantially uniform arcuate spaced relation to the surface of the cylinder.



2,351,587
ALARM CIRCUITS
John H. Derby, Scarsdale, N. Y.
Original application August 3, 1937, Serial No. 157,105. Divided and this application June 26, 1940, Serial No. 342,445
3 Claims. (Cl. 177—355)



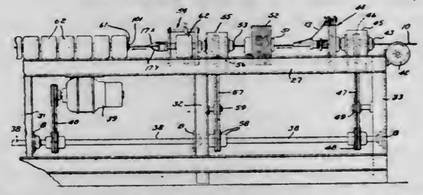
1. In a fire alarm system, a normally closed main signal circuit comprising electrically operable signal means, a source of electric current, a trouble relay magnet and resistance sufficient to maintain the current flow in said circuit below signal operating level but high enough to energize the trouble relay magnet, a normally closed local signal circuit also connected to said source of electric current and comprising a local signal and a trouble relay magnet, said local circuit having therein resistance sufficient to maintain the current flow in said circuit below the operating level for said local signal but high enough to keep the trouble relay magnet energized, a two-way switch and connections between said switch and said main and local circuits whereby movement thereof from one position to the other establishes a local signal operating shunt across the resistance in the local signal circuit and establishes said local circuit in signal operating shunt relation to the resistance in the main signal circuit.

2,351,588
OSCILLATING CODE TRANSMITTER
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application December 12, 1940, Serial No. 369,862
3 Claims. (Cl. 185—45)



1. In combination, in a motor, a base plate, a cylindrical thrust bearing, a vertical shaft for rotation in said thrust bearing, said bearing being supported on said base plate and having its upper cylindrical end reduced in diameter to leave a shoulder near its lower end, said shaft having its lower end within said thrust bearing, a spiral spring having its inner end secured to said shaft, a radius arm having one end swingingly adjustably secured to said reduced cylindrical end of said thrust bearing, and means for securing the free end of said radius arm to the outer free end of said spiral spring.

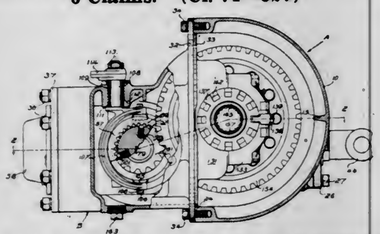
2,351,589
METHOD AND APPARATUS FOR MAKING NONMETALLIC SHEATHED CONDUCTORS
Charles W. Abbott, Larchmont, N. Y.
Application August 2, 1941, Serial No. 405,181
4 Claims. (Cl. 57—7)



3. An apparatus for insulating a conductor comprising a frame having means for supporting and drawing, at a given linear speed and along a given path, a wire core, said frame carrying a plurality of means spaced along said path for applying covering element to the core, one of said means comprising a source of supply of tape element and a flyer having means for driving it at a fixed R. P. M. in relation to the speed of movement of said core to helically wind said tape element about the core, whereby the width of the latter to be adequate to completely cover the core at the radius of winding is determined by the diameter of the core and by the fixed number of turns per unit length of core resulting from the fixed relation of flyer R. P. M.

to core speed, a source of supply of cord element of substantial thickness and a flyer for helically applying the cord element to the taped core with means for applying to the corded core a pliant mass of material and for smoothing it thereover during drawing movement of the core, thereby materially increasing the core diameter, another of said plurality of means comprising a source of supply of tape element and a flyer driven in fixed relation to the rate of drive of said first-mentioned flyer for helically winding said second-mentioned tape element onto the now larger-diametered core, whereby the width of said second tape element to completely cover the larger core at the latter's radius of winding is determined by whatever is the diameter of said larger core and by the fixed number of turns per unit length of core resulting from the fixed relation between the drive of said second flyer and the drive of said first flyer.

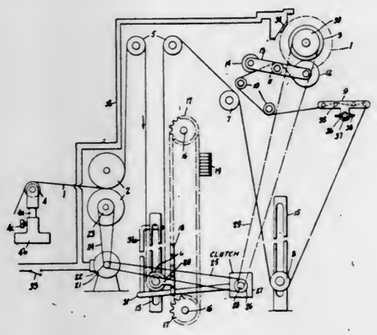
2,351,590
DRIVE AXLE
Herbert W. Alden, Detroit, Mich., and Beverly W. Keese, Oshkosh, Wis., assignors to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application July 29, 1940, Serial No. 348,292
6 Claims. (Cl. 74—327)



1. In a drive axle, a hollow main housing having a pair of axle arms projecting in opposite directions therefrom; a drive axle rotatable in each of said arms; a mating housing secured to said main housing and disposed substantially normal to said axle arms; an opening in said main housing aligning with a front opening and a rear opening in said mating housing; a bearing assembly in the opening in said main housing and a bearing assembly in the front opening of said mating housing, said bearing assemblies rotatably supporting a drive shaft disposed substantially normal to said axle arms; a countershaft journalled for rotation in said mating housing substantially at right angles to said drive shaft, a driven gear on said countershaft meshing with a driving gear on said drive shaft, means for transmitting power from said countershaft to said drive axles, the front end of said mating housing being of greater diameter than said driven gear; and recess means in the front opening in said mating housing sufficiently large to permit said driven gear to be withdrawn through said opening after said bearing assemblies and drive shaft have been removed.

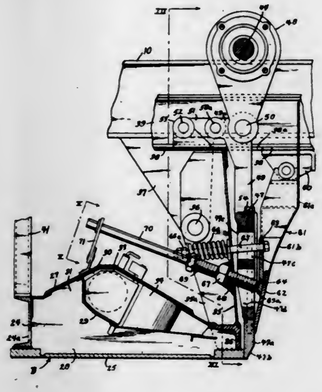
2,351,591
TRANSMITTING MECHANISM
David Balk, New York, N. Y., assignor to Superba Manufacturing Co., Inc., New York, N. Y., a corporation of New York
Application April 16, 1941, Serial No. 388,773
3 Claims. (Cl. 242—75)

1. In a transmitting apparatus for web material, the combination of feed rolls, a tension roll to engage said material in its passage through said apparatus, an endless chain supporting said roll to enable the latter to move vertically between upper and lower positions according to the tension on the material, a winding roll to receive said material after it leaves said ten-



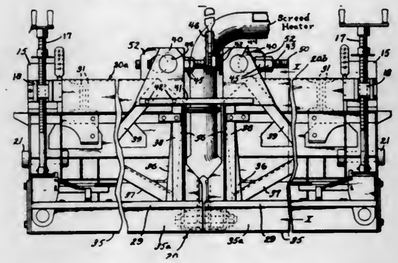
sion roll, a motor to actuate the winding roll, means for connecting and disconnecting the motor and winding roll and a lever to control said means shaped to be engaged by the tension roll in one position to cause said means to connect the winding roll to the motor and in the other position to disengage said means.

2,351,592
TAMPER, SCREED, AND DEFLECTOR CONSTRUCTION FOR ROAD FINISHING MACHINES
Harry H. Barber, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a corporation of Illinois
Application August 1, 1940, Serial No. 349,037
13 Claims. (Cl. 94—46)



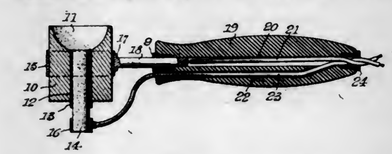
7. In a road finishing machine including a tamper and screed assembly, the improvement which comprises a deflector plate pivotally suspended in front of said tamper assembly, a detachable rigid plate on the lower end of said deflector plate and means holding said rigid plate in sealing relationship with the active bottom end of the tamper assembly.

2,351,593
SCREED CONSTRUCTION FOR ROAD FINISHING MACHINES
Harry H. Barber, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a corporation of Illinois
Application August 1, 1940, Serial No. 349,038
13 Claims. (Cl. 94—46)



10. In a screed assembly for a road finishing machine having two screed plates in abutted end to end relation, the improvement which comprises a bracket carried by the rear end of each screed plate, a screw rod extending between and operatively connecting each bracket, and means for operating said screw rod to force the brackets apart for crowning the rear ends of the screed plates.

2,351,594
ELECTRIC CRUCIBLE
Lawrence F. Black and Clarence H. Mellor, Denver, Colo.
Application August 31, 1942, Serial No. 456,755
4 Claims. (Cl. 219—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

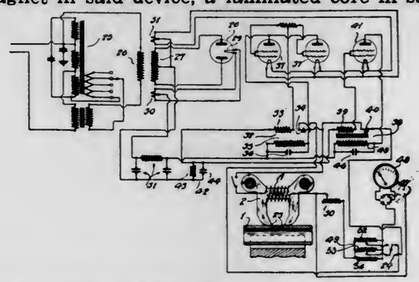


1. An electric crucible comprising a tubular outer electrode provided with an internally concaved surface extending from the outer to the inner surfaces of its cylindrical wall, an inner electrode provided with an insulating sheath fitted within said outer electrode and terminating at one end at the intersection of the concave surface with the inner wall of said outer electrode to form the floor and side wall of a receptacle in which material to be melted conductively bridges said electrodes, a manipulating means and conductors connecting said electrodes with a source of power.

2,351,595
MAGNETIC TESTING DEVICE
Theodore S. Bindschedler, Grosse Pointe, and Carl K. Davis, Mount Clemens, Mich., assignors, by mesne assignments, to Magnetic Products Corporation, Detroit, Mich., a corporation of Michigan
Application May 23, 1940, Serial No. 336,694
8 Claims. (Cl. 175—183)

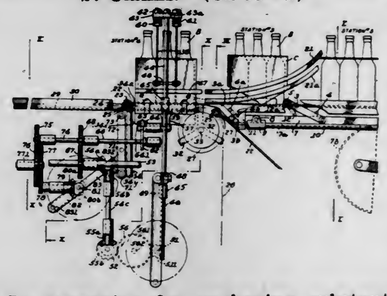
1. An electro-magnetic testing device for testing the surface properties of magnetic materials adapted to operate on alternating current of high frequencies, said device comprising a full wave rectifier, a filter operatively connected to said full wave rectifier, a plurality of oscillating vacuum tube circuits adapted to be fed from said filter, each of said circuits containing a vacuum tube and an inductance, an exciting coil, a core in said coil adapted to contact the material to be tested, a switch means adapted to connect said exciting coil to any of said circuits, a rectifier adapted to convert the alternating current in said exciting coil to direct current and a direct current measuring instrument.

2. An electro-magnetic testing device for testing the physical, chemical or heat treatment properties of magnetic materials, an electro-magnet in said device, a laminated core in said



electro-magnet adapted to contact the material to be tested, laminations in said core having substantially an arcuate shape, laminations in said core spaced between said arcuated laminations and having ends taking substantially the position of the ends of the said arcuate laminations, a coil in said electro-magnet wound around a portion of the body of all said laminations, the second mentioned laminations being adapted to project beyond the sides of the other laminations, spring means on the projecting part of said laminations adapted to urge the second mentioned laminations to project slightly beyond the other laminations at the portions of said core adapted to contact the material to be tested.

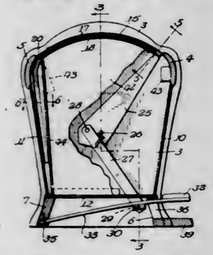
2,351,596
ART OF MERCHANDISE PACKAGING
Ernest M. Brogden and Ronald R. Brogden, Savannah, Ga., assignors to Duz-Pak Corporation, Savannah, Ga., a corporation of Florida
Application July 31, 1940, Serial No. 348,870
27 Claims. (Cl. 93—2)



1. In apparatus for packaging substantially rigid columnar articles having at least one flat end, such as bottles or cans, a flat plate-like member adapted and arranged to engage one flat-end face only of a generally rectangular group of such articles, in combination with means adapted and arranged, when said plate-like member so engages such an article group, to fold the end portions of a carton-forming strip, applied directly to the other faces of such group

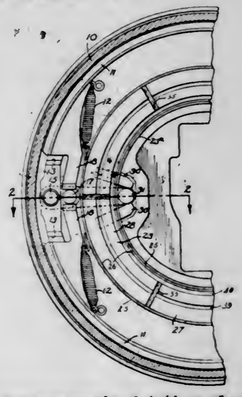
in circumferential series with said flat-end face thereof, into overlapping relation against the outer surface of said plate-like member and to secure the overlapped strip end margins together to form an open-ended tubular container, said plate-like member being separable from said article group and its associated container by relative longitudinal or endwise movement.

2,351,597
RECEPTACLE
Leslie H. Burlin, Valparaiso, Ind.
Application May 14, 1942, Serial No. 442,988
5 Claims. (Cl. 312—192)



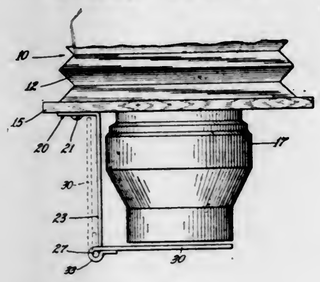
1. A container having a bottom, side walls, a front wall and a rear wall, the side walls having opposite circular grooves therein adjacent the top thereof, a sliding cover guided in said grooves, levers pivoted on the respective side walls at the centers of the curvature of the respective grooves, actuating links extending from the respective levers, a bar interconnecting the links for simultaneously operating the links, a cantilever leaf spring secured at its rear end to the container below the bottom thereof and secured adjacent its forward end to the interconnecting bar and supporting said bar and extending forward of said bar, a pedal connected to and extending forward of the bar for lowering the bar against the action of the leaf spring, said bar actuating the links to actuate the levers to swing the cover to its open position.

2,351,598
ELECTROMAGNETIC FRICTION DEVICE
Addi B. Cadman, Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill., a corporation of Illinois
Application December 3, 1941, Serial No. 421,427
6 Claims. (Cl. 188—164)



1. An electromagnetic friction device having, in combination, a magnet element and an armature element having flat annular faces adapted for axial gripping engagement during energization of the magnet element, and means carried by and extending transversely of one of said elements and presenting abrasive particles disposed substantially flush with the face of the supporting element.

2,351,599
PHOTOGRAPHIC ENLARGER
John C. Carpenter, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application September 29, 1941, Serial No. 412,775
3 Claims. (Cl. 88—24)



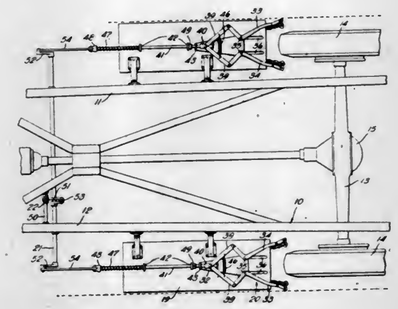
1. In combination with a projection apparatus which includes a lens, a lens mount and a lens board from which said mount extends, a bracket element secured to the board and extending therefrom at one side of said mount, a masking element, and means connecting said elements at an axis parallel to the plane of said lens board, said connecting means including a pintle fixed to one of said elements, the other element having a resilient tongue bearing against said pintle and the pintle having flat surfaces respectively engageable with said tongue when the masking element extends across the end of the lens and also when it extends from said pintle toward the lens board.

2,351,600
LAMINATED SOUND RECORD
William R. Collings, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application September 23, 1940, Serial No. 357,929
7 Claims. (Cl. 154—43)



7. A sound record having a supporting base and a laminated surface film bonded thereto, said surface film being a unitary body comprised of (1) a hard outer layer adapted to have impressed thereon a sound track and consisting essentially of an organo-soluble ethyl cellulose and a plasticizer and (2) a thermally cementitious inner layer, softer than the outer layer, in contact with said supporting base consisting essentially of the same organo-soluble ethyl cellulose, and a plasticizer in greater proportion than in the hard layer, said inner layer being adapted to soften and adhere tenaciously to said supporting base at a temperature at least 50° F. below the softening point of said outer layer.

2,351,601
SKID CHAIN APPLIER
Robert Dabbs, Pittsburgh, Pa.
Application June 11, 1941, Serial No. 397,602
5 Claims. (Cl. 152—214)



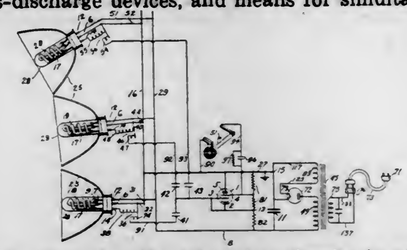
1. The combination with an automotive vehicle of a housing mounted forwardly of a wheel of the vehicle, hook elements provided at the opposite sides of the wheel, a skid chain having headed end links arranged within said housing and having its ends extending from the housing adjacent the wheel, arms pivotally and slidably mounted for movement relative to the hook elements carried by the said wheel, catch means carried by the arms for detachably holding the headed links at one end of the chain, complemental shanks pivotally mounted on the arms and movable toward the hooks, catch means carried by the shanks for detachably holding the headed links at the opposite end of the chain, spring means urging the shanks in a direction to effect engagement of the second-mentioned links with the headed portions of the said first-mentioned links, and means for simultaneously pivoting and sliding said arms in the direction of the wheel to dispose the links carried thereby in the path of rotation of the said hook elements.

2,351,602
CONDENSATION PRODUCT OF AN AMINO-TRIAZINE, AN ALDEHYDE, AND A HALOGENATED AMIDE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 6, 1941, Serial No. 409,838
19 Claims. (Cl. 260—42)

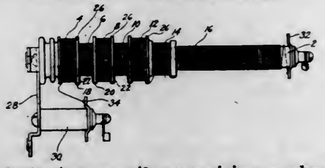
10. A resinous composition comprising the product of reaction of ingredients comprising urea, melamine, formaldehyde and monochloroacetamide.

2,351,603
CONDENSER-DISCHARGE ELECTRIC SYSTEM
Harold Eugene Edgerton, Belmont, Mass.
Application December 6, 1941, Serial No. 421,931
25 Claims. (Cl. 315—241)

1. An electric system having, in combination, a condenser, means for charging the condenser, a plurality of gaseous-discharge devices, means for connecting the gaseous-discharge devices in parallel to the condenser, a plurality of triggering circuits, one connected to each of the gaseous-discharge devices, and means for simultaneously triggering the triggering circuits to effect a discharge of the condenser simultaneously through the gaseous-discharge devices.



2,351,604
INDUCTANCE COIL
Thomas M. Ferrill, Jr., Mineola, N. Y., assignor to National Company, Inc., Malden, Mass., a corporation of Massachusetts
Application January 18, 1941, Serial No. 375,055
20 Claims. (Cl. 175—359)



1. An inductance coil comprising a plurality of single-layer continuously connected windings, the cross-dimensions of adjacently disposed windings having abruptly different values.

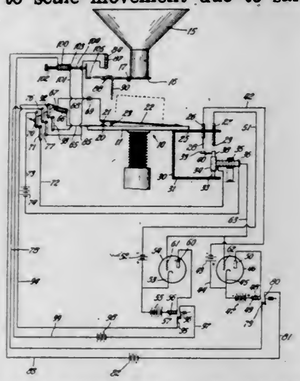
2,351,605
METAL TREATMENT
Robert C. Gibson, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
No Drawing. Application March 2, 1942, Serial No. 433,014
7 Claims. (Cl. 148—6)

1. In the process of coating metal surfaces by an acidic phosphate coating solution accelerated by a nitrite, the step of including in the solution an acid which does not add to the PO_4 in the solution, and including said acid in an amount sufficient to counteract neutralization by the nitrite.

2,351,606
WEIGHT INDICATING MEANS
Allan R. Gold and Carl J. Heinisch, Chicago, Ill.
Application February 7, 1941, Serial No. 377,786
9 Claims. (Cl. 249—55)

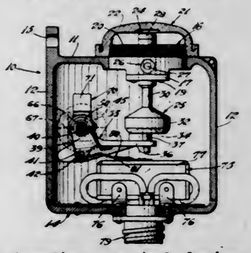
1. A system for predetermining net weights on a weighing scale, said scale having a part movable in predetermined relation to the total weight actuating said scale with the total weight consisting of an initial weight and a predetermined additonal weight to be added successively thereon, said system comprising a vertically disposed rod resting on said part and movable therewith through said initial weighing operation, electromagnetic means for restraining said rod against additional movement and maintaining the same in a fixed position, means for energizing said electromagnetic means after said initial weighing operation, means for adding material making up such additional weight on said

scale, means movable with said scale part relatively to said rod and cooperating therewith in response to scale movement due to said added



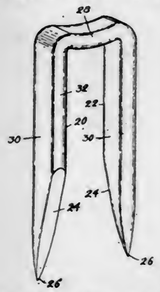
material, and means controlled by said last-named means for cutting off addition of said material after said additional weight has attained a predetermined value.

2,351,607
IMPACT ACTUATOR
Harry C. Grant, Jr., New York, N. Y., and Albert Manhartsberger, Bloomfield, N. J., assignors to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application July 22, 1941, Serial No. 403,552
4 Claims. (Cl. 74—2)



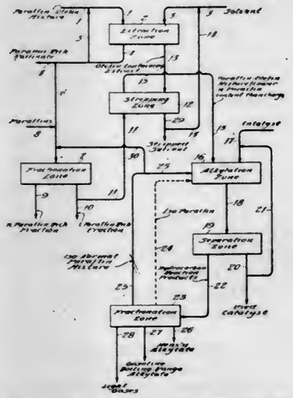
1. In an inertia operated device of the class described, the combination of a pendulum mounted for universal movement and having a weighted portion provided with a depression at the underside thereof; an arm having one end thereof pivotally supported, the other end of said arm being free and having an upwardly projecting finger provided with a surface for engaging the depression of said pendulum; resilient means effective to move said arm in a direction to urge said finger into engagement with the depression; and counterbalancing means at the pivotally supported end of said arm connected for movement with said arm, said counterbalancing means being constructed to compensate for the weight of the portion of said arm extending from its pivotally supported end to its free end having said finger thereon, whereby the weight of said arm and its moment about its pivotal support will not materially increase or decrease the magnitude of the pressure with which said finger bears against the depression when the device is subjected to impact and whereby said pendulum will swing out of engagement with said finger in response to impacts of a predetermined magnitude applied from any direction at a given angle with respect to the vertical.

2,351,608
STAPLE AND METHOD OF MAKING THE SAME
Talma T. Greenwood, Boston, Mass., assignor to Superior Manufacturing Company, Fitchburg, Mass., a corporation of Massachusetts
Application January 18, 1941, Serial No. 375,032
10 Claims. (Cl. 59—77)



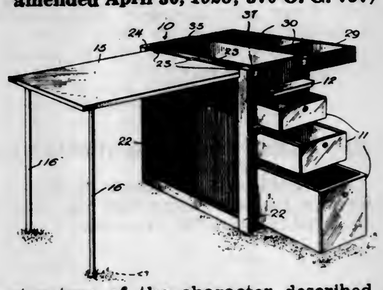
2. The method of making a staple of improved driving ability having parallel legs and a bridge integral with and connecting said legs, which method consists in joining the ends of the bridge and legs abruptly at the inside of the legs by positioning the bridge below the ends of the legs where they join the bridge and forcing bridge material laterally toward the legs.

2,351,609
ALKYLATION OF HYDROCARBONS
Vladimir Haensel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 13, 1942, Serial No. 438,756
6 Claims. (Cl. 260—683.4)



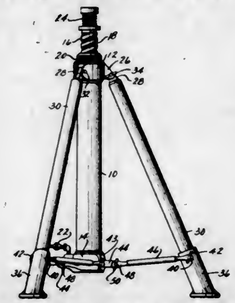
5. A process which comprises subjecting a hydrocarbon fraction containing normal and isoparaffins and olefins to the action of an aqueous solvent having a relatively high selectivity for the olefins to form an olefin extract, fractionating the resultant paraffin raffinate into a normal paraffin part and an isoparaffin part, stripping the olefin extract of its olefins by contacting the same with at least a portion of said isoparaffin part, subjecting the resultant isoparaffin-olefin mixture to alkylation and reacting the isoparaffins with the olefins, separating unconverted paraffins from the resultant reaction products and supplying at least a portion of said unconverted paraffins to the fractionating step.

2,351,610
COMBINED CABINET, DESK, AND TABLE
William A. Hamberg, United States Army, Oklahoma City, Okla.
Application November 4, 1942, Serial No. 464,501
1 Claim. (Cl. 190—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



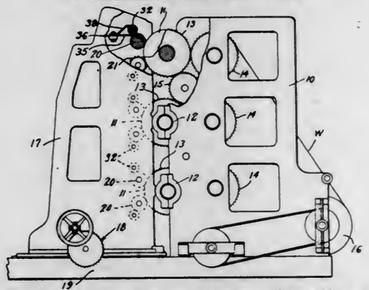
A structure of the character described, comprising a cabinet having four vertical closed faces, corner braces arranged at the corners of the cabinet, two of said corner braces having slide-ways and two having wells therein, a table extension having tongues slidably supported in said slide-ways, sockets carried by the said table, legs secured in the said sockets and adapted to support said table when it is extended for use, said legs being removable and arranged to be housed in said wells when the table is folded against the cabinet, and a top hingedly connected to the cabinet at the side opposite the table and adapted when folded to cover the slide-ways and the wells.

2,351,611
LIFTING JACK WITH EXTENDIBLE LEG STRUCTURE
Thomas A. Hammond, Minneapolis, Minn.
Application February 27, 1943, Serial No. 477,409
5 Claims. (Cl. 254—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



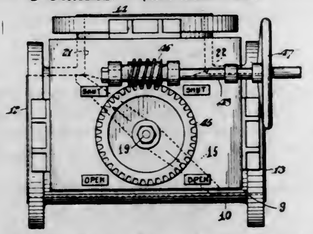
1. The combination, in a lifting jack, of a lifting unit having a cylindrical portion with an upper and a lower head, circumferentially spaced pairs of leg hinge lugs on the upper head, leg members having their upper ends hinged, one between the lugs of each pair, foot members having sockets in their upper ends to receive the lower ends of the leg members, circumferentially spaced spokes on the lower head, angularly intermediate said pairs of lugs, pairs of brace-attaching ears extending from the outer ends of said spokes, said spokes and ears extending in a plane transverse to the axis of said heads, two widely spaced ears of said brace attaching ears, one emanating from each of two adjacent spokes constituting a pair, pairs of braces, each pair having their inner ends secured to the spaced apart ears of a pair and their outer ends converging to opposite sides of one of said foot members, and a single means securing the outer ends of a pair of braces, a foot member, and a leg member together.

2,351,612
PRINTING PRESS
John F. Hawley, Riverside, Ill.
Application May 16, 1941, Serial No. 393,717
5 Claims. (Cl. 101—216)



1. In a printing press, the combination with a printing roll carrying a resilient printing plate and having a rigid annular bearing surface, of a metal form inking roller contacting the raised printing indicia on said plate and bearing directly against said rigid annular bearing surface and of a resilient vibrator roller contacting said metal form inking roller.

2,351,613
THREE-WAY VALVE
David W. Hopkins, Philadelphia, Pa.
Application July 6, 1942, Serial No. 449,935
3 Claims. (Cl. 251—14)



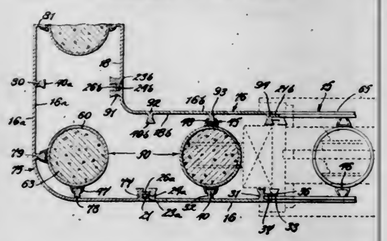
1. In a three way valve a butterfly vane comprising a vane body having an oval profile and having a long and a short axis, said body having a pair of diametrically extending apertured boss portions concentric with the short axis, the boss portions having plane ends normal to the axis thereof, and the periphery between boss plane portions being formed of intersecting angularly inclined sealing surfaces.

2,351,614
MEAT PROCESS AND PRODUCT
Claude H. Hills, Arlington, Va., and Halvar Orin Halvorson, St. Paul, Minn., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 3, 1941, Serial No. 401,020
14 Claims. (Cl. 99—107)

1. The process which comprises injecting from 0.02 mg. to 1.0 mg. of epinephrine per kilogram

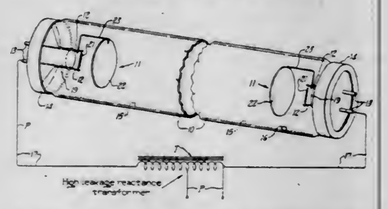
of body weight into a living animal thereby causing depletion of tissue glycogen and then slaughtering the animal after an interval of from approximately 1 to 4 hours whereby development of acidity in the meat carcass is minimized.

2,351,615
BUILDING CONSTRUCTION
Robert Maxwell James, Buffalo, N. Y.
Application June 3, 1940, Serial No. 338,505
7 Claims. (Cl. 72—16)



2. In a building construction, a supporting structure, a plurality of rectangular rigid plates laid against said supporting structure and each being provided along two meeting edges with a rearwardly offset tongue the front face of which is substantially coplanar with the rear face of the plate and each plate being provided on its rear face along the vertical edge of its other two meeting edges with a rib, a flange projecting outwardly from said rib parallel to said rear face and engaging the rear face of the offset vertical tongue of an adjacent plate, said rib projecting rearwardly from said rear face of said plate a distance greater than the rearward projection of said tongues and said rib being provided at its lower end with a notch engaging the rear face of the offset horizontal tongue of an adjacent plate, and means fastening the ribs of said plates to said supporting structure.

2,351,616
ELECTRIC DISCHARGE DEVICE
Walter J. Karash, Annapolis, Md., and Eugene Lemmers, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application April 21, 1942, Serial No. 439,896
9 Claims. (Cl. 176—122)



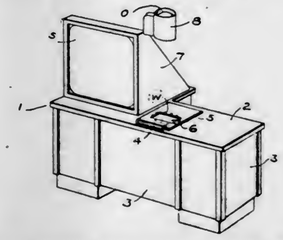
1. A cold-starting positive column electric discharge device characterized by low pressure and a diffuse discharge therein during operation, said device comprising a discharge envelope with an ionizable operating atmosphere therein, and coacting discharge electrodes in said envelope spaced apart to provide for a positive column discharge between them; one of said electrodes, which functions as cathode, comprising a self-heating thermionic member so fine as to be heated to effective emission by the discharge, and also comprising an electrode disc electrically connected to said thermionic member and mounted across the envelope in front of said member, within the outer boundary of where the Faraday dark space would otherwise be, and of such ample surface area, as compared with the cross-section of the envelope where it is located and with the thermionic member, that no substantial sputtering from said member occurs during starting, while the Faraday dark space is reduced at least to a minor fraction of the extent it would otherwise have.

2,351,617
STEERING GEAR FOR AUTOMOBILES AND THE LIKE
Morris Katcher, New York, N. Y.
Application July 13, 1943, Serial No. 494,473
7 Claims. (Cl. 74—500)



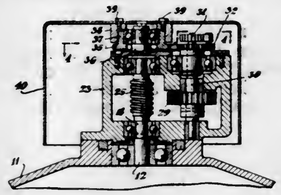
1. For use in a steering gear having a rotatable steering column with a worm mounted on the column, a roller element for engaging at its periphery the thread of the worm, a rock arm supporting in it the roller element in contact with the thread and a ball between each side of the roller element and the rock arm, said balls being located in line with the axis of rotation of said roller element, providing a pivotal support for the roller element in the rock arm, the rotation of the worm swinging the rock arm and rotating the roller element.

2,351,618
LECTURE AND PROJECTION DESK OF THE SCRIPTOSCOPE TYPE
David Katz, Wilmington, Del., assignor to The Scriptoscope Company, Wilmington, Del., a corporation of Delaware
Application July 2, 1942, Serial No. 449,441
2 Claims. (Cl. 88—24)



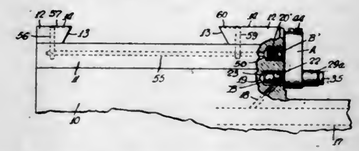
1. A projection apparatus of the Scriptoscope type comprising in combination a lecture desk; a transparent writing panel in the top of the desk; illuminating means outside the desk, mounted in position to send a beam of light through said writing panel into the interior of the desk; a plano-convex lens associated with said writing panel for concentrating said beam of light as it passes into the interior of the desk, forming an image of the light source at a point within the desk; reflecting means within the interior of the desk positioned to intercept said beam of light and to project it unto a shadow-transmitting screen fitted into the structure of the desk; and a focussing lens within the desk situated within the path of the beam of light and positioned to focus onto said screen rays of shadow originating in the plane of said writing panel; said focussing lens being so selected as to have a focal length between 0.6 and 1.0 times the focal length of the plano-convex lens aforementioned, and the latter in turn being so selected as to have a focal length at least 1.7 times the length of the maximum diameter of the writing panel.

2,351,619
GYRO ERECTING MECHANISM
Vernon R. Kimball, Maywood, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application July 16, 1942, Serial No. 451,174
14 Claims. (Cl. 74—5)



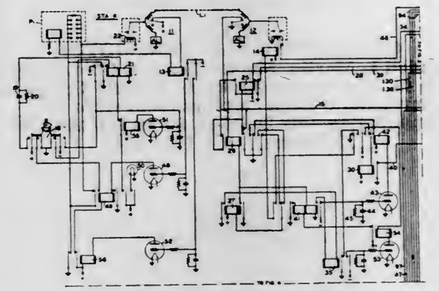
1. In a gyro vertical, the combination of a gyroscope comprising a rotor mounted for spinning about a normally vertical axis, a casing mounting said rotor for angular movement about two mutually perpendicular horizontal axes at right angles to the spin axis, a member mounted for rotation about the rotor spin axis, a speed reduction mechanism connecting said rotor to said member for rotating said member at a speed substantially less than the speed of rotation of said rotor, said mechanism including a ratchet wheel and a pawl normally engaging said wheel for maintaining the speed of rotation of said member substantially constant while the rotor spin axis is in its normally vertical position, and a weight guided by said member for disengaging said pawl from said wheel upon deviation of the spin axis to vary the speed of rotation of said member whereby erecting forces are developed on the gyroscope to return the rotor spin axis to its normally vertical position.

2,351,620
HYDRAULICALLY OPERATED MACHINE TOOL
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application August 3, 1940, Serial No. 350,648
10 Claims. (Cl. 184—6)



1. In a hydraulically operated lathe the ways of which are to be lubricated, said lathe being provided with a source of oil pressure, a plurality of bores leading to said ways, a pressure reduction and oil distributing unit connected to the outside of said lathe and controlling the inlet to said bores and a connection to said unit from said hydraulic pressure source, said unit carrying a pressure reduction valve and also a plurality of high restriction metering fittings connected in parallel to the surfaces to be lubricated.

2,351,621
PRINTING TELEGRAPH EXCHANGE SYSTEM
George G. Light, Kew Gardens, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 31, 1941, Serial No. 404,765
15 Claims. (Cl. 178—2)

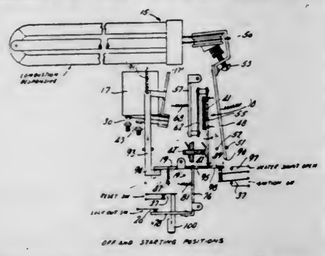


1. In a multi-station telegraph system, telegraph lines or channels, a plurality of stations at which said lines or channels terminate, printers at said stations for effecting communication between stations over said lines or channels, each of said printers including means responsive to alternate rest or marking and spacing signal conditions in permutation code in said lines or channels for controlling the printer, means at one station for interrupting the rest condition of the line or channel to another station for two different periods of predetermined duration, timing means at said other station for detecting said two line interruptions, means including said timing means for rendering said other station responsive to the call upon receipt of one of said line interruptions and for restoring the equipment thereat to normal upon receipt of the other line interruption, means at said other station to interrupt the rest condition of said line or channel for a third period of predetermined duration and timing means at said one station for detecting said third line interruption.

2,351,622
FUEL BURNER SYSTEM
Homer E. Malone, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application June 22, 1940, Serial No. 341,795
19 Claims. (Cl. 158—28)

1. In a control system for a burner, the combination of a control circuit for the burner, a safety lock-out mechanism comprising two primary latch members, an intermediate latch member adapted to be governed by either of said primary latch members, a terminal latch member adapted to be governed by said intermediate latch member and operable when released to govern re-setting of said intermediate latch member, a

safety lock-out switch controlling said circuit and governed by said terminal latch member, a



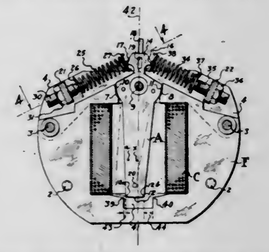
timer governing one of said primary latch members, and a combustion responsive means governing the other of said primary latch members.

2,351,623

OSCILLATING ELECTRIC MOTOR

Wendell L. Martin, Shaker Heights, Ohio, assignor to The Martin Brothers Electric Company, Cleveland, Ohio, a corporation of Ohio

Application July 29, 1941, Serial No. 404,538
12 Claims. (Cl. 172—126)



1. An alternating current electric motor of the oscillating armature type including, a stationary core having a pole portion, a coil, an armature supported for oscillating movement relative to said core and having a pole portion adjacent said core pole portion, one of said pole portions being divided into spaced salient faces of like polarity, the other of said pole portions having one less salient face than the said divided pole portion, said armature having a period of vibration substantially equal to the frequency of the alternating current supply whereby each succeeding half cycle of the energizing alternating current will urge said armature in the opposite direction from the preceding half cycle.

2,351,624

TREATMENT OF HYDROCARBONS

Julian M. Mavity, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 31, 1940, Serial No. 363,684
3 Claims. (Cl. 196—52)

1. A process for treating hydrocarbons of approximately motor fuel boiling range to increase the antiknock value thereof which comprises subjecting said hydrocarbons at a temperature from about 450 to about 700° C. and at a pressure from about atmospheric to about 500 pounds per square inch to contact with a catalytic material comprising essentially a major proportion of titanium oxide supporting a minor proportion of chromium oxide.

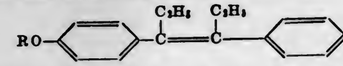
2,351,625

GLUCOSIDES AND PROCESS OF MAKING THE SAME

Karl Miescher, Riehen, Switzerland, Werner Fischer, Summit, N. J., and Jules Heer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J.

No Drawing. Application March 25, 1941, Serial No. 385,196. In Switzerland March 16, 1938
10 Claims. (Cl. 260—210)

1. The compounds of the formula



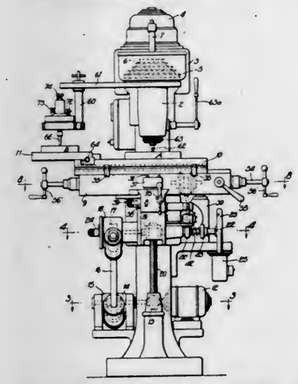
wherein R is a lower aliphatic-acylated monosaccharide radical, and R′ is a member of the group consisting of hydrogen, a lower aliphatic acid radical, a lower aromatic acid radical, and a free and lower aliphatic-acylated monosaccharide radical.

2,351,626

ELECTRIC FEELER CONTROL FOR MACHINE TOOLS

Eduard Felix Müller, Leipzig, Germany; vested in the Alien Property Custodian

Application August 3, 1938, Serial No. 222,743
In Germany January 14, 1936
12 Claims. (Cl. 90—13.5)



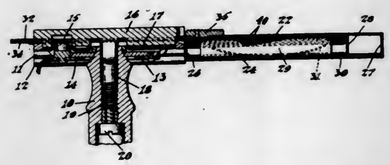
1. An electrically actuated feeler control for machine tools having a feeler disposed in fixed relation to the operating tool of the machine, an operating table carrying the work piece and the pattern to be copied, means for oscillating the pattern and work piece on said table toward and away from the feeler and operating tool respectively so as to perform a multitude of reciprocations independent of the contour of the pattern, means controlled by the force of the contact between the feeler and the pattern for actuating said moving means to remove the table from the pattern and tool when the pattern touches the feeler and to again reverse the table movement as soon as the feeler and pattern are out of contact, separate means for normally longitudinally reciprocating the operating table within a desired range in a direction transversely to the feeler and operating tool to reproduce point by point the pattern contour on the work piece, and means actuated by the movement of said operating table toward and away from said feeler for arresting said longitudinal table motion when the feeler passes into a depression of the pattern and has oscillated beyond a given range until the feeler reaches the bottom of said depression and has caused the table to recede from the feeler.

2,351,627

SAFETY RAZOR AND MAGAZINE

Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Original application July 23, 1943, Serial No. 495,866. Divided and this application September 10, 1943, Serial No. 501,834
4 Claims. (Cl. 30—40)



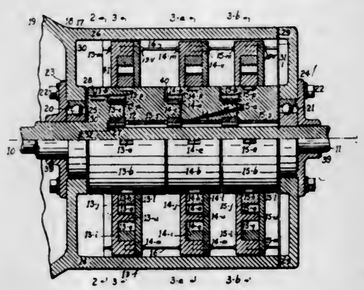
2. A razor and magazine combination comprising a safety razor having blade-holding members connected for limited separation to receive a blade, and a magazine having a flexible carrier slide movable with a blade between said members, blade-retracting projections on the slide, and means in the razor for deflecting the slide to locate said projections in inoperative relation to the blade previously delivered.

2,351,628

AUTOMATIC CHANGE SPEED POWER TRANSMISSION MECHANISM

Howard J. Murray, New York, N. Y.

Application August 21, 1940, Serial No. 353,441
12 Claims. (Cl. 74—293)



1. In a device of the class described, the combination of planetary gearing, a driving rotor and a driven rotor in drive relation, a plurality of bidirectional fluid control organizations, roller clutch means for drive connecting and disconnecting the organizations one after the other to the gearing in accordance with the load torque on the driven rotor, and fluid for the said organization.

2,351,629

RATE-OF-TURN METER

Paul A. Noxon, Tenafly, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware

Application April 17, 1942, Serial No. 439,426
8 Claims. (Cl. 33—204)

8. A two-degree-of-freedom rate-responsive gyroscope for aircraft, means mounting said gyroscope for precession in response to turning of said craft about one of its axes, a leaf spring opposing the precession of said gyroscope to centralize the latter about its axis of precession, and means acting on said spring to cause it to apply a force to said mounting means opposing said precession, said force being proportional to the



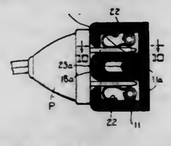
tangent of the angle of precession, whereby said angle becomes a true measure of the rate of turn of said craft.

2,351,630

ELECTRICITY CONDUCTOR UNIT

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application April 26, 1941, Serial No. 390,455
4 Claims. (Cl. 173—334.1)



1. An electricity conductor unit comprising, in combination, a three-sided hollow body of electrical insulation material, means within said hollow body for supporting a plurality of electricity conductors in mutually insulated, spaced relationship, said conductors having terminals exposed at the ends of the body to afford seriatim electrical and mechanical interconnection with the electricity conductors of an adjacent unit, said conductors being angularly offset intermediate the ends thereof, and insulating closure means for said hollow body adapted to fit snugly against said conductors to confine the same within said hollow body, said closure means having a rib extending longitudinally thereof and positioned intermediate said conductors within the body to form an insulating wall therebetween, and wall means spaced from said central rib at the ends of said closure means and engaging said angularly offset portion of a conductor to cam said conductor against said central rib during a circumstance wherein said conductor is subjected to endwise pressure, thereby restraining said conductor against endwise displacement with respect to said hollow body.

2,351,631

ELECTRICITY CONDUCTOR UNIT

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application June 14, 1941, Serial No. 398,030
11 Claims. (Cl. 173—334.1)



2. An electricity conductor unit comprising a substantially hollow cap member having a plurality of relatively thin transverse walls arranged

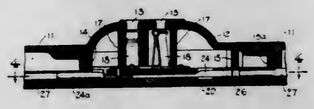
therein, said walls having grooves disposed in longitudinal alignment and formed with uniformly sloping surfaces diverging from longitudinally aligned apices; a base member for said cap adapted to operate as a closure therefor, and provided with longitudinally extending grooves arranged in opposition to the grooves in said cap, said grooves having uniformly sloping surfaces converging toward an apex which is in a common vertical plane with the apices of the grooves in the cap member, said base member having means for reinforcing the transverse walls of the cap member between adjacent grooves thereof; electricity conductor means removably confined within said unit in tangential engagement with said cap and base grooves and extending longitudinally of the unit, the sloping surfaces of the grooves extending beyond their point of tangency with said conductor means but not beyond the center plane of the conductor; and means for securing said base member to said cap member.

2,351,632

POLARIZED OUTLET SECTION FOR ELECTRIC WIRING SYSTEMS

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application April 27, 1942, Serial No. 440,608
6 Claims. (Cl. 173—330)



1. A polarized outlet section for an electric wiring system, comprising a substantially hollow cap member of insulation material formed with a plurality of apertures in an outer face to individually receive a blade of a polarized attachment plug, said cap member having a plurality of transverse walls provided with mutually registering notches, a base member of insulation material cooperating with said cap member to form an enclosure therefor, said base member having a matching plurality of notches for registry with the notches in said cap member to form longitudinally-extending passages, and unitary conductor means for removable positioning within said housing upon said base, said unitary conductor means including a plate of insulation material, a plurality of electricity conductors positioned in parallel relationship beneath said plate and secured thereto, and electric contact means equal in number to the blades of such polarized attachment plug positioned on the insulating plate and individually electrically connected to selected electricity conductors; the conductors of said unitary conductor means being coextensive with the cap member and individually confined within said passages for maintenance in mutually spaced, insulated, relationship.

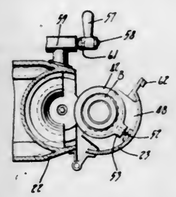
2,351,633

CLOSING MACHINE

Howard B. Peterson, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application January 13, 1942, Serial No. 426,620
3 Claims. (Cl. 113—82)

1. In a can closing machine wherein a housing is provided for enclosing a can receiving chamber and having an opening therein through which a can to be closed and a cover are introduced into the chamber, and a seaming head is located within said chamber, and a lifter pad is also disposed within the chamber in vertical alignment with said seaming head for receiving and supporting a can to be closed, the improvement comprising a door hingedly connected to



said housing for sealing the chamber opening, a floating annular ring in said chamber for holding a can cover in spaced and vertical alignment with said can, said annular ring being movably mounted on and also movable bodily with said door to render said ring accessible for the manual insertion of a cover therein when the door is open, and means carried by said door for supporting said ring for movement relative thereto.

2,351,634

METHOD OF PRODUCING ANIMATED CARTOONS

Robert Place, Boston, Mass., assignor to Place Process Inc., Glen Cove, N. Y.

Application June 6, 1935, Serial No. 25,309
Renewed March 25, 1939
12 Claims. (Cl. 88—16)



1. The method of producing animated cartoons from a series of cartoon drawings which comprises, photographically producing images of said series of drawings on successive areas of one face of a transparent strip, opaquing the opposite face of the strip within outlines of the images in varying tones to complete the cartoon images, and photographing the series of completed images from the image bearing face of the strip on successive frames of a sensitized film.

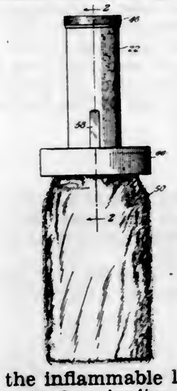
2,351,635

FIRE BOMB

Asa Porter Prather and Ralph Russell, Georgetown, Ky., assignors of four-eighteenths to Otho Porter Prather, three-eighteenths to J. C. McKnight, and three-eighteenths to Thomas K. Shuff, all of Georgetown, Ky.

Application December 26, 1941, Serial No. 424,516
11 Claims. (Cl. 102—65)

1. A manually thrown fire bomb comprising an impact frangible container for an inflammable liquid, a wick means exteriorly of and adjacent the container, a handle attached to said container, a primer container for an inflammable liquid mounted on said handle adjacent said wick means, means for opening the primer con-



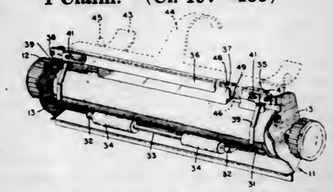
tainer to spill the inflammable liquid therein on said wick means, and an igniter means for igniting said wick means.

2,351,636

PRINTING TELEGRAPH APPARATUS

Albert H. Reiber, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application May 4, 1936, Serial No. 77,796. Divided and this application November 1, 1941, Serial No. 417,529
1 Claim. (Cl. 197—133)



In a recorder having a demountable paper supply roll holder, a stationary frame, a platen carriage movably supported by said frame, a cylindrical platen rotatably supported by said carriage, said carriage having end plates for journalling said platen therein, an angle bar comprising a depending flange and a rearwardly directed flange extending between said end plates and secured thereto having its depending flange positioned immediately above said platen and disposed parallel thereto to form a stripper for positively deflecting the record material from the periphery of said platen, and integral supporting means comprising tongues struck from said depending flange and conformed into U-shaped receptacles disposed below and cooperatively related to apertures in the rearwardly directed flange of said angle bar to facilitate the demountability of said roll holder on said carriage.

2,351,637

TETRACYCLIC KETONES

Leopold Ruzicka and Moses Wolf Goldberg, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application February 4, 1941, Serial No. 377,402. In Switzerland March 14, 1940
6 Claims. (Cl. 260—586)

1. A member of the group consisting of nuclear saturated and 4,5-unsaturated 3-ketones derived from the ring D-homo-steroids and containing as further substituent at the 17*a*-position in ring D the grouping



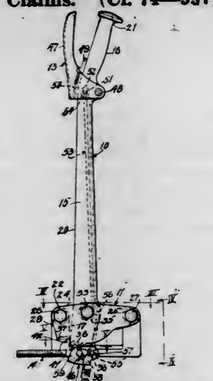
wherein R is a member of the group consisting of alkyl, alkenyl, alkinyl, acyl, and ketol-ester group and *x* stands for a member of the group consisting of hydrogen, hydroxyl and a radical convertible into hydroxyl by the aid of hydrolyzing agents.

2,351,638

BRAKE LEVER

Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application August 14, 1941, Serial No. 406,766
13 Claims. (Cl. 74—537)



1. A lever construction comprising spaced plate members arranged for connection to a support, ratchet teeth on adjacent edges of said plate members, a tubular lever having a U-shaped end portion pivotally connected to and extending between said plate members and terminating in spaced relation from said ratchet teeth, a U-shaped pawl straddling the terminal of the U-shaped portion on said lever and having teeth engageable with said ratchet teeth for holding said lever in an adjusted position, and an actuating rod extending within said tubular lever and being connected to said U-shaped pawl for moving it into and out of toothed engagement with the ratchet teeth on said plate members.

2,351,639

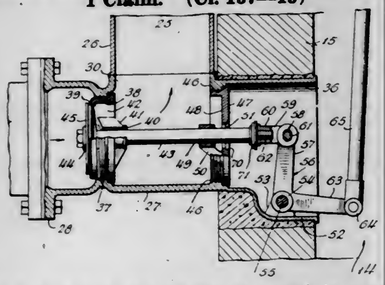
ELECTROPLATING

Ernest W. Schweikher, Shaker Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 19, 1940, Serial No. 346,369
4 Claims. (Cl. 204—56)

1. In a process for the production of an electrodeposit, the step comprising electroplating a cathodic deposit of a molybdenum-oxygen compound at a current density of about from 0.1 to 10 amperes per square foot from an aqueous bath including nickel sulfate and a soluble molybdenum compound selected from the group consisting of sodium molybdate, potassium molybdate, ammonium molybdate, and molybdic oxide, the bath containing from about 0.25 to 1.5 grams per liter of a polyhydric alcohol selected from the group consisting of glycerol and diethylene glycol, and the amount of molybdenum present, calculated as metal, being from 7 to 150 grams per liter and from 1 to 5 times the amount of nickel present, calculated as metal.

2,351,640
FLUSH TYPE FIRE HYDRANT AND HIGHWAY CONSTRUCTION THEREFOR
Carlyle H. Scott, Forest Hills, and Paul H. Scott, Flushing, N. Y., assignors to Flush Hydrant Corp., Corona, N. Y., a corporation of New York
Application March 11, 1941, Serial No. 382,682
1 Claim. (Cl. 137—13)

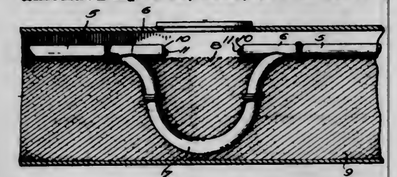


In a hydrant, the barrel of which is arranged to extend through a sump below the frost line, with the controls thereof within the sump and enclosed by a cover flush with the sidewalk level, the combination with the barrel of said hydrant of a coupling, one end whereof interfits with the barrel, a passage for connection with the water main and a passage serving as a by-pass, arranged to discharge water from said barrel to a catch basin, said coupling including a barrel valve assembly and a by-pass valve assembly accessible through the by-pass.

2,351,641
CEMENTITIOUS MATERIAL
William E. Sohl and Henry N. Stephens, White Bear Lake, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application October 2, 1939, Serial No. 297,502
11 Claims. (Cl. 106—106)

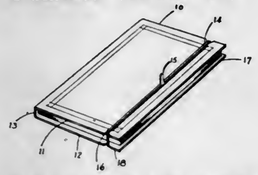
1. A cementitious composition adapted to set at room temperatures comprising a magnesia cement including magnesium oxychloride and, in intimate admixture therewith, an amount by weight substantially less than that of said magnesia cement of at least one of the divalent metal salts from the group consisting of: $Mg_3(PO_4)_2$, $Zn_3(PO_4)_2$, $Ca(PO_3)_2$, $Mg_3(AsO_4)_2$, $MgHAsO_4$ and $MgHPO_4$.

2,351,642
UNDERGROUND PIPING
Howard A. Starret, United States Army
Application October 18, 1941, Serial No. 415,581
1 Claim. (Cl. 138—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



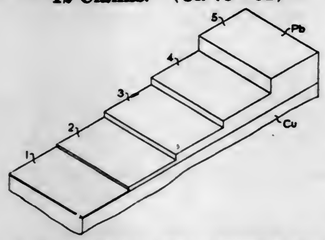
An expansion joint for protecting a fluid conducting pipe from damage by explosions and shocks comprising a U-shaped section adapted to be inserted between the spaced ends of the aligned pipe sections, said U-shaped section have transverse sections at each end adapted to be secured to the aligned pipe sections, the unsecured ends of said transverse sections being spaced from and in alignment with each other and each end being closed by a plug adapted to be ruptured by an explosion or shock and having a flap valve positioned in the free end adjacent the plug and arranged to be closed by the flow of fluid through a ruptured plug.

2,351,643
CIGARETTE PAPER BOOKLET
Harry H. Straus, Asheville, N. C., assignor to Champagne Paper Corporation, a corporation of North Carolina
Application September 30, 1941, Serial No. 412,950
4 Claims. (Cl. 206—57)



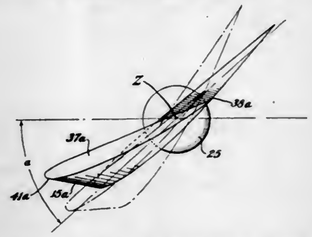
1. A cigarette paper booklet comprising a rectangular, relatively stiff, paper cover folded along a center line to form a flexible backbone portion and juxtaposed obverse and reverse cover portions to enclose a stack of cigarette papers one edge of which is attached to the inner surface of said backbone and the other three edges exposed as in a regular printed book, an endless flexible band permanently attached to one cover portion near the edge remote from said backbone and adapted to encircle the booklet cover adjacent said last mentioned edge, and oppositely positioned V-shaped notches of similar size and angularity formed in the side edges of said cover near the open corners of the booklet remote from said backbone, said notches being of sufficient depth and having sharply defined, converging, angular faces that permit easy, manual insertion of said band therein but require positive, manual removal thereof to open the booklet and give access to said cigarette papers and also prohibit inadvertent slipping of the band out of said notches and opening of the booklet when the booklet is being carried in the cigarette smoker's pocket.

2,351,644
CORROSION TESTING ELEMENT
Samuel K. Talley, Berkeley, and Leo D. Grenot, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 22, 1942, Serial No. 455,976
12 Claims. (Cl. 73—51)



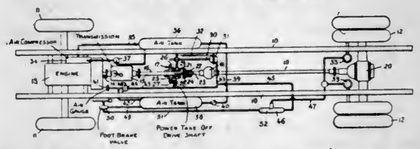
1. In a corrosion testing element of the class described, the combination comprising a carrier and a test metal wedge deposited thereon.

2,351,645
ADJUSTABLE FAN BLADE CONSTRUCTION
Theodor H. Troller, Akron, Ohio, assignor to La-Del Conveyor & Manufacturing Company, New Philadelphia, Ohio, a corporation of Ohio
Application October 17, 1942, Serial No. 462,318
5 Claims. (Cl. 230—114)



1. Propeller fan construction including an outer substantially cylindrical duct, a fan axially rotatable within said duct and including a hub, blades journaled in the hub, means for turning the blades on their axes for adjusting the blade pitch within predetermined limits, each of said blades having a trailing edge portion and a leading edge portion, said leading edge portion being of substantial thickness, each of said blades having close clearance between the tips thereof and the outer duct during adjustment of the blade pitch between said predetermined limits, the tip clearance in the region of the leading edge portion during adjustment of the blade pitch varying more than the tip clearance in the region of the trailing edge portion whereby the maximum tip clearance occurs substantially where the blade is the thickest.

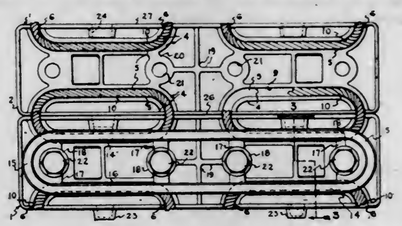
2,351,646
POWER TAKE-OFF MECHANISM
Horace Russ Van Vleck, Upper Montclair, N. J.
Application July 9, 1942, Serial No. 450,247
16 Claims. (Cl. 303—6)



1. In a vehicle having an engine, driving wheels, a power take-off, means for selectively coupling the engine with either the power take-off or the driving wheels, brakes for the wheels, and means for setting the brakes, the improvement which comprises interconnecting means associated with said selective coupling means and said brake-setting means, and actuating means associated with the interconnecting means adapted to actuate the brake-setting means to set the brakes whenever the selective coupling means are in position to couple the engine to the power take-off.

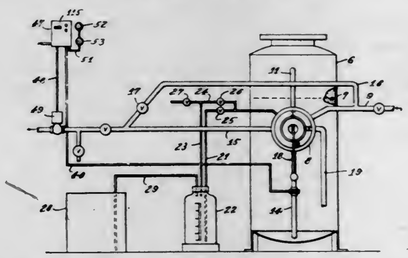
2,351,647
TRACK FOR TRACK-LAYING VEHICLES
Nathaniel B. Wales, Southampton, Long Island, N. Y.
Application April 21, 1943, Serial No. 483,839
12 Claims. (Cl. 305—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a track for a track-laying vehicle, a pair of substantially abutting blocks, each block having in one of its outer surfaces a groove with its ends disposed in the abutting edge of the block, the ends of the grooves in said blocks being in



register, a loop member received in the registering grooves of said blocks, and a surface member secured to each block to cover the grooves and retain the loop members therein.

2,351,648
HYDROGEN ION EXCHANGE APPARATUS
Fred W. Whitlock, Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois
Application August 1, 1940, Serial No. 349,351
15 Claims. (Cl. 210—24)

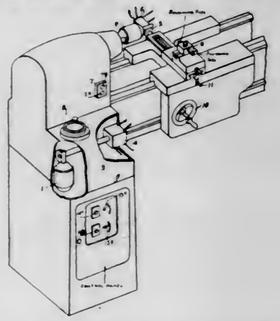


1. The combination of a zeolite water treatment apparatus for producing a service effluent, conduits for raw water, service water, reagent and waste, a source of reagent, valve means for controlling the flow through said conduits to effect the steps of regeneration of said apparatus including the flow through said service conduit, and a safety control including an electrical cell comprising a pair of electrodes of dissimilar metal disposed in the service effluent from said apparatus ahead of said valve means, a motorized valve in said service conduit behind said valve means including a motor, means for supplying electrical energy to said motor for operating the same, and circuit means for controlling the supply of electrical energy to said motor in response to the change in electrical output of said cell with change in said effluent for closing and opening said motorized valve.

2,351,649
METHOD AND APPARATUS FOR CONTROLLING THE OPERATION OF LATHES
George J. Wintermute and David E. Bench, Dayton, Ohio, assignors to The Monarch Machine and Tool Company, Sidney, Ohio, a corporation of Ohio
Application August 12, 1940, Serial No. 352,214
14 Claims. (Cl. 82—2)

1. In a method of operating a lathe, rotating the work piece, presetting a series of sequential electrical control means to determine the sequen-

tial direction of movement of a cutting tool with respect to the work piece longitudinally and transversely, driving the work tool at a constant speed longitudinally and transversely with respect to the work piece, electrically timing the period



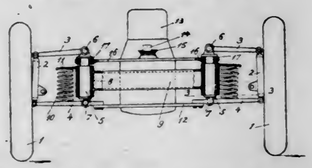
during which the cutting tool moves during each preselected movement to control the length of cut thereof and thereafter successively closing each one of said preselected and pretimed circuits whereby a work piece is cut to the desired configurations.

2,351,650

WHEEL SUSPENSION FOR VEHICLES

Siegfried Wulff, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian

Application March 1, 1941, Serial No. 381,313
In Germany February 12, 1940
15 Claims. (Cl. 180—64)



1. In a vehicle having a frame, a pair of supporting members connected to said frame on opposite sides of said vehicle, a pair of wheel supports, two pairs of guiding links, one pair being pivotally connected at one end to one wheel support and at their other ends to one of said supporting members, and the other pair being pivotally connected at one end to the other wheel support and at their other ends to the other supporting member, means for resiliently springing one link of each pair relatively to the frame, a driving unit for said vehicle supported between said two supporting members, a yieldable transverse member interconnecting said two supporting members, for supporting said driving unit, and resilient means intermediate said driving unit and said yieldable member.

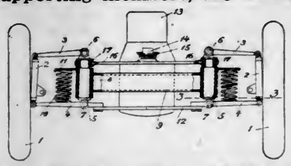
2,351,651

INDEPENDENT WHEEL SUSPENSION

Siegfried Wulff, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian

Application March 1, 1941, Serial No. 381,314
In Germany February 12, 1940
18 Claims. (Cl. 267—20)

1. An independent wheel suspension of at least two wheels for vehicles comprising for each wheel a wheel support, two guiding links, at least one of these being rotatably connected to a supporting member, this latter being elastically mounted on the vehicle, the supporting members being connected to each other by resilient members, at least one resilient member being used for each pair of supporting members, the connection be-



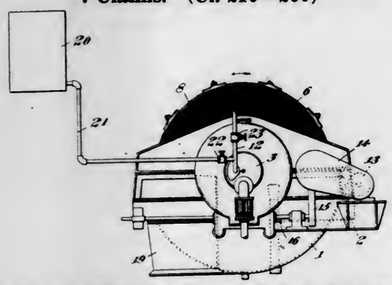
tween the resilient member and the supporting members being rigid against torsion, at least one of said resilient members comprising a spring leaf horizontally arranged and stressed along its edges, connecting the supporting members.

2,351,652

WASHING OF FILTER BAGS

Arvid E. Anderson, Cornwall, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application September 13, 1941, Serial No. 410,655
7 Claims. (Cl. 210—200)



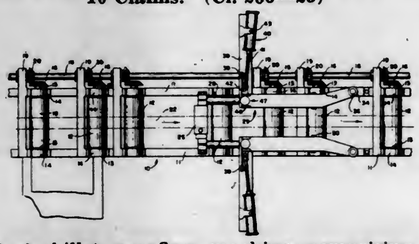
1. In the concentration of fine iron ores, the method of cleaning a filter fabric which consists in subjecting the same to a cold solution of tri-sodium phosphate and water in the proportion by weight of approximately one part of tri-sodium phosphate to twenty-two to twenty-eight parts of water.

2,351,653

BILLET SCARFING APPARATUS

James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application October 30, 1941, Serial No. 417,086
10 Claims. (Cl. 266—23)



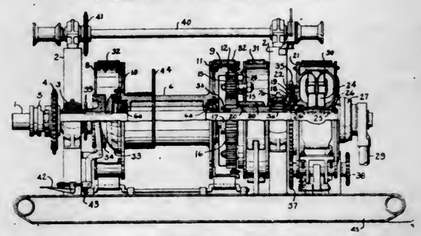
1. A billet scarfing machine comprising a torch-positioning device with portions for holding torch elements in position to operate over two contiguous longitudinal surfaces of a billet, supporting means for said device, a bearing about which the supporting means is movable to shift the torch-positioning device toward and from the plane of one of said surfaces, and a separate bearing about which the supporting means is movable to shift the torch positioning device toward and from the plane of the other of said surfaces, so that the torch elements can follow said surfaces on both straight and crooked billets.

2,351,654

DRAW WORKS

Rexford O. Anderson, Tulsa, Okla.

Application April 7, 1941, Serial No. 387,166
6 Claims. (Cl. 254—187)



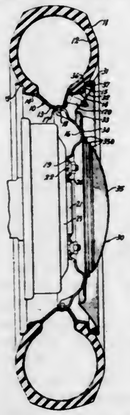
3. Equipment of the character described comprising a drive shaft, an impeller fixed thereon, a shell enclosing the impeller and rotatably mounted on the shaft and forming a chamber for containing a fluid energy transmitting medium, a cable-spooling member on, but rotatable independently of, the shaft, said cable-spooling member having a braking surface, braking means for contact with said surface to control the rotation of the cable-spooling member, braking means arranged to control the rotation of the shell and planetary gearing about and substantially concentric with the shaft for operatively connecting the shell with the cable-spooling member.

2,351,655

WHEEL TRIM AND SECURING MEANS THEREFOR

Charles B. Aske, Jr., Detroit, Mich.

Application June 24, 1942, Serial No. 448,264
6 Claims. (Cl. 301—37)



1. Means for removably securing resilient ornamental wheel trim discs of the class described to vehicle wheels comprising a plurality of resilient anchor elements fixed to the said vehicle wheel in spaced relationship around the periphery of the laterally extending lip of the rim of said wheel, a plurality of complementary peripherally spaced resilient clips fixed to said ornamental wheel trim disc in like spaced relationship around the periphery thereof, the said resilient anchor elements and resilient clips being formed into similarly facing axially disposed cooperating pairs of resilient open loops one received within the other and of sufficient resiliency to permit the wheel trim to flex radially and axially to admit of application of said discs to untrue wheels and to admit of the radial and axial flexing of wheels and wheel trim with respect to each other during use.

2,351,656

FOLDING DOOR AND SUPPORT THEREFOR

Claude I. Auten, Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company, a corporation of Tennessee

Application January 28, 1944, Serial No. 520,117
6 Claims. (Cl. 160—199)



3. A folding door comprising a plurality of leaves serially and pivotally connected with one another along their adjacent edges, means preventing the pivotal connections from assuming dead center alignment, and means supporting said leaves with freedom for collapsing, closing, and expanding opening movement.

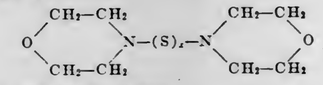
2,351,657

LUBRICANT

Alfred L. Bayes, Kenmore, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application December 26, 1942, Serial No. 470,213
21 Claims. (Cl. 252—47)

1. A lubricant comprising a mineral oil containing corrosion and oxidation inhibiting amounts of an oil-soluble dimorpholine polysulfide of the structure:



wherein x is at least two.

2,351,658

STABILIZATION OF VINYL ESTERS

Allan Berne-Allen, Jr., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 18, 1941, Serial No. 423,556
11 Claims. (Cl. 260—488)

1. The process which comprises adding a quaternary ammonium compound to a vinyl ester-containing composition whereby to inhibit polymerization of the vinyl ester.

2,351,659

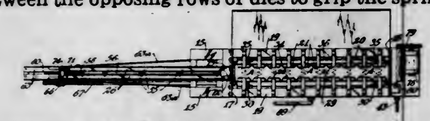
MACHINE FOR FABRICATING UPHOLSTERY SPRINGS

Edward L. Bronstien and Joel G. Strandberg, St. Paul, Minn., assignors, by direct and mesne assignments, to The United States Bedding Company, St. Paul, Minn., a corporation of Minnesota

Application August 4, 1941, Serial No. 405,380
48 Claims. (Cl. 140—3)

1. A machine for fabricating upholstery springs comprising, two series of parallel rows of spring

holding dies, the dies of one series being disposed opposite those of the other series to engage opposite end coils respectively, of the springs, means for moving both rows of dies to and from a spring receiving position, clamping means movable between the opposing rows of dies to grip the springs



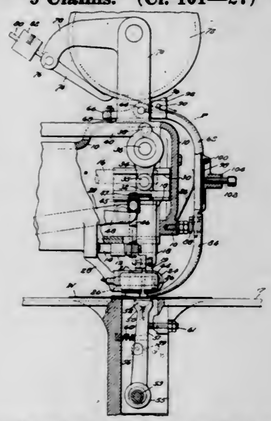
therein, guides for spring connecting members in alignment with portions of the end coils of the springs engaged in said dies and means for feeding spring coupling members through said guides to couple said portions of the springs engaged by said dies and clamping means.

2,351,660

MACHINE FOR ORNAMENTING SHOE UPPERS

Rouel R. Campbell, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application March 20, 1941, Serial No. 384,361
9 Claims. (Cl. 101—27)



2. An embossing machine having a combined work-embossing and punching tool, means for heating the tool, means for moving the tool in a substantially vertical path relatively to the work, means for moving the tool in a substantially horizontal path to feed the work, a pivotally mounted work support constructed and arranged to participate in the work-feeding movement of the tool, spring means for returning the work support into initial position, and a guide member for delivering a coloring medium between the work and the tool, the guide member being movably mounted to participate in the work-feeding movement of the tool.

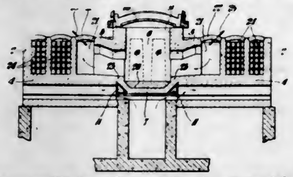
2,351,661

REGENERATIVE SOAKING PIT FURNACE

John W. Carter and Andrew Reed Rowe, McKeesport, Pa., assignors to National Tube Company, a corporation of New Jersey

Application August 27, 1941, Serial No. 408,524
4 Claims. (Cl. 263—15)

1. A regenerative furnace of the character described including a soaking pit, a hearth therein for receiving ingots thereon, combustion chambers on opposite sides of and communicating with said pit, means for firing the furnace located adjacent said chambers, means for reversing the flow of gases through the pit and combustion chambers, flues connecting said means and the combustion chambers and having checker cham-



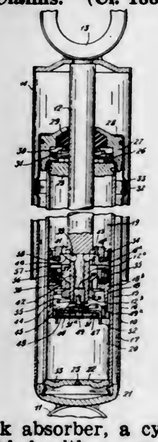
bers intermediate the extent of said flues, the flues and checker chambers being disposed at a sufficient elevation above the hearth to prevent a flow of fugitive slag from the latter into said flues and checker chambers.

2,351,662

SHOCK ABSORBER

Donald L. Christofel, East Cleveland, Ohio, assignor to The Gabriel Company, Cleveland, Ohio, a corporation of Ohio

Application January 22, 1942, Serial No. 427,783
5 Claims. (Cl. 188—88)



1. In a shock absorber, a cylinder having an end wall provided with a recess radially offset from the cylinder axis, a piston operable in the cylinder and having a fluid passage and a chamber with which said passage connects, a member forming an end wall for said chamber and having screw connection with the piston, said member having an opening radially offset to correspond with said offset recess, a valve controlling said passage, a valve spring between said valve and said member, means projecting from said chamber through the opening of said member and engageable in said recess for adjusting said screw connection, and a spring in said chamber acting to project the last-mentioned means but permitting retraction into the chamber when the piston bottoms against the end wall of the cylinder, said last named spring engaging said means and exerting thrust thereon and on said member to prevent an undesired rotation of said member.

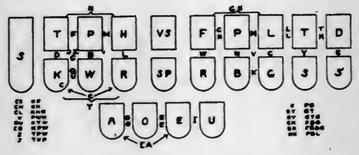
2,351,663

TRANSLATING AND RECORDING DEVICE

Edgar H. Clark, Kew Gardens, N. Y.

Application February 27, 1941, Serial No. 380,819
20 Claims. (Cl. 197—20)

1. A translating system comprising a plurality of code receiving units each including a two-position code bar and operating means therefor responsive to an impressed symbol element of a code, a plurality of character setting means each including a two-position character bar arranged transversely of said code bars for operative selection by the positioning of a plurality of said code bars, mechanical symbol identifying means arranged at the points of intersection between said code bars and character bars in accordance with said code for selection of a plurality of said character bars in response to a corresponding positioning of said code bars, a printing device having



a single set of character recording elements responsive to the selection at any instant of one or more of said character bars for single or successive printing operation, and sequence control means including a plurality of sequence control elements interposed between said character bars and said recording elements for controlling the printing by said recording elements and including means for advancing the printing control sequentially to all of said selected plurality of character bars in the order of a predetermined order of printing.

2,351,664

MANUFACTURE OF ESTERS

Frank O. Cockerille, Albemarle County, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 18, 1941, Serial No. 423,557
7 Claims. (Cl. 260—498)

1. In the manufacture of vinyl and ethylidene esters wherein acetylene is reacted with a carboxylic acid whereby to form said esters, the improvement which comprises reacting the acetylene and carboxylic acid in the presence of a compound of a pentavalent atom of the group consisting of nitrogen, phosphorus, arsenic and antimony wherein four valences are satisfied by a linkage to carbon and the fifth valence is satisfied by an anion.

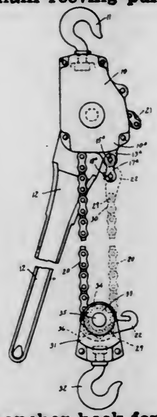
2,351,665

CONVERTIBLE, MULTIPLE CAPACITY, HOIST CHAIN STRUCTURE

Fredrick W. Coffing, Danville, Ill.

Application November 21, 1941, Serial No. 419,870
4 Claims. (Cl. 254—188)

1. In a chain hoist having a housing with a chain channel therethrough, a link, load supporting, chain passable through the channel, chain engaging and moving means in the housing, a load engaging hook responsive to chain movement, a channelled body means pivotally supporting the load engaging hook, and a chain engaging pulley in the channel, the chain bearing on the pulley for supporting and moving the body means, the combination of an anchor hook carried by one end of the chain and normally non-passable through the body means channel, a loop structure permanently and pivotally mounted on the housing between the entrance and outlet of the channel, the anchor hook having selective engagement with said loop structure for chain reeving purpose, and means



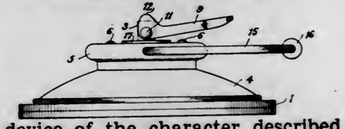
carried by the anchor hook for detachably locking the loop structure and anchor hook together when in selected engagement.

2,351,666

GLASS-LIFTING DEVICE

Abraham L. Cohen, Brooklyn, N. Y.

Application February 12, 1944, Serial No. 522,055
3 Claims. (Cl. 294—64)



1. A device of the character described comprising, a soft and flexible rubber disk of substantial thickness and normally flat, a stiff circular plate of less diameter than the disk interposed in the body of the disk and covered and concealed by the material of the body of the disk, said plate having a central projecting stem, a stiff cup of less diameter than the rubber disk and of greater diameter than the plate, extending over the disk, said cup having a central attached raised portion provided with an aperture through which the stem projects, a cap fitted over the raised portion and having an end wall spaced from the top of the raised portion, a cam lever pivoted on the stem on the outside of said cap and operative against the end wall of the cap to force the cup toward the disk and form the disk into cupped shape, and a handle attached to the cap between the end wall thereof and the top of the raised portion of the cup.

2,351,667

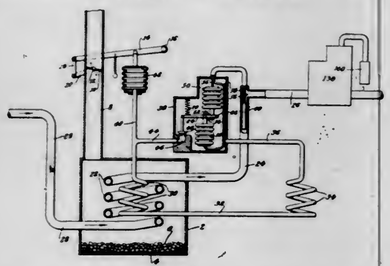
PRODUCTION OF SUCCINIC ACIDS

Russell T. Dean, Stamford, and Edwin O. Hook, Darien, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 29, 1942, Serial No. 456,713
5 Claims. (Cl. 260—537)

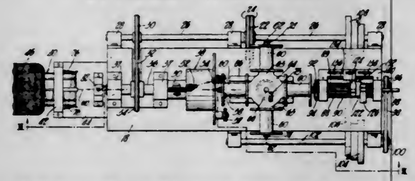
1. In a process of preparing succinic acid, the step which comprises reacting in aqueous solution in the presence of a substantial amount of an alkali, a water-soluble cyanide selected from the group consisting of alkali and alkaline earth metal cyanides with a water-soluble acrylate selected from the group consisting of alkali and alkaline earth metal acrylates.

2,351,668
HEATER CONTROL
Clarence A. de Giers, Forest Hills, and Arthur Wickesser, St. Albans, N. Y., assignors to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware
Application March 31, 1942, Serial No. 437,000
7 Claims. (Cl. 236—9)



6. The combination with a closed liquid-circulating system having a heater for heating the liquid therein and having its flow of liquid thermometrically controlled in accordance with the temperature of a space to be heated, of a thermally-responsive device exposed to the liquid in the input side of said system, a control device for the heater, and pressure-responsive means energized by the heater and controlled by said last mentioned thermally-responsive device for actuating said control device.
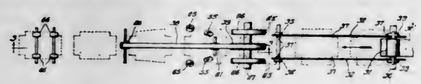
2,351,669
SPOOLING APPARATUS
Carl J. Dentzer, Parma, Guy W. Shurmer, Warrensville, and Otto J. Vanek, Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application October 1, 1942, Serial No. 460,434
13 Claims. (Cl. 242—25)



1. Apparatus for winding wire on a spool comprising, a normally stationary means supporting an elongated loosely coiled bundle of wire, a rotary member for withdrawing convolutions of said wire endwise from said bundle and winding it around a spool, a spool support carrying means for fixedly positioning a spool thereon, and means for traversing said spool support in opposite directions periodically so as to distribute the winding of wire withdrawn from the bundle uniformly lengthwise of a spool carried by said support.

2,351,670
FOLDING AND GLUING APPARATUS
Charles Desch, Chicago, and Walter Yomantas, Evergreen Park, Ill., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 12, 1942, Serial No. 454,540
5 Claims. (Cl. 93—49)

1. In a machine of the class described including means for continuously moving a series of paper board blanks in a linear path, means for applying adhesive to selected lateral edge portions of each blank, and means for folding said lateral edge portions along fold lines parallel to said linear path over upon said blank, the improvement which comprises means for partially folding flaps defined by cuts in said blanks spaced from said lateral edge and additional fold



lines parallel to said linear path prior to the folding of said edge portions, and means for retaining said flaps in partially folded condition until said edge portions have been folded sufficiently to overlie said flaps, whereby both of said folding operations are completed simultaneously and said flaps and edge portions are caused to adhere in position overlying said blank and each other.

2,351,671
SCOURING CHAMBER FOR METAL-SCOURING MACHINES
Charles A. Dreisbach, Yonkers, N. Y., assignor to Standard Radial Blast Corporation, Yonkers, N. Y., a corporation of New York
Application January 22, 1943, Serial No. 473,150
2 Claims. (Cl. 51—8)

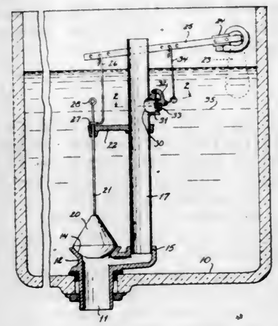


1. A scouring-device for metal-scouring machines, having an elongated undulated scouring-passage constructed and arranged to have granular abrasive introduced into one end of said passage; said device having openings at a plurality of spaced-apart locations along said passage constructed and arranged to direct gaseous fluid into said passage in a direction generally longitudinal of said passage to repeatedly accelerate the abrasive longitudinally along said passage to cause the abrasive to be repeatedly deflected against work in said passage; and separate fluid-control means for independently controlling the entry of gaseous fluid at each of said spaced-apart locations, through said openings.

2,351,672
VALVE MECHANISM
William F. Engel, Berea, Ohio
Application March 10, 1943, Serial No. 478,633
3 Claims. (Cl. 4—34)

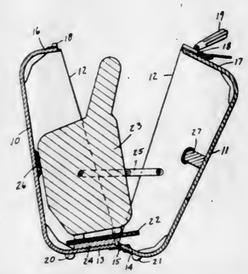
1. In a flush tank having an outlet fitting in its lower wall, said fitting being provided with a valve port, a valve member to close said port, a vertically extending overflow tube in said tank and connected at its lower end with said fitting, said tube having an opening in its vertical side wall, a valve seat member on said tube having a valve port in communication with the opening and spaced vertically from the main valve port a supplemental valve member carried by said member and adapted and arranged to close said second named valve port, an operating arm, a connection between said operating arm and said supplemental valve seat, and a second connection including a lost motion device disposed between said operating arm and the main valve, whereby

the initial movement of the operating member will open the supplemental valve without disturb-



ing the main valve and whereby a complete movement of said operating member also will open the main valve.

2,351,673
ACCORDION CASE
John Erikson, De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application May 29, 1941, Serial No. 395,747
2 Claims. (Cl. 206—13)

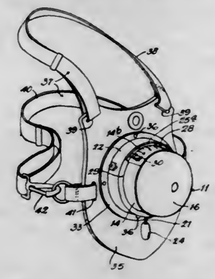


1. An accordion case comprising two side sections adapted to embrace an accordion when in closed position, one of said sections being provided with a bottom supporting panel for said accordion, the other of said sections being provided with a corresponding bottom panel of less width than said supporting panel and free from supporting relation with respect to said accordion, a hinge connection joining said bottom panels along their adjacent longitudinal edges throughout the length of the case, said bottom panels forming a support for said case in both open and closed position, a collapsible brace connecting said sections above the said bottom panels hinged to permit said sections to be moved toward each other into closed position and provided with a lock to positively maintain them in an open position at an acute angle, with said case supported by the respective bottom panels extending at an angle with each panel sloping downwardly from the other, and a false bottom member upon which the accordion is mounted secured to said supporting bottom panel to slope substantially parallel therewith when said case is in open position and extend forwardly over said second-mentioned bottom panel into its side section in free and spaced relation thereto for supporting an overhanging portion of the accordion.

2,351,674
PROCESS OF PRODUCING SULPHONYL CHLORIDES
Arthur Lawrence Fox, Easton, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 11, 1943, Serial No. 478,834
5 Claims. (Cl. 204—162)

1. A process of making an alkyl substituted aromatic compound which contains an exo-sulphonyl chloride group which comprises reacting an alkyl substituted aromatic compound wherein an alkyl group contains at least 5 carbon atoms with sulphuryl chloride in the presence of actinic light and a heterocyclic compound containing nitrogen in the ring.

2,351,675
MILKING TIMER
Edwin J. Gengler, Milwaukee, Wis., assignor to Paul J. Coleman, Highland Park, Ill.
Application October 5, 1942, Serial No. 460,890
5 Claims. (Cl. 161—23)

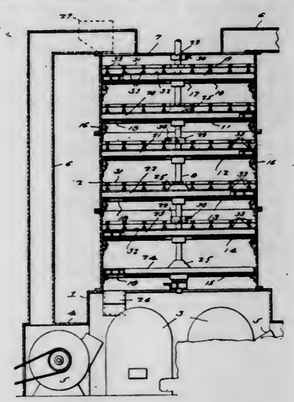


1. As a milking timer, the combination with a timing-and-alarm unit comprising a cylindrical housing and a bell forming a rounded nose for one end thereof, and containing a clock mechanism, having a winding and timed shaft protruding from the other end of the housing, and a striking mechanism for the bell controlled by the timing mechanism—of means for mounting the unit to be worn on the person of a dairyman, for setting the unit and for dial indication of its timing movement, said means comprising a vertical mounting plate of considerably greater dimension than the diameter of the housing, a harness including neck and body straps for holding the mounting plate against the chest, a mounting shell fixed on the front face of the plate and in turn mounting the housing in horizontal outstanding position spaced from the plate with the bell foremost, a pulley fixed on the protruding end of the shaft between the housing and plate and within the shell, a pull cord trained about the pulley and passing out beneath the shell and terminating in a hand knob which upon being pulled will rotate the shaft to set the clock mechanism, a dial on the upper crown of the housing, and a shaft-carried hand passing out between the shell and housing in index relation to the dial.

2,351,676
VERTICAL DEHYDRATOR
Leon H. Grandjean, Edward P. Le Vasseur, and Sidney N. Prats, New Orleans, La.
Application May 17, 1943, Serial No. 487,322
1 Claim. (Cl. 34—173)

A dehydrator comprising a housing, a cylindrical shell rising from the housing and com-

municating therewith, heating plants mounted in the housing, a series of vertically spaced foraminous disks rotatably mounted in the shell, said disks alternately having central and marginal discharge openings therein, means for rotating the disks, stationary spiral guides suspended directly above the disks for directing the material thereon toward the discharge openings, suspending means for the spiral guides adjustable to vary the clearance between said guides and

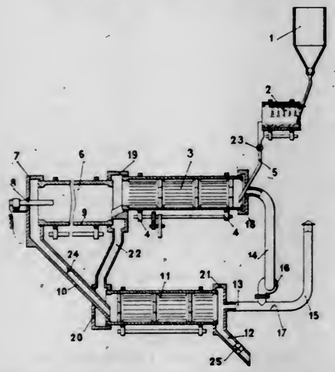


the disks, blowers for impelling air around the heating plants and upwardly through the disks in the shell, said housing having lateral extensions in which said blowers are arranged, and return conduits for the air connecting the upper portions of the shell and the lateral extensions of the housing, and cones centrally mounted below the disks with central discharge openings for spreading the material passing to the disks with marginal discharge openings.

2,351,677

PLANT FOR TREATING RAW MATERIALS IN THE MANUFACTURE OF CEMENT AND THE LIKE

Hans Gygi, Wildegg, Switzerland
Application July 28, 1942, Serial No. 452,630
In Switzerland August 9, 1941
11 Claims. (Cl. 13—10)



9. Plant for the heat treatment of raw materials of different kinds, particularly for the burning of cement, alkaline earth carbonate, magnesite, dolomite and the like, comprising a rotary kiln, and means for producing an electric arc in said kiln, the inside kiln surface acting as an indirect heating means being of such a size that the maximum temperature on said surface does not exceed 1550° C. in the course of a rotation of the kiln which serves primarily as a sintering furnace.

2,351,678

PROCESS FOR THE RECOVERY OF TUNGSTEN FROM ITS ORES

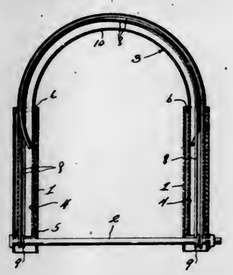
Robert G. Hall, San Francisco, Calif.
No Drawing. Application November 3, 1943, Serial No. 509,019
6 Claims. (Cl. 23—18)

1. A process for the recovery of tungsten from its ores which consists in dissolution of a tungsten containing ore in a hot solution of sodium carbonate and conversion of the tungsten to sodium tungstate, converting excess sodium carbonate in the solution to sodium sulphate by the addition of sulphuric acid, and converting the sodium tungstate to iron tungstate by the addition of ferrous sulphate.

2,351,679

SUPPORTING STAND

Waldo Harris, Lima, Peru
Application August 30, 1943, Serial No. 500,592
3 Claims. (Cl. 135—7.1)



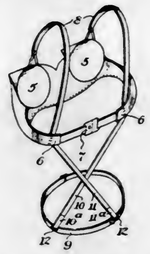
1. A supporting element comprising a pair of tubular members, a tubular bow section having arms telescoping within the tubular members, and elongated flexible members secured within the tubular members and extending along within the bow section, said flexible members possessing inherent resiliency and having a natural curvature different than that of the bow section thereby creating enough friction from within on the bow section to hold the bow section in desired adjusted position with respect to the tubular members.

2,351,680

BRASSIÈRE GARMENT

Mabel H. Hatton, Beverly Hills, Calif.
Application July 31, 1943, Serial No. 496,887
1 Claim. (Cl. 2—42)

A brassière garment comprising, in combination with a waist-encircling member embodying means for securing the latter in position about the waist of a wearer, a chest-encircling strip having in its front portion breast-supporting cups, fastening means for said strip for retaining the strip in place on a wearer, shoulder straps, one secured at its front end to the strip above one of the cups and secured at its other end to the back portion of the strip at a point substantially opposite said cup. and the other being secured at its front end to the strip above the other cup and secured at its other end to the back portion of the strip at a point substantially opposite said other cup, a pair of anchor straps, one being secured at its upper end to the strip adja-

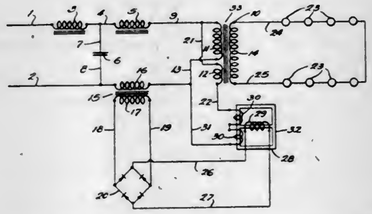


cent the point of attachment thereto of one of the shoulder straps and the other being secured at its upper end to the strip adjacent the point of attachment thereto of the other shoulder strap, said anchor straps being disposed diagonally crosswise and adapted to be attached at their lower ends to the waist-encircling member.

2,351,681

CONSTANT CURRENT CONTROL

Eugene H. Haug, Chicago, Ill., assignor, by direct and mesne assignments, to La Salle National Bank, Chicago, Ill., as trustee
Application December 24, 1942, Serial No. 470,102
6 Claims. (Cl. 171—119)



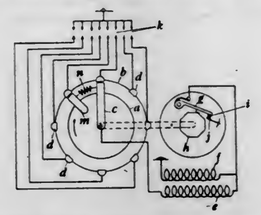
1. In combination with an alternating current supply, a resonant type of constant potential to constant current transformer, an automatic ratio changing transformer having two primary windings and one secondary winding, and a load, a saturating reactor connected in series circuit relation to one of the primary windings of said ratio changing transformer, and means to control the saturation of the reactor to maintain the current flow to the load substantially constant.

2,351,682

DISTRIBUTOR FOR HIGH-TENSION IGNITION APPARATUS

Norman Hendry, London, and John Andrew Laird, Coventry, England, assignors to Joseph Lucas Limited, Birmingham, England
Application October 6, 1942, Serial No. 461,014
In Great Britain October 6, 1941
3 Claims. (Cl. 123—148)

1. A distributor for high tension ignition apparatus, comprising in combination a stator provided with electrodes adapted to be connected to the sparking plugs of an internal combustion engine, a rotor provided with at least one electrode for communicating electrical impulses from the high tension winding of the apparatus to the stator electrodes in succession, and electrode-in-

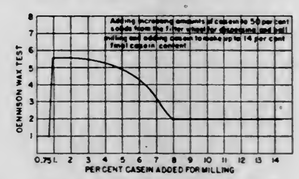


terconnecting impedance means for minimising the potential difference that would otherwise exist between adjacent stator electrodes.

2,351,683

MANUFACTURE OF CALCIUM CARBONATE-ADHESIVE COATINGS

Ausker E. Hughes, Wyandotte, Harold B. Browne, Trenton, and Howard F. Roderick, Grosse Ile, Mich., assignors, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
Application October 12, 1940, Serial No. 361,010
9 Claims. (Cl. 106—148)



1. In the manufacture of calcium carbonate-adhesive fluid coating capable of producing a Dennison wax test of at least 5, the steps of mixing precipitated calcium carbonate having a particle size of from 1 to 5 microns with a solution of adhesive selected from the group consisting of casein and "Alpha Protein," wherein the amount of calcium carbonate is from 20–70% of the weight of the slurry and the amount of said adhesive is between 1% and 5% on the basis of calcium carbonate and wherein the minimum amount of adhesive corresponds closely to the equation $y=1.11+1.29\ (10^{-7})x^{3.844}$ where y designates per cent adhesive and x designates per cent solids in the slurry, then subjecting such mixture to a mechanical attrition treatment securing thereby an intimate mixture of reduced viscosity and thereafter stirring in the balance of the previously selected adhesive, the total amount of said adhesive being not over 12% on the basis of dry calcium carbonate.

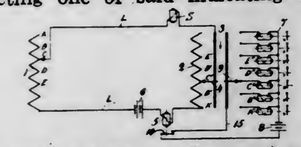
2,351,684

ELECTRIC REMOTE-CONTROL SYSTEM

Sven Anders Jansson, Stockholm, Sweden
Original application November 16, 1938, Serial No. 240,842, now Patent No. 2,262,766, dated November 18, 1941. Divided and this application September 8, 1941, Serial No. 410,089. In Sweden November 18, 1937
5 Claims. (Cl. 179—16)

1. An electric remote control system comprising, a sender, a receiver, adjustable selective means at the sender, selector means at the receiver, means for adjusting the selector means at the receiver successively to different selected positions corresponding to one of the selected

positions at the sender, a plurality of indicating means, means movable in synchronism with the adjustment of the selector means at the receiver for selecting one of said indicating means, a



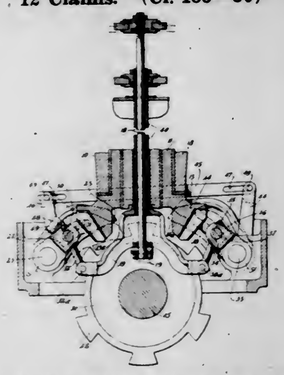
circuit including a source of current connecting the sender with the receiver, and means responsive to the flow of a predetermined current in said circuit for rendering the selected indicating means operative.

2,351,685

CONTROLLABLE TRUCK LOCK FOR CRAWLER TRACTORS

Cecil E. Jones, Lima, Ohio

Application October 20, 1941, Serial No. 415,696
12 Claims. (Cl. 188—30)



1. In a double-acting ratchet, in combination with a ratchet wheel and with an upright vertically movable control member, a pair of operatively opposed ratchets associated with said wheel and each pivotally mounted for downward and upward swinging movement into and out of engagement with the ratchet wheel, respectively, for each ratchet a pivoted lifter having an abutment surface adapted to cooperate with a complementary surface on the ratchet for disengaging the ratchet upon upward pivotal movement of said lifter, and, for each lifter, a link coupled therewith and with the control member, the operating parts for each ratchet being arranged to provide for lifting of one ratchet prior to lifting of the other ratchet, upon movement of the control member in one direction.

2,351,686

MEANS AND METHOD OF PREVENTING THE SPREAD OF DISEASE

Otto A. Kohl, Cedar Rapids, Iowa

No Drawing. Application October 8, 1941, Serial No. 414,093
2 Claims. (Cl. 21—60.5)

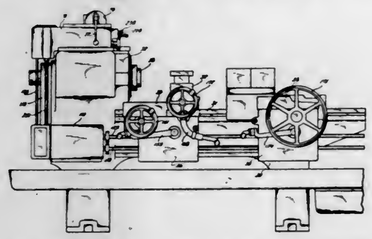
1. The method of protecting poultry from diseases that are spread through poultry droppings, which comprises covering ground or floor surfaces in poultry yards or houses with a layer of lumps of diatomaceous earth to collect such droppings thereon and absorb moisture therefrom, whereby said surfaces may be kept clean and dry.

2,351,687

MACHINE TOOL

Max E. Lange, Cleveland Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application April 15, 1941, Serial No. 388,650
22 Claims. (Cl. 29—64)



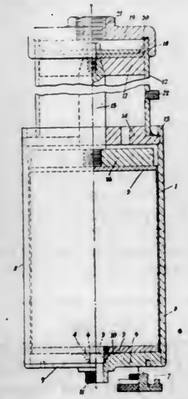
1. A machine tool having a plurality of movable members, an individual change speed transmission for each member with each transmission mounted in a stationary part of the machine, a separate means operatively associated with each transmission and each mounted in the respective stationary part of the machine and each indexible to select or preselect the rates of movement for its respective member and actuatable to obtain the selected or preselected rates, a single control member, and operative connections between said control and each of said separate means for actuating the latter to obtain the selected or preselected rates of movement for all of said members.

2,351,688

EXTRUSION APPARATUS

Edwin Charles Lee, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application January 7, 1942, Serial No. 425,873
In Great Britain June 18, 1940
1 Claim. (Cl. 222—327)



An extruding device comprising an extruding cylinder having a discharge opening surrounded by a depression immediately adjacent thereto at its forward end and adapted to receive a cartridge of plastic material, said cartridge having a discharge orifice at its front end filled with a nipple registering with said opening and a movable closure at its rear end making a leak-proof contact with the inner wall of the cartridge, the portion of the front end surrounding said nipple,

when under pressure upon the movement of the closure, being free to flex into the depression to tighten the seating of the nipple, a hydraulic cylinder, and a piston in each cylinder rigidly connected together by a piston rod, the piston in the hydraulic cylinder having a seal to the cylinder wall and the piston in the extruding cylinder being unsealed to the cylinder wall and adapted to abut against the closure.

2,351,689

METHOD OF MAKING RING SETTINGS

Milton A. Letendre, Minneapolis, Minn.

Application April 30, 1942, Serial No. 441,123
1 Claim. (Cl. 29—160.6)



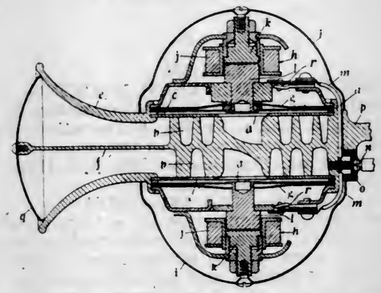
The method of making a plated impression in the main body of a jewelry article which comprises, first forcing an embossed design of a forming die into the surface of such jewelry body to thereby form a corresponding design impression in said jewelry body, next forming anchoring pockets in the jewelry body through the surface of the design impression formed by the embossed design of the die and which pockets are oblique one to the other and undercut the surface of the impressed design of the jewelry body, next placing between the die and the jewelry body a thin sheet of plating metal of greater ductility than the impressed jewelry body and of sufficient area to cover the impressed design, and next forcing the embossed design of the same die into the previously formed design impression of the jewelry body and against the interposed plating sheet under sufficient pressure to cause the thin sheet of ductile plating metal to come into complete surface contact with the design impression and to displace some of the plating sheet into the surface undercutting portions of the oblique anchoring pockets.

2,351,690

ELECTRIC HORN

Oliver Lucas, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England

Application May 25, 1942, Serial No. 444,446
In Great Britain June 5, 1941
3 Claims. (Cl. 177—7)



1. An electrically operated dual horn comprising in combination a body part having a spiral

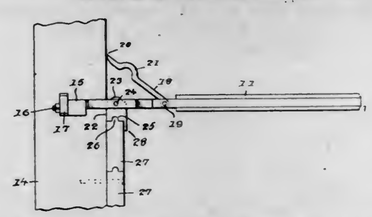
groove in each of a pair of opposite faces, means enclosing the open sides of the grooves and having openings situated opposite to the inner ends of the grooves, a hollow extension projecting from the side of the body part adjacent to the outer ends of the grooves and divided internally into two parts which form with the grooves two air passages designed to produce tones of different pitch, a diaphragm mounted over the inner end of each passage, and electromagnetic means situated at the outer sides of and adapted to vibrate the diaphragms simultaneously.

2,351,691

LUMBER PULLER

Arthur J. Mansir, Camden, Ark.

Application August 13, 1943, Serial No. 498,485
3 Claims. (Cl. 254—15)



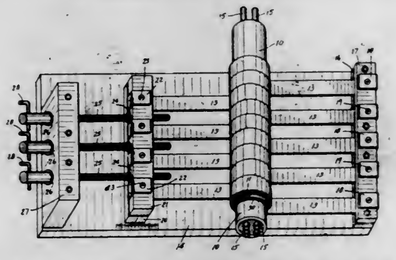
1. A lumber puller comprising a U-shaped frame including an elongated handle and a pair of spaced arms at one end of the handle, a bolt extending forwardly from the end of each arm, a serrated cam loose on each bolt, said arms being adapted to straddle a joist to which a tongue and groove board is to be nailed, a block pivoted between the arms having a groove in its lower surface to engage the tongue of a board, said block having a depending stop lug adapted to engage the front face of the board, a prop pivoted at one end between the arms adapted to engage the joist at the free end, said prop being adaptd to be disposed in the plane of the arms in contact with the block in released position, and a casing housing the handle from the closed end thereof to near the pivoted end of the prop.

2,351,692

APPARATUS FOR PRODUCING HIGH DENSITY PLYWOOD TUBING

John A. Miller, De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation

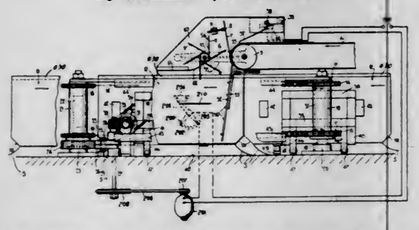
Application June 6, 1942, Serial No. 446,100
6 Claims. (Cl. 144—268)



1. Apparatus for producing high density plywood tubing comprising a mandrel over which preformed plywood tubing is mounted, means associated with said mandrel for heating the tubing thereon, a sheet metal wrapping surrounding the

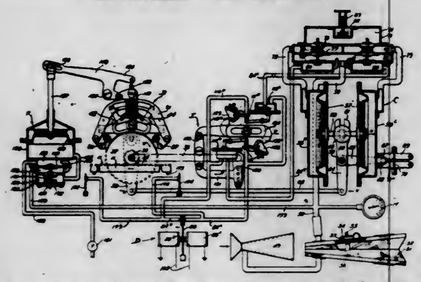
tubing and having oppositely extending strips in spaced and staggered relation adapted to interlace to extend in opposite directions, a fixed clamping member to which the strips on one side of the tubing are secured, a movable clamping member secured to the oppositely-extending strips, and means for drawing said movable clamping member to apply sufficient tension to said strips to compress the plywood to a fraction of its normal thickness.

2,351,693
COLLECTING MECHANISM FOR ROD-SHAPED ARTICLES
Desmond Walter Molins, Félix Frédéric Ruau, and Samuel Robert Chown, Deptford, London, England, assignors to Molins Machine Company Limited, Deptford, London, England
Application May 13, 1941, Serial No. 393,298
In Great Britain May 18, 1940
10 Claims. (Cl. 226—2)



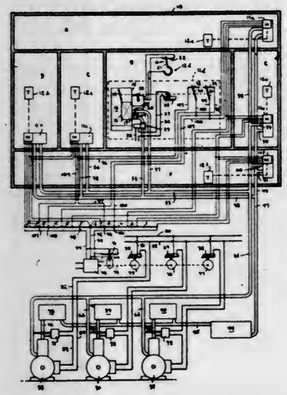
1. Collecting-mechanism comprising in combination, means to move articles transversely to their longitudinal axes to a delivery position, means to move a receptacle lengthwise below said position so that articles are delivered first into one end of the receptacle and thereafter to successive positions along the length of the receptacle, a downwardly inclined guide to direct articles into a receptacle, and an article-distributor supported above the path of a receptacle, means supporting said article-distributor for movement forwardly into the receptacle with a component of movement in the direction of movement of the latter so as to move articles in the receptacle away from the inclined guide and towards the leading wall of the receptacle.

2,351,694
AUTOMATIC CONTROL FOR AIRCRAFT, ETC.
Jess S. Morrison, Southgate, Calif., assignor to Leo M. Harvey, La Canada, Calif.
Application August 14, 1939, Serial No. 291,478
12 Claims. (Cl. 244—78)



1. A control mechanism for a craft having a movable control part, the control mechanism comprising reversible pneumatic power means, intermittent drive means operable by the power means to move said part in either direction, valve means governing the pneumatic means operable to cause actuation of the pneumatic means in either direction, oscillator means interposed between the valve means and the power means for producing oscillatory operation of the power means during each period of valve operation, and means for actuating the valve means to cause operation of the pneumatic means in either direction.

2,351,695
MULTIZONE AIR CONDITIONING SYSTEM
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 17, 1942, Serial No. 439,381
10 Claims. (Cl. 62—6)

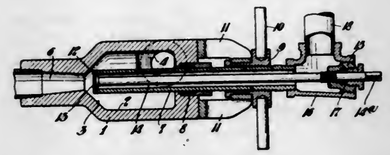


2. In an air conditioning system for a plurality of spaces representing unequal loads on said system, in combination, evaporator means for each space, variable capacity compressor means for supplying liquid refrigerant to said evaporator means, a temperature responsive device in each of said spaces, electric circuit means, means operated by each temperature responsive device for changing a condition of said circuit means an amount dependent both upon the load represented by the space in which that particular temperature responsive device is located and in accordance with the amount the temperature in said space has deviated from the desired value, and means responsive to the condition of said electric circuit means for rendering said compressor means operative at minimum capacity when the condition of said circuit indicates a sufficient demand to warrant such operation, and for increasing said capacity upon an increase in said demand.

2,351,696
STENCIL AND STENCIL BACKING
Wallace Hunter Nichols, Port Washington, N. Y., assignor to Rodic Rubber Corporation, Garwood, N. J., a corporation of Delaware
No Drawing. Application March 5, 1940, Serial No. 322,347
1 Claim. (Cl. 101—128.2)

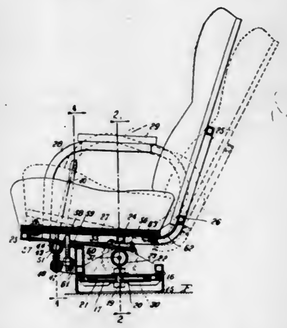
A stencil sheet consisting of a thin sheet of Yoshino paper impregnated with rubber hydrochloride to form a thin structureless composite non-plastic frangible and stencilizable film for conversion into a stencil by impact of type thereon forming perforations through said composite film.

2,351,697
ATOMIZER
Peer D. Nielsen, Lorain, Ohio, assignor to National Tube Company, a corporation of New Jersey
Application July 3, 1940, Serial No. 343,867
2 Claims. (Cl. 299—118)



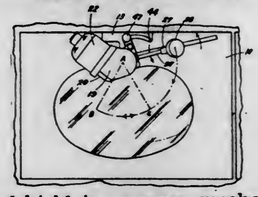
1. An atomizer for liquid fuel, including a chamber having a cylindrical inside contour terminating with a Venturi throat and provided with a tangential inlet spaced from said throat with means for supplying said inlet with atomizing fluid under pressure, and a cylindrical liquid fuel supply tube extending longitudinally of said chamber concentrically therewith with a flaring annular orifice adjacent said throat and pointing theretowards, said orifice being positioned to eject a flaring annular film of liquid fuel into said throat at a position where the velocity of the whirling atomizing fluid passing therethrough is relatively high.

2,351,698
RECLINING SEAT FOR PASSENGER VEHICLES
Karl F. Nystrom, Milwaukee, Wis.
Application April 25, 1942, Serial No. 440,469
8 Claims. (Cl. 155—116)



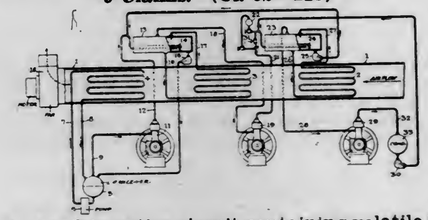
3. A reclining seat comprising an immovable base; an immovable horizontally disposed shaft; a rigidly connected seat and back frame arranged above said shaft; means operatively connected with the bottom of the seat and with said shaft whereby the seat-frame is tiltably secured to said shaft; automatic vise mechanism operatively intermediate the bottom of the seat and said base and involving an upstanding element immovably secured to the base, a pair of oppositely moving element gripping members, a spring controlled shaft on which said members are threaded and made to move into gripping position and the seat locked in its adjusted positions; and a hand-lever mounted on the seat-frame and on one end of the spring controlled shaft whereby the latter may be rotated and said gripping members moved out of gripping position thereby permitting the seat to tilt about said first mentioned shaft.

2,351,699
AIRCRAFT WINDSHIELD SCRAPER
Robert D. Parry, Cincinnati, and Clarence F. Hartman, Silverton, Ohio, assignors of one-third to Wiley W. Osborne, Cincinnati, Ohio
Application June 29, 1942, Serial No. 448,956
7 Claims. (Cl. 15—250)



1. A windshield ice scraper mechanism comprising an encased power transmission unit, an arm and a bearing member rigid with said unit and having their axes disposed at right angles in a common plane, said bearing member arranged to extend through a windshield whereby said arm and said unit are disposed on opposite sides of such windshield, a scraper blade on the free end of the arm, a power crank rotatably mounted on the unit and having its axis of rotation parallel with the axis of said bearing member and a link member adapted for fixation at one end and having its opposite end pivoted to said crank whereby the said unit and said arm are oscillated about the axis of said bearing member.

2,351,700
REFRIGERATION
Velt C. Patterson, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware
Application September 16, 1943, Serial No. 502,657
9 Claims. (Cl. 62—115)



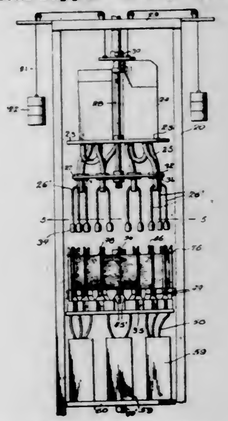
1. A refrigerative circuit containing volatile liquid refrigerant and comprising in combination, a low pressure receiver; a receiver suction trap; a low stage compressor arranged to withdraw vaporous refrigerant from said receiver and deliver it at higher pressure into contact with liquid in said trap; liquefying means including a higher stage compressor arranged to withdraw vaporous refrigerant from said trap, liquefy it and return it to said trap; two evaporators; means serving to supply liquid refrigerant from said receiver to one evaporator and cause it to evaporate therein under receiver pressure; means serving to supply liquid refrigerant from said trap to the other evaporator and cause it to evaporate therein under trap pressure; and means serving to deliver excess liquid refrigerant from said trap to said receiver.

2,351,701
PROCESS AND APPARATUS FOR SPOT-DYEING SKEINS
Cecil J. Perkins, Lynchburg, Va.
Application November 11, 1941, Serial No. 418,632
26 Claims. (Cl. 8—148)

22. Spot-treating apparatus for yarn skeins comprising an endless series of upright sup-

ports adapted to have a skein trained about them, means for covering parts of the skein while leaving intermediate portions exposed to atmosphere, and spray nozzles adjacent opposite sides of the exposed portions of a skein on the supports.

25. A method of liquid treatment of yarns, comprising the steps of assembling skeins of yarn about a vertical support in superposed stretched



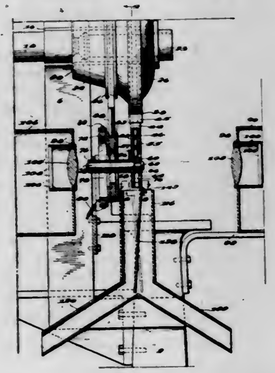
relation, applying pressure axially of the skeins to such skein portions as are to remain untreated, compressing and clamping said portions laterally, slackening the uncompressed portions of the skeins, and spraying liquids of different character simultaneously on the inner and outer faces of different exposed portions of said skeins to produce different effects on different exposed portions.

2,351,702

MACHINE FOR INSPECTING AND SORTING TRANSLUCENT MOLDED PLASTIC BUTTONS AND THE LIKE

Frederick H. Peterson, Watertown, Conn., assignor to The Patent Button Company, Waterbury, Conn.

Application July 11, 1941, Serial No. 402,027
5 Claims. (Cl. 209—111)



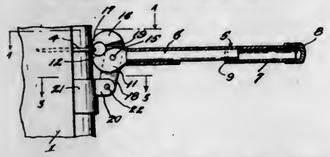
1. In an apparatus for inspecting translucent molded buttons and the like, a scanning member for passing buttons across light rays, comprising a disk having at least one light aperture therethrough, axle means mounting said disk for rotation whereby to pass said aperture across said light rays, and button retaining means on said disk, comprising a pair of elements projecting from one face of said disk on opposite sides of said aperture, a guide member, said guide member being spaced from said one face of said disk by an amount slightly greater than the thickness of the button being inspected and cooperating with said disk during a portion of the downward travel of said button in said guide member, and opening means through said guide member for allowing light to pass therethrough, said opening means being of less width than the diameter of said button.

2,351,703

STAPLE EXTRACTOR

Richard Peterson, Waupaca, Wis.

Application November 17, 1942, Serial No. 465,869
3 Claims. (Cl. 254—28)



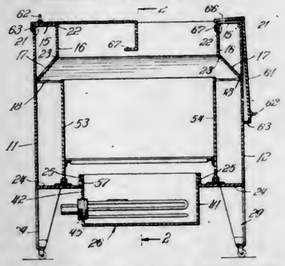
1. An implement of the character stated comprising a handle lever, a fixed jaw at one end thereof, a movable jaw pivoted to the fixed jaw for coaction therewith, said movable jaw having an extension disposed across the fixed jaw and extending beyond the side thereof remote from the movable jaw, and an elongated foot-piece of arcuate cross section having said extension pivotally secured to the back thereof, the longitudinal edges forming means to support the foot-piece against a support in straddling relation with an interposed body.

2,351,704

COVER FOR DEGREASER CABINETS

Willard D. Phillips and Ralph A. Van Fossen, Chicago, Ill.

Original application August 3, 1940, Serial No. 351,018. Divided and this application February 15, 1943, Serial No. 475,916
3 Claims. (Cl. 202—242)



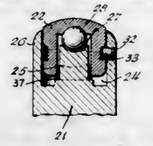
1. In a degreasing cabinet employing solvent vapor and having a hollow inward rim adapted to be used as a solvent reservoir and condenser: a cover comprising a relatively thin rectangular panel including a pair of downwardly extending outside flanges having their opposite wall portions spaced apart a distance greater than the outside dimension of the cabinet; and an inside flange on one side of the rectangular panel, said inside flange being of a length less than the inside dimension of the cabinet and of a width greater than the width of the cabinet rim to provide a vapor baffle when the cover is in closed position and a protective cover for the hollow rim when in open position.

2,351,705

SCREW DRIVER

Gustav Prall, New York, N. Y.

Application December 9, 1942, Serial No. 468,338
1 Claim. (Cl. 145—61)



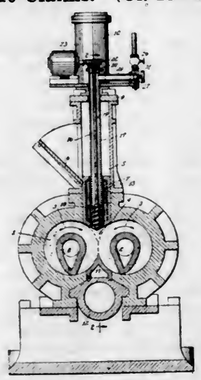
A screw driver head, comprising a substantially cylindrical head portion having a screw driving blade connected therewith, and the free end of said head portion having an annular recess formed therein, providing an outer annular wall and an integral central cylindrical support, a second cylindrical head portion of smaller diameter than the first head portion having a central recess formed therein to accommodate said support, said second head portion being rotatably located in said annular recess and slightly extending above the free end of said first head portion, said second head portion having an annular peripheral groove formed therein, a set screw carried by the outer annular wall of the first head portion and projecting into said annular groove holding the second head portion in rotatable relation to the first head portion, a ball carried by said support and engaging the bottom in the recess of said second head portion, and a ring surrounding said support and providing a race for said second head portion.

2,351,706

APPARATUS FOR TREATING PLASTIC MATERIAL IN A CONTROLLED ATMOSPHERE

Thomas Robinson, New York, N. Y.

Application November 16, 1943, Serial No. 510,456
10 Claims. (Cl. 18—2)



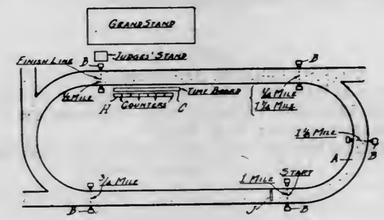
8. In an internal mixer for plastic material, the combination with an essentially closed mixing chamber, and rotor means for mixing material in said chamber, of a passageway opening into said chamber, a helical screw at the inner end of said passageway, means for rotating said screw in a direction to prevent plastic material from said chamber entering and clogging said passageway, and means for supplying temperature controlled gases to said passageway, said gases being introduced into the mixing chamber through a helical groove of said screw and diffused through the mass by rotor action to control the temperature of the plastic material being treated.

2,351,707

AUTOMATIC ELECTRIC SELF-POSTING TIMER

James W. Rouprich, San Francisco, Calif.

Application April 12, 1940, Serial No. 329,286
2 Claims. (Cl. 161—18)



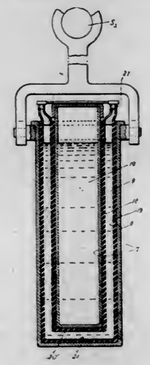
1. In an automatic electric self-posting timer for races, a plurality of cooperating light beams and electric eyes disposed at intervals around an endless race track, a timed electric impulse generator, electric counters for each electric eye, certain electric eyes having more than one counter associated therewith, means actuated by one of the electric eyes when obscured at the start of the race for electrically connecting all of the counters with the impulse generator, time-posting means for each counter, means associated with each counter and its electric eye for disconnecting the counter from the impulse generator the instant that the light beam of the electric eye is obscured and for connecting its counter with the associated time-posting means for indicating the total time between the obscuring of the starting light beam and the obscuring of the beam associated with the counter, and transfer circuits interconnecting certain counters for making the associated light beams non-effective for those counters until these beams have once been obscured, whereupon the second obscuring of the beams will disconnect the associated counters from the impulse generator and immediately connect them to the associated time-posting means.

2,351,708

CENTRIFUGE

George A. Rubissow, New York, N. Y.

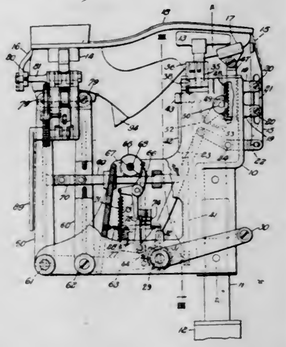
Application October 31, 1941, Serial No. 417,305
4 Claims. (Cl. 233—26)



4. In a device of the character described, the combination with a centrifuge container of a carrier therefor comprising an impervious double-walled fluid receptacle, the inner wall of which forms a flexible supporting pocket conformable

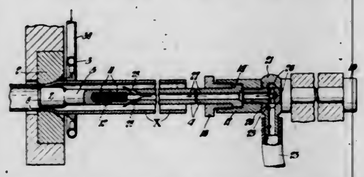
to the contour of the centrifuge container to be pressed against said container by the pressure of fluid in the double-walled fluid receptacle whereby the centrifuge container is supported by fluid pressure, and a rotatable support for the carrier, said flexible supporting pocket being made of thin rubber-containing material.

2,351,709
WORK SUPPORT
Eugene J. Ray, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 26, 1943, Serial No. 488,484
16 Claims. (Cl. 12—126)



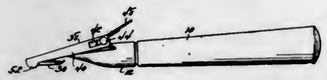
1. A shoe-supporting jack comprising a frame, a toe gauge mounted thereon, a pair of clamping members arranged to clamp the counter portion of a shoe widthwise, a heel-end abutment, carrying means by which said clamping members and said abutment are carried collectively toward and from said toe gauge, said carrying means being adjustably mounted on said frame, and means carried by said carrying means for moving said clamping members toward and from each other.

2,351,710
COLD-DRAWING PIPES AND TUBES
Elmer N. Sanders, Mount Lebanon, Pa., assignor to National Tube Company, a corporation of New Jersey
Application March 5, 1941, Serial No. 381,902
2 Claims. (Cl. 205—8)



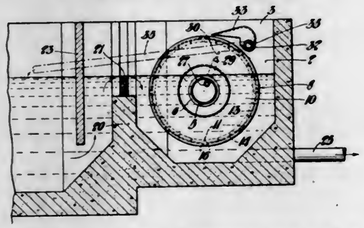
1. The method of producing cold-drawn tubing, which comprises providing a hot-rolled pickled tube which has been subjected to a neutralizing washing operation, then immediately after the washing operation transferring the tube directly to a draw-bench and there passing it through a die and over a mandrel disposed interiorly of said die and tube, applying a liquid non-water-bearing lubricant simultaneously to both the interior and the exterior surfaces of said tube as it is being drawn through said die and prior to their passage therethrough.

2,351,711
SCRAPER
John H. Sassano, Union, N. J.
Application September 20, 1943, Serial No. 503,140
2 Claims. (Cl. 30—339)



1. A scraper of the type described comprising a grip, a receptacle attached to the grip, said receptacle including means for detachably securing a razor blade thereto with said receptacle having a mouth arranged in receiving relationship with one cutting edge of the razor blade, a work engaging cover yieldingly biased to a closed position for covering the cutting edge of the blade but being movable to a cutting edge exposing position through engagement with work being scraped, and means for latching said cover in a position exposing the cutting edge of the blade.

2,351,712
SCREEN
Louis F. Sattele and August H. Ziegler, McKeesport, Pa., assignors to National Tube Company, a corporation of New Jersey
Application April 7, 1941, Serial No. 387,320
2 Claims. (Cl. 210—199)

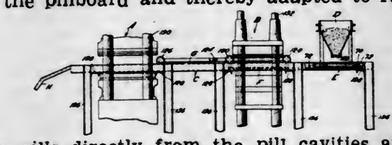


1. In a strainer, the combination of a tank adapted to contain the liquid to be strained, a settling basin adjacent said tank, a weir between said basin and said tank over which the liquid to be strained passes, a stationary tube disposed in said tank, a hollow strainer rotatably mounted on said tube, said strainer having a screen periphery located to immerse its lower portion in the liquid in said tank, means to rotate said strainer, said tube having apertures therein for delivering the strained liquid from the interior of said strainer, an outlet in said tube for discharging the strained liquid from said tank, means inside of said strainer to blow fluid through the screen to dislodge matter adhering to its outer surface, a receptacle for collecting said dislodged matter, and blades on said strainer projecting outwardly beyond said screen to engage particles in the liquid and carry them to the top of the screen and into adjacency with respect to said last-named means.

2,351,713
MOLDING
Gordon B. Sayre, Brooklyn, N. Y., assignor to Boonton Molding Company, Boonton, N. J., a corporation of New Jersey
Application December 21, 1938, Serial No. 247,017
23 Claims. (Cl. 18—30)

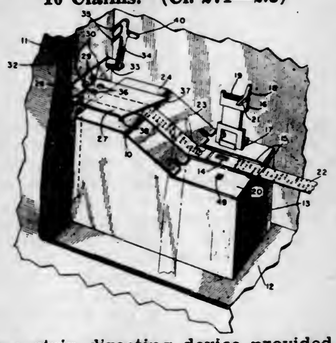
14. In combination, a molding press carrying a multiple cavity mold, a pill press having a cavity plate with a plurality of cavities so relatively

located as to be registerable with the mold cavities of the mold, guides connecting the molding press and pill press, a pillboard movable along said guides between the pill press and the molding press, a catchboard movable along said guides, a powder carrier movable along said guides on that side of the pill press remote from the molding press, said pillboard having a plurality of pill-carrying parts registerable with the mold cavities in one position of the pillboard and registerable with the pill cavities in another position of the pillboard and thereby adapted to receive



the pills directly from the pill cavities and to transfer the same to the mold cavities, whereby the pill formed in any particular pill cavity is invariably transferred to a single corresponding mold cavity, means to independently adjust the weight of the pills in order to thereby relatively compensate for variations in the relative size of the mold cavities, said catchboard being adapted to receive the molded pieces at the molding press, and said powder carrier being arranged to deliver molding powder to the pill cavities while the pillboard is delivering previously formed pills to the mold cavities.

2,351,714
TAPE DIRECTING DEVICE
Gordon Sim, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application June 26, 1942, Serial No. 448,658
10 Claims. (Cl. 271—2.3)



1. In a strip directing device provided with a strip, a strip advancing means, means adjustably and selectively positionable in the path of movement of the strip to block the advancing strip to form a loop therein in conjunction with said advancing means, and means to direct said loop in a predetermined direction of movement laterally to the normal direction of movement of said strip and in the same plane thereof.

2,351,715
PROCESS OF TREATING PHENOLS
Lee Irvin Smith, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 14, 1939, Serial No. 284,459
8 Claims. (Cl. 260—396)

1. The process of preparing quinones which comprises reacting a substituted phenol of the benzene series in which the para position is vacant and which is a member of the group consisting of monoallyl substituted phenols, polyalkyl substituted phenols, and monoallylpolyalkyl substituted phenols with an aromatic diazonium compound, treating the resultant admixture with stannous chloride in the presence of hydrochloric acid, then treating the reaction mass with an excess of ferric chloride in the presence of an acidulating substance and separating the thus formed quinone by steam distillation.

2,351,716
COATING COMPOSITION AND METHOD OF MAKING
Robert L. Smith, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application December 16, 1938, Serial No. 246,133
9 Claims. (Cl. 260—30)

5. As a liquid coating composition, a smooth creamy liquid suspension of finely divided solid particles of a normally solid fusible resin in a mixture of water and liquid reactive resin miscible therewith, the said mixture being a poor solvent for the said solid resin at ordinary temperatures and the said liquid resin being a relatively good solvent for the said solid resin at said temperatures.

2,351,717
DECORATION OR ORNAMENTATION OF SURFACES
Le Roy D. Soff, Forest Hills, N. Y.
Application June 8, 1942, Serial No. 446,313
10 Claims. (Cl. 117—37)



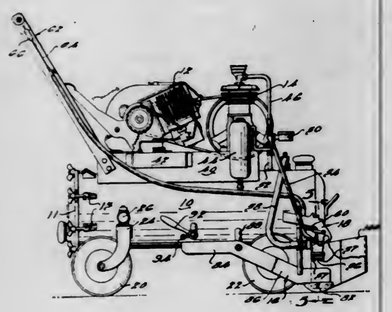
1. The method of ornamenting or decorating a surface, which includes applying to the surface a liquid including a binder and suspended matter comprising particles each having one dimension many times that of another, and draining excess liquid from the treated portion of the surface to leave irregular areas substantially free of said particles.

2,351,718
TREATMENT OF FIBERS OR FIBROUS MATERIALS CONTAINING KERATIN
John Bamber Speakman, Far Headingley, Leeds, England
No Drawing. Application May 25, 1938, Serial No. 210,074. In Germany December 9, 1935
16 Claims. (Cl. 167—87.1)

1. A process of imparting a permanent configuration to hair comprising treating the hair

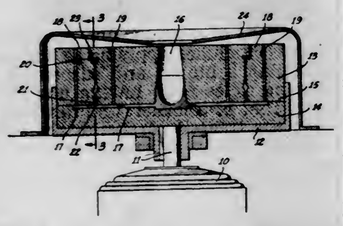
with a soluble sulfite at a temperature which does not burn the skin while maintaining the hair in the desired configuration, and thereafter treating the hair with an oxidizing agent to oxidize the remaining sulfite.

2,351,719
LINE MARKER
Rodolphe Stahl, Detroit, Mich., assignor to Saylor-Beall Manufacturing Co., Detroit, Mich., a corporation of Michigan
Application February 12, 1940, Serial No. 318,495
7 Claims. (Cl. 91—12)



1. In a machine for painting or the like, the combination of a material nozzle, means supporting said nozzle at a predetermined spaced relation to a surface upon which the material is to be deposited, and a pair of material guides positioned at respectively opposite sides of said nozzle and projecting nearly enough to said surface to enable said guides to govern the width of the area upon which said material is deposited, each of said material guides being of arcuate form in a plane generally parallel to the plane of said surface and having the concave surfaces thereof presented towards each other.

2,351,720
MOLD FOR CENTRIFUGAL CASTING
Shelley M. Stoody and Ralph L. Abos, Whittier, Calif., assignors to Stoody Company, Whittier, Calif., a corporation of California
Application December 24, 1941, Serial No. 424,371
1 Claim. (Cl. 22—134)

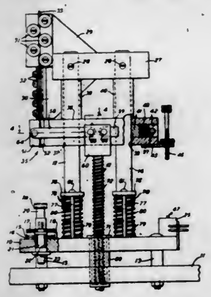


A mold for centrifugally casting having a central gate into which metal is poured, one or more outwardly extending passages leading therefrom, there being one or more mold cavities in the mold, the entrances to which extend upwardly from their respective passages from points disposed inwardly of the outer ends of the passages.

2,351,721
PROCESS FOR PREPARING d-RIBOSE-2-NITRO-4,5-DIMETHYLANILIDE
Alexander R. Surrey, Albany, N. Y., assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application June 22, 1943, Serial No. 491,784
7 Claims. (Cl. 260—211)

1. A progress for preparing d-ribose-2-nitro-4,5-dimethylanilide which comprises heating a mixture of d-ribose, 2-nitro-4,5-dimethylaniline, an acid catalyst, alcohol and benzene while removing vaporized alcohol, benzene and water and while adding benzene to the liquid reaction mixture, until the concentration of alcohol and water in said reaction mixture drops to the point where d-ribose-2-nitro-4,5-dimethylanilide crystallizes out, and isolating the d-ribose-2-nitro-4,5-dimethylanilide thus obtained.

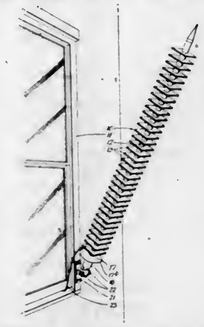
2,351,722
WELDING APPARATUS
Arthur R. Swenson, Fanwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 20, 1942, Serial No. 427,422
10 Claims. (Cl. 219—4)



1. A welding apparatus comprising an electrode to singly support parts to be welded, an electrode adapted to grip a wire, an electrical welding circuit including the electrodes, an electrical switch to control the welding circuit, means to move the gripping electrode from a normal position to a welding position to singly move lengths of wire to the parts, means to subsequently actuate the switch to close the circuit, and means to vary the said normal position of the gripping electrode to vary the lengths of wire moved thereby to the parts.

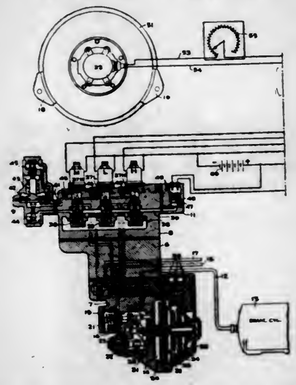
2,351,723
FIN MAST ANTENNA
Arthur G. Vogel, Chicago, Ill., assignor to Rempe Company, Chicago, Ill., a corporation of Illinois
Application May 22, 1943, Serial No. 487,996
1 Claim. (Cl. 250—33)

A mast antenna for radio reception comprising a supporting means adapted to be secured to a building or other supporting structure including a pair of metallic members one of which is adapted for rigid securement to said structure, the other member being adjustably secured to the first member adjacent one of its ends, and being provided with a socket on its other end, an insulator provided with a stud member, means on said stud member and socket for securing them together, said insulator having an elongated socket, a one-part mast comprising an elongated metallic tubular member, one end of which is adapted to fit within said elongated socket, and a multiplicity of plates, each plate being comprised of a material of high electrical conductivity, means on said plates for mounting said plates in spaced relation directly on said mast comprising an



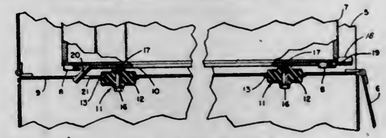
aperture in each plate having a margin defined by a flange, said flange making low impedance surface contact with said mast and means for fixedly mounting said flange on said mast whereby said tubular mast forms the sole support for said plates, said mast and plates constituting the effective antenna, and a lead-in conductor connected to said effective antenna.

2,351,724
AIR BRAKE
Erwin C. Vroman, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application June 11, 1942, Serial No. 446,654
10 Claims. (Cl. 303—21)



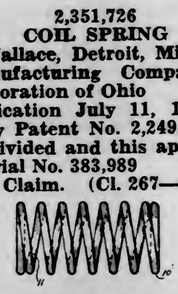
1. The combination of a wheeled vehicle; controllable braking means therefor; a plurality of controlling electric windings whose energization and deenergization control said braking means; an electric generator driven by a wheel of said vehicle, said wheel being subject to variations of diameter within permissible limits; a plurality of electric relays so arranged that they will respond individually to graduated values of generator speed and their contacts control the energization of said controlling windings; and a master resistance associated with the generator and adjustable to neutralize changes of generator speed occasioned by said permissible variation of wheel diameter.

2,351,725
APPARATUS MOUNTING ARRANGEMENT
James E. Wack, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 24, 1941, Serial No. 416,307
8 Claims. (Cl. 248—22)



5. In combination, apparatus to be supported having depending elements, a base for said apparatus, a vibration dampening support for said apparatus including a supporting member, spaced skids resiliently mounted on said supporting member for directly supporting said base of said apparatus, locating means for the depending elements of the apparatus positioned at one end of said spaced members, the other end of said spaced members being downwardly bent to facilitate the removal of said apparatus from said spaced members.

2,351,726
COIL SPRING
William H. Wallace, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Original application July 11, 1940, Serial No. 345,019, now Patent No. 2,249,677, dated July 15, 1941. Divided and this application March 18, 1941, Serial No. 383,989
1 Claim. (Cl. 267—61)

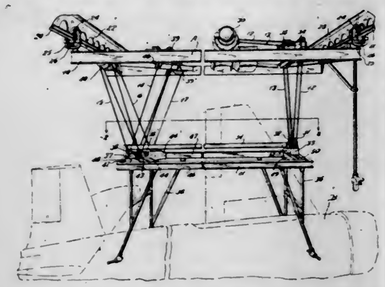


A coil spring whose resistance to fatigue resulting from the application of repeated stresses thereto has been substantially increased, after the spring has been formed, by substantially uniformly cold working the fibers at and adjacent the exterior surface of the convolutions and substantially uniformly cold working the fibers at and adjacent the interior surface of the convolutions but to a greater degree than the cold working of the fibers at and adjacent to the exterior surface of the convolutions.

2,351,727
CARRIER FOR OVERHEAD CONVEYER SYSTEMS
William G. Wehr, Wickliffe, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application March 11, 1943, Serial No. 478,756
4 Claims. (Cl. 212—126)

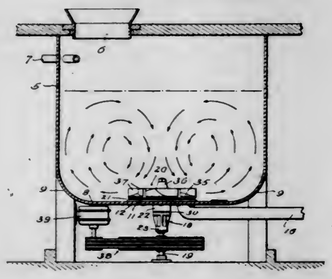
1. In apparatus of the character referred to, a movable overhead member, a load member, means comprising three pairs of cables for suspending said load member from said movable overhead member, means for operatively connecting the respective cables of each pair to one of said members at spaced points, means for operatively connecting the respective cables of each pair to the other of said members so that the respective cables of each pair are connected to said last named member at substantially the same point but spaced from and disaligned with the points at which the other pairs of cables are

connected thereto, whereby the respective cables of each pair are angularly disposed to each other and the respective pairs of cables lie in non-parallel generally vertical planes, a torsion resist-



ing member connected to said load member adjacent to the place where two of said cables are connected thereto and intermediate the places where the other cables are connected thereto, and means for letting out and taking up said cables.

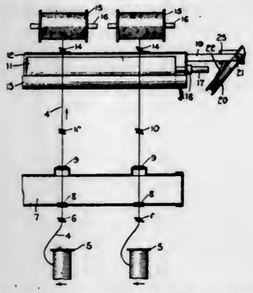
2,351,728
CONTINUOUS BEATER AND PULP SELECTOR
Harold Donald Wells, Glens Falls, N. Y.
Application August 8, 1942, Serial No. 454,180
7 Claims. (Cl. 92—23)



1. A pulp beater and selector comprising a beating and circulating tank, one wall of said tank having a selected pulp outlet, a circular beater-and-circulator in said tank and rotatably mounted on an axis perpendicular to said wall, said beater-and-circulator covering said selected pulp outlet and forming the sole means for barring direct discharge of the tank contents therethrough, said beater-and-circulator being spaced sufficiently inward from said wall to leave a restricted annular screening passage between the bottom edge of said beater-and-circulator and the underlying portion of said wall through which properly reduced pulp may flow to said outlet, and means for driving said beater-and-circulator.

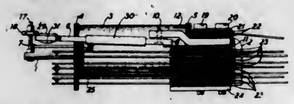
2,351,729
TINTING MECHANISM
William Whitehead, Rye, N. Y., and William J. Elvin, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
Application November 26, 1940, Serial No. 367,172
2 Claims. (Cl. 68—202)

1. In a device for coloring travelling yarns, the combination with a movable, color-carrying surface to contact said yarn, of means for supplying coloring material to said surface, means for causing said movable, color-carrying surface to traverse across the path of said travelling yarn



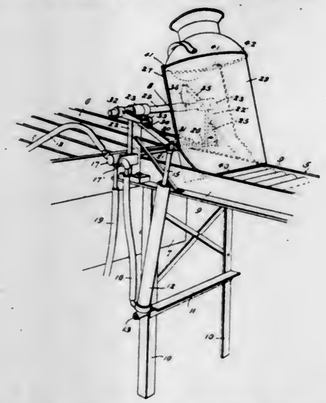
and traversing guide means for guiding said travelling yarn on to a take-up package.

2,351,730
RELAY
Frank A. Zupa, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 23, 1942, Serial No. 459,391
5 Claims. (Cl. 175—338)



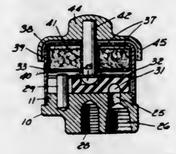
1. In an electromagnetic device, a heel-piece, a core secured thereto, a coil surrounding said core, an armature hinged to said heel-piece with its free end attractable toward said core upon the energization of said coil, said armature being divided into two magnetically separated sections and a short-circuited coil surrounding one of said sections whereby a phase displacement of the flux in that section with respect to the other section is secured to render said device effectively operable by alternating current.

2,351,731
CAN-DUMPING MECHANISM
Claude H. Abbott, Astoria, Oreg.
Application June 29, 1943, Serial No. 492,767
6 Claims. (Cl. 214—1.1)



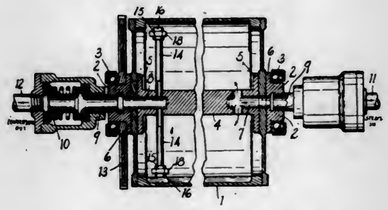
1. A can dumping mechanism comprising a supporting structure, a cradle tiltably mounted on said supporting structure and normally occupying a can-receiving position, fluid-actuated means mounted on said supporting structure, a control valve for admitting fluid to said fluid-actuated means and exhausting it therefrom, and connecting means from said fluid-actuated means to said cradle for tilting the latter toward can-dumping position, said connecting means including separable thrust portions operatively connected with said cradle and said fluid-actuated means respectively, said thrust portions being cooperable to transmit can-dumping motion from said fluid-actuated means to said cradle and being separable from each other to free said cradle from the influence of said fluid-actuated means, whereby said fluid-actuated means may be returned to normal position during final can-dumping, and said cradle may be returned to its normal position after removal of the emptied can.

2,351,732
ROTARY VALVE
John R. Almond, Cleveland, and Harold R. Fitz Gerald, Rocky River, Ohio, assignors to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application May 29, 1940, Serial No. 337,892
3 Claims. (Cl. 251—84)



2. In a rotary valve requiring no lapping-in operations, a stationary metallic non-lapped ported seating surface, and an elastic non-metallic valve disk of a composition derived from petroleum or coal tar products combined with masticated leather and mica and having a ported seating surface pressed against the seating surface of said metallic stationary part and being oscillatable thereon.

2,351,733
DRIER CONTROL AND DRAINAGE MEANS
Adam E. Armstrong, Three Rivers, Mich., assignor to Armstrong Machine Works, Three Rivers, Mich.
Application March 13, 1943, Serial No. 479,049
9 Claims. (Cl. 34—125)



1. The combination of a thin-walled drum, means for supplying steam to the interior of said drum, condensate discharge means associated with the drum, and means for removing condensate from the interior of said drum to said discharge means comprising a plurality of hollow radial tubes rotatable with the drum and in communication with said condensate discharge means, and an open-ended casing connected to the outer end of each tube and disposed closely adjacent said drum for immersal in condensate in the drum, an apertured orifice member in said casing, and a disk valve slidably mounted in the casing axially thereof and radially of the drum for sealing engagement with the aperture in said member, said valve sealingly engaging said orifice member to prevent passage of substantial amounts of steam through the aperture therein, but exposing the aperture under the influence of condensate blown into the casing when the latter is immersed in the condensate to thereby pass the condensate to said tubes, said valve being freely mounted to be opened by the flow of condensate or restrictedly opened by flow of steam through the aperture of said orifice member.

2,351,734
FISHING ROD
John C. Backe, Corunna, Mich.
Application April 4, 1942, Serial No. 437,696
4 Claims. (Cl. 43—18)



1. A fishing rod comprising a plurality of aligned sections, a flexible connection between the sections, and a handle member on one of the sections, means connected with said handle having operative connection with the outermost section whereby to vary the flexibility of the flexible connection upon movement of the handle in a direction longitudinally of said aligned sections.

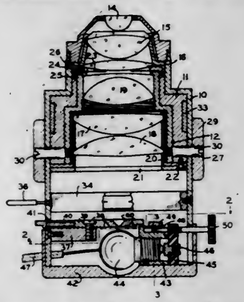
2,351,735
QUICK CURING NEOPRENE CEMENT
Louis S. Bake, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 12, 1941, Serial No. 406,536
10 Claims. (Cl. 260—32)

1. A curable neoprene composition comprising a mixture of an uncured chloroprene polymer obtained by polymerizing chloroprene in the presence of an amount of elementary sulfur up to 2% of the weight of the chloroprene, and an accelerator comprising litharge and a butyraldehydeamine.

2,351,736
MICROSCOPE ILLUMINATING DEVICE
James R. Benford, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application April 18, 1942, Serial No. 439,523
13 Claims. (Cl. 88—40)

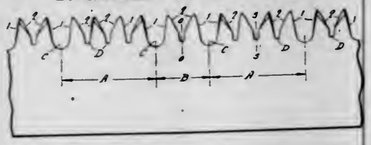
5. A device for illuminating an object for the purpose of microscopic examination, said device

comprising an optical system having a fixed lens element and movable lens elements mounted in alignment therewith, adjustable diaphragm means for varying the aperture of the system, actuating means for moving said movable lens



elements along the optical axis of the system, and means interconnecting said diaphragm means and said movable lens elements whereby movement of said movable lens elements by said actuating means simultaneously adjusts said diaphragm means.

2,351,737
SAW
Arthur N. Blum, Philadelphia, Pa.
Application May 9, 1940, Serial No. 334,242
10 Claims. (Cl. 143—133)



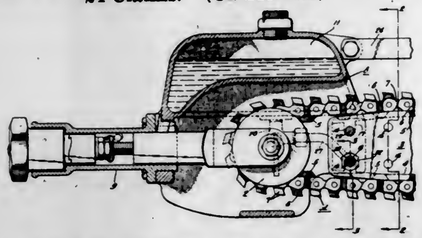
1. A saw blade having exclusively cutting teeth of substantially uniform height and size each set to one or other side of the blade, said teeth being separated by gullets including large cleaning gullets and smaller sharpening gullets, said sharpening gullets having their bottoms aligned on a common root line and said cleaning gullets having their respective bottoms also aligned on a line parallel to said root line, each of said teeth having oppositely beveled and sharpened knife-like cutting edges converging and terminating in a scalene cutting point adapted to slice in both directions with a drawing cut, said cutting edges being inclined to said root line but at different angles other than 90° and the normal projections upon the median plane of the blade body of the corresponding cutting edges of all the teeth, which edges face in the same direction of blade movement, being parallel, said teeth being arranged in symmetrical two-tooth groups having their beveled and sharpened cutting edges of steeper inclinations situated on the exterior of said two-tooth groups, each alternate two-tooth group being augmented by flanking teeth having their cutting edges facing in the same direction of blade movement as the corresponding edges of the respective immediately adjoining teeth of the associated two-tooth group, the augmented groups being separated from the intervening unaugmented two-tooth groups by said large cleaning gullets, and the two teeth flanking each of the large gullets being set respectively and entirely above their respective roots to the opposite sides of the blade, the set of each side of the blade not exceeding in amount the unsharpened breast thickness of the blade.

2,351,738
CUTTING CHAIN
Arthur N. Blum, Philadelphia, Pa.
Application August 22, 1941, Serial No. 407,996
14 Claims. (Cl. 143—135)



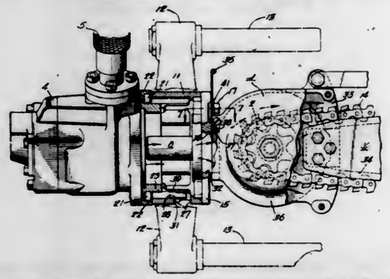
9. A cutting chain having cutting and raker teeth each having a single point, the points of said raker teeth not exceeding in height the points of said cutting teeth, the teeth of each set being structurally similar and being disposed substantially symmetrically on both sides of the median plane of the chain, the points of the teeth on one side of said plane being higher in an additive sense than the points of the teeth on the opposite side.

2,351,739
CHAIN SAW
Arthur N. Blum, Philadelphia, Pa.
Application December 27, 1941, Serial No. 424,651
24 Claims. (Cl. 143—32)



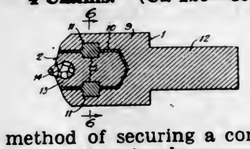
3. In a chain saw having a guide rail for the chain, a lubricant duct terminating at one side of said rail, an aperture in the rail, and a rod-like element in the duct extending to said aperture so as to provide a path for lubricant between the mouth of the duct and said aperture.

2,351,740
CHAIN SAW
Arthur N. Blum, Philadelphia, Pa.
Application February 20, 1942, Serial No. 431,772
13 Claims. (Cl. 143—32)



3. In a chain saw, an air motor, a head stock, a chain-supporting element rotatably mounted in the head stock, a chain engaged with and operating in the plane of rotation of said element, and means in said head stock for directing the exhaust of said motor against said element and the portion of the chain in curviform engagement therewith, and substantially in the plane of said element.

2,351,741
METHOD AND MEANS FOR MOUNTING TOOLS
Sheldon M. Booth, Chicago, Ill.
Application October 30, 1941, Serial No. 417,091
4 Claims. (Cl. 125—39)



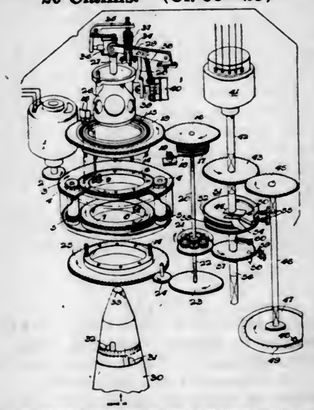
3. The method of securing a core in a socket which consists in forming keyways in the socket side wall, flowing a predetermined amount of plastic metal in said socket, setting the core in said socket while the metal is still plastic, thereby displacing said metal to substantially fill said socket and keyways, and then freezing said metal to fix said core in said socket while applying pressure to said core.

2,351,742
FLEXIBLE GRID ICE TRAY
Michael K. Buchanan, Norfolk, Va.
Application November 13, 1939, Serial No. 304,240
15 Claims. (Cl. 62—108.5)



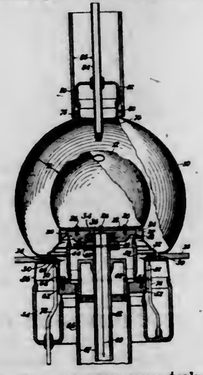
1. A grid for dividing a substantially rigid metal pan member into a plurality of ice containing cells, said grid being formed of flexible sheet metal and embodying a flexible bottom wall member formed of a double thickness of said sheet metal and a plurality of transverse wall members extending vertically from the bottom wall member and being formed of a double thickness of said sheet metal and means cooperating with the ice in said cells for preventing upward flexing of said grid when force is applied to an end thereof in an upward direction, said grid being flexible in other directions.

2,351,743
AUTOMATIC FUSE SETTING APPARATUS
Ralph R. Chappell, Richmond, Va., and Rutger B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application May 5, 1943, Serial No. 485,780
20 Claims. (Cl. 86—23)



20. In apparatus for the setting of a projectile fuse time ring, a rotatable reference ring, means carried by said reference ring for engaging the body of a projectile, a rotatable set ring, means carried by said set ring for engaging said time ring, motor means in driving connection with said reference ring and said set ring, and means responsive to the relative angular position of said reference ring and said set ring for disengaging said means carried by said set ring from said time ring.

2,351,744
HIGH-FREQUENCY VACUUM TUBE OSCILLATOR
Paul Georges Chevigny, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware
Application December 24, 1942, Serial No. 470,061
17 Claims. (Cl. 250—27.5)

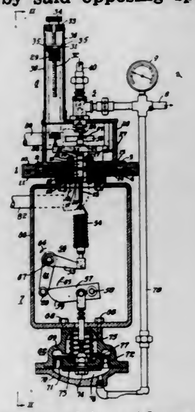


1. A high frequency vacuum tube oscillator including, in combination, a pair of concentric spherical metal shells open at one side and forming a resonant chamber between them, the outer shell being formed with an internal annular ridge having a flat internal peripheral surface about its open side, constituting an annular anode, an annular grid spaced within and concentric with said annular anode, means supporting said grid from the open side of the inner spherical shell, whereby said grid and anode are coupled through the resonant chamber formed by said shells, an annular cathode spaced within and concentric with said annular grid, and means sealing the open side of each metal shell, said last means including further means supporting said cathode.

2,351,745
FLOWMETER
Robert R. Donaldson, Pittsburgh, Pa., assignor to John M. Hopwood, Mount Lebanon, Pa.
Application June 10, 1940, Serial No. 339,693
2 Claims. (Cl. 73—205)

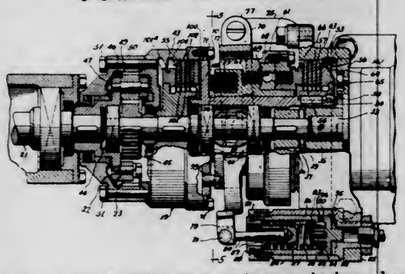
1. A pressure-responsive device adapted to respond to a pressure difference ($P_1—P_2$) and to establish another pressure whose value is proportional to the (nth) power of ($P_1—P_2$) where the value of "n" may be greater or less than unity, said device comprising a housing having a pressure-sensitive member therein, said housing having means whereby one side of the sensitive member may be subjected to one pressure and the other side thereof may be subjected to another pressure, a spring connected to oppose movement of said pressure-sensitive member in response to increasing values of ($P_1—P_2$) and having a positive gradient characteristic, valve means actuated by said pressure-sensitive mem-

ber adapted to deliver a pressure medium to a pressure sending line and to cause the value of pressure to vary with the position of the valve as determined by the deflection of the pressure-sensitive member, and means for varying the force exerted by said opposing spring compris-



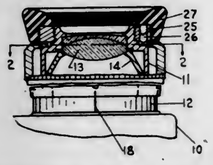
ing a spring connected to said pressure-sensitive member and exerting a force opposing the force of the first mentioned spring, and means for decreasing the tension in said second mentioned spring in accordance with the (nth) power of (P_1-P_2).

2,351,746
POWER TRANSMISSION DEVICE
Herman W. Driehaus, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 5, 1943, Serial No. 474,781
9 Claims. (Cl. 74—189.5)



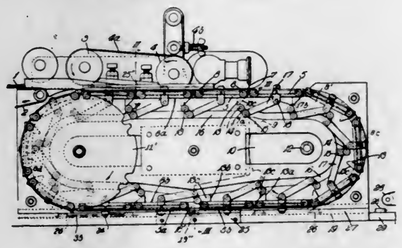
1. In a hydraulic power transmission device, a fluid motor having a motor shaft, means for supplying fluid to said motor under different volumes, to control the speed of rotation thereof including a pair of selectively operable fluid valves, a driven shaft, a geared reduction means interposed between said motor shaft and said driven shaft, fluid actuated means for controlling operation of said geared reduction means, and a pair of valves controlled by operation of said first mentioned valves and having operative connection with said fluid actuated means, for supplying fluid under pressure thereto to connect said transmission device to drive said driven shaft at a reduced speed when one or the other of said first mentioned valves is open, to supply fluid to drive said motor at a plurality of low speeds, and to connect said geared reduction device to drive said driven shaft at the speed of said motor shaft, when both of said first mentioned valves are open to drive said motor at a predetermined high speed.

2,351,747
OPTICAL INSTRUMENT
Clarence J. Eckert, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application September 5, 1942, Serial No. 457,418
8 Claims. (Cl. 88—57)



1. In an instrument of the type described, an ocular tube; means for adjustably mounting said tube to the body of said instrument; a scale-carrying band circumscribing said tube; an annular series of projecting means carried by said tube; and an annular series of projecting means carried by said band and adapted to engage and interlock with the projecting means carried by said tube for holding the tube and band against relative rotation.

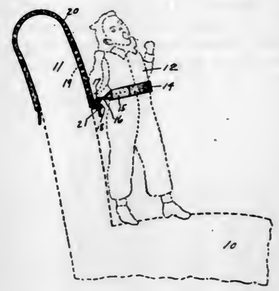
2,351,748
MANUFACTURE OF CIGARETTES
William Frederick Maitland Edwards, Esher, England, assignor to Filter Tips Limited, London, England
Application December 11, 1941, Serial No. 422,576
In Great Britain January 10, 1941
12 Claims. (Cl. 131—61)



1. In a method for the production of filter tip cigarettes the steps of moving a continuous length of tobacco in a path a part of which is a straight line, severing the said length into portions, separating the portions from one another by successive acceleration of the portions so that spaces are formed between the portions whilst they are proceeding along a part of the straight portion of the path, and thereafter transferring the portions successively from the straight portion of the path to a moving web of paper carrying a plurality of lengths of filter tip material in such a way that each tobacco portion is disposed between two lengths of filter tip material to form an assemblage of alternate tobacco portions and portions of filter tip material.

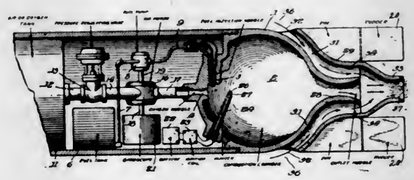
2,351,749
CHILD HOLDER FOR CAR SEATS
Walter S. Elmer, Portland, Oreg.
Application August 18, 1941, Serial No. 407,332
2 Claims. (Cl. 155—189)

1. A holder of the class described consisting of a pair of inverted U shaped hooks adapted to be forced downwardly around the upper edges of a car seat back and having vertically adjustable



connections at the forward lower ends thereof, and a flexible waist band between said connections removably secured thereto.

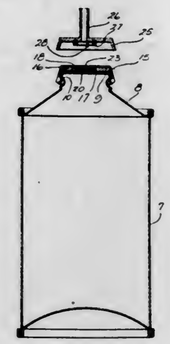
2,351,750
PROPULSION MEANS FOR NAVAL TORPEDOES
Donald G. Fawkes, Chicago, Ill.
Application January 4, 1943, Serial No. 471,309
3 Claims. (Cl. 114—20)



1. Propulsion means for a naval torpedo comprising a casing formed to contain a combustion chamber suitable for the mixture and burning of combustible fluids, a plurality of conduits for supplying said combustion chamber with a plurality of combustible fluids in a predetermined proportion, one of said conduits having fluid operable motor means therein, another of said conduits having pump means therein associated with said motor means whereby flow of fluids is necessarily simultaneous through the motor and pump-containing conduits, means for discharging the products of said combustion in a stream rearwardly of said torpedo, aspirator means associated with said stream of discharging combustion products adapted to divert a portion of the water medium immediately surrounding said torpedo into said stream of discharged combustion products.

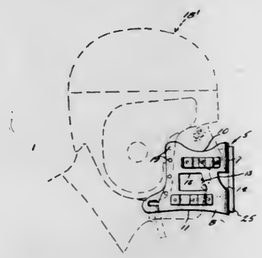
2,351,751
DISPENSER
Charles E. Fruin and James C. Fruin, Chicago, Ill.
Application August 29, 1940, Serial No. 354,672
12 Claims. (Cl. 222—505)

1. The combination with a receptacle having an apertured end wall and valve means interiorly seated against said wall across the aperture thereof, of a dispensing fitting comprising a member complementary to said wall and adapted for manipulation by the operator's fingers, said member having an annular locating flange surrounding said wall to center said member with respect to the wall, a nozzle opening through said member and having its receiving end at said member and means adjacent said nozzle fixed within said member and centered by said flange



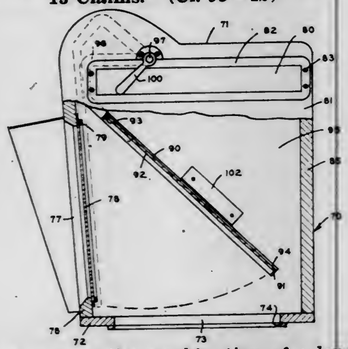
to be receivable through the aperture of said wall for the displacement of the valve seated thereagainst.

2,351,752
PROTECTIVE MASK
Joseph H. Fay, Hempstead, N. Y.
Application July 31, 1942, Serial No. 453,074
1 Claim. (Cl. 2—9)



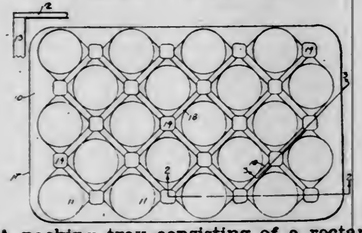
A mask to be attached to a football helmet having a chin strap and for protecting the face of the wearer comprising a sheet of resilient relatively-stiff material including a pair of substantially rectangular side walls, and a transversely rounded front wall from which said sidewalls diverge, said walls being of less height than the distance between the eyes and throat of the wearer whereby the front wall is adapted to extend across the lower portion of the nose and across the mouth and front of the chin and the side walls are adapted to extend alongside the cheeks and sides of the jaws, the front and side walls being provided with relatively small central ventilating openings therein, respectively, a pair of shock absorbing strap-like elements extending horizontally across the outer side of each side wall along the upper and lower edges of said side walls, a vertical strap-like brace element extending longitudinally of said front wall on the outer side of the same and in the longitudinal center thereof, means to permanently attach the edge of one side wall to one side of the helmet, and a slotted lower corner tab on the other side wall through which said chin strap may be looped to fasten said other side wall alongside the face of the wearer.

2,351,753
PHOTOGRAPHIC APPARATUS
Edward F. Flint and Henry F. Kurtz, Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application September 18, 1941, Serial No. 411,360
13 Claims. (Cl. 95—42)



1. In a camera, the combination of a lens system and a housing, said housing having an open end operatively connected to and aligned with said lens system, mounting means within said housing for holding a sensitized element between the ends of the housing and in alignment with said lens system, a focusing plate mounted in a side of said housing, a reflector within said housing, support means having one end connected to said reflector, and fixed means for pivotally mounting the opposite end of said support means for movement about an axis located between said mounting means and the closed end of the housing, said reflector being movable from a position wherein it is substantially parallel to said plate to a position wherein it extends across the optical axis of said lens system and is angularly disposed to said optical axis and also to said plate.

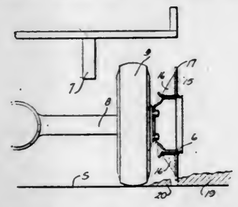
2,351,754
PACKING TRAY
Paul D. Friday, Portland, Oreg.
Application August 1, 1941, Serial No. 405,013
5 Claims. (Cl. 217—26.5)



2. A packing tray consisting of a rectangular sheet having depending rounded pockets in diagonal alignment and separated by upright posts in directions normal to the sheet edges, the opposite ends of each tray having an unequal number of pockets.

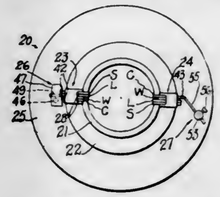
2,351,755
ROAD ICEBREAKER
Fredrick Gettelman, Milwaukee, Wis.
Application April 1, 1943, Serial No. 481,447
14 Claims. (Cl. 262—19)

14. The combination with a four-wheeled vehicle adapted for travel at normal trucking speed along a highway, of at least one ice cutting disk and means supporting said disk from the vehicle in a position fixed against vertical movement respecting one of said vehicle wheels and with its lower edge above the tread surfaces of the said vehicle wheel and laterally offset just a few inches from the line of travel of the near-



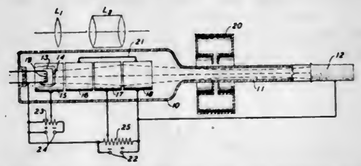
est face of said wheel, said disk having an ice cleaving peripheral portion free for idling engagement with ice in its path and being adapted to receive and carry a portion of the vehicle load when encountering ice along the side of a rut in which said adjacent wheel is traveling, whereby to sever fragments of such ice and widen the rut.

2,351,756
ART OF KNITTING GLOVES AND THE LIKE
Fred S. Gluck, New York, N. Y., assignor, by mesne assignments, to Waldorf Knitting Company, a limited partnership of New York, consisting of Fred S. Gluck and Claus K. Abeles, as general partners, and Ica Waldes, Sigmund Waldes, Ida Waldes, and Harry Waldes, as limited partners
Application July 15, 1942, Serial No. 451,059
10 Claims. (Cl. 66—133)



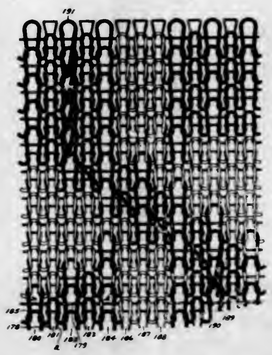
1. A circular knitting machine having yarn carrier elements for the needles, actuator elements individually adapted to be projected for moving the carrier elements into yarn feeding relation to the needles, locking elements responsive to the actuator elements in their projected positions for individually locking the actuator elements to maintain the carrier elements in yarn feeding relation to the needles, said locking elements being individually releasable and so cooperating with the carrier and actuator elements that the carrier elements move out of yarn feeding position upon release of the locking elements, a pair of the actuator elements having extensions at a like elevation, control means including a vertically movable selector cam member for engaging said extensions to cause the actuator elements to hold the carrier elements in yarn feeding position irrespective of the locking elements, a releasing member adjacent to the cam member for moving the locking elements to released position, so that those actuator elements that are engaged by the cam member are locked by the locking elements after the latter are disengaged from the releasing member, said control means and said carrier elements being angularly movable relatively to each other, one of the locking elements corresponding to said pair of carrier elements having a projection extending beyond the other locking elements, and a non-selective shifter means angularly remote from said control means for engaging said projection to release the locking element thereof for causing movement of the corresponding carrier element out of yarn feeding position without affecting the other locking elements.

2,351,757
ELECTRON DISCHARGE DEVICE
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 29, 1941, Serial No. 404,467
6 Claims. (Cl. 250—162)



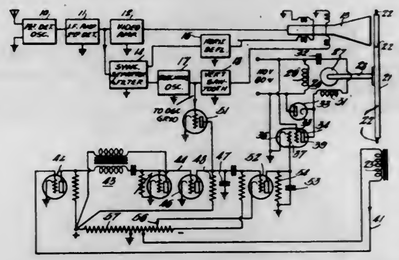
2. An electron discharge device comprising an elongated tube, an electron receiving electrode opposite one end of said tube, a cathode opposite the other end of said tube, and means for concentrating electrons emanating from said cathode into a stream coaxial with said tube and having a minimum cross section substantially midway between the ends of said tube and a cross section at said other end of said tube substantially equal to the cross section of said tube, said concentrating means including means defining a pair of coaxial, axially spaced electron lenses between said cathode and said other end of said tube and coaxial with said tube.

2,351,758
KNITTED FABRIC AND METHOD OF MAKING THE SAME
Isaac H. C. Green, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application February 6, 1943, Serial No. 475,020
12 Claims. (Cl. 66—180)



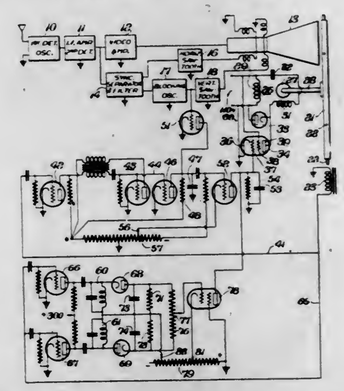
1. A plain knitted fabric having portions thereof the surfaces of which are disposed of different levels so that one stands out at the face of the fabric, and having at those areas which stand out at the face two yarns knitted in consecutive courses, one in all wales and the other in spaced wales only, and in those areas which remain at a lower elevation or do not stand out at the face of the fabric having both of said yarns knitted in all wales and a true wrap yarn pattern knitted in at least some of said areas which stand out at the face of the fabric.

2,351,759
MOTOR SPEED CONTROL
Gustave L. Grundmann, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1941, Serial No. 400,271
5 Claims. (Cl. 178—5.4)



1. In combination, a motor which is to run in synchronism with a synchronizing signal, means actuated by said motor for producing a control signal in a fixed time relation to the speed thereof, a frequency responsive circuit to which said control signal is applied, circuit means responsive to a change in the phase relation of two applied voltages, means for applying said synchronizing signal and said control signal to said phase responsive circuit means, and means for controlling the speed of said motor in accordance with both said frequency responsive means and said phase responsive means.

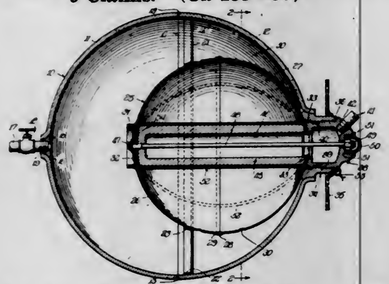
2,351,760
COLOR TELEVISION SYSTEM
George L. Beers, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 29, 1941, Serial No. 408,785
4 Claims. (Cl. 178—5.4)



1. In combination, a motor which is to run in synchronism with a synchronizing signal, means actuated by said motor for producing a control

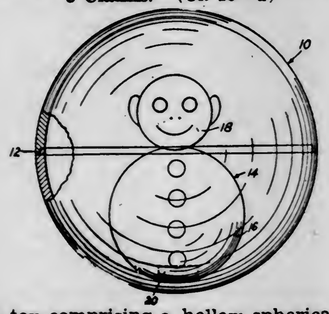
signal as a function of the motor speed, means comprising a frequency responsive circuit for either increasing or decreasing the speed of said motor in response to a change in said control signal for holding said speed between predetermined limits, circuit means responsive to a change in the phase relation of two applied voltages, said phase responsive circuit being independent of said frequency responsive circuit, means for applying said synchronizing signal and said control signal to said phase responsive circuit means whereby there is produced a synchronizing output, and means for further controlling the speed of said motor in accordance with said synchronizing output.

2,351,761
HYDRAULIC ACCUMULATOR
John C. Hanna, Chicago, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a corporation of Illinois
Application August 20, 1942, Serial No. 455,523
9 Claims. (Cl. 138—30)



1. An accumulator of the hydraulic type, in combination, a container, an expansible liquid receiver housed within the container, said receiver including a rigid internal supporting member and an elastic diaphragm in surrounding relation with the said internal supporting member, said container having an opening in the wall thereof through which said internal supporting member and diaphragm may be withdrawn as a unit, means for closing said opening, and a rigid stop member of substantially spherical shape within the container in surrounding relation with the expansible liquid receiver to thereby limit the expansion of said receiver.

2,351,762
TOY
Frank M. Hoover, Youngstown, Ohio
Application March 4, 1942, Serial No. 433,273
3 Claims. (Cl. 46—1)

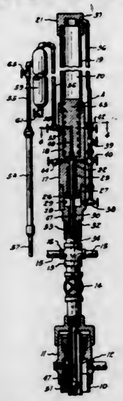


1. A toy comprising a hollow spherical ball of transparent material and having substantially smooth and unobstructed inner and outer surfaces, and a roly poly figure positioned within the ball and of less vertical height and less transverse extent in all directions than the internal diameter of the ball, said figure being free for independent universal rolling, tumbling and teetering movements in the ball and about its inner surface when the ball or rocked or rolled and having a rounded base for contact with the inner surface of the ball and to adapt it to stand upright therein when the ball is stationary, and a weight disposed at the base of the figure and tending to hold it normally upright and to normally maintain its base in frictional engagement with the internal surface of the ball and to hold the latter from rolling movement, said weighted base operating when the ball is rolled to cause an irregular rolling motion of the ball and operating when the ball is rocked or is about to come to a stop on a rolling motion to exert a braking effect on the ball, whereby wabbly or like eccentric motions are concurrently imparted both to the ball and figure at the ends of such rocking or rolling motions thereof.

2,351,763
PREPARATION OF MERCAPTANS
Carl Max Hull, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application February 16, 1942, Serial No. 431,081
16 Claims. (Cl. 260—609)

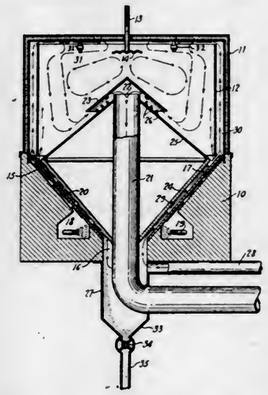
1. The method of preparing mercaptans comprising hydrolyzing the reaction product of phosphorus pentasulfide and an unsaturated hydrocarbon.

2,351,764
METHOD OF AND MEANS FOR OBTAINING AND MEASURING GASEOUS SAMPLES
Henry U. Jarrett, Palestine, Tex., assignor of one-half to W. O. Whiteside, Longview, Tex.
Application May 12, 1941, Serial No. 393,086
9 Claims. (Cl. 73—21)



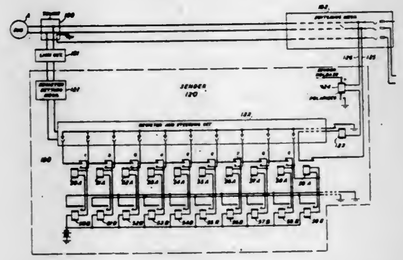
2. An apparatus for obtaining a sample of fluid from a high pressure flowing well and separating its liquefiable hydrocarbon content including, means for obtaining a representative well fluid sample from the tubing of a flowing well below the flow connections thereof, means for settling out the liquefied hydrocarbons from the sample obtained, means for conducting said sample from the obtaining means to the settling means, and absorption means for receiving the remainder of the sample from said settling means and for trapping the liquefiable hydrocarbons therein whereby the recovered hydrocarbons may be combined and the percentage thereof computed.

2,351,765
REDUCING ORES AND FORMING SPONGE METALS AND ALLOYS
Benjamin A. Jeffery, Clarkston, Mich., assignor of one-half to Scott H. Lilly, Toledo, Ohio
Application December 12, 1941, Serial No. 422,670
11 Claims. (Cl. 75—34)



1. The method of obtaining metal from ore where the metal may be obtained by contact of fluid with the ore, which comprises forming a slip of the powdered ore and a vaporizable liquid, spraying the slip into separated drops, drying the drops into pellets, and contacting the pellets with a fluid by contact with which the metal is obtained from the ore.

2,351,766
TELEPHONE SYSTEM
Amos E. Joel, Jr., New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 30, 1943, Serial No. 496,739
5 Claims. (Cl. 179—27)



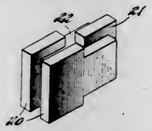
1. In a telephone switching system, a first automatic switching office having register senders arranged for revertive pulsing over a fundamental circuit, a second automatic switching office having register senders arranged for revertive pulsing over a fundamental circuit, outgoing trunk circuits in said first office, incoming trunk circuits in said second office, a speech transmission circuit and a composite signaling circuit extending between said outgoing and said incoming trunk circuits, means for connecting one of said outgoing trunks with a sender in said first office and the associated incoming trunk with a sender in said second office, means in said trunk circuits for forming revertive pulse fundamental circuits with the senders associated therewith thus forming separate revertive pulse fundamental circuits in each office, means for closing the fundamental circuits of both offices by the transmission of signals over said composite signaling circuit, and means including said composite signaling circuit for operating the mechanism of both fundamental circuits simultaneously according to digit registrations in the sender of said first office for completing an automatic switching telephone connection in said second office.

2,351,767
SANITARY RUBBER SHEET
John H. Johnson, Toronto, Ontario, Canada
Application January 16, 1941, Serial No. 374,677
2 Claims. (Cl. 5—334)



1. A sanitary rubber sheet comprising a sheet of textile material having a thin sheet of rubber on each face thereof, said rubber sheet being of substantially equal thickness, the composite sheet having its edges turned over to form a friction margin to hold the sheet in position on a bed and the turned-over edges being vulcanized flat to the sheet, the extremities of the edges being overlaid with a sealing rubber strip to protect the textile fabric against the ingress of moisture.

2,351,768
BUILDING AND BUILDING BLOCK THEREFOR
Rudolph G. Kaping, Libertyville, Ill.
Application July 29, 1940, Serial No. 348,159
11 Claims. (Cl. 72—38)

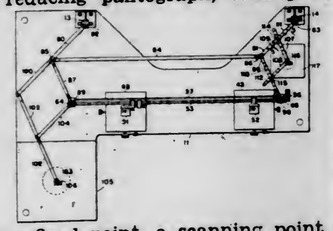


6. A building block comprising a plurality of united parallel sections, each section having a rectangular portion at one end larger than that at the other, and the adjacent sections being reversed endwise and disposed to provide projections extending beyond the smaller portion of the adjacent section at three edges for engagement by adjacent blocks at the four edges.

2,351,769
PLOTTING INSTRUMENT
Albert J. Kramer, Arlington, Va., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
Application April 2, 1943, Serial No. 481,560
4 Claims. (Cl. 33—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A plotting instrument comprising a parallelism linkage provided by rigid members forming two parallelograms having a common side and having all sides connected at the corners of

the parallelograms with hinge joints, the side of one parallelogram opposite the common side being fixed against movement, the corresponding side of the other parallelogram being movable; in combination with an enlarging pantograph and a reducing pantograph, each pantograph



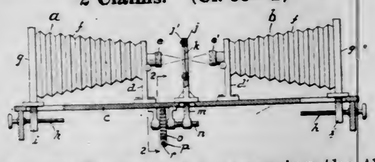
having a fixed point, a scanning point, and a tracing point, the fixed points of the pantographs being coincident with the two hinge joints of the fixed sides of the parallelism linkage, respectively, and the scanning points being rigidly connected to the movable side.

2,351,770

DEVICE FOR MEASURING THICKNESS OF OBJECTS

Bernard R. Koenig, Westgate Hills, Pa., assignor to Prodesco Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

Application December 17, 1943, Serial No. 514,603
2 Claims. (Cl. 88—1)
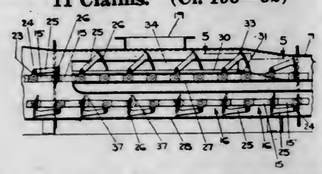


1. An optical device for measuring the thickness of an object, including a lens system comprising two spaced apart lenses having a common focal point, a frame, positioned between said lenses, adapted to support said object at a right angle to the optical axis of the lens system, means to effect movement of said frame relative to the lenses along said optical axis into two positions in one of which the focal point of one lens will coincide with one face of the object while in the other of which the focal point of the other lens will coincide with the other face of the object, and registering means, observable in the adjustment to said two positions, indicative of the distance between them and thus of the thickness of the article.

2,351,771

CONVEYER

Charles I. Lattig, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application May 4, 1942, Serial No. 441,610
11 Claims. (Cl. 198—52)



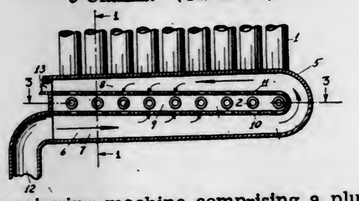
1. In apparatus for conveying granular material, the combination with a casing having a feed opening, of conveying mechanism including solid type notched flights, fixed means in said casing adjacent to said feed opening for substantially closing the notches in said flights while approaching and adjacent said feed opening and while receding therefrom.

2,351,772

SPINNING MACHINE

Alvin Lodge, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application October 25, 1941, Serial No. 416,491
9 Claims. (Cl. 18—8)



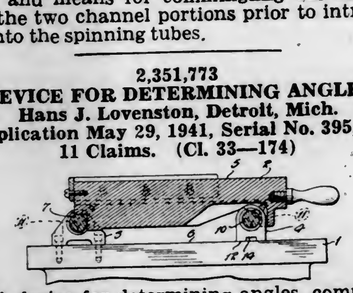
1. A spinning machine comprising a plurality of spinning tubes and a duct system for distributing a gaseous medium to the spinning tubes, said system comprising two channel portions extending substantially from the first to the last of the spinning tubes, inlet means for introducing the medium into the channel portions so that it flows in one direction in one of the channel portions and in an opposite direction in the other, a plurality of outlets spaced along both channel portions, means for introducing the medium discharged from neighboring outlets of the two channel portions into the respective spinning tubes, and means for commingling the medium from the two channel portions prior to introduction into the spinning tubes.

2,351,773

DEVICE FOR DETERMINING ANGLES

Hans J. Lovenston, Detroit, Mich.

Application May 29, 1941, Serial No. 395,846
11 Claims. (Cl. 33—174)



1. A device for determining angles, comprising a member for holding work thereon, a support on one end of said work holding member, means pivotally connecting said support to said end of said work holding member whereby said member can be swung about said support to any angle desired, a support at the other end of said work holding member, and means pivotally connecting said latter support to the said other end of said member, said latter support having a flat surface adapted for contact with another flat surface to distribute the load of said device itself and the load of the work on said device over a substantial area on said flat surface on said support and the surface in contact with said flat surface on said support.

2,351,774

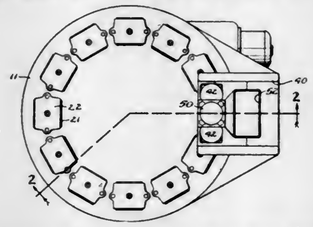
PLASTIC INJECTION MACHINE

Llewellyn Perry McGowen, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application June 29, 1940, Serial No. 343,106
9 Claims. (Cl. 18—30)

2. A device of the character described, comprising, a housing, a table rotatably mounted upon said housing, a plurality of two-part molds

mounted in an annulus upon said table, a plastic injecting device including a nozzle mounted upon said housing, means for intermittently rotating said table to successively move each of said molds into position adjacent said injecting device and for holding said molds stationary between each of said intermittent movements, means for moving said nozzle into contact with each mold when adjacent said injecting means and for forcing



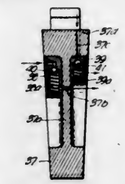
plastic through said nozzle into said mold when in contact, means for holding each of said molds closed under a relatively high pressure during said injection period including resilient means interposed between said nozzle and other portions of said injection device normally urging said nozzle toward said table, and means for holding each of said molds closed under a lesser pressure for several cycles of said intermittent rotating means.

2,351,775

GATE VALVE

Paul E. McMurry, St. Joseph, Mo., assignor of forty per cent to Albert F. Walter, St. Joseph, Mo.

Application May 15, 1942, Serial No. 443,063
6 Claims. (Cl. 277—54)



1. In a gate valve of the type comprising a body provided with a fluid passage having inlet and outlet ports, a bonnet surmounting the body and communicating with the passage, and a gate movable across the passage between the inlet and outlet ports so that fluid is trapped in the bonnet when the gate is closed, the improvement comprising a pressure relief means carried by the gate for relieving pressure from one port, and a second pressure relief means for relieving pressure from the bonnet to said other port.

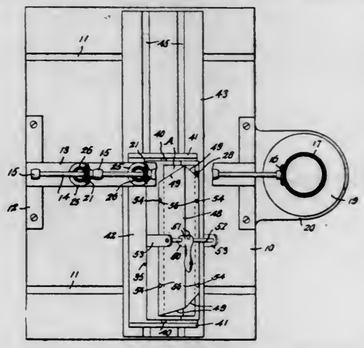
2,351,776

DUPLICATE CUTTING MACHINE

Arthur G. Mirel, New York, N. Y.

Application September 27, 1941, Serial No. 412,657
4 Claims. (Cl. 90—13)

1. A duplicating cutting machine for cross sectionally angulated structural members including a horizontally disposed base, a plurality of cutter elements mounted for rotation on vertical axes at different elevations over and in fixed relation to the base, said cutter elements each having a cylindrical shank with a cutter head at the lower terminal having a flattened lower end, a work support having angularly related faces corresponding with the angulated portions of the structural members and adapted to support a structural member in superposed relation therewith, said work support being mounted for universal movement in a horizontal plane over said base and adapted to be turned with reference to the base to selectively dispose the angularly related faces parallel with said



base for presenting to the variously elevated cutter elements portions of the webs and flanges of the members to be cut, and a templet secured upon the work support in juxtaposition to the structural member thereon, said templet having one or more guide edges adapted to engage the shanks of the cutter elements for gaging the cutting of the members by the cutter elements to conform with the guide edges of the templet.

2,351,777

LIFESAVING SUIT

Hans Georg Mörner, New York, N. Y.

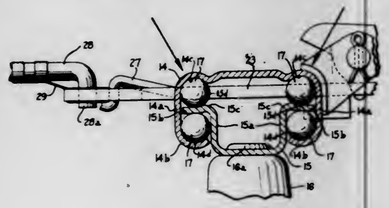
Application December 24, 1942, Serial No. 470,101
6 Claims. (Cl. 9—20)



1. A life saving suit comprising a waterproof body enclosing garment having buoying means arranged therein and about the inner surface thereof, said buoying means embodying a pair of self-buoyant members arranged at the front of the garment on opposite sides of the vertical center thereof, a pair of flexibly joined self-buoyant members arranged at the rear of the garment on opposite sides of the vertical center thereof, and a pair of self-buoyant members arranged at the sides of the garment between the front and rear members, said pairs of members being attached at their upper marginal edges to the interior of the garment and being of progressively decreasing degrees of buoyancy in the order named, and said side members being of

relatively greater flexibility than the front and rear members and forming links each freely flexible upon itself and each extending between and flexibly connecting the adjacent edges of the front and rear members at the same side of the vertical front-to-rear center of the garment.

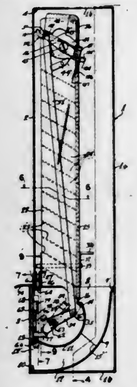
2,351,778
SEAT ADJUSTING DEVICE
Thomas G. Moulding, Toledo, Ohio
Application November 1, 1939, Serial No. 302,273
8 Claims. (Cl. 155—14)



8. In a device of the class described, a channel-shaped runner member with inturned flanges on each side portion thereof, a pair of runways formed in the angles between the base and the side portions of the channel-shaped member, a second pair of runways formed in the angles between the side portions and the inturned flanges of the channel-shaped member, spherical anti-friction means positioned in each runway, the spherical anti-friction means contacting each side portion of the channel-shaped member being adapted to cooperate together, a member longitudinally movable relative to the channel-shaped member positioned in parallel relation with the base of the channel-shaped member at a point substantially midway between the base and the inturned flanges, being held in such relative position by cooperation with and the cooperative relation of the spherical anti-friction means contacting the respective side portions of the channel-shaped member, vertically disposed abutting surfaces on said longitudinally movable member to cooperate with the spherical anti-friction means to prevent lateral movement of the movable member, and means to lock the channel-shaped member and the movable member in selected longitudinally-adjusted positions.

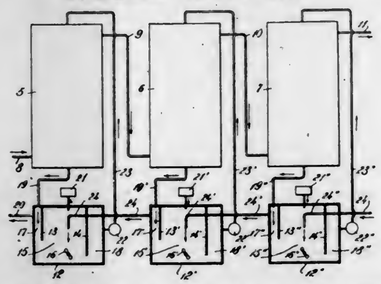
2,351,779
VENDING MACHINE
Fred Niewoehner, New York, N. Y., assignor to Interstate Vending Machine Company of St. Louis, St. Louis, Mo., a corporation of Missouri
Application July 28, 1941, Serial No. 404,358
10 Claims. (Cl. 312—94)

10. A vending machine including a merchandise storage structure provided with a vertical row of merchandise compartments having merchandise supports which incline downwardly to provide said merchandise compartments with discharge ends at the locations of the lowermost portions of said inclined merchandise supports, a strip of material disposed at the discharge ends of said merchandise compartments for normally retaining articles of merchandise within said merchandise compartments, a roller on which said strip of material is adapted to be rolled so as to move said strip of material upwardly with respect to said merchandise storage structure and relative to the discharge ends of the merchandise compartments thereof, means for subjecting said roller to intermittent rotary movement so as to roll said strip of material thereon and move a portion of the strip of material out of merchandise-retaining relation with respect to successive merchandise compartments



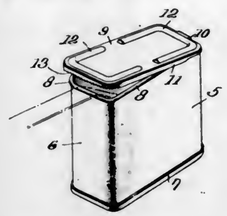
to permit discharge of merchandise therefrom, and means operated by an element carried by said strip of material when said strip of material has uncovered the uppermost merchandise compartment for rendering said roller rotating means ineffective.

2,351,780
METHOD OF ABSORBING SULPHUR DIOXIDE
George Victor Palmrose, Longview, Wash., assignor to Weyerhaeuser Timber Company, Tacoma, Wash., a corporation of Washington
Application April 1, 1941, Serial No. 386,254
10 Claims. (Cl. 23—130)



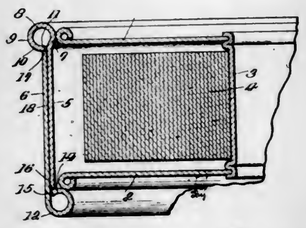
3. The method of producing magnesium bisulphite liquor by absorption of sulphur dioxide from gases containing a concentration of sulphur dioxide of the order of 1%, which comprises absorbing the sulphur dioxide in a clear liquor consisting of a water solution of magnesium monosulphite in magnesium bisulphite, under conditions such that the total amount of sulphur dioxide in the resulting solution is less than that required to combine with the total amount of magnesium present to form a true magnesium bisulphite solution, withdrawing a part of the resulting solution, dissolving magnesium oxide in the remainder of the solution, recirculating the clear solution for repeated absorption of sulphur dioxide, repeating the operation successively with the withdrawn part of the solution and gas containing higher proportions of sulphur dioxide, but not substantially exceeding a concentration of 1%, until a liquor of the desired concentration is obtained, and finally withdrawing substantially continuously a portion of that liquor.

2,351,781
TAPE DISPENSING CONTAINER
William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application April 26, 1943, Serial No. 484,632
5 Claims. (Cl. 206—56)



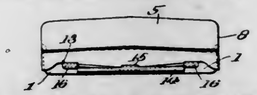
1. A container of the character described comprising a generally rectangular body for enclosing a tape supply and having sides ends a bottom and an open top defined by an outwardly turned bead, and a rectangular cover forming a removable closure for the open top of the body and having a skirt for embracing the upper beaded extremity of the body, said skirt having its lower edge serrated and extended slightly below said bead at one end of the cover to clamp the free end of the tape against the bead and provide a tape tearing edge, and at least portions of the skirt at its sides inwardly turned so as to engage the body bead with retaining friction.

2,351,782
SPOOL AND CONTAINER THEREFOR
William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application May 6, 1943, Serial No. 485,935
2 Claims. (Cl. 206—52)



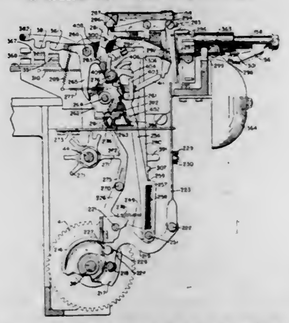
1. The combination of a spool having end heads, a container therefor comprising inner and outer cylindrical sections of fiber material partially telescoping one within the other and adhesively secured together, said outer section having a portion projecting beyond the end of the inner section and curled inwardly to form a hollow bead with the end of the curl abutting the inner wall of the outer section and in contact with the end of the inner section whereby said bead is restrained from uncurling, said inner section having a portion projecting beyond the end of the outer section which is curved outwardly and backwardly upon itself to form a hollow bead with the end of the curl abutting the outer wall of said inner section and in contact with the end of the outer section whereby said bead is restrained from uncurling, one of said spool heads being of a diameter so as to frictionally engage the wall of the inner section whereby said spool is frictionally held within the container.

2,351,783
SHEET METAL TABLET BOX
William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 10, 1943, Serial No. 490,360
1 Claim. (Cl. 220—36)



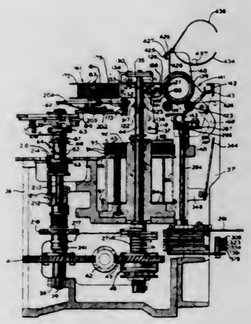
A sheet metal tablet box comprising a bottom portion having side walls and front and rear end walls, a cover portion having depending side walls and front and rear end walls embracing the side and end walls of the bottom portion in closed position, and a hinged connection between the rear walls of the cover portion and bottom portion including a relatively short outwardly and inwardly rolled hollow bead at the lower margin of the central portion of the rear wall of the cover, a yieldable hinge pin extending through said bead, said rear wall of the bottom portion being bent outwardly to form housings normally in alignment with the bead on the cover wall for the ends of the hinge pin, said housings being shaped so as to confine the ends of the hinge pin and spaced away from the bead on the cover wall so that the greater portion of the hinge pin lies between the bead on the cover and the housings and is unconfined and free to bend readily when the rear side of the cover portion is pressed upon and permit said rear portion of the cover to move downward, said side walls of the cover portion having inwardly extending lugs adapted to engage the upper edges of the side walls of the bottom portion, said lugs being disposed so that a downward movement of the rear side of the cover will raise the front side of the cover to facilitate the opening of the box.

2,351,784
PRINTING TELEGRAPH APPARATUS
Albert H. Reiber, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application May 4, 1936, Serial No. 77,796. Divided and this application June 14, 1941, Serial No. 398,074
6 Claims. (Cl. 197—89)



1. In a printing telegraph apparatus, a carriage movable for character spacing, a ratchet operable to move said carriage, a reciprocable pawl for operating said ratchet, means operable under predetermined conditions for rocking said pawl away from said ratchet, and yieldable means normally in the path of said pawl for holding said pawl away from said ratchet during reciprocation following the rocking thereof.

2,351,785
PRINTING TELEGRAPH APPARATUS
Albert H. Reiber, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application May 4, 1936, Serial No. 77,796. Divided and this application October 27, 1941, Serial No. 416,722
2 Claims. (Cl. 197—114)

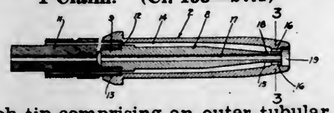


1. In a printing apparatus having a stationary frame, a type wheel, a rotatable shaft mounting said type wheel, permutation mechanism for controlling the rotation of said shaft, means carried by said shaft for selecting functional operations to be performed, function performing means, a line feed operating lever to be actuated by said function performing means, a platen carrier, means for moving said carrier relative to said type wheel to form character spaces, line feeding means movable with said carrier, a plate pivoted on said stationary frame for engaging said line feeding means in any position of said carriage, said plate provided with a depending extension, said extension having oscillatory movement imparted thereto incident to the pivotal operation of said plate, means for conditioning said function performing means to rock said plate to operate said line feeding means, spring actuated means associated with and operable independently of said line feed operating lever to latch said function performing means in its effective position to thus render said function performing means effective irrespective of the inertia effect incident to the rocking of said plate to assure the complete operation of said line feeding means, and anti-chatter means comprising a reciprocable spring and link articulation between said extension and said line feed operating lever conformed to compensate for the oscillatory and reciprocatory movements of said extension and said link, respectively.

2,351,786
TERPENE RESIN
Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 23, 1941, Serial No. 424,140
5 Claims. (Cl. 260—92.6)

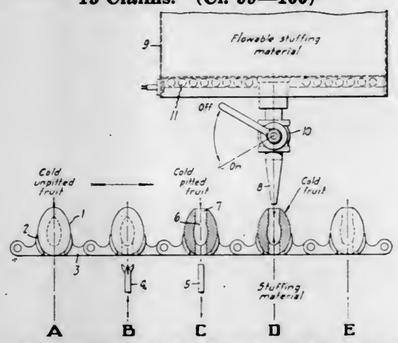
2. The process of producing a terpene polymer which comprises polymerizing an acyclic terpene in the presence of hydrogen fluoride, at a temperature between about —20° C. and about 200° C., until polymerization is substantially complete.

2,351,787
TORCH TIP
Elmer H. Smith, Minneapolis, Minn., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn., a corporation of Minnesota
Application July 31, 1941, Serial No. 404,849
1 Claim. (Cl. 158—27.4)



A torch tip comprising an outer tubular member having a restricted bore in one end, an inner member fitted within said tubular member and having a reduced cylindrical end portion fitting in said restricted bore, said inner member having a longitudinally disposed cutting gas passage therein, and the wall of said restricted bore having a plurality of V-shaped grooves therein, the wider sides of which are defined by the periphery of the reduced portion of said inner member fitting in said bore, said V-shaped grooves being parallel to and encircling said cutting gas passage and cooperating to provide a plurality of preheating fuel orifices from which a concentrated preheating flame may be projected.

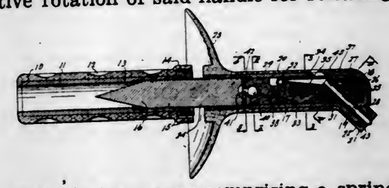
2,351,788
METHOD OF STUFFING FRUIT AND PRODUCT
Vernon R. Smith, Lindsay, Calif.
Application March 18, 1941, Serial No. 383,942
15 Claims. (Cl. 99—100)



1. The method of stuffing a pitted fruit that comprises the steps of: preparing a heated, flowable, and edible stuffing that includes therein a setting agent adapted to set said stuffing at a predetermined lowering in the temperature thereof; cooling the fruit to be stuffed to a temperature sufficiently lower than the temperature of said stuffing to effect, by heat transfer, a substantially immediate and complete setting of said stuffing, in each fruit, when such fruit is filled therewith; and then filling the pit-cavity in the fruit so cooled, to said latter temperature, with said heated stuffing, to cause said heat transfer, and thereby effect said substantially immediate and complete setting of the stuffing in the fruit.

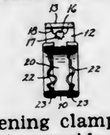
2,351,789
WELDING STINGER
George H. Thompson, Oakland, Calif.
Application June 30, 1943, Serial No. 492,956
3 Claims. (Cl. 219—8)

1. A welder's stinger, in combination, a handle and a chuck operatively connected, with said chuck operable through relative rotation of said handle in opposite directions for respectively gripping and releasing a welding rod, and ejector means operatively associated with said chuck for ejecting the stub of the welding rod through relative rotation of said handle for releasing the



rod; said ejector means comprising a spring retained under tension over the upper end of the welding rod when the rod is gripped, and released to eject the stub of the welding rod when said chuck is adjusted by relative rotation of said handle to release the stub.

2,351,790
SNAP CLAMP
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application November 2, 1942, Serial No. 464,315. Divided and this application May 5, 1943, Serial No. 485,713
2 Claims. (Cl. 248—74)



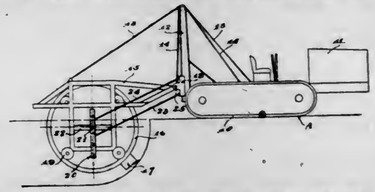
1. A snap fastening clamp comprising a strip of material bent to provide an open loop terminating in two overlapping arms, one of the arms having an opening therein for receiving fastening means for attaching it to a support, and the other of said arms having a notch therein extending longitudinally of said strip inwardly from the end edge thereof, said notch being adapted to receive said fastening means, and operating to provide for opening and closing of the loop by movement of the second arm with reference to the first arm in a straight line direction, while the first arm remains attached to said support.

2,351,791
ALLOY
Jacob Trantin, Jr., Youngstown, Ohio
No Drawing. Application January 5, 1942, Serial No. 425,665
2 Claims. (Cl. 75—125)

1. A ferrous alloy comprising about .8 per cent carbon, about 15.00 per cent chromium, about 7.50 per cent copper, about 4.0 per cent cobalt, about .75 per cent molybdenum, about .80 per cent silicon, about .25 per cent vanadium, about .60 per cent manganese, and the remainder substantially all iron, said alloy being characterized by wear-resistance, corrosion resistance, and freedom from hot metal scale pick-up.

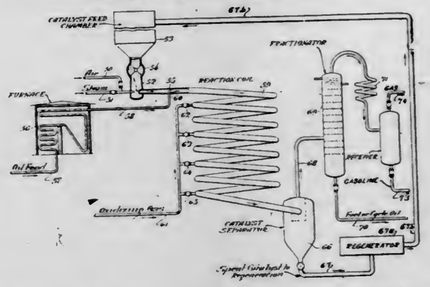
2,351,792
DEPTH INDICATOR FOR WHEEL TYPE TRENCHERS
William G. Van Voorhis, Columbus, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio
Application February 1, 1943, Serial No. 474,379
3 Claims. (Cl. 33—185)

1. The combination of a trenching machine having an upright rail at the rear end thereof, a slide movable along said rail, a digging wheel frame pivoted at its forward end to said slide, a digging wheel rotatable in said frame, a vertically disposed calibrated indicator strip pivoted



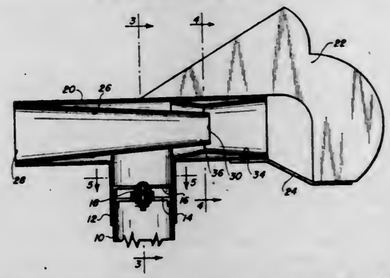
to said frame coaxially with said wheel, and means providing a connection between said strip and said slide for retaining said strip at right angles to the bottom of said trench in all angular positions of said frame relative to said slide.

2,351,79
CONVERSION OF HYDROCARBON OILS WITH CATALYSTS
Vanderveer Voorhees, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application July 31, 1940, Serial No. 348,710
13 Claims. (Cl. 196—52)



11. The process of controlling the oxidation of petroleum hydrocarbons in the vapor phase at conversion temperatures above about 750° F. which comprises conducting the oxidation by adding oxygen to said vapors at conversion temperature in the presence of finely divided, highly dispersed siliceous catalysts present to the extent of about ¼ to 6 times the weight of the hydrocarbon oil treated.

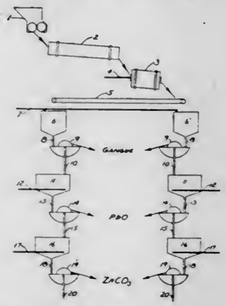
2,351,794
VENTILATOR
Charles J. Weller, Coulee City, Wash.
Application May 16, 1942, Serial No. 443,182
1 Claim. (Cl. 98—70)



A ventilator, comprising: an upright draft tube, a wind tube laterally disposed on the upper end

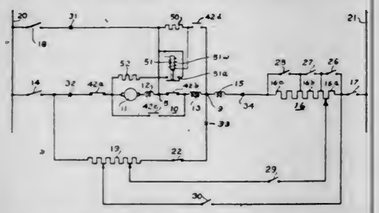
of the draft tube and in communication therewith, a wind nozzle in the windward end of the wind tube having its discharge end leeward from the point of communication between the draft and wind tubes, and a Venturi nozzle in said wind tube and having its smallest cross-sectional area to windward of the discharge end of the wind nozzle.

2,351,795
METHOD OF TREATING COMPLEX LEAD-ZINC ORES
Charles D. Wood, Huntington Park, Calif., assignor to Los Angeles Chemical Co., Los Angeles, Calif., a corporation of California
Application February 13, 1943, Serial No. 475,722
3 Claims. (Cl. 75—120)



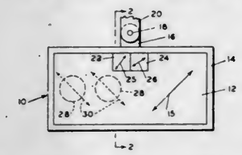
1. A method of treating ores containing lead and zinc in the form of carbonates and sulfides, comprising: roasting the ore to convert lead and zinc therein into oxides; subjecting the roasted ore to the action of an aqueous medium containing caustic soda, to form soluble lead and zinc compounds; separating insoluble gangue from the resulting solution; passing chlorine gas through the solution in amount sufficient to precipitate an oxide of lead therefrom; removing the precipitated lead oxide from the solution; and then carbonating the solution to form zinc carbonate and removing the zinc carbonate from the residual solution.

2,351,796
MOTOR CONTROL SYSTEM
David C. Wright, Euclid, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 30, 1942, Serial No. 436,780
24 Claims. (Cl. 172—152)



24. A control system for a dynamo electric machine having an armature winding and a field winding and adapted to be connected as a series and as a shunt machine, selectively, comprising in combination, a dynamic braking resistor, an armature shunt resistor, limit switch means for disconnecting said machine from its source at a predetermined limit of operation in one direction of rotation and completing a series dynamic braking circuit through said dynamic braking resistor, the field winding, and the armature winding of said machine, directional switching means for completing reverse power connections to said source from a point in the dynamic braking circuit between said armature winding and said dynamic braking resistor so that said machine is connected to said source with said dynamic braking resistor in parallel with a series connection including the armature winding and the series field winding, said limit switch means including means operable upon completion of said series dynamic braking circuit for connecting said armature shunt resistor in parallel with the armature winding of said machine, and said limit switch means being operable at said predetermined limit in the reverse direction of rotation of said motor for interrupting said armature shunt circuit and completing power connections from said machine to said source with said field winding in a parallel circuit with said armature winding.

2,351,797
ANTIGLARE DEVICE
Clinton J. T. Young, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application August 26, 1942, Serial No. 456,187
12 Claims. (Cl. 88—65)

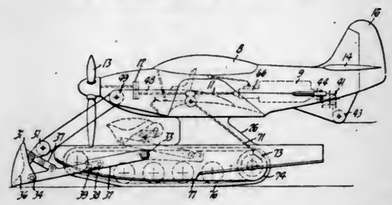


1. A visor for use in an automotive vehicle or the like comprising, in combination, transparent light-polarizing means adapted to block substantially all plane polarized light vibrating in a predetermined direction and incident thereon, supplemental light-transmitting means for indicating the vibration direction of plane polarized light incident on said visor and vibrating at an angle to said predetermined direction, said last named means comprising anisotropic means associated with said light-polarizing means and having the principal vibration direction thereof at a predetermined angle to the axis of said light-polarizing means, and means for so mounting said visor that it may be tipped to block substantially said last-mentioned plane polarized light.

2,351,798
COATING METAL ARTICLES
Peter P. Alexander, Marblehead, Mass.
No Drawing. Application August 14, 1941, Serial No. 406,908
7 Claims. (Cl. 117—22)

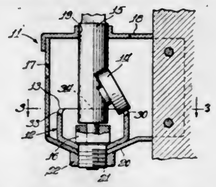
1. The process of coating a body at least the surface portions of which are formed of a metal which consists at least in part of copper with an alloy consisting at least in part of titanium which comprises, coating the surface of the body with a thin layer of the titanium hydride in powdered form, applying heat to the body and the powdered titanium hydride in an atmosphere of hydrogen and maintaining the temperature of the body and titanium metal above 878° C. but below the melting point of copper until the copper and titanium metal diffuse into one another and flow over the surface of the body.

2,351,799
BULLDOZER
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application October 3, 1942, Serial No. 460,707
7 Claims. (Cl. 37—144)



1. A bulldozer comprising an air frame adapted to run upon the ground and to fly in the air, a bulldozer blade, and means for mounting said bulldozer blade upon said air frame to move from a position ahead of the forward portion of said air frame and remote from the center of gravity thereof to a position behind the forward portion of said air frame and near the center of gravity thereof.

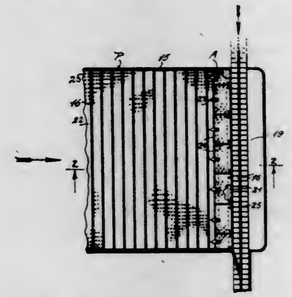
2,351,800
HINGE CONSTRUCTION FOR SWINGING DOORS
Arthur F. Baum and Axel H. Anderson, Elkhart, Ind., assignors to Henry Weis Manufacturing Company, Inc., Elkhart, Ind.
Application March 2, 1942, Serial No. 432,920
4 Claims. (Cl. 16—154)



2. In a hinge for mounting a swinging door member on a frame member, a cam coaxial with the hinge axis secured to one of the members and having a recess therein for receiving a bearing element secured to the other member to hold the door member in open position and having arcuate cam surfaces coaxial with the hinge axis and upwardly inclined from opposite sides of said recess and extending in opposite directions from said recess and around the hinge axis to adapt the hinge to doors opening with either a clockwise or a counter-clockwise swinging movement, a notch beyond the upper end of one of said inclined surfaces for receiving said bearing element to hold a clockwise opening door in closed position, and a notch beyond the upper end of the other inclined surface for receiving said bearing element to hold a counter-clockwise opening door in closed position.

2,351,801
BOTTLE TRANSFER FOR PASTEURIZERS
George F. Baumann, West Allis, Wis., assignor to Pabst Brewing Company, Milwaukee, Wis.
Application December 30, 1943, Serial No. 516,197
5 Claims. (Cl. 198—28)

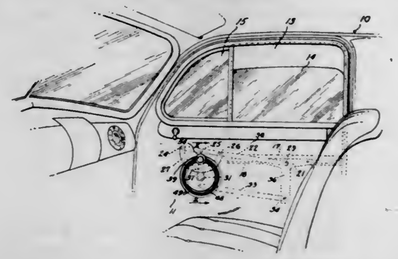
1. In a machine of the character described, a frame, a conveyor mounted in said frame including a plurality of flights having a substantially smooth outer face, a stripper plate secured at its outer edge to the frame and projecting over the conveyor and having a sharpened front leading edge resting flat on the smooth surface of the conveyor, and a guide shoe projecting forwardly beyond said leading edge and having a tapered leading guide point.



2,351,802
MINERAL WOOL TREATING MATERIAL
William M. Bergin, Granville, and Allen L. Simison, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, a corporation of Delaware
No Drawing. Application October 11, 1940, Serial No. 360,819
1 Claim. (Cl. 260—19)

A treating material for mineral fibers comprising a stable two-phase system, one of said phases being an aqueous phase in the form of a water solution of a water-soluble, oil-insoluble thermosetting, incompletely reacted aldehyde condensation product selected from the group consisting of phenol formaldehyde and urea formaldehyde in amounts of 1 to 3 parts of a 70% solution of said product in water, and the other phase being an oleaginous lubricant incompatible with the aldehyde condensation product and emulsified with the aqueous phase in amounts of about 1 part, water in amounts of about 8 to 10 parts, and an emulsifying agent for the oleaginous lubricant.

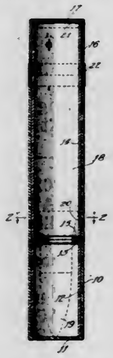
2,351,803
MOTOR VEHICLE
Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application April 21, 1939, Serial No. 269,204
7 Claims. (Cl. 296—44)



1. In a vehicle, a body having spaced inner and outer panels and a movable window glass, said inner panel being formed with an opening there-

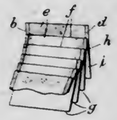
in, window regulating mechanism carried by one of said panels, an operating handle for said mechanism connected to move within the limits of said opening, a cover for said opening, means securing said cover to said inner panel, and means associated with said handle and said securing means for opening one part of said cover and closing another as said handle is moved.

2,351,804
CONTAINER
Jerome J. Blum, Olean, N. Y., assignor to The Fibre Forming Corporation, Olean, N. Y., a corporation of New York
Application April 10, 1942, Serial No. 438,460
3 Claims. (Cl. 206—3)



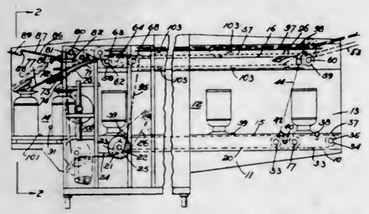
1. A waterproof, rigid, fibrous container comprising a tubular outer body portion having an integrally formed bottom, a relatively short tubular positioning and supporting member having an integrally formed radially inwardly extending annular top nested within said body portion, and a second tubular member telescopically engaged within said body portion in abutment with said annular top and projecting outwardly from the mouth of said body portion, and a cap having an integrally formed top in engagement with and extending over the outward projecting portion of said second tubular member, each of said portions being seamless and composed wholly of a rigid dense homogeneous combination of fibrous pulp and a thermoplastic binder.

2,351,805
SHEET TO MAKE BLANK, PRINTED, OR WRITTEN ENVELOPES AND THE LIKE
Claud Bonnaire, London, England
Application May 20, 1941, Serial No. 394,340
In Great Britain December 31, 1940
12 Claims. (Cl. 93—61)



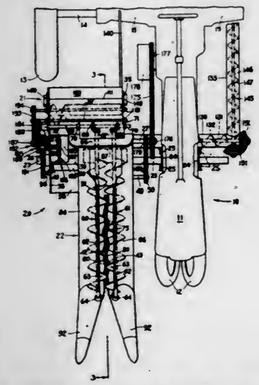
1. A method of manufacturing a pile of superposed, staggered and connected envelopes consisting in creasing a rectangular web of flexible material transversely to form a structure of pairs of alternating high and low rectangular elements, providing adhesive means at least along one of the lateral edges of the creased web, folding the web along the creases, whereby the said pairs of elements become superposed in a staggered manner, pressing the elements down to cause them to stick together at least along one of the lateral edges and to form superposed pockets staggered with respect to one another and providing with an adhesive the projecting portions of the high elements intended to serve as closure flaps.

2,351,806
COVER AND CAN HANDLING DEVICE
Willard S. Campbell, Hampshire, Ill., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill., a corporation of Delaware
Original application November 13, 1940, Serial No. 365,435. Divided and this application February 18, 1941, Serial No. 379,450
5 Claims. (Cl. 29—84)



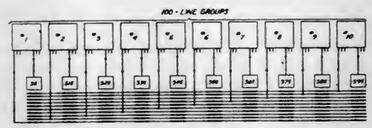
1. In a device of the class described, a frame having an exit opening, a platform attached to said frame beyond said exit opening, said platform adapted to support a can in upright position, a track attached to and within said frame, said track sloping downwardly through said exit opening, a power operated chain operable on said track, and a rack attached to said frame, said chain adapted to carry a cover for the can on the platform in horizontal position and to deliver the cover to said rack, said rack positioned above said platform and adapted to place the received cover onto the open mouth of said can.

2,351,807
CORN HARVESTER
Frank T. Court, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 23, 1941, Serial No. 394,807
17 Claims. (Cl. 56—18)



3. A harvester, comprising in combination, a tractor, a rigid frame supported on one side of the tractor ahead of the rear wheels by means providing for swinging movement about a transverse axis, a cylinder disposed transversely on said frame, a crop gatherer mounted rigidly on the frame, a grain trough under said cylinder generally parallel thereto, and a conveyor in said grain trough and extending laterally under the tractor to discharge the grain on the opposite side thereof.

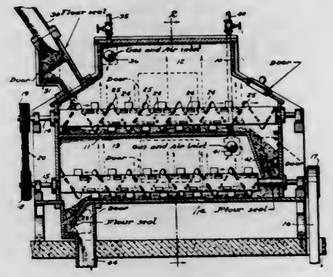
2,351,808
AUTOMATIC TELEPHONE SYSTEM
George R. Eaton, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application September 24, 1941, Serial No. 412,103
18 Claims. (Cl. 179—17)



1. In a switching system; large groups of lines; each large group being divided into small groups; groups of primary switching devices assigned respectively to said small groups of lines; each large group of lines having groups of secondary switching devices assigned thereto, the devices in each secondary group having access to a primary device in each of the primary groups assigned to the same large group of lines; each large group having link paths incoming respectively to secondary switching devices thereof, and having link paths outgoing respectively from secondary switching devices thereof; means responsive to a call being originated on any one of said lines for causing a connection to be extended therefrom, through an idle primary switching device assigned to the small group in which the calling line is located, and thence through an idle secondary device to an idle link path outgoing from the concerned large group; group-selecting means operable over the calling line for further extending the connection to an incoming link path of the large group containing the desired called line; means controlled over the calling line for indicating which small group in the called large group contains the desired called line, and for indicating which line therein is the desired called line; means responsive thereto for setting the secondary device reached over the last-named link path onto an idle primary device in the called small group, and for setting the last-named primary device on the desired called line.

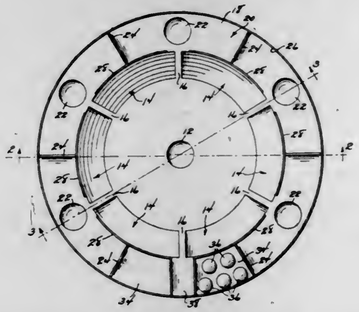
2,351,809
MULTIPLE FLOUR BLEACHING PROCESS
Charles G. Ferrari, Minneapolis, and Willis S. Hutchinson, St. Paul, Minn., assignors to General Mills, Inc., a corporation of Delaware
Original application August 16, 1940, Serial No. 352,910. Divided and this application May 10, 1943, Serial No. 486,444
2 Claims. (Cl. 99—232)

1. A process of bleaching flour products and other finely divided milled cereal products which comprises contacting said product, while agitated in a finely divided state, with nitrogen trichloride for a time sufficient to bleach said product



partially, and then contacting the thus partly treated product with nitrogen peroxide to bleach said product further.

2,351,810
GAME
James J. Fitzgerald, Pittsburgh, Pa.
Application October 27, 1942, Serial No. 463,509
4 Claims. (Cl. 273—115)

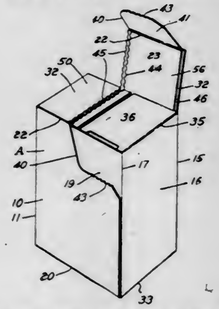


1. A game of the type described comprising a flat table for supporting free rolling game pieces, said table being of circular contour and having a centrally located depression, pits extending circumferentially about the perimeter of said table, stalls spaced circumferentially about said pits, bridges between said table and said stalls arranged radially with respect to said depression and separating said pits one from the other, and balls to be successively rolled onto said table and selectively into the respective stalls across said bridges.

2,351,811
PROCESS OF PREPARING FRITTED FOUNDATIONS FOR THE ENAMELING OF METALLIC ARTICLES
Karl Frank, Bad Soden in Taunus, Germany; vested in the Alien Property Custodian
No Drawing. Application April 19, 1938, Serial No. 202,907. In Germany April 22, 1937
2 Claims. (Cl. 204—38)

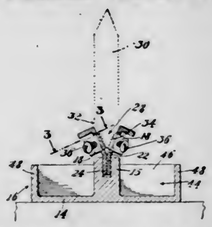
1. The process of preparing a metal article to receive a fused enamel coating which consists in first applying a porous waterproof and acidproof fritted foundation to the surface of the article and thereafter galvanically depositing a bonding metal upon the said metal surface through the pores of the fritted foundation.

2,351,812
PACKAGE
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application June 25, 1942, Serial No. 448,363
18 Claims. (Cl. 229—51)



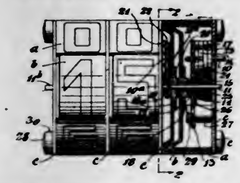
1. A package formed of a blank of sheet material comprising four substantially rectangularly arranged side walls, one of said side walls including a portion of double thickness, closing flaps on said side walls folding together to close an end of the package, a tab formed in the outer thickness of said double thickness wall at one extreme end of said blank and adjacent the associated closing flap, a portion of the free edge of the blank defining an edge of the tab, and a separable line of connection extending across said associated closing flap terminating at an end of said tab.

2,351,813
SHARPENING DEVICE
John Holtzman, New York, N. Y., assignor of one-half to Irving F. Goodfriend, New York, N. Y.
Application May 16, 1942, Serial No. 443,273
4 Claims. (Cl. 120—90)



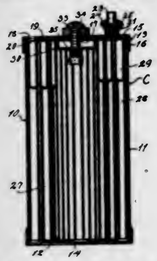
2. In a sharpening device for a tailor's crayon or chalk of a relatively oblong shape and having a beveled V-shaped marking edge comprising two similar members, each member having a lower portion and an upper portion extending therefrom at an angle thereto, said lower portion secured together to form a supporting base, said upper portions forming a V-shaped guideway for moving the crayon or chalk therethrough to sharpen a V-shaped edge thereon, said upper portions each having an opening therein and a boss for carrying a sharpener blade extending therefrom on each upper portion at the rear of the opening on the outside of the guideway and at an angle to the lower portion corresponding to that of the upper portion to said lower portion, said boss having a surface inclined toward the guideway from the rear of the boss to the rear edge of the opening; sharpener blades each having a beveled cutting edge and an elongated slot, and threaded means extending through the slot for securing a blade on the surface of a said boss with the blade cutting edge positioned in the guideway at the rear edge of the opening and the bevel of the cutting edge inclined away from the guideway toward the rear thereof.

2,351,814
CYCLOMETER CLOCK
Adolf Holzner, Merrick, N. Y.
Application October 30, 1939, Serial No. 301,971
25 Claims. (Cl. 58—125)



1. A counter comprising a set of nested number wheels, said set having an inner and an outer number wheel for the purpose of presenting large numerals, the numerals 0 to 9 inclusive distributed on the two wheels, as to present the numerals 1 2 3 4 5 on the inside wheel, and the numerals 6 7 8 9 0 on the outside wheel, said outside wheel having an opening of the same size as these numerals, and a means for displaying one numeral at a time.

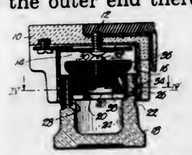
2,351,815
DRILL CONTAINER
William Jensen, Delavan, Wis., assignor to John Burbridge, Kenosha, Wis.
Application January 28, 1943, Serial No. 473,817
4 Claims. (Cl. 206—17)



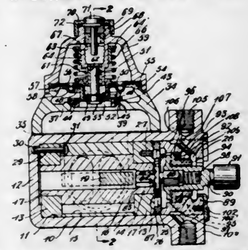
1. A drill container comprising an outer case including a rotatable cap having dispensing openings therein, a core fitted within said container provided with a plurality of longitudinally extending pockets for receiving drills of different sizes, a dispensing plate rotatably carried by the cap having dispensing openings, means for turning the plate on the cap for bringing a selected opening in the plate in alignment with a selected opening in the cap, means for latching the plate in the selected position to the cap, whereby the plate and cap can be turned as a unit to align the selected openings with a selected pocket in the core.

2,351,816
RENEWABLE FUSE PLUG
Harry F. Johns, Kansas City, Mo., assignor to Velma V. Johns
Application March 5, 1942, Serial No. 433,425
3 Claims. (Cl. 200—130)

1. A fuse plug assembly of the character described, adapted for insertion into a socketed fuse block, comprising in combination a socketed body having means for securing the plug assembly in place; a contact finger adjacent to the inner face of the body and within the socket; an insert of substantially circular cross section frictionally held within the socket of the body having a contact point on the outer end thereof for engagement with a contact of the fuse block when the plug assembly is mounted in said block; a conductor leading from the contact point of the insert to the periphery thereof; and a fusible link frictionally held between the insert and body for bridging the space between said conductor and contact finger.

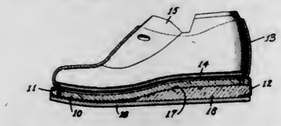


2,351,817
FUEL PUMP
James P. Johnson, Shaker Heights, Ohio
Application October 10, 1940, Serial No. 360,629
8 Claims. (Cl. 103—42)



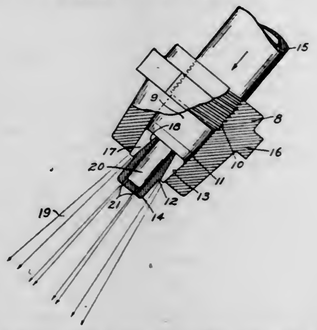
1. A fuel pump comprising: a housing having a fuel inlet opening and a fuel outlet opening therein; pumping means in said housing for drawing fuel into said inlet opening and discharging the same under pressure from said outlet opening; and fuel relief means affording return of excess fuel from said outlet opening to said inlet opening through a communicating passageway in said housing including, a valve member movably mounted in said housing and having a valve head operatively associated with said return passageway for controlling the flow of fuel therethrough, said valve member being further provided with a pair of laterally extending circumferential flanges disposed relatively in axial spaced relation; a pair of annular members mounted on said housing and having their inner marginal portions in axial spaced relation relatively, the inner peripheral edge of the outer annular member being in closely spaced relation with respect to the outer peripheral edge of the outer flange; a flexible annular shaped diaphragm of impervious material having its inner marginal portion secured between the adjacent spaced flanges and its outer marginal portion secured between the adjacent spaced annular members, the intermediate portion having an inwardly extending loop of relative larger size than the spacing between the adjacent edges of the outer annular member and outer flange to prevent reversal thereof, the looped portion effectively sealing the outer side of the return passageway and affording improvement of said valve member; the effective pressure area of said valve head being substantially equal to the effective area of said flanges for substantially balancing said valve member regardless of pressure conditions existing at the inlet opening to which both are subjected; resilient means mounted in said housing and operatively associated with said valve member for pre-loading the same whereby said valve head is normally maintained in closed position; and means for varying the pre-loading effected by said resilient means.

2,351,818
SHOE OR SIMILAR ARTICLE
William H. Joyce, Jr., Pasadena, Calif., assignor to Joyce, Inc., Pasadena, Calif., a corporation of California
Application April 22, 1942, Serial No. 440,066
4 Claims. (Cl. 36—19.5)



1. A shoe or slipper comprising an upper with the lower edges turned under an insole and secured thereto, a midsole substantially coextensive with the area of the insole and secured to the upper, the midsole and means of attaching it to the upper comprising a preformed pad of cushioning material, an edge covering of material around the toe portion of the pad with the upper and lower edges of the covering turned in over the upper and lower surfaces respectively of the pad and stitched through said pad, an edge covering of material around the heel portion of the pad wide enough to also cover a heel raise and secured against the upper surface only of the heel portion of the pad, the pad being stitched through the body thereof a second time and through the inturned lower edge of the upper and the insole to attach the midsole to the upper, a heel lift positioned against the lower surface of the heel portion of the pad, the edge covering around the heel lift being turned down around same and the lower edges turned in and secured to the lower marginal surface thereof, and an outsole attached to the lower surface of the midsole.

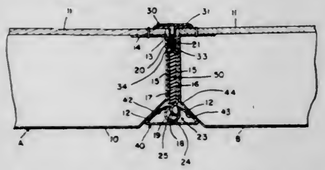
2,351,819
SHOWER HEAD
Julius S. Judell, Shorewood, Wis., assignor to Milwaukee Flush Valve Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 27, 1943, Serial No. 480,730
1 Claim. (Cl. 299—141)



In a spray head, an annular casing having a liquid inlet at one end and a convergingly

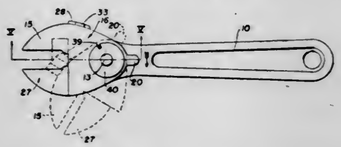
tapered outlet at its opposite end, and a similarly tapered peripherally grooved plug loosely fitting the taper of said casing outlet and pressed thereagainst only by the liquid admitted to said casing inlet, the peripheral grooves of said plug being of uniform transverse width throughout their lengths but having larger cross-sectional area at their inlet ends than at the outlet ends thereof.

2,351,820
STEEL HOUSE CONSTRUCTION
Homer G. Kellogg, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application April 2, 1943, Serial No. 481,613
4 Claims. (Cl. 189—34)



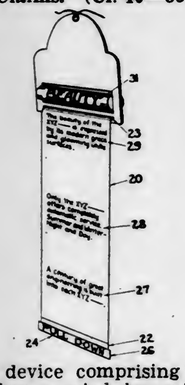
1. A joint of the class described comprising adjacent preformed sections, a hinge connection between said sections including hinge strips secured to opposed portions of said sections, said strips being provided at one side of said sections with interlocking hinge elements providing a hinge joint and provided at the other side of said sections with substantially contacting inwardly offset edge portions, and means cooperating with the hinge joint to hold the sections in assembled relation including a molding strip having a head overlapping and concealing the joint between the sections and having a bifurcated stem extending between said sections and straddling the contacting edge portions of said hinge strips.

2,351,821
HAND TOOL
John V. Larson, Chicago, Ill.
Application April 6, 1942, Serial No. 437,809
3 Claims. (Cl. 81—127)



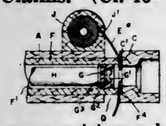
1. A hand tool comprising a handle member, oppositely projecting jaw pivots extending from one end of said handle member, confronting jaw plates mounted on said pivots to swing relative to said handle member, complemental means between said jaw plates and said handle member for maintaining said confronting jaw plates in rigid spaced relation, a fixed jaw on said plates, a movable jaw opposed to said fixed jaw and slidably disposed between said confronting jaw plates, inter-engaging gear teeth on said handle member and movable jaw to effect relative jaw displacement responsive to imparting movement to said handle member relative to said jaws, spring means enveloping one of said jaw pivots, an apertured disc cooperating with said last named pivot to encase said spring means against an adjacent jaw plate, and a depending nib on said disc to anchor one end of said spring means, the other end of said spring means being anchored to said last named pivot, there being an aperture in one of said jaw plates to receive said disc nib to anchor said disc and engaging spring extremity against displacement and to maintain a predetermined tension in said spring means.

2,351,822
DISPLAY DEVICE
Norman E. Lauterbach, Newark, N. Y.
Application May 13, 1941, Serial No. 393,203
3 Claims. (Cl. 40—85)



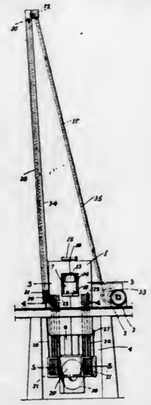
1. A display device comprising a support, a rotatable member carried by said support, a sheet of material having one end attached to said member its intermediate portions wound upon said member and its other end free, and means for normally maintaining said sheet in wound condition on said member, said sheet having written advertising matter on the forward side thereof and a heading for the advertising matter on the opposite side thereof, said heading being spaced toward the attached end of the sheet from the advertising matter and being in upside down relation thereto, and means in connection with the support for bringing the heading and the advertising matter into a substantially common plane as the sheet is unwound so that the heading and the advertising matter may be conveniently read together.

2,351,823
POPGUN
Charles F. Lefever, Plymouth, Mich., assignor to Daisy Manufacturing Company, Plymouth, Mich., a corporation of Michigan
Application April 24, 1943, Serial No. 484,411
6 Claims. (Cl. 46—194)



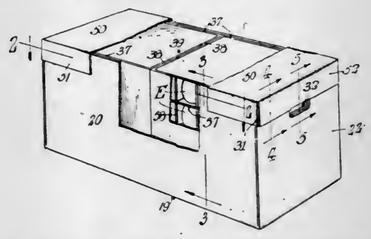
1. A pop gun comprising a barrel transversely slotted for the passage of a paper strip therethrough, an annular seat or shoulder within said barrel forward of said slot, a sleeve movable within the rear portion of said barrel constituting an air chamber and adapted when moved forward to press said paper strip against said seat sealing the forward end of said air chamber, a piston within said air chamber and a piston rod for actuating the same extending out from the rear end of said sleeve and barrel, adapted when moved forward to compress the air within said chamber and rupture the strip.

2,351,824
CABLE OPERATED PRESS
Robert Gilmore Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Application February 2, 1942, Serial No. 429,178
7 Claims. (Cl. 100—70)



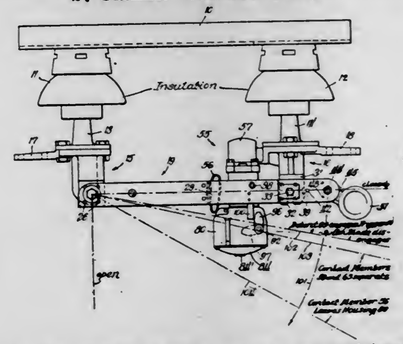
1. In a power press which includes a body, a plunger slidably mounted thereon, and power means to advance the plunger; said means comprising a cross member on the plunger some distance from its head, a pair of block and tackle units connected between opposite ends of the cross member and corresponding points on the body, said units being in series and including a single cable, a change over pulley journaled on the cross member and about which pulley the cable passes in guided relation between the units, means dead ending one end of the cable adjacent one unit, the other end of the cable extending from the other unit, and a power source connected with said other end of the cable in pulling relation.

2,351,825
SHIPPING CASE
John K. Limbert, Waterloo, Iowa, assignor to Central Fibre Products Company Inc., Chicago, Ill., a corporation of Delaware
Application January 22, 1943, Serial No. 473,205
9 Claims. (Cl. 229—45)



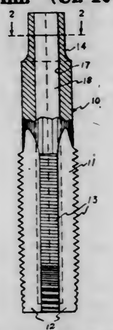
1. A shipping case embodying therein an open top rectangular body of sheet material formed to provide a bottom and pairs of upright end and side walls for the body, the upright walls of one of said pairs being composed of a plurality of layers which are a part of a single piece of material and which include an outer layer, spacing means positioned upon the outer surface of the upper portion of said outer layer, a layer inwardly of the outer layer including a part folded over to cover said upper portion of said outer layer and said spacing means, said folded over part of said layer inwardly of the outer layer, at each side extending laterally beyond said spacing means to form a downwardly opening space at each side of said spacing means to receive parts of the cover for the case, and means for securing said layers and said folded over part together in operative relation.

2,351,826
SWITCH CONSTRUCTION
Sigurd I. Lindell and Anthony Van Ryan, Chicago, Ill., assignors to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application August 2, 1940, Serial No. 349,898
27 Claims. (Cl. 200—146)



1. Load break switch means comprising, in combination, a pair of relatively movable switch members, a load break device carried by one switch member and adapted to be engaged by the other switch member prior to engagement or disengagement of said switch members, means for closing the circuit between said switch members through said load break device on predetermined relative movement of said switch members toward each other and for opening said circuit within said load break device on predetermined relative movement of said switch members away from each other, and means carried by and movable with said other switch member for preventing independent operation of said load break device when said switch members are in engagement.

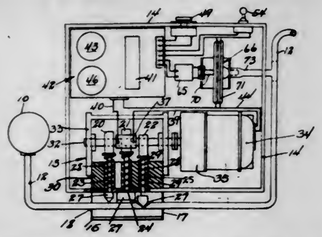
2,351,827
CUTTING TOOL
Joseph S. McAllister, Ann Arbor, Mich.
Application November 9, 1942, Serial No. 465,040
1 Claim. (Cl. 10—141)



A tool comprising a shank having a bore polygonally shaped in cross section and extending

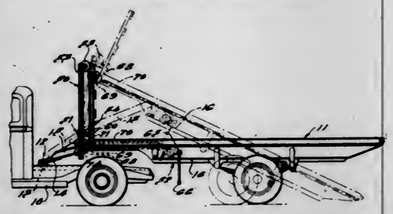
axially of the shank, cutting surfaces on the shank surrounding the bore, and a core composed of relatively tough metal, said core corresponding in cross sectional area to the cross sectional area of the bore and tightly fitted and supported within the bore.

2,351,828
SURGICAL PUMP
Jack C. Marsh, Pittsburgh, Pa., assignor to G. L. Meyers and G. H. Drumheller, Jr., both of Aspinwall, Pa.
Application January 8, 1942, Serial No. 425,999
5 Claims. (Cl. 103—148)



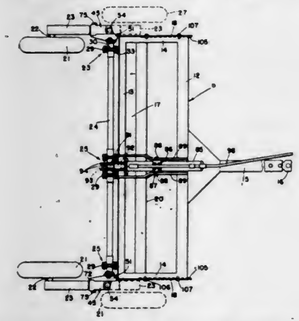
1. A pumping apparatus for medical treatments comprising a constant speed motor, a plurality of cam elements operated by the motor, a plurality of fingers actuated by the cams, in a predetermined sequence, an elastic tube adapted to be compressed by the fingers, an electrical time control for controlling the action of the pump and means connected with the time control for regulating the delivery rate of the pump.

2,351,829
VEHICLE CONSTRUCTION
Nugent Milner, Dearborn, Mich., assignor by mesne assignments, to himself and Sarah Ann Milner
Application July 1, 1940, Serial No. 343,329
10 Claims. (Cl. 280—33.1)



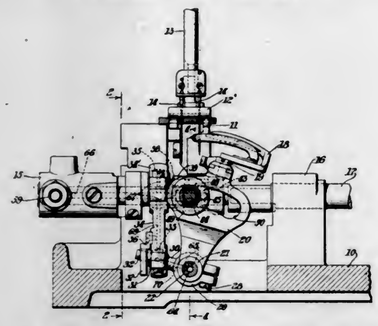
1. A semi-trailer comprising fixed frame members, a body frame secured to said frame members, supporting wheels connected with said frame members adjacent one end thereof, swinging frame members pivotally connected to the opposite ends of said fixed frame members and extending forwardly of the body frame secured to said fixed frame members, a hoist carried by said swinging frame members and operably connected with the forward end of said body frame to selectively support the forward end of the trailer when uncoupled from the tractor or to elevate the forward end of the body of said trailer relative to said swinging frame members and to effect pivotal movement thereof about their points of pivotal connection with said fixed frame members, and means for selectively locking said hoist to the body frame or to the swinging frame members to maintain said trailer in the desired position.

2,351,830
GROUND WORKING IMPLEMENT
Rollie H. Mitchell, Huntington Park, and William R. McKay, Compton, Calif., assignors to Killefer Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application August 6, 1942, Serial No. 453,908
18 Claims. (Cl. 37—169)



1. In an implement of the class described comprising a frame, means for supporting one end of said frame, a rockable member mounted at the other end of said frame, and means for rocking said member, the combination of a wheel supporting arm, means swingably connecting said arm to said member providing for swinging movement laterally outwardly of said implement between a position adjacent the side of said implement and a trailing position behind said implement, and means for rigidly securing said arm relative to said rockable member in either of said positions, said implement being shiftable vertically between operating position and transport position in either position of said arm, by rocking said member.

2,351,831
SEWING MACHINE LOOPER MECHANISM
Edward Muecke, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 23, 1943, Serial No. 476,831
8 Claims. (Cl. 112—200)



1. In a sewing machine looper-actuating mechanism having a main-shaft, an actuating member and an eccentric mounted upon said main-shaft, an arbor disposed transversely of said main-shaft, a looper-carrier slidingly and pivotally mounted upon said arbor, a looper mounted upon said carrier and having a blade confined to parallelism with a fixed plane, and a connection between said actuating member and said looper-carrier for rocking the latter about said arbor; the improvement which comprises the provision of a pitman of which one end is connected directly with said eccentric, the body of said pitman being disposed, when in a dead center position in parallelism with said arbor and the other end thereof being connected to said looper-carrier for sliding the same lengthwise of said arbor.

2,351,832
DEODORIZED OIL
Ralph H. Neal, Jersey City, N. J., assignor, by mesne assignments, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application January 8, 1941, Serial No. 373,604
9 Claims. (Cl. 260—409)

1. A method for deodorizing an alkali refined glyceride oil of the class consisting of soya bean oil, linseed oil and sunflower oil, comprising passing dry steam through the oil while maintained at a temperature within the range of about 250 to 350° C. under an absolute pressure of less than 20 mm. of mercury to remove about 30 to 60% of the unsaponifiable matter in the oil.

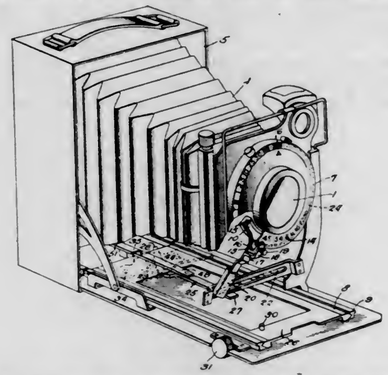
6. A method for preparing an edible oil from soya bean oil, comprising subjecting the oil to an alkali refining to reduce the free fatty acids to about .01 to .10%, separating the soap resulting therefrom, bleaching the oil, hydrogenating it in the presence of a metallic catalyst, cooling to below about 90° C., separating the catalyst, and passing dry steam through the oil for at least about 2 hours while maintaining it at a temperature of about 250 to 275° C., and under a reduced pressure of about 5 to 10 mm. of mercury.

2,351,833
N(ALKYL,β-4-MORPHOLYLALKYL) AMINOALKANOL ESTERS
Elmore Hathaway Northey and Martin Everett Hultquist, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 8, 1942, Serial No. 438,115
6 Claims. (Cl. 260—247)

1. A chemical compound selected from the group consisting of the esters of a carbocylic-substituted aliphatic carboxylic acid and an N(alkyl,-beta-4-morpholylalkyl) aminoalkanol and the water-soluble salts and quaternary salts of the esters.

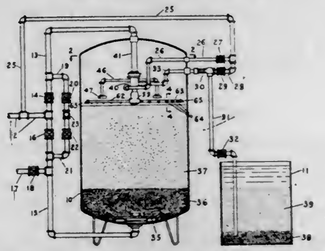
2,351,834
PHOTOFLASH PHOTOGRAPHY CAMERA
Chandler A. Phillips, Blackwell, Okla.
Application May 2, 1940, Serial No. 333,038
14 Claims. (Cl. 95—64)

9. A photoflash photography camera having a lens and an adjustable diaphragm, means for manually focusing said lens, means for adjusting the aperture of said diaphragm, said diaphragm aperture being normally relatively wide open for long distance focus of said lens, means interconnecting said lens focusing means and said diaphragm aperture adjusting means whereby the diaphragm aperture is decreased in size from said relatively wide open condition as said lens is focused for shorter distances, said interconnecting means including an inverse ratio motion transmitting means whereby movement of said lens adjustment means from long distance to short distance focus effects a progressive decrease in size of said diaphragm aperture with a progressively diminishing rate of movement of



said diaphragm adjusting means per unit of movement of said lens focusing means.

2,351,835
WATER TREATING APPARATUS
Eric Pick, New York, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
Application June 4, 1942, Serial No. 445,698
6 Claims. (Cl. 210—24)

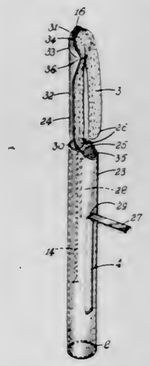


1. A water treating apparatus comprising a tank containing a bed of granular water treatment material and having valved inlet and outlet pipes communicating with said tank on opposite sides of the bed, one of said pipes extending through the top of said tank, deflector means for alternately distributing water received from an outside source and collecting water and discharging it to waste, mounted within said tank adjacent the end of said one pipe, a fitting attached to said means, and a rotary surface washer comprising a stator supported on said fitting, a connection extending from said inlet pipe through said fitting to said stator, and a rotor rotatably mounted on said stator and provided with means for causing said rotor to rotate and for agitating said bed, said last named means comprising pipe arms extending laterally from said rotor and nozzles mounted on one side of each of said pipe arms.

2,351,836
VAGINAL PACK DEVICE
Otto Popper, Johannesburg, Transvaal, Union of South Africa
Application March 24, 1941, Serial No. 385,021
In the Union of South Africa October 18, 1938
11 Claims. (Cl. 128—285)

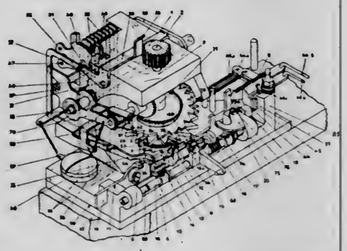
1. A vaginal pack applicator comprising a smooth-surfaced pack-enclosing member adapted

to contain a pack at its proximal end and also adapted to be stripped from the pack by digital traction exerted on its distal end, and a pack-detaining member comprising a portion adapted to make contact with the distal end of the pack and thereby retain the pack while the pack-enclosing member is stripped from it, and comprising also a digit-contacting portion and



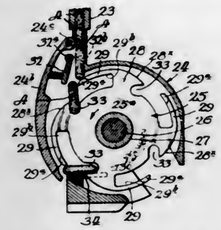
a spacing portion extending in the direction of the length of the applicator and connecting said first mentioned two portions while spacing them, said pack-detaining member further comprising a portion extending beyond the proximal end of the pack-enclosing member and being there formed as a head shaped to facilitate insertion of the applicator into the vagina.

2,351,837
ESCAPEMENT MECHANISM FOR TYPEWRITERS
Giuseppe Prezioso, Yverdon, Switzerland, assignor to E. Paillard et Cie S. A., Yverdon, Switzerland, a corporation of Switzerland
Application August 7, 1941, Serial No. 405,875
In Switzerland February 6, 1941
5 Claims. (Cl. 197—88)



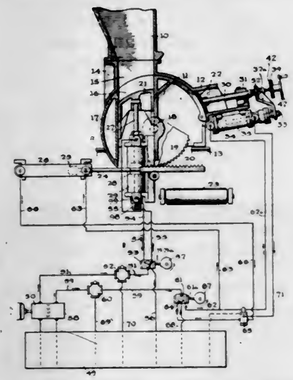
1. In an escapement unit, a frame, a pinion shaft rotatably mounted on said frame, a driven pinion keyed on said shaft, an escapement ratchet wheel having teeth with edges oblique to the radiun thereof, a retaining ratchet wheel having teeth with edges substantially radial, and an escapement pawl and a retaining pawl mounted independently on individual pivots and adapted to respectively engage said teeth of said ratchet wheels, said pawls being so arranged and operated that said escapement pawl normally engages said escapement ratchet wheel before said retaining pawl is released from said retaining ratchet wheel.

2,351,838
ARTICLE-CONVEYING MECHANISM
Lawrence J. Saladin, Chicago, Ill., assignor to Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware
Original application July 28, 1941, Serial No. 404,260. Divided and this application June 1, 1942, Serial No. 445,297
15 Claims. (Cl. 198—24)



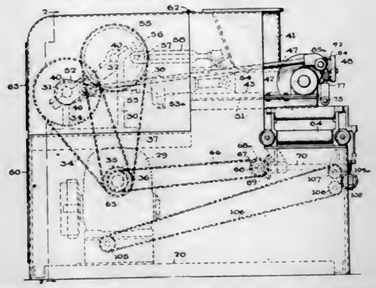
1. In a machine for wrapping sticks, means for intermittently feeding said sticks endwise, a casing disposed in a vertical plane at right angles to the plane of feed of said sticks and being provided with an inlet opening, a horizontal shelf spaced below said inlet opening, a rotary transfer disc intermittently rotatable upon a horizontal axis in said casing adapted to transfer a stick delivered at said inlet opening to rest upon said shelf, aligned openings in the opposite walls of said casing in the plane of said horizontal shelf, and an intermittently operating plunger acting in line with said last named openings and in timed relation to the intermitent rotation of said transfer disc to discharge a piece from said shelf through one of said openings.

2,351,839
DOUGH DIVIDER
Charles B. Seem, Beacon, N. Y., assignor to Dutchess Tool Company, Inc., Beacon, N. Y., a corporation of New York
Application May 18, 1943, Serial No. 487,508
21 Claims. (Cl. 107—15)



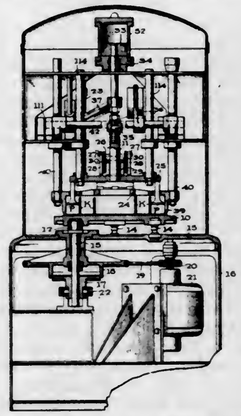
2. In a dough divider, the combination of a hopper having a discharge opening, a series of scaling pockets, a movable transfer head having a dough compartment therein, means for moving said head to alternately position said compartment in registry with said hopper opening and said pockets, means for forcing dough from said compartment into said pockets, and means for discharging the dough from said pockets.

2,351,840
DOUGH DIVIDER
Charles B. Seem, Beacon, N. Y., assignor to Dutchess Tool Company, Inc., Beacon, N. Y., a corporation of New York
Application June 11, 1943, Serial No. 490,497
13 Claims. (Cl. 107—15)



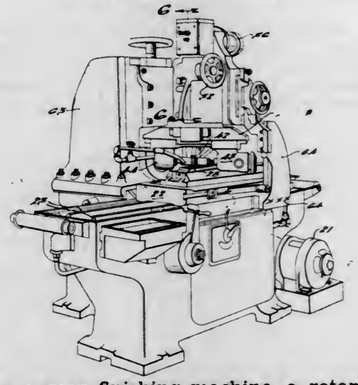
1. In a dough divider comprising a hopper, a compression box in which dough is deposited from said hopper, a divider head and a plunger for forcing dough from said box into said head, the combination of means for reciprocating said plunger comprising a tubular section having a fluid therein and a second section having a piston thereon slidable in said tubular section, and means for by-passing fluid in the tubular section from the front of said piston to the rear thereof when a predetermined pressure is exerted on dough in the compression box by said plunger.

2,351,841
DOUGH DIVIDER AND ROUNDER
Charles B. Seem, Beacon, N. Y., assignor to Dutchess Tool Company, Inc., Beacon, N. Y., a corporation of New York
Application July 27, 1943, Serial No. 496,315
11 Claims. (Cl. 107—20)



1. In a dough divider and rounder comprising a dough supporting surface, a divider head having presser blocks and knives for pressing and dividing a mass of dough on said surface, and fluid actuated means for raising and lowering said head, the combination of a ring for confining the mass of dough on said surface, means for moving said ring vertically with respect to said surface, and means responsive to the movements of said ring for controlling the operation of said fluid actuated means by which the head is raised and lowered.

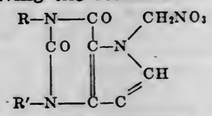
2,351,842
GEAR GRINDING MACHINE
Paul F. Seibold, Newport, Mich., assignor to Michigan Tool Company, Detroit, Mich., a corporation of Delaware
Application April 19, 1940, Serial No. 330,570
14 Claims. (Cl. 51—60)



1. In a gear finishing machine, a rotary tool having a series of teeth, the surfaces of which are formed from an abrading material, means for mounting a gear to be finished with its axis in crossed relation to the axis of said tool when the teeth thereof are in meshed relation, means for relatively rotating said gear and tool and means for relatively vibrating said tool substantially normal to the directions of rotation of the tool and gear at a speed to produce a grinding operation which is spread over the teeth of the flanks by said rotation.

2,351,843
NITRATE ESTERS OF XANTHINE DERIVATIVES AND PROCESS OF MAKING THEM
John H. Speer, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application March 6, 1942, Serial No. 433,638
4 Claims. (Cl. 260—256)

1. A new composition of matter consisting of the nitrate esters of 1,3-dialkyl-7-hydroxymethyl xanthines having the formula:



wherein R and R′ each represent an alkyl group containing not more than four carbon atoms.

3. A process for preparing the nitrate esters of 1,3 - dialkyl - 7 - hydroxymethyl xanthines, which process comprises the step of causing silver nitrate to react upon a 1,3-dialkyl-7-chloromethyl xanthine.

2,351,844
CHLOROCAFFEINE NITRATE AND NITRITE AND PROCESS OF MAKING THEM
John H. Speer, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application March 6, 1942, Serial No. 433,639
6 Claims. (Cl. 260—256)

1. A new composition of matter consisting of a member of the group including the nitrate and nitrite esters of 7¹-hydroxy-8-chlorocaffeine.

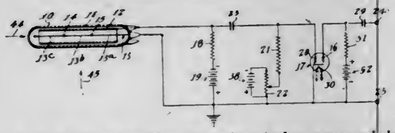
4. A process for manufacturing the esters of 7¹-hydroxy-8-chlorocaffeine with a nitrogen oxy-acid, which process comprises the step of causing the silver salt of the nitrogen oxy-acid to react with 7:8-dichlorocaffeine.

2,351,845

DIRECTIONAL GEIGER COUNTER

Horton G. Stever, Arlington, Mass., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California

Application July 21, 1941, Serial No. 403,253
6 Claims. (Cl. 250—83.6)



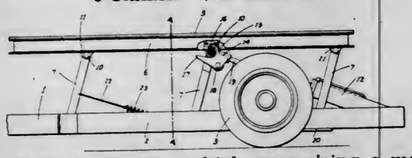
1. A Geiger-Mueller counter tube comprising a pair of elongated, parallel, uniformly spaced apart electrodes in a gas atmosphere, in which one of said electrodes is a cathode and the other is an anode, and the anode is separated into a plurality of sections by a band of electrically insulating material extending there-around.

2,351,846

ELEVATING BED VEHICLE

Lowell C. Swim and Claud H. Williams, Modesto, Calif.

Application May 22, 1943, Serial No. 488,050
6 Claims. (Cl. 254—2)



1. A load carrying vehicle comprising a main wheel mounted frame, a vertically movable load carrying bed above said frame and including a frame, longitudinally spaced pairs of links between the frame, said links being pivoted at their lower end on the main frame and at their upper end on the bed frame and being disposed in a substantially horizontal position when the bed frame is fully lowered, a cross member connecting one pair of links at their upper end, and having an element thereon, a power cylinder pivoted on the main frame and extending lengthwise thereof, a piston rod projecting from the cylinder toward the cross member from a direction opposite the lower end of said one pair of links, a cross head on the piston rod having a portion engageable with the element and means between the crosshead element and main frame to cause the initial advance of the piston rod to exert a direct upward pressure on the cross member before the element is engaged by said crosshead portion and the longitudinal pressure of the piston rod is exerted thereon.

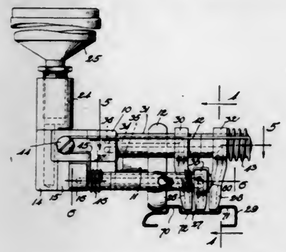
2,351,847

STRIPING INSTRUMENT

August J. Tegethoff, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application March 11, 1942, Serial No. 434,167
7 Claims. (Cl. 91—62.5)

3. A striping instrument comprising a body having a recess at one side, a series of plates secured in the body recess, pump means housed by said plates, a source of striping fluid communicating with said pump means, a staff fixed to the forward end of one of said plates, a nozzle pivotally mounted on said staff, a fluid



connection between the pump means and the nozzle passing through the staff and the plate to which it is fixed, spring means exerting downward pressure against the nozzle, and means limiting downward movement of the nozzle.

2,351,848

BREAKER TIMING

Edward A. Vogel, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Original application May 7, 1941, Serial No. 392,312. Divided and this application November 9, 1942, Serial No. 465,011
1 Claim. (Cl. 200—80)



An automatic control device of the character described for a cam-actuated ignition circuit interrupter, the device comprising a rotatable shaft provided with an axial recess in one end and having opposite transverse slots communicating with the inner end portion of the shaft recess, a spindle rotatably received in said shaft recess and formed on its outer end to provide an interrupter actuating cam, a disc having a hub portion fixed to said shaft, opposed weight elements mounted on the disc for swinging movement responsively to centrifugal force, a pin projected through said spindle and laterally therefrom through said shaft slots, said slots each being of an extent to permit movement of the pin projecting therethrough for affording a limited relative rotation of the shaft and spindle, a link element pivotally connected to the free end of each weight element and to one end of said pin, and a spring between said disc hub and each link element, effective to load the associated weight element.

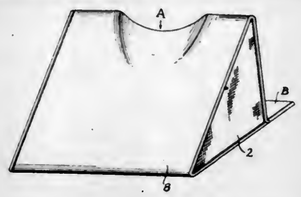
2,351,849

SHAMPOO PILLOW

Sheldon Holt Wells and Ida May Wells, Los Angeles, Calif.

Application June 17, 1942, Serial No. 447,336
3 Claims. (Cl. 4—159)

1. A shampoo pillow which, when operatively stationed upon a horizontal surface, has an inclined front face, an upstanding rear face, a basal face, polygonal end portions uniting said faces at each end of the pillow, said pillow also having in the midlength portion only of the



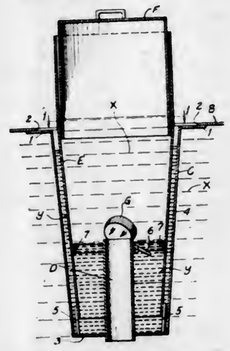
meeting line of said front face and said rear face a curved depression, and stuffing to maintain said depression and pillow faces in their operative positions.

2,351,850

INVERTED SIPHON DRAIN FOR TANK ROOFS

John H. Wiggins, Chicago, Ill.

Application February 15, 1943, Serial No. 475,927
5 Claims. (Cl. 182—7)



1. A siphon drain, comprising a receptacle disposed so that drain water will enter the upper end of said receptacle, the side wall portion of said receptacle sloping outwardly from its lower towards its upper end, a vertically-disposed outlet or discharge pipe for said receptacle having its upper end terminating at a point above the bottom of said receptacle, said receptacle being adapted to contain a liquid sealing medium when the drain is in use, and a baffle of substantially the same shape as the side wall portion of the receptacle, arranged between the side wall portion and discharge pipe of said receptacle with its lower end submerged in the liquid sealing medium and spaced away from the bottom of said receptacle.

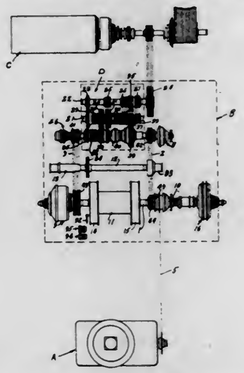
2,351,851

DRAW WORKS

Forrest J. Young, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 25, 1941, Serial No. 390,318
9 Claims. (Cl. 254—187)

4. In a rotary drilling rig, a drawworks having in combination a drumshaft assembly comprising a spooling drum mounted on a drumshaft, a lineshaft, a pair of rotatable members each rotatably mounted coaxially of the drumshaft assembly, drive means including a releasable friction clutch associated with the lineshaft whereby the lineshaft may rotate one of said members, power transmission connections operatively connecting the other of said members to drive a driven mechanism, positive coupling means selectively operable for connecting said members together to rotate as a unit or for connecting the first named member to the drumshaft assembly whereby the



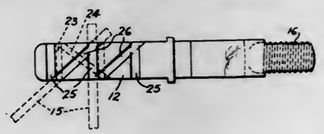
drive means may be selectively utilized for driving the driven mechanism or for rotating the drumshaft assembly, a shifter device for operating said positive coupling means, dual control means for operating said lineshaft friction clutch, and means responsive to actuation of said shifter device adapted to render one of said dual control means inoperative.

2,351,852

ELECTRODE HOLDER

Winkler C. Gosch, Hamden, Conn., assignor of one-half to Martha S. Churchward and one-half to Myrlon A. Farnham, both of New Haven, Conn.

Application February 16, 1943, Serial No. 476,125
11 Claims. (Cl. 219—8)



7. A pair of cooperating jaws for an electrode holder each of said jaws having spaced apart transverse grooves in their opposing surfaces, the grooves in one jaw being out of alignment with the grooves in the other jaw, the grooves in one jaw being adapted to receive an electrode of smaller diameter than are the grooves in the other jaw.

2,351,853

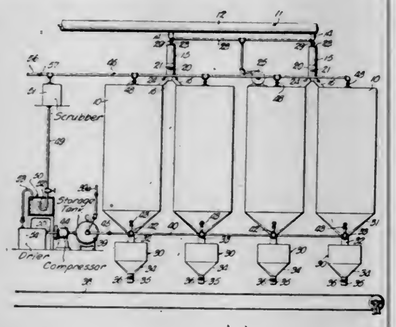
APPARATUS FOR PRESERVING ORGANIC MATERIALS

William R. Graham, Jr., Kansas City, Kans., assignor to American Dairies Incorporated, Kansas City, Mo., a corporation of Maryland, and The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey, jointly

Original application October 18, 1941, Serial No. 415,598. Divided and this application June 12, 1942, Serial No. 446,762
6 Claims. (Cl. 99—271)

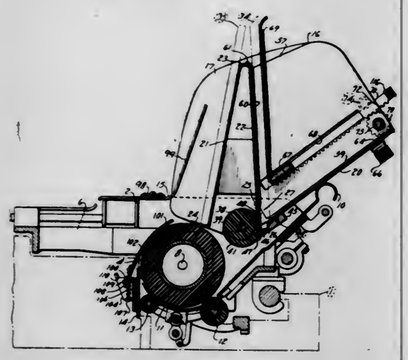
1. In an apparatus for storing and preserving material containing vitamins or carotene, the

combination of a closed storage bin, a hopper for receiving material to be discharged into the bin, means for sealing the hopper, means for exhaust-



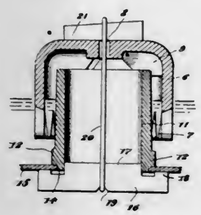
ing air from the hopper, valve means for controlling communication between the hopper and bin, and means for circulating a gaseous fluid through the said bin.

2,351,854
SHEET FEEDING APPARATUS
Roy Frank Hall, Kansas City, Mo., assignor to Benjamin A. Babb, Kansas City, Mo.
Application February 3, 1941, Serial No. 377,090
10 Claims. (Cl. 271—4)



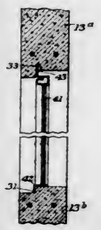
1. A sheet feeding mechanism including, a frame adapted for support upon a machine of the character described, said frame having a bottom plate portion and downwardly diverging plate portions, one of said plate portions cooperating with the bottom plate portion to form a magazine for supporting a supply of sheets, said magazine having a throat-like outlet between said plate portions, an outwardly extending flange on the other diverging plate portion to form a support for typewritten sheets, a feed roller rotatably carried by the frame intermediate said diverging plate portions, a stripper plate closing said throat-like outlet and having yielding contact with said roller, means for actuating said roller for removing sheets from the magazine for delivery to the support for typewritten sheets, gauge plates slidably supported in said frame to engage sides of the supply of sheets in said magazine, and means for retaining said gauge plates in adjusted position.

2,351,855
CERAMIC BUBBLE CAP
Watt E. Harris, Houston, Tex.
Application November 10, 1942, Serial No. 465,117
1 Claim. (Cl. 261—114)



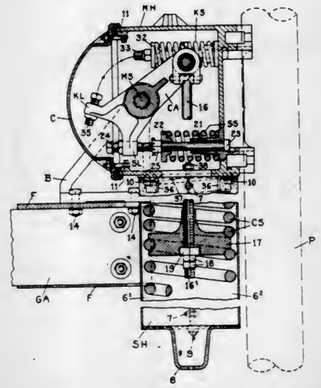
A ceramic bubble cap assembly comprising in combination a bubble cap tray, a chimney and a cap, said chimney having an annular seat at its base fitting an opening in the tray, a bracket having a center portion engaging the lower inside surface of the chimney and also having end lug portions engaging the under side of said tray, and a tie rod engaging said bracket and extending upwardly through the assembly and fastened at its upper end to a tapered key, said key bearing against the cap top to hold the assembly in place.

2,351,856
PANEL-WALL BUILDING CONSTRUCTION
Albert Henderson, Edgewood, Pa., assignor to William P. Witherow, Pittsburgh, Pa.
Application October 4, 1941, Serial No. 413,627
2 Claims. (Cl. 72—16)



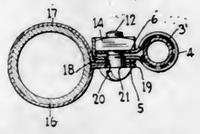
1. A wall construction including spaced columns and superposed panels extending between the columns and secured thereto, said panels having rabbeted top and bottom edges, said edges being lower at the outer side of the panels than at an intermediate point, thereby forming cooperating shoulders providing weather-tight joints between abutting panels, the wall having a window opening formed by the omission of at least a portion of a panel, the panels above and below said opening having the same cross section as the other panels in the wall, the lower rabbeted edge of the panel above said opening being thereby left exposed to serve as a lintel, and the upper rabbeted edge of the panel below the opening being likewise left exposed to provide a sill, and a sash having its upper edge seated on the shoulder of the lintel panel and its lower edge resting on the shoulder of the sill panel, and being thereby spaced above the level of the upper edge of the sill panel at the outer side thereof, said last-mentioned shoulder forming a barrier against the entrance of water.

2,351,857
HIGHWAY CROSSING GATE FOR RAILROADS
Winthrop K. Howe, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 27, 1942, Serial No. 444,689
7 Claims. (Cl. 39—7)



1. In a crossing gate for railways, in combination, an elongated gate pivoted near one of its ends and movable from a horizontal stop position to a vertical clear position, a counterbalance spring, means connecting the gate to the spring so as to progressively distort the spring as the gate moves from its clear to its top position, and a second spring operatively associated with the gate so as to be progressively distorted as the gate effects a substantial portion of its final portion of travel from its stop to its clear position.

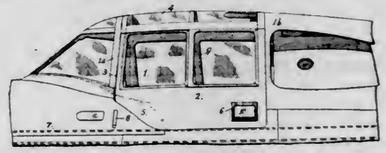
2,351,858
SECURING CLAMP
David Ingalls, Westfield, N. J., assignor to Titeflex, Inc., a corporation of New Jersey
Application March 6, 1941, Serial No. 382,001
5 Claims. (Cl. 24—19)



1. A securing clamp comprising an encircling portion having ears at its ends and inwardly extending projections from the inner surface of said portion, one of said ears having a portion bent at an angle and overlapping the other of said ears when in normal unsecured position, said ears having holes, and a bolt extending through said holes, said ears being movable toward and away from each other and drawn toward each other by said bolt.

2,351,859
AIRCRAFT CANOPY
Robert A. Kaiser, Flushing Heights, N. Y., assignor to Republic Aviation Corporation, a corporation of Delaware
Application October 25, 1941, Serial No. 416,503
9 Claims, (Cl. 244—121)

1. In an aircraft canopy having a fixed body, comprising a windshield, a turtle-back cover and at least one lateral door hinged to the arch of said windshield and fastenable to the arch of said turtle-back cover: a plurality of quickly-openable hinges detachably connecting said door to the arch of said windshield, and a manually-operated emergency release mechanism mounted on said fixed body for simultaneously and in-

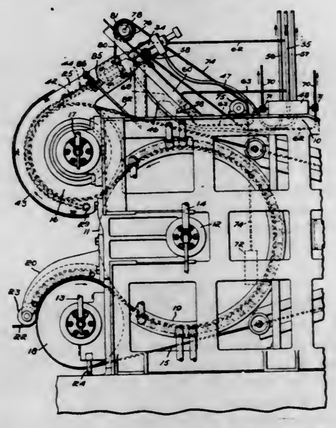


stantaneously opening said hinges in an emergency in such manner as to free the hinged edge of the door from the windshield arch and release the whole door to the action of the airstream without having to unfasten its opposite edge from the turtle-back cover arch.

2,351,860
RUBBER COMPOSITION AND METHOD OF MAKING SAME
John H. Kelly, Jr., and Milton M. Stern, Chicago, Ill., assignors to Dryden Rubber Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 20, 1941, Serial No. 415,776
3 Claims. (Cl. 260—5)

1. The method of extending an oil resistant synthetic rubber selected from the group consisting of polychloroprene, polyalkylene polysulphide, and butadiene-acrylonitrile copolymer, which comprises mixing with said synthetic rubber a vulcanizable natural rubber and from 10% to 100% of an aryl guanidine polysulphide based on the weight of the natural rubber, and heating the mixture under vulcanizing conditions.

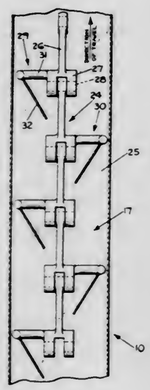
2,351,861
VULCANIZING METHOD AND APPARATUS
Thomas M. Knowland, Belmont, and William C. Bleher, Boston, Mass., assignors to Boston Woven Hose & Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application January 23, 1942, Serial No. 427,948
16 Claims. (Cl. 18—6)



14. In a continuous vulcanizing machine, a heated vulcanizing roll mounted for rotation, a

continuous pressure band arranged to pass about an arcuate portion of the roll, a frame mounted to oscillate about the rotary axis of the roll, a heated vulcanizing unit carried by the frame and arranged to engage the outer face of the belting or the like on the continuous band at said arcuate portion of the roll, means for causing the vulcanizing unit to engage the belting when the unit is in a predetermined position and hold it thus engaged during a predetermined travel rearwardly with the belting, means for releasing the vulcanizing unit from such engagement and oscillating the frame forwardly to a position locating the vulcanizing unit in the said predetermined position after a predetermined rearward travel of the unit and frame with the belting, and means for effecting the engaging, releasing and oscillating operations automatically and in sequence.

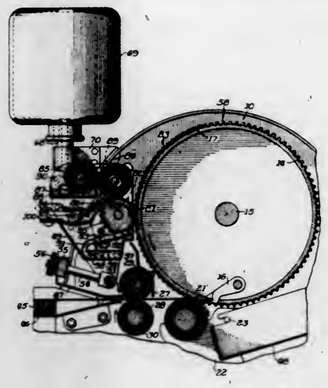
2,351,862
CONVEYER
Charles I. Lattig, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application October 20, 1942, Serial No. 462,707
4 Claims. (Cl. 198—171)



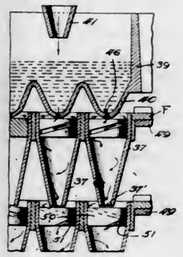
1. A conveyer including an enclosed upwardly extending working leg, endless draft conveying mechanism adapted to travel in said working leg, said draft conveying mechanism having successive flights each extending along substantially only one-half of one wall and along an adjacent side wall of said casing, and having a wing sloping rearwardly relative to the direction of travel, successive flights extending from opposite sides of said draft mechanism.

2,351,863
METHOD OF DUPLICATING
Arthur J. Levenhagen and William J. Champion, Chicago, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application April 25, 1942, Serial No. 440,494
8 Claims. (Cl. 101—149.5)

1. The method of duplicating which comprises the step of applying solvent by means of a moving applicator to the inked face of a master sheet, and the step of applying an ink neutralizing agent to the face portion of the applicator moving from its point of contact with the master sheet to the point of application of solvent thereto.



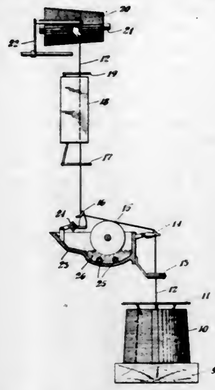
2,351,864
DUST COLLECTOR
Garrett B. Linderman, Jr., Hagerstown, Md.
Application June 27, 1940, Serial No. 342,785
10 Claims. (Cl. 261—79)



1. In a dust collector, in combination, a stationary frusto-conical receptacle having its larger end upward and having an outlet aperture at its lower end, a closure for the upper end of said receptacle, said closure being formed to provide a helical conduit opening into said receptacle at its upper end, and means for introducing water and dust-containing gas into said receptacle through said conduit.

2,351,865
TREATMENT OF RAYON YARN
Frank W. Mattinson and Rudolph Hoffman, Utica, N. Y., assignors to Skenandoa Rayon Corporation, Utica, N. Y., a corporation of Delaware
Application October 9, 1942, Serial No. 461,366
7 Claims. (Cl. 117—144)

7. As a novel article of manufacture, a twisted rayon yarn suitable for use in knitting ladies' hosiery, as a substitute for natural silk, said yarn being sized, before knitting, with between about

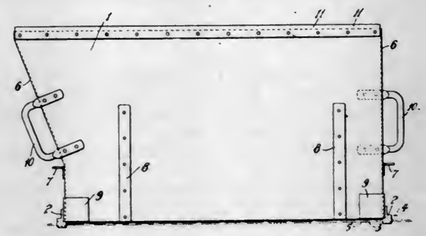


5% and 15% of a sizing material comprising a mixture of polyethylene glycols having a melting point between about 30° C. and 47° C., both inclusive.

2,351,866
ART OF CELLULOSE ESTER PLASTICS
Isador Miller, New York, N. Y.
No Drawing. Application February 17, 1941, Serial No. 379,295
10 Claims. (Cl. 106—198)

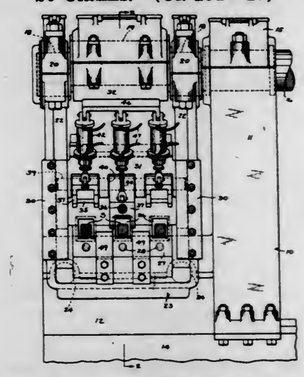
1. The process of preparing a tough, horny, non-friable, homogeneous and non-cellulous composition suitable for injection molding which consists in kneading under high pressure a mixture of cellulose ester and thermally active plasticizer therefor, free from low boiling volatile ingredients to complete colloidization at a temperature between 275 degrees F. and 350 degrees F., approximating that at which the injection molding operation is performed, said composition being in a plastic gel-like state during the kneading operation.

2,351,867
RECEPTACLE
Desmond Walter Molins and Félix Frédéric Ruau, Deptford, London, England, assignors to Molins Machine Company Limited, London, England
Application May 15, 1942, Serial No. 443,176
In Great Britain May 8, 1941
1 Claim. (Cl. 220—1)



A receptacle for small articles constructed for movement with a succession of like receptacles in endwise abutting relation beneath an article discharge point in an automatic filling machine, said receptacle comprising side and end walls forming a narrow, elongated, relatively deep, open topped structure, and receptacle supporting means projecting lengthwise from said end walls below the top thereof, at least one end of the receptacle having the upper portion thereof extended in an endwise direction to abut an end wall of the next succeeding receptacle at the top thereof, leaving a gap therebetween at the bottom to accommodate said supporting means, the upper portions of the end walls of the receptacle having medial slots extending downwardly from the top thereof to at least half the depth of the end walls, leaving lateral flanges extending inwardly from each side wall for retaining the articles within the receptacle while permitting the passage through the slots of article guide means positioned to extend into the receptacle for directing the flow of discharging articles into the same.

2,351,868
SHEAR
Myles Morgan, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application November 21, 1941, Serial No. 419,845
20 Claims. (Cl. 164—47)

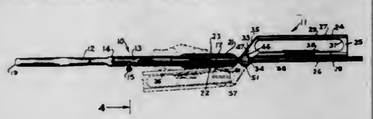


1. A shear for the selective cutting of a plurality of parallel strands extending simultaneously through the shear comprising a unitary frame, a unitary movable carrier supported by the frame and extending transversely of said strands, a plurality of knives mounted in laterally adjacent positions on the carrier and opposite the respective strands, each knife being movable relative to the carrier between an operative position on the carrier and an inoperative position on the carrier, and power driven means mounted on the frame and connected to the carrier to actuate the same and cause such of the knives as are in their operative positions to sever the corresponding strands.

2,351,869
TRAP GUN
Harold F. Mossberg, New Haven, Conn., assignor to O. F. Mossberg & Sons, Inc., New Haven, Conn., a corporation of Connecticut
Application December 29, 1939, Serial No. 311,531
14 Claims. (Cl. 42—1)

1. In combination with a firearm wherein a barrel adapted to have projectiles fired therethrough is provided, of a trap adapted to support and throw disc-like targets, means to removably and pivotally mount said trap to the barrel of said firearm, said trap being swingable rearwardly in respect to said barrel into target throwing position and constructed and arranged

to be engaged and held by a hand of the user holding the firearm, and spring means tensioned by the aforesaid rearward movement of said trap



to actuate it to throw a target therefrom when said trap is released from the control of the said hand of the user.

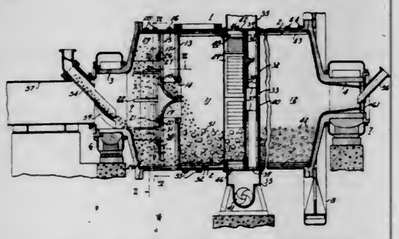
2,351,870

COMBINED BALL MILL AND DRIER

Ray C. Newhouse, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application December 26, 1940, Serial No. 371,641

7 Claims. (Cl. 83—9)



1. In a drying and grinding apparatus, the improvement comprising a drum having a coaxial inlet opening in an end wall thereof, means rotatably supporting said drum, a hollow partition structure disposed within said drum and defining in coaxial relation a grinding compartment and a drying compartment longitudinally spaced from each other, said partition structure including in axially spaced proximate relation a grinding compartment wall having a central opening therethrough and a dyring compartment wall having an annular coaxial opening therethrough, said drying compartment wall embodying a central portion positioned in opposite air deflecting relation to said inlet opening and in opposite effective shielding relation to said central opening and an outer annular material retaining portion spacedly surrounding said central portion, means between and including said walls operative when said drum is rotating to act on material entering the space between said walls and discharge same through said central opening, material showering elements positioned within said drying compartment, and means for introducing material to be dried and ground and a gaseous drying medium into said drying compartment through said inlet opening.

2,351,871

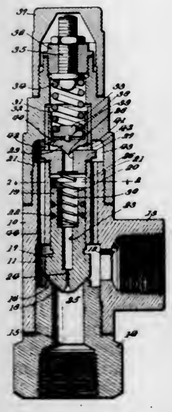
VALVE ASSEMBLY

Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio

Application March 31, 1941, Serial No. 386,197

1 Claim. (Cl. 137—53)

A relief valve for fluid pressure systems comprising a lower valve casing having a cylindrical bore extending longitudinally thereof, an adapter threaded into the lower end of the valve casing and having a port in alignment with the bore in the valve casing, said bore forming a valve seat surrounding the inner end of the port in the adapter, a chamber in the valve casing surrounding the valve seat and communicating with an exhaust, the bore in the valve casing above said chamber being of slightly greater diameter than the bore in the adapter, a valve stem slidable in said bore in the casing above said chamber, a valve head carried by the valve stem and adapted to engage said seat, said valve having a passage centrally therethrough leading to a chamber at the upper end of the valve casing, said passage at the upper end of the valve stem being enlarged and forming a recess for a spring, a plug secured to the upper end of the valve casing and having an opening therethrough, a spring in the recess in the valve stem bearing against said plug as an abutment, an upper casing having a thread-



ed and telescoping engagement with the lower casing and forming a chamber surrounding the plug, said plug having a sleeve formed integrally therewith provided with ports therethrough adjacent the plug and communicating with the chamber in the upper casing, an auxiliary valve mounted in said sleeve for reciprocation, an opening through said auxiliary valve connecting the upper side thereof with the lower side, an adjustable abutment mounted in the upper casing, a spring disposed between said abutment and said auxiliary valve for normally holding said auxiliary valve closed, said lower valve casing having ports in the walls extending longitudinally of the lower valve chamber and connecting the chamber at the upper end of the casing with the chamber surrounding the valve seat.

2,351,872

HYDRAULIC PRESS

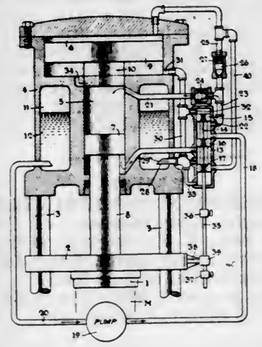
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio

Application March 31, 1941, Serial No. 386,217

3 Claims. (Cl. 60—54.5)

1. An hydraulic press comprising a unitary housing including an upper relatively large cylinder and a lower relatively small cylinder, a reservoir surrounding the small cylinder and having a supply of liquid therein, a ram adapted to be actuated by liquid under pressure, a piston in said upper cylinder having a stem extending into and slidably fitting said lower cylinder, a piston connected to said ram and disposed in said lower cylinder and constantly spaced from said stem by

a liquid column, and longitudinally shiftable control valve means for controlling actuation of the ram and operable to first direct liquid under pressure only to said lower cylinder between said stem and the lower piston for effecting rapid movement of the ram toward the work and then automatically operable upon building up of a predetermined pressure to direct liquid under pressure to said upper cylinder for forcing the piston therein downwardly thereby to transmit increased operating force to the ram through the liquid column



between said stem and lower piston, means movable with the ram to automatically actuate the valve means to terminate movement of the ram in each direction of travel, said valve being shiftable manually to initiate movement of the ram in each direction, said control valve means having provision for directing pressure liquid from said reservoir to the small cylinder beneath the piston therein when the ram is being lifted and for trapping a liquid column beneath said small piston to retain the ram in the raised position following a press operation.

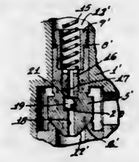
2,351,873

RELIEF VALVE

Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio

Application March 31, 1941, Serial No. 386,221

1 Claim. (Cl. 137—53)



In a fluid pressure system, a relief valve including a valve casing having an inlet for connection to a fluid pressure line, a valve seat in said casing, said valve casing having a port for exhaust above the valve seat, a valve mounted for reciprocation in the valve casing and adapted to engage said seat, said valve casing having a chamber above the valve, a passage extending through the valve and connecting the inlet with the chamber above the valve, the area of the upper end of the valve subjected to pressure being slightly greater than the area of the lower end of the valve subjected to fluid pressure when the valve is closed, means for exhausting the pressure fluid from the chamber above the valve, said passage in the valve being enlarged at the upper portion of the valve and having a ball seat at the bottom of said enlargement, a ball dimensioned to have restricted freedom to move in said enlarged passage so as to provide for restricted passage thereabout in the enlarged passage and adapted to engage the ball seat for closing the passage when the pressure is applied to the ball from above, a plug in said valve above said ball, said plug being spaced from the ball and having a central opening therethrough with a V-notch in the edge contacted by the ball providing a restricted passage past the ball when it is raised into engagement with the plug.

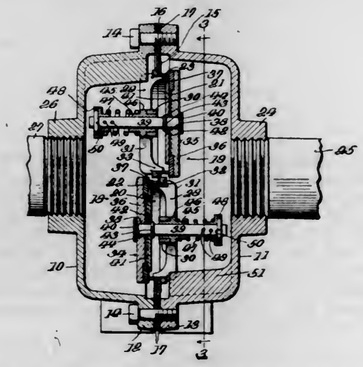
2,351,874

RELIEF VALVE FOR FUEL TANKS

Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio

Application May 20, 1942, Serial No. 443,812

3 Claims. (Cl. 277—61)



1. A valve device for use with fuel tanks of aircraft or the like, comprising a sectional casing, a partition secured between the sections of the casing and dividing the same into chambers, said partition having openings each of which is surrounded by an integral flange disposed so that the edge thereof provides a seat for a valve, a valve cage associated with each opening, each valve cage including an integral tubular hub, spaced radial arms projecting from said hub, a ring secured to the outer ends of the arms and adapted to rest on the partition at the periphery of the opening therethrough, said arms having lateral projections extending into the openings and contacting with the flange for holding said cage centered relative to the opening, a valve associated with each cage and disposed on the opposite side of the partition therefrom and adapted to engage the valve seat, a valve stem carrying the valve and extending through said hub, a detachable head secured to the valve stem, and a spring disposed between the hub and the head for holding the valve cage in engagement with the partition and for yieldingly holding the valve in engagement with its seat.

2,351,875

TREATING PROCESS

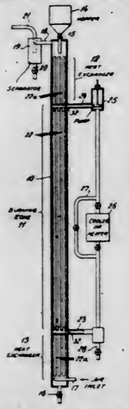
John W. Payne, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application December 28, 1940, Serial No. 372,045

5 Claims. (Cl. 252—281)

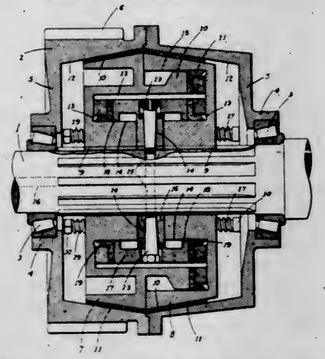
1. The method of regenerating spent adsorbent particles of clay-type contact material con-

taminated with carbonaceous impurities by burning off the impurities with air which comprises flowing the spent particles as a substantially compact column of particles under combustion conditions downwardly through a regenerating zone of sufficient length to afford proper regenerating time, flowing the air upwardly through the zone in direct contact with particles so as to burn off the carbonaceous matter thereon, removing gases



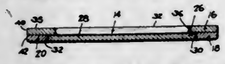
from the descending column of particles by withdrawing the gases, out of contact with the particles, from the interior of the column of particles to a point exterior to the column of particles, and closely maintaining the temperature of all the particles in the zone within a combustion temperature range within the minimum combustion temperature and the maximum combustion temperature that does not cause substantial heat damage to the particles.

2,351,876
FLUID PRESSURE CONTROLLED CLUTCH
Oscar Raymond Peterson and Fred H. Stevens, Peoria, Ill., assignors to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application June 23, 1942, Serial No. 448,082
5 Claims. (Cl. 192—85)



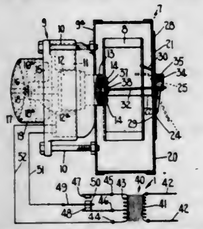
1. A fluid pressure controlled clutch including with a shaft, a concentric housing rotatably but axially immovably mounted on the shaft, a pair of clutch members slidably but non-rotatably mounted on the shaft in the housing, clutch faces on said members, adjacent and matching clutch faces on the housing, the faces on the members being adapted to engage the faces on the housing in driving relation upon axial separating movement of said members, a hub disposed on the shaft between said clutch members, adjacent sides of said members having an annular channel therein concentric to the shaft, annular flanges projecting from the hub into the channels whereby to form expansion chambers, the radially outermost surface of said flanges being spaced from the corresponding wall of said channels forming annular passages in communication with the chambers, and passage means for fluid under pressure arranged in communication with said annular passages; said passage means including a longitudinal bore in a portion of the shaft, opposed laterals extending from said bore to the exterior of the shaft, and nipples threaded into said laterals and projecting through the hub to communicate with said annular passages, the nipples securing said hub against relative movement lengthwise of said shaft.

2,351,877
FRAMED PHOTOGRAPHIC PLATE
William Rabkin, Kew Gardens, and Frank Newman, New York, N. Y., assignors to International Mutoscope Corporation, Long Island City, N. Y., a corporation of New York
Application August 7, 1942, Serial No. 454,046
6 Claims. (Cl. 95—8)



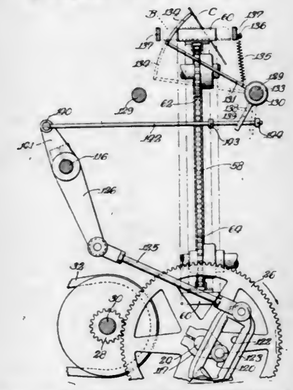
1. A framed photographic plate comprising a frame having two frame members, each having an opening, one of said openings being larger than the other, said frame members being secured together in abutting face to face relation with their openings in registry and providing a peripheral shoulder adjacent said openings, a photographic plate fitted in said larger opening and having a peripheral marginal edge portion thereof abutting said shoulder in peripherally continuous relation therewith, a backing member fitted in said larger opening and overlying said photographic plate, and means securing said backing member in said opening and holding said plate tightly against said shoulder, the inner edge of said frame member having the smaller opening and said plate forming a tray for liquid chemicals utilized in treating the plate after the exposure thereof in taking the photograph, said inner edge and the front surface of the frame being impervious to said chemicals during the treatment of said plate.

2,351,878
CONTROLLING MEANS
Philip S. Russel, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application April 26, 1941, Serial No. 390,473
11 Claims. (Cl. 230—114)



1. In a structure for supplying air under pressure, a housing having an inlet and an outlet, a fan positioned within and for propelling air through said housing, an electric motor associated with and for driving said fan and having a rotor and a stator, said rotor being magnetically movable axially of said stator, a pressure responsive damper means controlling flow through said inlet and having an open position, said damper means being operable to be urged from said open position into a position to restrict flow through said inlet upon a reduction in pressure within said housing, and lost-motion means operatively connecting said rotor and said damper means for movement of said damper means to said restricting position, said rotor being operable upon magnetic axial movement to act through said lost-motion connecting means to move said damper means toward open position and against the air pressure force exerted on said damper means.

2,351,879
KICKOUT DEVICE FOR WRAPPING MACHINES
Oscar Sandberg, Defiance, Ohio, assignor to Lynch Manufacturing Corporation, Defiance, Ohio, a corporation of Ohio
Application December 24, 1941, Serial No. 424,285
1 Claim. (Cl. 209—121)



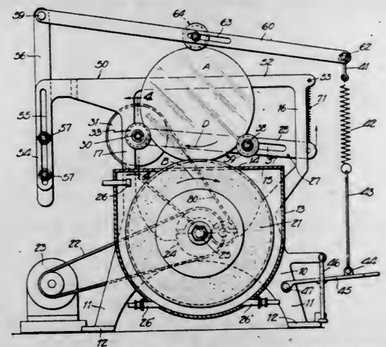
In a device for supplying articles to a wrapping machine, means for feeding articles and elongated cards to wrapping position comprising an article and card conveyor having channel shaped pockets arranged transversely of the direction of movement of the conveyor, said channel shaped pockets being adapted to receive the cards, means to remove any cards from said pockets which do not support an article, said last means including an arm pivotally mounted and extending transversely relative to said conveyor, said arm having an upwardly extending finger beneath one end of a card when the conveyor is in stationary position due to stopping of the article and card conveyor, said finger being adapted to engage the card at a predetermined point and tip the card while continuing to engage the card substantially adjacent said point until the card assumes such an inclined position that the card slides endwise by gravity off the conveyor, resilient means to normally render such card removing means operable, said card removing means being rendered inoperable by the weight of an article on said card overcoming the resilient means, means for driving said conveyor intermittently, and means for periodically withdrawing said finger from card contacting position during the time the cards and articles and their conveyor are in motion.

2,351,880
THERMOMETER MOUNTING FOR REAR-VISION AUTOMOBILE MIRRORS
Henry J. Sauer, Fairfield, Conn., assignor to The Kilborn-Sauer Company, Fairfield, Conn., a corporation of Connecticut
Application February 9, 1942, Serial No. 430,020
4 Claims. (Cl. 73—348)



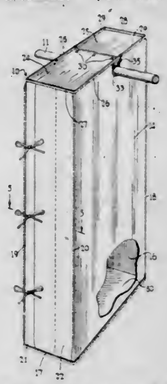
2. A thermometer mounting for automobiles comprising a substantially laterally extending bracket arm and attaching means adapted to secure the bracket arm to an automobile door in theft-proof relation including a reduced diameter threaded end portion and a shoulder portion, a thermometer carrying frame member, and attaching means secured to said frame member and engageable over said bracket arm, said attaching means being in the form of a continuously unbroken circumferential sleeve member adapted to extend around said bracket arm and engageable therewith over an end thereof whereby in an attached relation of said frame member it is removable only over an end of said bracket arm, a flange carried by said sleeve member adapted to engage with said shoulder portion of said bracket arm, and a nut adapted to engage upon said threaded end to tighten said sleeve flange against said shoulder portion.

2,351,881
GRINDING MACHINE
Edward Schottland, Forest Hills, N. Y., assignor of one-half to Robert Schottland, Jackson Heights, N. Y.
Application January 28, 1943, Serial No. 473,798
11 Claims. (Cl. 51—103)



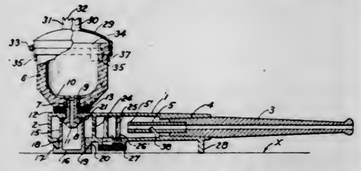
1. In a machine for grinding the peripheral edge of a circular plate, a grinding element, a driving roller having engagement with the peripheral edge of a circular plate to be ground, a supporting roller having engagement with the peripheral edge of said plate at a point spaced with respect to the point of engagement of the driving roller, a pressure roller engaging the peripheral edge of said circular plate and adapted to urge the same into engagement with the driving roller and the supporting roller, and in grinding contact with the grinding element, means for exerting pressure upon said pressure roller, and means for driving the driving roller.

2,351,882
GARMENT BAG
Leonce Schwartzman, Baltimore, Md., assignor to Protex Products Company, Inc., Jersey City, N. J., a corporation
Application March 16, 1943, Serial No. 479,336
8 Claims. (Cl. 206—7)



1. In combination, a garment bag having openings in its side walls adjacent its top wall, a rod passing through said openings, and a member within the bag interposed between the rod and the underside of the top of the bag, said member resting on said rod and being supported thereby and having portions resting upon the rod, said member having a portion located above the portions which rest upon the rod, and contacting the underside of the top wall of the bag to keep said top wall spaced above said rod, and said bag being suspended on said member, whereby said rod supports said member and bag.

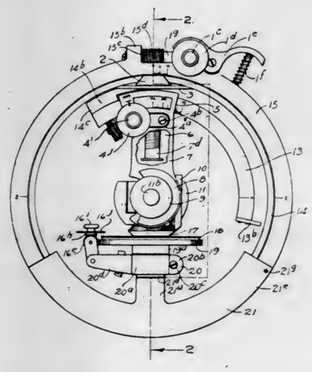
2,351,883
SMOKER'S PIPE
Massey Sitney, Berkeley, Calif.
Application November 20, 1940, Serial No. 366,347
1 Claim. (Cl. 131—201)



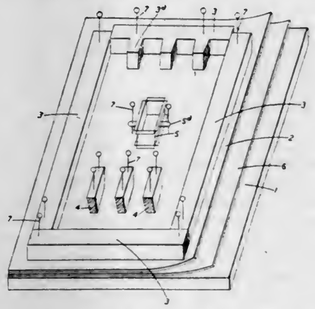
In a smoker's pipe having a hollow metal stem and a bowl on the top side of the stem, and with a downwardly removable moisture sump in the stem under the bowl, means detachably securing said bowl to the stem comprising a ferrule passing upwardly through the upper wall of said hollow stem and screwed into the lower end of the bowl, and said ferrule provided with a head engaging the inner under side of the upper wall of the stem and formed to project downwardly into said sump to discharge the smoke from the bowl toward the bottom of said sump.

2,351,884
NAVIGATION INSTRUMENT
John F. Smillie, San Diego, Calif.
Application February 6, 1943, Serial No. 475,058
18 Claims. (Cl. 33—1)

1. In a navigation instrument, the combination of an annular stationary minute ring, a latitude and declination ring revolubly mounted in relation therewith and a minute control assembly mounted on said stationary minute ring and arranged to operatively engage said latitude and declination ring, said minute control assembly arranged to shift into and out of operative position with said latitude and declination ring, an altitude arc pivotally connected to and internally of said latitude and declination ring, a dial window bracket shiftably mounted relatively to said altitude arc, an altitude control assembly in cooperative relation with said altitude arc and said dial window bracket, and a universal shiftable assembly mounted centrally in said stationary minute ring and operatively connected with said dial window bracket.

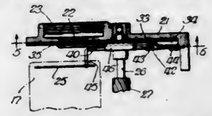


2,351,885
METHOD AND APPARATUS FOR MOLDING TOY BUILDING ELEMENTS
Adolf Sommerfeld, Cowley, England
Application January 27, 1942, Serial No. 428,429
In Great Britain January 27, 1941
8 Claims. (Cl. 25—121)



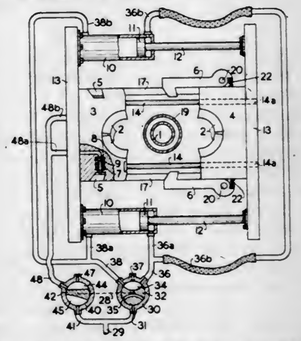
1. An appliance for constructing toy building structures, comprising a drawing outlining an element of the structure to be constructed and having a representation thereon of the location of a structural detail member of said element, a transparent sheet placed over said drawing and composed of a material penetrable to fastening means for securing a structural detail member on said transparent sheet in conformity with the representation of the location of such detail member, and a casting frame placed on said transparent sheet coincident with the outline of said element on said drawing.

2,351,886
FILM ACTUATING MEANS
Philmore F. Sperry, Chicago, Ill.; Helen B. Sperry, executrix of the estate of said Sperry, deceased, assignor to Revere Camera Company, a corporation of Delaware
Application November 24, 1941, Serial No. 420,223
7 Claims. (Cl. 88—18.4)



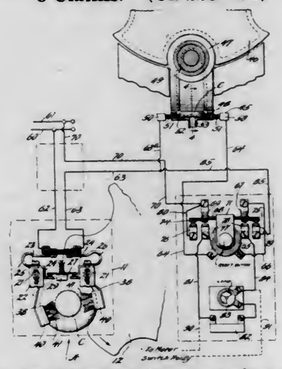
1. In a moving picture camera, the combination of a front frame plate having an exposure opening therethrough, a second plate removably secured on the rear face of said front plate in contact with the front plate and having a large opening therethrough, a shaft rotatably mounted in a bearing in said front plate, a shutter mounted on said shaft between said two plates adapted upon rotation with said shaft to cause an intermittent effective closure of said exposure opening, a shuttle, means for slidably mounting said shuttle in said large opening in said second plate so as to be supported by said second plate and so as to provide for vertical movements of the shuttle, eccentric driving means on said shaft adapted by engagement with said shuttle to give it a reciprocatory movement upwardly and downwardly, and means for driving said shaft.

2,351,887
POWER-ACTUATED SPIDER AND SLIPS
Horace V. Steadman, Wichita Falls, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 10, 1943, Serial No. 486,459
4 Claims. (Cl. 255—23)



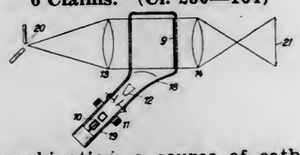
4. In a structure adapted to support from the surface a tubular string depending into a well, a split spider comprising two members adapted to reciprocate with regard to each other in a horizontal plane, slips carried by said members, latching means carried by said members, said slips being adapted to engage and support said tubular string and said latching means being adapted to lock said members with each other upon the completion of a stroke bringing said members together, plunger means for releasing said latching means, prime mover means comprising cylinder means attached to one of said members and piston means attached to the other member for reciprocating said members with regard to each other, and control valve means for actuating said release and said prime mover means by admitting thereto a pressure fluid.

2,351,888
DETECTOR MECHANISM FOR CAPPING MACHINES
Robert J. Stewart, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application December 7, 1939, Serial No. 308,097
8 Claims. (Cl. 226—84)



8. The combination in a capping mechanism, of a supply chute for skirted metal caps, a pair of resilient contact elements projecting into the chute sufficiently far to exert pressure upon the caps in a direction transversely of the chute, said resilient elements having a length longitudinally of the chute substantially corresponding to twice the diameter of the caps, a control circuit connected to each of said contacts, said circuit being normally closed by the engagement of caps with both contacts, and means to positively move caps by said contacts.

2,351,889
METHOD AND MEANS FOR PRODUCING TELEVISION IMAGES
Heinrich Strübig, Teltow, Germany; vested in the Alien Property Custodian
Application September 26, 1940, Serial No. 358,511
In Germany October 7, 1939
6 Claims. (Cl. 250—164)

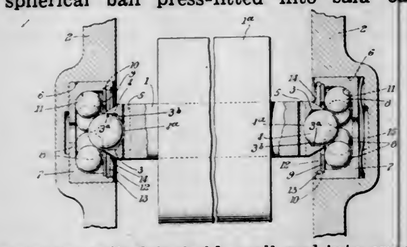


1. In combination, a source of cathode rays, means for modulating the intensity of said cathode rays in accordance with picture signals, an image screen comprising a layer of at least one alkaline earth halide in crystalline state deposited upon a transparent carrier, means for successively bombarding elemental areas of said screen with said cathode rays for changing the transparency thereof in accordance with the intensity of said cathode rays, said screen being adapted to be exposed to a uniform flow of light for modulating elemental areas of said flow in accordance with said picture signals.

2,351,890
BALL-BEARING CONSTRUCTION
Edgar P. Turner, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 16, 1942, Serial No. 469,153
3 Claims. (Cl. 308—233)

1. An antifriction shaft-bearing comprising, in combination, an annular raceway, a ring of bear-

ing-balls disposed in rolling engagement with said raceway, a rotary shaft provided in an end thereof with an axial cavity having an uninterrupted cylindrical side wall and a bottom-end wall, and a spherical ball press-fitted into said cavity



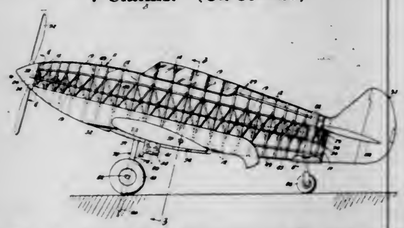
against the cylindrical side wall and into engagement with said bottom-end wall of the cavity for rotation with said shaft, said spherical ball having a segmental portion thereof protruding from the end of said shaft and seated centrally in said ring of bearing-balls.

2,351,891

DECOY AIRPLANE

Jack Weisbaum, Cincinnati, Ohio

Application November 16, 1942, Serial No. 465,650
7 Claims. (Cl. 35—25)



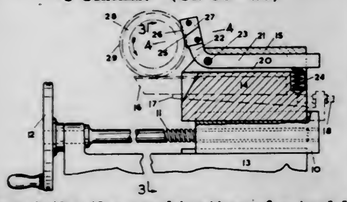
1. In a simulated airplane body the combination of a number of transverse frame members, a pair of spaced lazy tongs disposed longitudinally of the frame members, cross pins for interconnecting the joints of the tongs, and means for connecting a frame member to each joint of the lazy tongs along one reach thereof for articulating said frame members in a longitudinal direction.

2,351,892

LATHE AND LATHE TOOL

Stanley Garthwaite Welbury, Sheffield, England, assignor to Darwins Limited, Sheffield, England

Application December 11, 1940, Serial No. 369,647
In Great Britain December 12, 1939
6 Claims. (Cl. 82—25)



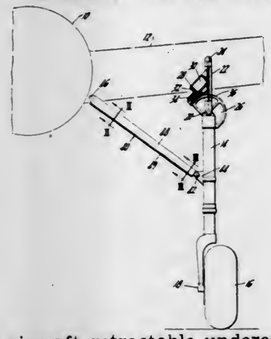
6. In a lathe the combination of a tool holder, a lathe tool having a cutting edge and a face spaced apart from said cutting edge in an axial direction as regards the lathe and adapted to operate as a stop by bearing on work in the lathe along at least one axially extending line of contact to limit the depth of cut, the cutting edge and the line of contact both being contained in the same radial plane of the work, a bent lever of which one arm carries said cutting edge and said face, means for fulcruming said lever adjacent the bend to the tool holder, a spring biasing the other arm of the lever to move the first arm towards the work, a cross-slide, means for traversing the holder therein, and a forming tool so mounted in the holder that as the holder is traversed towards the work the edge of the forming tool first operates on the work and then passes across a diameter thereof at right angles to the cross-slide to an inoperative position and at a subsequent stage of the holder traverse the movably mounted and resiliently supported lathe tool operates on the work.

2,351,893

AIRCRAFT

Pedro S. Yujuico, Great Neck, and David B. Thurston, Jamaica, N. Y., assignors to Brewster Aeronautical Corporation, Long Island City, N. Y.

Application November 27, 1941, Serial No. 420,656
2 Claims. (Cl. 244—102)



1. An aircraft retractable undercarriage comprising a landing wheel strut having pivotally articulated upper and lower sections, a landing wheel carried at the lower end of said lower section, said upper section being pivotally mounted at its upper end upon said aircraft, a worm wheel sector fixed to said lower section concentrically with the pivot axis of said articulated connection, a worm meshing with said sector, a bearing rotatably mounting said worm upon said upper section to be positionally fixed thereto and to have its thrust axis directed generally upwardly toward the upper pivoted end of said upper strut section with the strut in extended position, a prime mover mounted upon said upper section adjacent the position of said worm and operatively connected to the latter, and strut brace means pivotally connected to said strut and extending laterally therefrom into pivotal connection with said aircraft at a position spaced from said pivotal connection of said upper strut section.

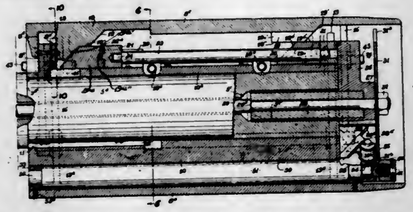
2,351,894

MECHANISM FOR COILING SHEET MATERIAL

Ernst W. Allardt, Parma, Ohio, assignor to The Yoder Company, Cleveland, Ohio, a corporation of Ohio

Application February 14, 1941, Serial No. 378,927
6 Claims. (Cl. 242—72)

1. In apparatus of the class described, the combination with a support, of a shaft rotatably mounted thereon, means for rotating said shaft, a drum fixed to said shaft, on which sheet material is adapted to be coiled, and provided with a collapsible section, mechanism within the drum for operating said collapsible section relative to the remaining portion of the drum, gripping devices for removably securing the free end of the material to said drum, one of said devices being rotatably mounted in the drum and having an



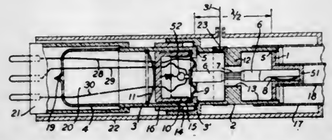
eccentric portion intermediate its ends for engagement with and disengagement from the material, and connections between said mechanism and said rotatable gripping device for rotating it in one direction, said connections including an arm adjustably connected to said rotatable gripping device, whereby the angular position of the "throw" of the eccentric portion thereof relative to said arm may be changed.

2,351,895

ELECTRON TUBE DEVICE FOR ULTRA SHORT WAVES

Alfred Allerding, Berlin-Friedrichshagen, Germany; vested in the Alien Property Custodian

Application May 13, 1941, Serial No. 393,263
In Germany May 11, 1940
2 Claims. (Cl. 250—27.5)



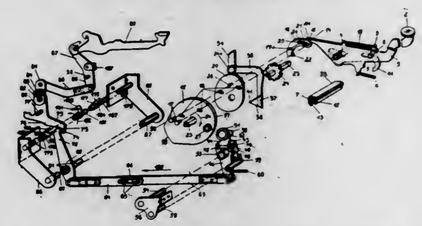
1. An electron tube device for generating, amplifying and receiving ultra high frequency electromagnetic oscillations having a length of less than one metre, said device comprising a hollow substantially cylindrical metal tube open at both of its end portions having inner and outer conductor members, said tube having a radially inwardly extending flange portion adapted to engage an outer conductor of a concentric energy line, a substantially cylindrical tube of ceramic material supported at one of its end portions by said outer conductor, the other of said end portions engaging the inner surface of said metal tube, said tube of ceramic material being provided with a radially inwardly extending ring intermediate its ends, said ring having an opening, said tube of ceramic material being provided with a thin metallic coating on the inner surface thereof, and in contact with said metallic tube, said coating extending over said intermediate ring, a ceramic plate sealing that end of said ceramic tube engaged by said outer conductor air tightly, said plate being provided with an outwardly extending hollow projection having mounted on the exterior surface thereof the inner conductor of the said concentric energy line, said wall of said ceramic tube having an opening formed therein, a metallic ring surrounding said ceramic tube, means fusing said metallic ring and said metallic inner surface lining of said ceramic tube air tightly through said opening in said wall of said ceramic tube, a current lead-in wire in metallic contact with said metallic ring, a second ceramic tube mounted air tightly within said first ceramic tube and spaced therefrom for a portion of its length, said second ceramic tube being provided with an inwardly radially extending shoulder portion, a metallic diaphragm mounted within said second ceramic tube and adapted to be sealed against said shoulder portion, a substantially cylindrical hollow ceramic collar having an open and a closed end, positioned within said second ceramic tube, said open end being provided with a metallic coating extending for a portion of its length on the exterior and interior sides thereof, resilient means mounted within said second ceramic tube adapted to urge said collar against said diaphragm, a closure member secured to the open end of said second ceramic tube, a base member mounted at one end on said second said ceramic tube, said base member being provided at its other end with contact pins, said contact pins being provided with lead-in wires, said wires extending air tightly through said closure member and said collar member making contact with said cathode.

2,351,896

TYPEWRITING-CALCULATING MACHINE

Robert Anschütz, Zella-Mehlis, Germany; vested in the Alien Property Custodian

Application November 21, 1938, Serial No. 241,672
In Germany December 1, 1937
7 Claims. (Cl. 235—59)



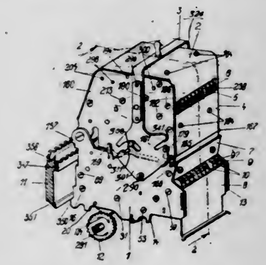
5. In a typewriting-accounting machine, the combination with a power shaft; manually operable numeral typing key levers; type actions controlled by said numeral typing key levers, including sub-levers and type bars; and means operable by the numeral typing key levers to engage their respective type actions with the power shaft to print the corresponding digits; of manually operable calculating key levers; means controlled by the calculating key levers to effect imprints from said corresponding type bars independently of the numeral key levers, including a second power shaft, a normally idle driving member, means controlled by a calculating key lever to connect the driving member with said second power shaft, an actuating train of mechanism, including a normally ineffective disconnectible element, said train operable by the driving member to transmit a typing movement to the type action; a control member operable by said second power shaft; means under control of the control member to render effective the normally ineffective disconnectible element of the actuating train of mechanism and to retain it in effective position as determined by the control member; and means to automatically restore the disconnectible element to its ineffective position to disrupt the actuating train of mechanism at the conclusion of a typing operation.

2,351,897

TYPEWRITER-CALCULATING MACHINE

Robert Anschütz and August Merz, Zella-Mehlis, Germany; vested in the Alien Property Custodian

Application January 18, 1939, Serial No. 251,634
In Germany January 10, 1938
15 Claims. (Cl. 235—59)



5. A totalizer, including a series of denominational gear trains; a pair of disconnected transmission gears associated with each denominational gear train, one member of each pair of transmission gears being in mesh with its corresponding gear train; an accumulator also including a series of denominational gear trains; one series of denominational gear trains being bodily shiftable towards and from the other series of denominational gear trains; a normally idle set of reversing pinions connected with one series of denominational gear trains, and shiftable into and out of engagement with said other members of each pair of transmission gears; adjusting means operable when moved in one direction, to engage the bodily shiftable denominational series of gear trains directly with said other members of each denominational pair of transmission gears, said adjusting means, when operated in the opposite direction, being effective to shift the reversing pinions from their normally idle positions into engagement with said other members of each pair of transmission gears; and means to releasably couple the members of each denominational pair of gears.

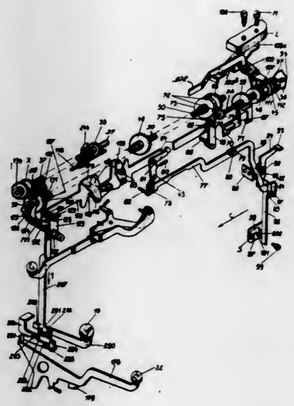
2,351,898

AUTOMATIC PRINTER LOCK FOR TYPEWRITING-ACCOUNTING MACHINES

Robert Anschütz and Fritz Schmidt, Zella-Mehlis, Thuringia, Germany; vested in the Alien Property Custodian

Application July 13, 1938, Serial No. 219,076
In Germany July 15, 1937
6 Claims. (Cl. 235—59)

6. In a typewriting-accounting machine, the combination with a traveling carriage; totalizers, each including a plurality of denominational gear trains; master wheels individual to the respective totalizers, and with which the denominational gear trains of the appropriate totalizers successively engage and disengage; zero stops individual to the respective gear trains; normally idle zero arresting devices individual to the respective totalizers; and a manually settable member; of means to condition the zero arresting devices for effective operation, including a selecting element adjustable to its effective position relatively to either of the individual zero arresting devices, wherein it is operable by the manually settable member, or to a position out of relation with any of the zero arresting devices; means with which the selecting element co-acts, when in said last-named position for locking the manually settable member against operation; and carriage-controlled means adjustable to differentially actuate the selecting element to shift the latter to any of its adjusted positions.

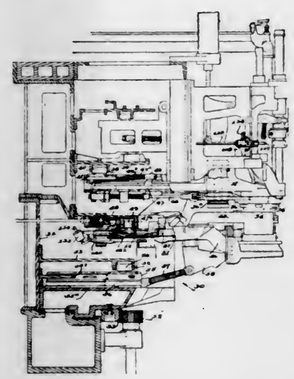


2,351,899

MOLD OPERATING MECHANISM

Russell G. Allen, Alton, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application January 7, 1942, Serial No. 425,839
9 Claims. (Cl. 49—42)



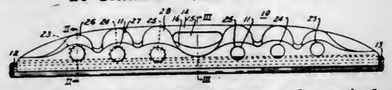
1. A molding machine comprising in combination a mold carriage, means for driving the carriage, a mold on the carriage comprising partible sections, a stationary cam, means providing operating connections between the cam and the mold sections for opening and closing the mold during the travel of the mold carriage, said operating connections including slides, a latch providing a driving connection between the slides, a manual control device, and a latch releasing device actuated by said control device for engaging the latch and moving it to an inoperative position and thereby breaking said connection between the slides.

2,351,900

GROOVED TROLLEY WIRE SPLICER

Edwin E. Arnold, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 28, 1942, Serial No. 428,537
10 Claims. (Cl. 191—44.1)



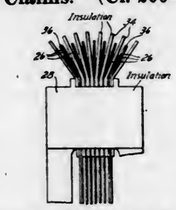
1. A wire splicer having an elongated open groove along one side with inwardly projecting lips for receiving and partially enclosing a portion of a wire, and a plurality of holding means positioned in the body member from the side having helical cutting edges so shaped as to interlock with the inner surface of the portion of the wire in the groove and the surrounding portion of the body member to prevent longitudinal movement of the wire relative to the body member, and apply no appreciable force to the wire in a direction tending to remove the wire from the groove.

2,351,901

CIRCUIT CONTROLLING APPARATUS

Bascum O. Austin, Wapakoneta, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 24, 1943, Serial No. 495,988
3 Claims. (Cl. 200—97)



1. In a circuit controlling apparatus, in combination, a stack formed of a plurality of self-biasing relatively long thin switch members arranged with one end of each supported in fixed relation to each other, the other ends of the switch members being free to move, means disposed to actuate the free ends of the switch members to contact making positions, means disposed between certain of the fixed ends for insulating said certain of the switch members from the adjacent members, and means for electrically connecting the fixed ends of certain of the switch members together at each end of the stack to provide a parallel connected current path at each end of the stack when the switch members are in contact making positions.

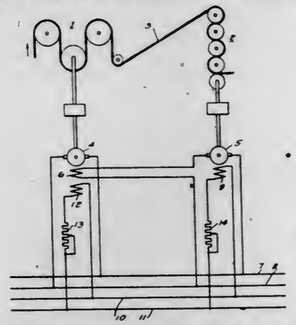
2,351,902

CONTROL SYSTEM FOR PAPERMAKING APPARATUS

Rest R. Baker, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 8, 1943, Serial No. 471,682
9 Claims. (Cl. 92—73)

1. In paper making apparatus, a set of drier rolls to which a strip of paper is fed at a predetermined rate, a set of calender rolls to which said paper is fed from said drier rolls, a dynamo mechanically connected to said drier rolls, a motor for driving said calender rolls which is adapted to supply power to said drier rolls by tensioning the paper between said roll sets, and



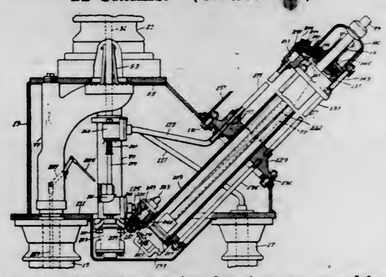
means responsive to the loading of said motor for varying the field of said dynamo in such manner as to maintain the speed of operation thereof constant.

2,351,903

CIRCUIT INTERRUPTER

Benjamin P. Baker, Turtle Creek, and Herbert J. Webb, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 7, 1942, Serial No. 437,958
11 Claims. (Cl. 200—[illegible])



1. A circuit interrupter having a movable contact member, operating means comprising an operating cylinder and a piston in said cylinder for actuating said contact member, means forming a fluid passage communicating with one end of said cylinder for the flow of fluid into and out of said cylinder, means for supplying fluid under pressure to said cylinder through said passage, a throttle valve associated with said passage having a closed position in which it partially throttles the flow of fluid out of said cylinder through said passage, said valve being biased to closed position and operated to open position by the forward flow of fluid into said cylinder through said passage to permit free forward flow of fluid, and means for delaying the return of said throttle valve to closed position for a predetermined time interval after each opening thereof.

2,351,904

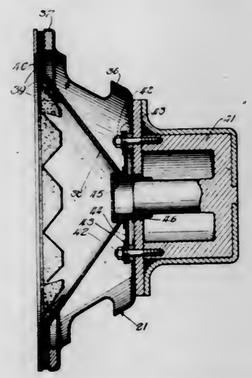
TRANSLATOR

Jesse Ora Ballinger, Batavia, and Edward B. Worthington, Maywood, Ill.; said Worthington assignor to said Ballinger

Application July 31, 1941, Serial No. 404,920
4 Claims. (Cl. 179—115.5)

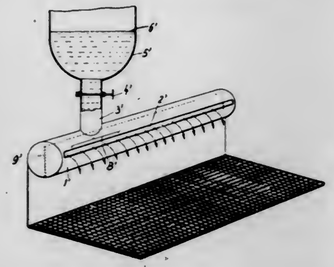
3. A device of the character described for translating sound waves into generally similar elec-

trical waves having somewhat modified characteristics, including: a relatively heavy circular diaphragm adapted to be vibrated by the sound waves; means for supporting the diaphragm for vibratile movement along its axis, said means being of such nature as to cause said member to only slowly return to a neutral position when it is displaced therefrom; and means carried by



the diaphragm near its apex and movable therewith adapted to cooperate with fixedly mounted means to translate movements of the diaphragm into corresponding electrical waves, the moving parts having a total weight of at least one and one-half grams per inch of diaphragm diameter and such weight being principally concentrated in the diaphragm.

2,351,905
DISTRIBUTING DEVICE
Hermann Basler, Berlin-Dahlem, Germany; vested in the Alien Property Custodian
Application May 28, 1940, Serial No. 337,665
In Germany October 3, 1939
5 Claims. (Cl. 92—44)



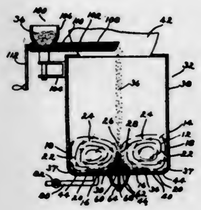
1. A distributing device for uniformly distributing fibre pulp supplied at varying hydrostatic pressure, comprising a supply tank for supplying the pulp to be distributed, a closed distributing member arranged below said tank and having a longitudinally extending discharge opening, a pipe secured to said distributing member for connecting said supply tank therewith, means for shutting off said pipe, a plurality of baffles arranged substantially vertically in said distributing member to form alternately wide passages with narrow passages therebetween, whereby the pulp is freely discharged as a laterally extended jet through said discharge opening with a substantially constant rate of flow.

2,351,906
FINGER GUARD
Elmer W. Beatty, Danville, Ill., assignor of one-half to Irwin W. Millard, Danville, Ill.
Application June 13, 1942, Serial No. 446,859
2 Claims. (Cl. 2—21)



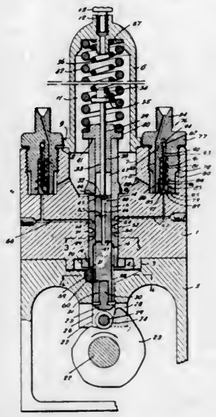
1. A guard for the finger or thumb of the hand having, in combination, an elongated protective member shaped and dimensioned to cover the front or back surface of a finger or thumb and extend partially about opposite sides thereof, a back member fashioned of resilient material, and lines of stitching extending through said members and spaced inwardly from the side margins of said protective member, whereby the side margins of said protective member outwardly beyond the lines of stitching protect said lines of stitching.

2,351,907
APPARATUS FOR MAKING COLLOIDAL STARCH SUSPENSIONS
Herbert G. Beede, Pawtucket, R. I., assignor to Pantex Pressing Machine, Inc., Central Falls, R. I., a corporation of Delaware
Application October 27, 1941, Serial No. 416,768
6 Claims. (Cl. 127—28)



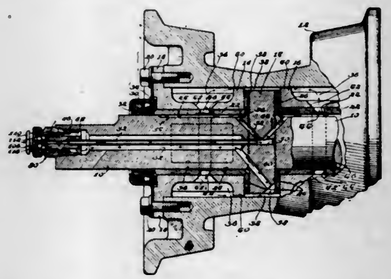
1. A starch digester comprising an upright substantially cylindrical tank of predetermined radius, height and hence capacity having side, top and bottom walls, and an annular portion having a concaved inner surface joining the side and bottom walls thereof, a steam nozzle having a multiplicity of horizontal substantially radial steam discharge orifices therein discharging immediately above said bottom wall and a top wall projecting substantially conically upwardly to a central apex with inwardly concaved side wall portions extending downwardly substantially to said steam discharge orifices to provide a container having a substantially partially torical lower portion, means to supply steam under substantial pressure to said nozzle, and means to successively deposit a predetermined amount of starch particles within the center portion of the upper end of said container.

2,351,908
HIGH-PRESSURE PUMP
Louis Beeh, Long Meadow, Mass.
Application September 18, 1942, Serial No. 458,804
19 Claims. (Cl. 103—41)



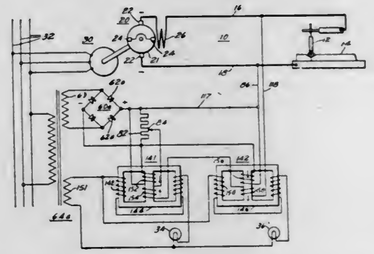
1. A pump comprising a cylinder with a pump chamber therein and a plurality of delivery ports on different levels, a plunger movable in said cylinder and ported to connect temporarily said delivery ports, one after the other, to the pump chamber, a conduit for each of said ports and in communication therewith to convey pumped fluid to the outside, and valving means connected with said conduits and with a place of low fluid pressure, and temporarily operative to drain fluid from each conduit after disconnection of its associated port from the pump chamber.

2,351,909
LUBRICATING APPARATUS
William H. Beretish and Thomas Arthur Campbell, Chicago, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application October 10, 1941, Serial No. 414,424
4 Claims. (Cl. 308—109)



1. In a lubricating apparatus for the lubrication of a sealed bearing structure, a lubricant inlet passageway in said bearing structure leading to the bearing surfaces and a lubricant discharge passageway leading therefrom, a lubricant receiving fitting having a relatively movable head and body cooperating to form a check valve, said head having a part conformed for detachable connection with a source of lubricant under pressure, an extensible conduit connection between said head and said lubricant inlet passageway, and means to conduct lubricant from said discharge passageway to the check valve forming parts of said head and fitting to cause relative movement of the latter to valve opening position upon the generation of a predetermined pressure in said lubricant discharge passageway.

2,351,910
ARC VOLTAGE OR ARC LENGTH INDICATOR
John H. Blankenbuehler, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,103
5 Claims. (Cl. 177—311)

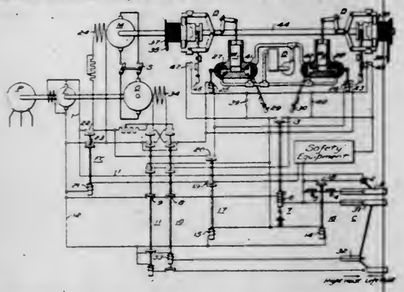


1. An indicating system for a load circuit comprising a plurality of indicating lamps connected to a source of alternating current, a normally unsaturated saturable reactor for controlling the energization of each indicating lamp having an alternating current winding connected in series circuit relation therewith for reducing the energization of its associated lamp, and a plurality of direct current windings, circuit means connected for applying to one of the direct current windings on each of the reactors a substantially constant control voltage insufficient to effect saturation thereof, and additional circuit means connected for applying to the other of said direct current windings in opposite senses the differential between said control voltage and an arc responsive voltage to selectively, differentially or cumulatively energize the said other winding with respect to the said one winding, depending on the relative values of the arc responsive and the control voltages and change the impedances of the reactors in opposite senses for changes of load circuit voltage in the same sense at different values of load circuit voltage.

2,351,911
MINE HOIST CONTROL
James E. Borland, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 26, 1942, Serial No. 470,283
10 Claims. (Cl. 254—173)

10. In a system of control for a hoist, in combination, a suitably operated generator, having a generator field winding, a motor having a motor field winding connected to the generator to be operated thereby, a hoist drum, a clutch and lever therefor, which lever, when in one position, clutching the drum to the motor shaft to thus be operated thereby and when in another position declutching the drum from the shaft, a second hoist drum, a clutch and lever therefor, which

lever, when in one position clutching the second drum to the motor shaft to thus be operated thereby and when in another position declutching the drum from the shaft, a brake for said drum, a brake lever for setting the brake to hold the drum or release it depending on the position of the brake lever, a second brake, a second brake lever for setting the brake to hold the second hoist drum or release it depending on the position of the second brake lever, a source of direct current power, an electromagnetically operable switch for connecting the source of power to the motor and generator field windings when the electromagnet of the electromagnetically operable switch is energized and for disconnecting the motor and generator field windings when said electromagnet is deenergized, control circuits disposed to be connected to the source of direct current, said control circuits including, a controller having an off position and at least one operating position, a control contactor having an actuating coil and contact members that are closed only when the actuating coil is energized, switching means, connected in parallel with said contact members, and thus comprising a first par-

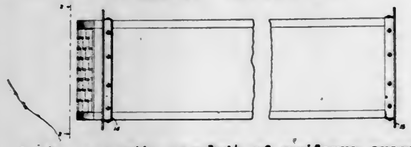


allel circuit, said switching means being controlled by the controller and in closed circuit condition only when the controller is in the off position, a second parallel circuit comprising second switching means, and connected in parallel therewith one sub-parallel circuit including a brake lever switch coupled to the first brake lever and a clutch lever switch coupled to the first clutch lever, and a second sub-parallel circuit including a second brake lever switch coupled to the second brake lever and a second clutch lever switch coupled to the second clutch lever, said second switching means being subject to the controller and being closed only when the controller is in the off position, and said brake lever switches and clutch lever switches being closed only when the respective levers to which they are coupled are in positions respectively to release the brakes and declutch the drums, said actuating coil of said control contactor and said first and second parallel circuits all being connected in series to said source of direct current, and means responsive to the opening of the contact members of said control contactor for deenergizing said electromagnetically operable switch.

2,351,912
EMULSION
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 26, 1941, Serial No. 385,313
13 Claims. (Cl. 252—311.5)

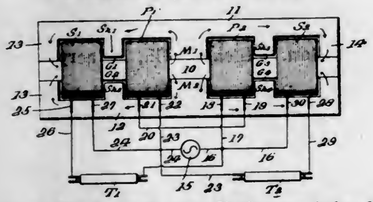
6. An oil-in-water type emulsion comprising a dispersed phase of an emulsifiable organic water-insoluble material, an aqueous continuous phase, and from about 0.1% to about 20% by weight of an emulsifying agent comprising a water-soluble alkali soap of polymerized rosin.

2,351,913
ACOUSTIC DELAY DEVICE
Lee G. Bostwick and John H. King, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1942, Serial No. 470,702
4 Claims. (Cl. 181—27)



1. An acoustic conduit of uniform cross section having walls subdividing it into a plurality of passages of equal length with the ends of the passages disposed on the curved front of an acoustic wave to be transmitted through the conduit, the cross-sectional dimensions of the passages being small as compared with the wavelength of the highest frequency to be transmitted so that the sound entering the passages is transmitted without distortion and on emerging from the conduit reforms substantially the wave front of the sound entering the passages.

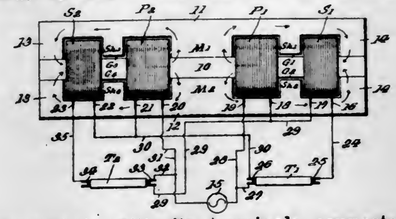
2,351,914
LUMINESCENT TUBE SYSTEM AND APPARATUS
Charles Philippe Boucher, Paterson, and Frederick August Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application July 14, 1941, Serial No. 402,412
5 Claims. (Cl. 315—257)



1. In a fluorescent gas discharge tube lighting system, the combination of a standard hot-cathode fluorescent gas discharge tube having incandescible filamentary electrodes spaced apart from each other, and having pairs of terminals for each said electrode extending therefrom; and a cooperating socket receiving each pair of terminals and presenting shunt means thereacross, thereby adapting the tube for initial cold-cathode operation.

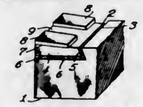
2,351,915
LUMINESCENT TUBE SYSTEM AND APPARATUS
Charles Philippe Boucher, Paterson, and Frederick August Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application July 14, 1941, Serial No. 402,413
9 Claims. (Cl. 315—278)

1. A fluorescent gas discharge tube lighting system comprising, a transformer having a primary winding and secondary winding; a fluorescent tube; a pair of sockets into which said tube is positioned connected to said secondary winding; and connections between the primary winding and a source of alternating current electrical energy by way of at least one of said pair of



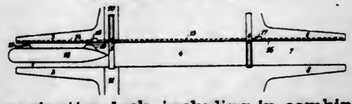
tube sockets with its terminals connected in series therewith, said one socket being so constructed that insertion of the tube short-circuits the socket terminals and removal of the tube therefrom interrupts the circuit source to the primary winding.

2,351,916
TOOL WITH HARD METAL CUTTING EDGE
Richard Braun, Stuttgart, Germany; vested in the Alien Property Custodian
Application January 30, 1941, Serial No. 376,570
In Germany January 16, 1940
18 Claims. (Cl. 29—95)



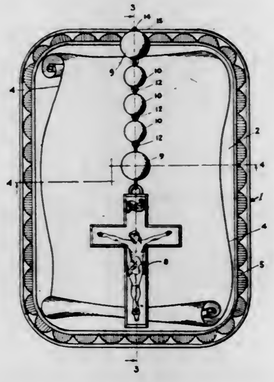
1. A cutting tool comprising a tool body, said body having a cutout therein, a supporting member disposed in said cutout and bonded to said tool body, said supporting member being provided with an inclined recess at an angle corresponding to the cutting angle of the tool, and a hardmetal substantially flat plate disposed in said recess and bonded thereto constituting the cutting edge of said tool.

2,351,917
DEVICE FOR NAVIGATING SHIPS IN LOCKS
Heinrich Breitwieser, Griesheim, near Darmstadt, Germany; vested in the Alien Property Custodian
Application August 23, 1939, Serial No. 291,610
In Germany August 27, 1938
6 Claims. (Cl. 61—8)



1. A navigation lock, including in combination, a side wall of the ship channel having a guideway therein below the top edge of the wall, sliding gates retractible and projectible from said side wall having the guideway and slidable in gate chambers interrupting said guideway, track means in said guideway and also interrupted at the gate chambers, a transfer track section carried by each gate, and ship towing means shiftable in the track means of said guideway and the transfer track section of a gate when the latter is opened, said towing means comprising a plurality of detachable sections adapted to be uncoupled and separated, thereby to be moved clear of the gates and permit a selected gate to be closed.

2,351,918
ARTICLE FOR RELIGIOUS USE
Raymond F. Brennan, Attleboro, Mass.
Application November 13, 1942, Serial No. 465,512
6 Claims. (Cl. 41—10)



1. An article for religious use provided with a display face having religious symbols constituting elements of a rosary in raised relief thereon and arranged with symbols of uniform size disposed in groups of a number conforming to the number in the groups occurring in a rosary with symbols of different size intervening between the groups whereby said groups may be located and identified by the sense of touch.

2,351,919
METHOD OF COATING WOODEN PATTERNS
Elvin M. Bright, Whitefish Bay, Wis., assignor to Plastic Veneering, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application July 16, 1942, Serial No. 451,245
6 Claims. (Cl. 117—103)

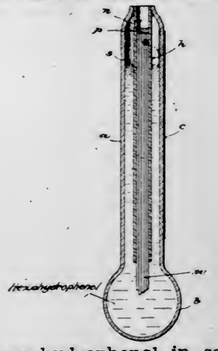


3. The method of producing a pattern having a wooden core member coated with cellulose butyrate dissolved in highly volatile solvents, said method including the steps of forming the wooden core member with depressions therein, spraying cellulose butyrate dissolved in highly volatile solvents upon the surface of the wooden core member, and placing the pattern with the freshly sprayed coating thereon in a curing compartment having dehydrated air therein at a subatmospheric pressure to extract the highly volatile solvents from the coating material.

2,351,920
APPARATUS FOR MEASURING HEAT CONSUMPTION
Oscar Constantin Brun, Copenhagen, Denmark; vested in the Alien Property Custodian
Application August 19, 1939, Serial No. 291,095
In Denmark August 23, 1938
1 Claim. (Cl. 73—193)

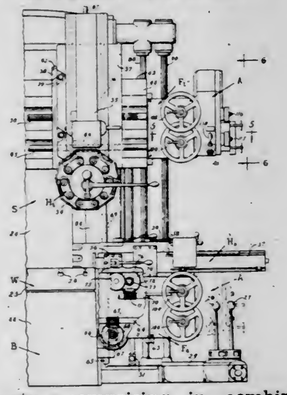
A heat consumption meter of the evaporation

type comprising an open container adapted to be heated by a heat delivering member and an



amount of hexahydrophenol in said container adapted to be evaporated.

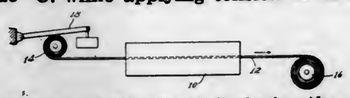
2,351,921
MACHINE TOOL
Edward P. Bullard, III, Fairfield, Leroy E. Alvey, Bridgeport, and Frank H. Mussler, Stratford, Conn., assignors to The Bullard Company, a corporation of Connecticut
Application July 16, 1940, Serial No. 345,773
35 Claims. (Cl. 82—5)



1. Apparatus comprising in combination a member adapted to be moved along intersecting paths simultaneously; separate means for moving said member along each of said paths; a transmission for operating said separate means at a plurality of speeds, but at a constant rate relatively to each other; an attachment adapted to be connected to said transmission; and means within said attachment adapted to cooperate with said transmission to vary the rate of operation of said separate means relatively to each other to thereby effect movement of said member along any one of a plurality of straight lines within a single plane.

2,351,922
TREATMENT OF SILICON-IRON ALLOYS
Stephen L. Burgwin, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 28, 1941, Serial No. 385,759
8 Claims. (Cl. 148—21.5)

1. In the method of reducing magnetostriction in a silicon-iron alloy containing up to 6% of silicon and which has been fabricated into strip form and treated to develop magnetic characteristics, the steps of, subjecting the treated alloy strip to an annealing treatment at a temperature between the Curie point of the alloy and 825° C. while applying tension to the strip,



the tension applied to the strip during the anneal being below the elastic limit of the alloy strip, the tension being the only treatment applied to the alloy strip in addition to said annealing treatment for effectively reducing the magnetostriction of the alloy strip.

2,351,923
METHOD AND DEVICE FOR MANUFACTURING SPRING NETS FOR MATTRESSES, SEAT CUSHIONS, AND THE LIKE
Hugo Büttner, Wuppertal-Vohwinkel, Germany; vested in the Alien Property Custodian
Application June 4, 1942, Serial No. 445,792
In Germany January 29, 1941
6 Claims. (Cl. 140—3)



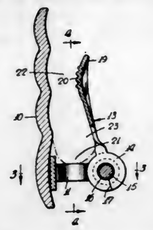
1. In an apparatus for making coil springs, the combination of a rotatable, reciprocable mandrel; means for rotating said mandrel alternately in opposite directions; means adapted to move said mandrel end-wise in one direction when it is rotated in one direction, and in the opposite direction when it is rotated in the opposite direction; and wire engaging means adapted to grip the wire on one end of the mandrel so that the wire is wound on the mandrel when the mandrel is rotated in one direction, and to release the wire when the mandrel is rotated in the opposite direction.

2,351,924
DISINFECTING PRODUCT AND PROCESS FOR ITS MANUFACTURE AND APPLICATION
Boruk Carnauh, Paris, France; vested in the Alien Property Custodian
No Drawing. Application March 4, 1940, Serial No. 322,257. In France March 27, 1939
7 Claims. (Cl. 252—187)

1. A product for decontaminating by yperite, lewisite and other war gases that can be destroyed by chlorine, particularly on fatty surfaces and on porous surfaces such as wood, cement, plaster, certain paints, the ground, leather, living skin, comprising a mixture of calcium hypochlorite and an excipient having a great power of penetration into said fatty and porous substances, which is very miscible with yperite and like products and has only a slight reaction with said chlorinated powder, said excipient being a chlorinated compound of the group consisting of orthodichlorobenzene, trichlorethylene, tetrachlorethane.

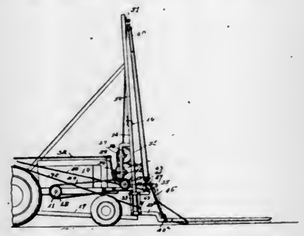
2,351,925
JEWELRY CLIP
Michael Chernow, New York, N. Y.
Application July 3, 1941, Serial No. 400,918
5 Claims. (Cl. 63—14)

5. An article of clip jewelry comprising a face member, a U-shaped bracket secured to the rear thereof and having a pair of jaws extending therefrom, a clip arm hinged at one end between said jaws and twisted at right angles beyond but near said jaws, a rivet across said jaws and said



clip arm, and coacting with said jaws frictionally to retain the arm under the compression of said rivet against ready pivoting displacement from any position of hinging adjustment.

2,351,926
HAY RAKE AND STACKER
Gilbert E. Coates, Laurens, Iowa
Application April 30, 1942, Serial No. 441,134
3 Claims. (Cl. 214—113)



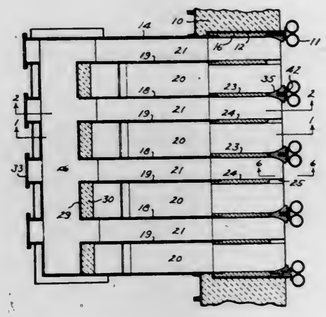
1. An implement of the class described, comprising an upright frame, a carriage vertically movable on said frame, a hay rake pivotally supported adjacent its lower end on said carriage, hooked arms carried on said hay rake and extended rearwardly thereof, a rock shaft on said carriage in position to be engaged by said hooked arms to hold said rake in loading position, lugs fixed to the rock shaft to engage and move the hooked arms free from the rock shaft when said rock shaft is rotated in one direction, and manually operated means for rotating said rock shaft in said one direction.

2,351,927
CROSS STRIP INSULATING STRUCTURE FOR CONCENTRIC CABLES
Renato Finzi Contini, Milan, Italy; vested in the Alien Property Custodian
Application March 16, 1940, Serial No. 324,429
In Italy July 3, 1939
6 Claims. (Cl. 174—29)



1. A concentric cable having inner and external members and an insulating structure for spacing said members, said structure comprising a pair of strips of insulating material each folded on lines extending laterally of the strip to form elements between the fold lines, adjacent elements being folded in opposite directions forming a zig-zag shape and each element having a central aperture adapted for the passage of the inner member of the concentric cable, said strips being interlaced and threaded on said inner member rotated 90° in respect to each other and with the said elements in close axial spacing, the outer circumferences of said elements when assembled together being shaped to provide at least one continuous helical line of support for the external member of the concentric cable.

2,351,928
BURNER
Ollison Craig, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application June 19, 1942, Serial No. 447,623
10 Claims. (Cl. 122—235)

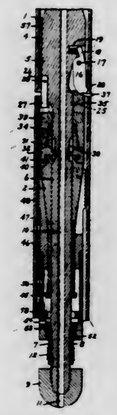


1. A burner for fluent fuel comprising a casing, a plurality of longitudinally extending parallel partitions dividing the interior of the casing into a series of rearwardly directed passages, and means to supply fluent fuel to certain of the passages and combustion air to other of the passages, the fuel passages alternating with the air passages, the rear edges of alternate partitions extending rearwardly a substantial distance beyond the rear edges of the intermediate partitions.

2,351,929
INSIDE PIPE CUTTER
Vernon Dee Davidson and Milo C. Wilson, Corpus Christi, Tex.
Application October 5, 1942, Serial No. 460,744
2 Claims. (Cl. 164—0.7)

2. In a pipe cutter the combination of a body including a head and a downwardly extending mandrel, there being vertical slots in said head, cutters pivotally mounted in said slots and having outwardly directed cutter blades at their lower ends, an expander slidably surrounding said mandrel, a reduced section on the mandrel, said expander including a plurality of sectors surrounding said mandrel and having portions entering said reduced section to support said expander on said mandrel, a swivel connection within the expander for said sectors, the upper end of said sectors forming a threaded area, a wedge ring threadably engaging the threaded area to hold the sectors in position about the mandrel, said wedge ring having upwardly ex-

tending fingers to enter said slots and move the fingers outwardly, and slip jaws engageable by



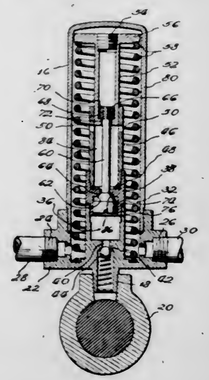
said expander and movable outwardly to hold the cutter in a fixed position within the pipe to be cut.

2,351,930

LUBRICATING SYSTEM

Ernest W. Davis, River Forest, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application April 16, 1941, Serial No. 388,774
4 Claims. (Cl. 184—7)



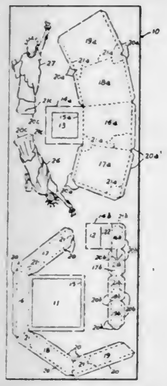
1. A measuring valve comprising means providing a valve chamber, a cylinder providing a measuring chamber, there being a passageway connecting said chambers, a poppet valve normally closing said passageway, a piston reciprocable in said cylinder for discharging lubricant from said cylinder into said valve chamber, a spring for moving said piston and valve in one direction, means connecting said piston and valve for simultaneous movement, a cover providing a lubricant chamber enclosing said piston and spring, a single inlet for said cover, said inlet being adapted for connection to a source of lubricant under intermittent pressure, a port connecting said last named chamber with said cylinder, and a valved passage connecting said valve chamber with a bearing surface.

2,351,931

DEVICE FOR THE THREE-DIMENSIONAL REPRESENTATION OF BUILDINGS AND OTHER PHYSICAL OBJECTS

Victor Debs, New York, N. Y.

Application May 8, 1942, Serial No. 442,780
4 Claims. (Cl. 46—30)



1. In pedestal structure, a plurality of individual pedestal parts separately formed of foldable sheet material and superimposed one upon another, each of said pedestal parts being folded into final form from a sheet blank which includes a platform panel and a series of interconnected lateral wall panels, the said platform panel being connected to an end of one of the lateral wall panels of said series, a securing flap extending from and along the opposite end of said one wall panel, and respective securing flaps extending from and along corresponding ends of the remaining lateral wall panels of said series, the said blank being cut and scored so that the respective panels and securing flaps thereof fold relative to each other in the forming of the said pedestal parts; and means securing the securing flaps of an upper pedestal part to the platform panel of a lower pedestal part, the platform panel of the topmost pedestal part being adapted to receive a representation for display.

2,351,932

SHUTTER

Hans C. Deckel, Munich-Solln, and Eduard Maurer and Franz Xaver Stömmer, Munich, Germany; vested in the Alien Property Custodian

Application January 8, 1941, Serial No. 373,640
In Germany January 8, 1940
11 Claims. (Cl. 95—62)



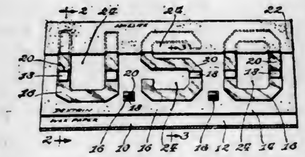
1. A photographic shutter for use with a camera, said shutter comprising a pair of shutter members formed of polarizing material, the shutter members being aligned with each other and being normally held in a position wherein their axes of polarization are crossed, means for mounting said shutter members whereby they may be moved relative to each other from said normal position to a position wherein their axes of polarization are parallel, and movable actuating means connected to said shutter members for carrying out a shutter operating cycle wherein the shutter members are adjusted from said normal position to a position in which their axes are parallel and are then returned to said normal position.

2,351,933

METHOD AND MEANS FOR TRANSFERRING PRINTED MATTER

William W. Decker and Charles G. Schnibben, Chicago, Ill.

Application February 2, 1942, Serial No. 429,148
2 Claims. (Cl. 41—33)



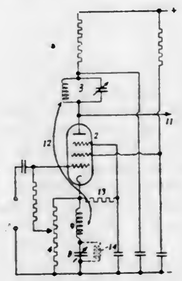
1. A transfer of the class described, comprising a backing having a waxed surface, water-soluble adhesive applied to said surface and forming a printing surface, a plurality of separate and independent indicia printed on said water-soluble adhesive in predetermined order whereby said indicia may be transferred to a third surface by moistening said transfer, said indicia comprising laminations of lacquer-like material having enclosed therebetween a pigmented layer, that portion of the backing between the indicia being free from lacquer-like material, and a layer of soluble adhesive covering said indicia and backing and adapted to secure said indicia to said third surface, the adhesive between the indicia being capable of being removed from said third surface by application of a proper solvent.

2,351,934

SELECTIVITY APPARATUS

Ladislas de Kramolin, Berlin-Kladow, Germany; vested in the Alien Property Custodian

Application December 22, 1937, Serial No. 181,087
In Germany December 22, 1936
7 Claims. (Cl. 179—171)



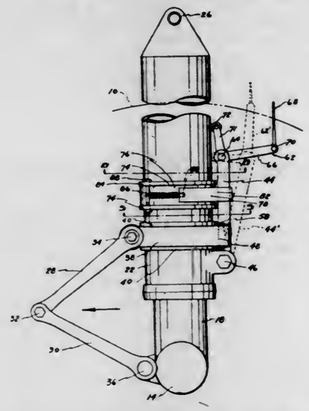
1. An electronic tube circuit arrangement comprising a cathode, an anode, and at least one grid, a counter-coupling channel and a series resonant circuit arranged in said cathode supply lead, and screening means surrounding the inductance of said series resonant circuit and connected to said cathode.

2,351,935

EMERGENCY BRAKING DEVICE

Leo J. Devlin, Los Angeles, Harold W. Adams, Santa Monica, Fred Landgraf, Los Angeles, and Charles S. Glasgow, West Los Angeles, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif.

Application December 21, 1940, Serial No. 371,190
12 Claims. (Cl. 244—103)



1. In an aircraft emergency braking device adapted for use when the aircraft contacts a landing surface, a pair of supporting struts fixed to the aircraft and extending downward toward the landing surface, landing wheels disposed to roll in a direction parallel to the normal direction of motion of the aircraft and carried by the lower extremities of said struts, lever means for locking said wheels in their parallel relationship during normal operation of the aircraft, quick release mechanism operable by the aircraft pilot to move said lever means to an unlocked position whereby said wheels are free to swing to a position in which their relationship to the direction of motion of the aircraft is non-parallel, and means simultaneously released by said lever means and operating in conjunction with the forward motion of said aircraft to force said wheels to swing.

2,351,936

AZO DERIVATIVES OF SULPHONES AND A METHOD OF MAKING THE SAME

Max Dohrn, Berlin-Charlottenburg, and Otto Laubereau, Berlin-Neukolln, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application November 26, 1940, Serial No. 367,224. In Germany November 20, 1939
17 Claims. (Cl. 260—175)

1. Process for the preparation of derivatives of sulphones of the general formula

$$\begin{matrix} Z.R.SO_2.R'.NH \\ \qquad\qquad\quad CO \\ Z.R.SO_2.R'.NH \end{matrix}$$

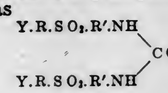
and

$$Z.R.SO_2.R'.X$$

wherein:

R and R' represent phenyl residues,
X a urea residue, and
Z an azo group with a radical of the benzene and naphthalene series, containing at least one

group capable of forming water soluble salts, comprising diazotizing sulphones of the general formulas



and

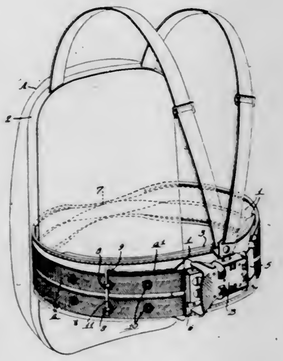
$$Y.R.SO_2.R'.X$$

respectively, wherein R,R' and X have the above given meaning, and Y indicates an amino group, and coupling the product with a compound of the benzene and naphthalene series capable of coupling and containing at least one group capable of forming water soluble salts.

2,351,937
PROCESS FOR THE MANUFACTURE OF RESITES
Emil Dreher, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application May 17, 1939, Serial No. 274,109. In Germany October 9, 1937
2 Claims. (Cl. 260—19)

1. A process for producing insoluble, infusible cast resin products which comprises condensing a phenol with formaldehyde, in the proportion of approximately 1 mol of phenol to 1.25 mols of formaldehyde in the presence of an alkaline catalyst until all of the formaldehyde has combined with the phenol, removing water by distillation under vacuum, neutralizing from 70 to 98% of the alakline catalyst with an organic soap forming acid having at least 12 carbon atoms, concentrating the resultant product to a viscous condition, pouring the viscous product into a mold and finally hardening the product in the mold at approximately 100° C.

2,351,938
PARACHUTE BELT
Georges Dreyfus, Montauban, France; vested in the Alien Property Custodian
Application February 28, 1941, Serial No. 381,155
In France June 9, 1939
3 Claims. (Cl. 244—151)



1. An adjustable belt for a parachute system which comprises, in combination, a band of fixed length adapted to be worn on the parachutist's body, a buckle including two elements separable from each other and an adjustable strap adapted to surround said band and permanently fixed at one end to one of said buckle elements, including a portion adapted to be folded between said strap and the parachutist's body, so as to form a loop engaging a part of the other buckle element, the portion of said strap that covers the folded portion thereof, being provided with a plurality of holes extending along a line transverse to said strap, a plurality of corresponding projections, carried by the folded portion, adapted to engage in said holes, a tube carried by the end of said folded portion and a double spindle including two branches, one adapted to be engaged in said tube and the other adapted to engage on said projections on the outside of the outer portion of the strap for locking said projections in their holes.

2,351,939
METHOD OF PRODUCING LACTAMS
Otto Drossbach, Heinrich Hopff, and Karl Huttner, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application February 13, 1941, Serial No. 378,770. In Germany March 4, 1940
3 Claims. (Cl. 260—239)

1. The process of producing lactams which comprises passing a vaporized saturated dicarboxylic acid containing at least 4 carbon atoms in the molecule, together with ammonia and hydrogen at an elevated temperature over a catalyst containing a hydrogenating constituent of the group consisting of nickel, cobalt, and copper and a dehydrating constituent of the group consisting of phosphate and borate, the catalyst component exerting the hydrogenating action being in molecular excess over the component exerting the dehydrating action.

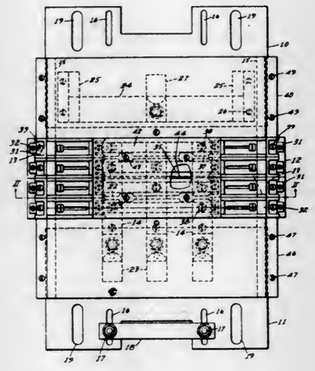
2,351,940
METHOD OF MAKING PLATED ARTICLES
Jules Dupuis, Huyssinghen, Belgium; vested in the Alien Property Custodian
No Drawing. Application March 13, 1940, Serial No. 323,695
3 Claims. (Cl. 117—71)

3. Process for preparing articles for electrolytic plating comprising coating the articles with a coating composition containing a metal powder, allowing the coating to dry, immersing the articles in a solution containing approximately 10 grams of acetic acid and 90 grams of pyrogallic acid per liter of water, and then passing the articles through a separate solution containing 2 grams of mercuric chloride, 20 grams of silver nitrate, and 30 centiliters of commercial ammonia in a liter of water, and then rinsing the articles.

2,351,941
PRODUCING ALUMINA
Walter Dyckerhoff, Mainz-Amoneburg, and Wilhelm Wittekindt, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian
No Drawing. Application April 29, 1941, Serial No. 391,007. In Germany April 20, 1940
3 Claims. (Cl. 23—143)

2. The process of recovering alumina from aluminous raw materials which comprises mixing the raw materials with an alkaline earth, calcining the mixture, lixiviating one part by weight of the calcined product with alkali metals carbonate solution in presence of three to six parts by weight of the calcined product obtained from a former operation, already lixiviated and consisting largely of silica residue, and precipitating alumina from the resulting alkali metal aluminate solution.

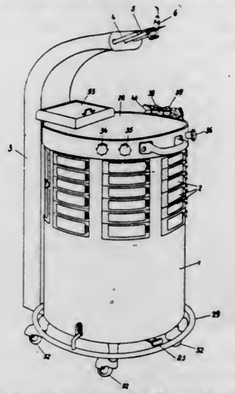
2,351,942
PANEL-BOARD CONSTRUCTION
Lloyd W. Dyer, Wilkinsburg, and Thomas F. Brown, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 11, 1941, Serial No. 388,088
13 Claims. (Cl. 175—371)



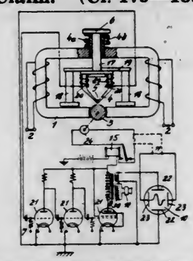
1. In a panelboard, in combination, a mounting plate, a unitary base removably secured to said plate for supporting a plurality of current controlling apparatus units, means for spacing said base from said plate, said apparatus units having individual housings removably mounted on top of said base, a plurality of power conductors disposed underneath said base, means extending through said base and accessible exteriorly of said housings for securing said conductors to said base, additional means extending through said base exteriorly of said housings for connecting said apparatus units to said power conductors, a barrier formed integrally with said base for separating the connecting means for adjacent apparatus units, and cover means removably secured to said barrier for protecting said connecting means.

2,351,943
DENTAL UNIT
Meinolf Ebbers, Nordhorn, Grafschaft Bentheim, and Adolf Helbig and Hans Mewes, Berlin, Germany; vested in the Alien Property Custodian
Application March 23, 1939, Serial No. 263,646
In Germany March 19, 1937
5 Claims. (Cl. 32—22)

2. A dental unit comprising in combination, a bed-plate mounted on rollers which rest on a floor, a cabinet rotatably mounted above the bed-plate, receptacles for instruments provided in said cabinet about its axis of rotation and accessible through its outer wall, a cover for said cabinet fixedly mounted from the bed-plate, a standard mounted at its base upon said bed-plate and extending upwardly along said cabinet, said standard being non-rotatable as to said cabinet and having its head overhanging the cover, said head adapted to carry dental tools, connections from power sources within the cabinet through the standard to its head, and said standard and said cabinet being positioned in relation to each other to render the instruments carried by said head and said cabinet movable to a place accessible to the dentist for performing a series of operations using a multiple of tools without leaving his patient.



2,351,944
MAGNETIC TESTING METHOD
Otto Engler, Lubeck, Germany; vested in the Alien Property Custodian
Application December 9, 1940, Serial No. 369,334
In Germany December 13, 1939
1 Claim. (Cl. 175—183)

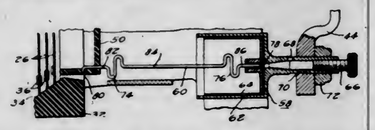


An arrangement for examining substantially circular magnetizable bodies, comprising in combination with a test body of magnetic material possessing stray fields about the surface thereof, a substantially closed magnetic core circuit, including an air gap disposed in the stray field of the test body, means including an electric motor for causing rotation of the test body relatively to the air gap about the center axis of the test body, means including an amplifier with indirectly heated output valve for indicating magnetic impulses induced in said magnetic core circuit as a result of structural discontinuities in the relatively rotating test body, and means including a relay inserted in the anode circuit of said output valve and adapted to connect said electric motor to its source of current when energized by anode current.

2,351,945
CIRCUIT CONTROLLING APPARATUS
Donald W. Exner and Omar C. Walley, Lima, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 7, 1942, Serial No. 464,872
6 Claims. (Cl. 200—97)

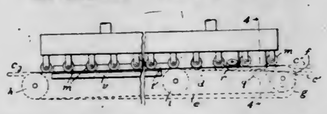
2. In a circuit controlling apparatus, in combination, a plurality of contact members disposed

to be progressively actuated into and out of engagement, an actuating mechanism for the contact members, the actuating mechanism comprising a core member, an armature member normally biased for pivotal movement in a predetermined direction to effect a progressive switching operation of the contact members, a dashpot having a stationary cylinder and a piston movably disposed therein associated with the armature member, a relatively stiff wire disposed with its ends secured to the piston and the armature member to prevent sudden large movements of the armature member, the wire having curved



sections disposed to translate the pivotal movement of the armature member to a straight line pull on the piston to prevent side pressure on the cylinder as the piston moves therein, the curved sections also permitting movements of small amplitude of the armature member to effect a limited switching operation of the contact member without effecting a corresponding movement of the piston of the dashpot, and a winding carried by the core member disposed to be energized to effect the pivotal movement of the armature member in a direction opposite to the predetermined normally biased direction.

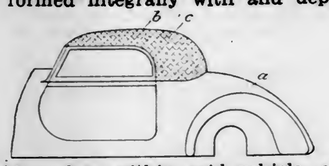
2,351,946
APPARATUS FOR JOINING VENEERS
Adolf Friz, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian
Application December 13, 1940, Serial No. 370,059
In Germany November 7, 1939
12 Claims. (Cl. 144—279)



1. A veneer joining machine, comprising a binder-applying section wherein binder is applied to the edges of the two veneers to be joined and a bonding section wherein said edges are moved into intimate engagement so as to form a substantially permanent seam or bond, said bonding section extending in a substantially horizontal plane, a pair of movable guide surfaces for carrying said veneer through said binder-applying section, said guide surfaces being disposed side by side but in different planes and each guide surface extending in the same general direction to merge into the plane of said bonding section, means for applying binder to the edges of said veneers while they move through said binder applying section, and means for exerting pressure downwardly onto the veneers as they pass through the machine.

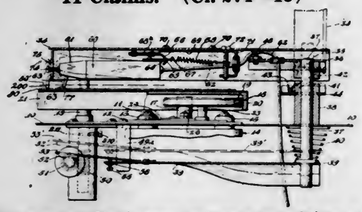
2,351,947
AERIAL FOR MOTOR VEHICLES
Johannes Gäbler, Stuttgart-Unterturkheim, Germany; vested in the Alien Property Custodian
Application March 7, 1939, Serial No. 260,249
In Germany March 10, 1938
3 Claims. (Cl. 250—33)

2. In a vehicle, the combination of a unitary roof structure formed of a rigid insulating material adapted to be pressed into the form of said roof having an outer surface and an inner surface within said vehicle, at least one reenforcing rib formed integrally with and depending



from said surface within said vehicle, a radio aerial formed of conducting material supported beneath said roof structure by said depending rib a spaced distance from said surface within said vehicle.

2,351,948
SOUND RECORDING AND REPRODUCING APPARATUS
Paul Stead Gay, Charlotte, Mich., assignor to The Wilcox-Gay Corporation, Charlotte, Mich., a corporation of Michigan
Application February 26, 1940, Serial No. 320,823
11 Claims. (Cl. 274—13)



1. In a recording apparatus comprising a turntable having a spindle, said spindle being rotatable with said turn-table, a motor, a power connection from said motor to said turn-table, a cutting arm, a rotatable post carrying said cutting arm, a lateral feed arm carried by said post, said spindle driving a screw, a knife edge pawl on said lateral feed arm engageable with said screw, rotation of said screw moving said knife edge pawl longitudinally thereof and sweeping said cutting arm across the turn-table, said knife edge pawl being resiliently mounted on said lateral feed arm.

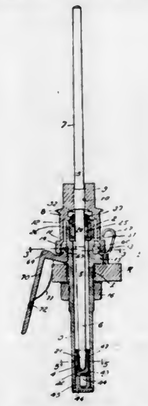
2,351,949
HEAT-TREATED ROSIN SIZE
Edmund A. Georgi, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 14, 1942, Serial No. 454,837
15 Claims. (Cl. 260—105)

1. The process of improving an alkali metal salt of rosin which comprises heating an alkali metal salt of rosin with water at a temperature from about 250° C. to about 350° C. for a period from about 10 minutes to about 3 hours and at a pressure from about 500 lbs. per square inch to about 2500 lbs. per square inch.

2,351,950
METHOD OF PRESERVING VEGETABLES, FRUITS, AND SIMILAR VEGETABLE FOOD BY DRYING AND BRIQUETTING
Aage Gernow, Copenhagen, Denmark; vested in the Alien Property Custodian
No Drawing. Application April 16, 1942, Serial No. 439,293. In Denmark October 24, 1940
1 Claim. (Cl. 99—204)

A method of preserving vegetables, fruits and similar vegetable foodstuffs which contain in the fresh state less than 20% dry substance which comprises drying the material to be preserved until its content of dry substance is in the range of 70% to 90%, then pressing the dried material into a briquette with a surface pressure between 200 and 1000 kilograms per square centimeter, the dry substance content being adjusted to a value which is optimum at the pressure to be employed for producing high specific gravity in the briquette, said optimum value progressively increasing within the limits of said range as the pressure to be employed is increased from 200 to 1000 kilograms.

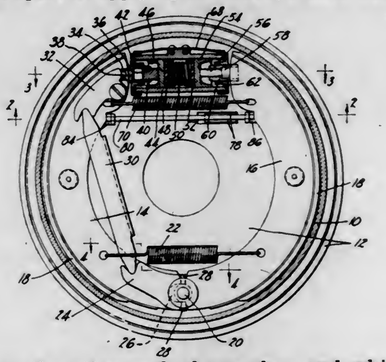
2,351,951
SPINDLE FOR TEXTILE MILL USE
Herbert Gleitz, Cleveland, Ohio, assignor to Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application August 1, 1940, Serial No. 349,187
3 Claims. (Cl. 308—228)



3. A spindle construction for textile mill use, comprising a rigid tubular housing open at the top and adapted and arranged to be mounted in fixed upright position as on a spindle rail, a spindle blade extending downwardly into the housing, a bolster bearing at the top of the housing comprising a series of vertical cylindrical rollers around the blade substantially in snug rolling contact therewith throughout the length of the rollers and similarly in snug rolling contact with a fixed cylindrical inner surface of the housing, said rollers being sufficiently short relative to their diameters so that notwithstanding said rolling contact, the rollers establish a pivot center about which end portions of the blade can move laterally substantial distances without locking the rollers against free rolling movement, and a laterally floating footstep bearing for the lower end of the blade in the lower part of the housing, said footstep bearing including strong spring means acting at uniformly angularly spaced points about the blade axis normally to center the lower end of the blade in the housing.

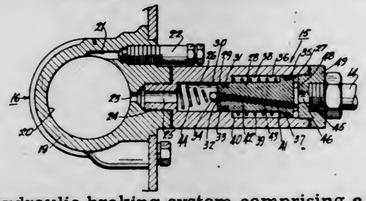
2,351,952
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 26, 1939, Serial No. 311,044
14 Claims. (Cl. 188—152)

1. A brake comprising, for use in combination with a drum, a pair of shoes which are shiftable individually to anchor at their opposite ends according to the direction of drum rotation, a mechanical applying device acting on the ends of both shoes at one side of the drum to spread them apart in applying the brake, a lever mount-



ed on the other end of one shoe and which is connected to the mechanical applying device to operate it, and a fluid-pressure applying device acting on said lever and on the other end of the other shoe.

2,351,953
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 3, 1939, Serial No. 302,659
1 Claim. (Cl. 188—152)



A hydraulic braking system comprising a master cylinder, a wheel cylinder having a threaded opening therein, a device having an externally threaded portion at one end thereof screwed into said bore and a threaded opening therein at the end opposite the externally threaded portion of the same diameter as the opening in the wheel cylinder, said device constituting a two-stage pressure control for first maintaining the same fluid pressure in the wheel cylinder and master cylinder and subsequently converting pressure produced in the master cylinder into higher pressure operating in the wheel cylinder, and a conduit connected at one end to the master cylinder and having its other end externally threaded so that it may be screwed into the opening in the wheel cylinder or into the opening in the two-stage pressure control device.

2,351,954
ENZYMIC PROCESS
Herbert C. Gore and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application November 9, 1939, Serial No. 303,624
8 Claims. (Cl. 195—17)

6. As a composition of matter, an enzyme activator comprising a member of the group con-

sisting of a soy bean flour and a wheat flour, and a buffer salt in substantially equal parts.

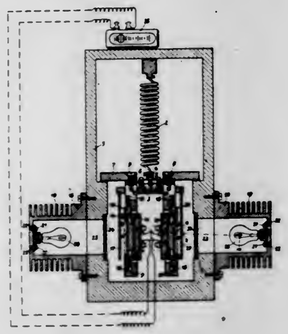
8. A process for augmentation of enzymic activity, which comprises admixing a member of the group consisting of a soy beam flour and a wheat flour, and a buffer salt, preparing a mixture containing starch, a diastatic enzyme-containing material and water, incorporating therewith the flour-buffer salt admixture, then heating with stirring to convert the starch, raising the temperature to destroy the enzyme, and subsequently cooling.

2,351,955

GRAVITY METER

Anton Graf, Berlin-Steglitz, Germany; vested in the Alien Property Custodian

Application February 4, 1941, Serial No. 377,395
In Germany December 30, 1939
5 Claims. (Cl. 265—1.4)



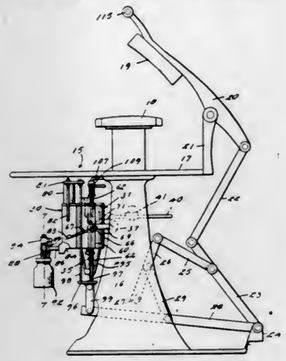
1. A gravity meter comprising in combination a casing for the meter, a mass mounted within the meter casing for vertical displacement, spring means balancing the gravity force of said mass, an optic-electric cell system for converting light variations into electric values, said system including two cell units, a first light source emitting light towards one cell unit, a second light source emitting light towards the other cell unit, a first diaphragm arranged in each of the light paths, a second diaphragm arranged in each of the light paths and located in front of said first diaphragm, each diaphragm having apertures which permit light from the source associated therewith to pass therethrough towards the cell unit associated with the diaphragm, means for mounting said first diaphragms whereby they are adjustable in a substantially vertical direction and are adjustably turnable about a substantially horizontal axis, said second diaphragms being arranged to be displaced with said mass in such manner that upon a displacement of the mass the quantity of light reaching one of the cell units increases while the quantity of light reaching the other cell unit decreases, indicating means operatively connected to said cell system to indicate the difference between the measuring values of said two units, said two cell units being arranged back to back in spaced relation in the center of the meter casing, said meter casing being provided with openings, one for each light source, a separate lamp casing arranged outside of the meter casing opposite each opening in the meter casing and means for mounting one of said light sources in each lamp casing whereby the light source is substantially vertically displaceable relative to the first diaphragm associated therewith.

2,351,956

SEMIAUTOMATIC OPERATING DEVICE FOR GARMENT PRESSES

Wallace Scott Graham, Lancaster, Ohio

Application April 30, 1942, Serial No. 441,177
9 Claims. (Cl. 121—38)



1. A semi-automatic operating attachment for garment presses, comprising a cylinder, a piston slidably mounted therein and having a depending piston rod connected to the head-closing toggle of a garment press, a supply line for a piston actuating medium having branch passages opening into the ends of the cylinder, a valve interposed in the supply line for controlling the flow of the medium to one or the other of the branch passages, means connected to the piston rod for actuating said valve near the beginning of the downstroke of the piston to position said valve so that the medium will pass to the upper end of the cylinder to force the piston down for closing the presshead, and gravity actuated means for actuating the valve, after the piston has reached the lower end of its stroke, for moving the valve so that the medium will be admitted to the lower end of the cylinder for forcing the piston upwardly to open the press head.

2,351,957

SADDLE SUPPORT FOR CYCLES

Michele Grivetto, Turin, Italy; vested in the Alien Property Custodian

Application March 18, 1942, Serial No. 435,159½
In Italy May 31, 1941
1 Claim. (Cl. 155—5.24)



Cycle saddle support, comprising a saddle pillar adapted to be fixed in the saddle socket, a rod enclosed in said saddle pillar and rotatably mounted on bearings at the end of said saddle pillar, a head on the said rod and adapted to carry the saddle, a rubber sleeve fitted on said rod and means for forcing said rubber sleeve between the rod and inner wall of said saddle pillar.

2,351,958

PRODUCTION OF HARDENABLE ORTHOCRESOL ALDEHYDE CONDENSATES

Bernhard Habraschka, Hamburg, Germany; vested in the Alien Property Custodian

No Drawing. Application August 1, 1940, Serial No. 349,286. In Germany December 14, 1939
3 Claims. (Cl. 260—19)

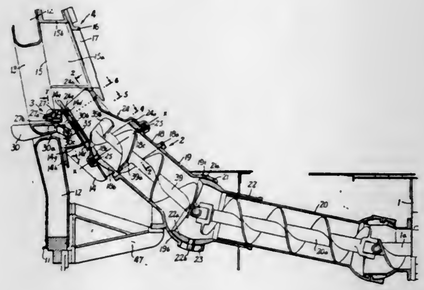
1. Process for the preparation of a heat hardenable orthocresol-formaldehyde condensate, which comprises preliminarily condensing orthocresol and formaldehyde, in about the proportions of one mol of orthocresol and 1½ to 2½ mols of formaldehyde, to form a preliminary condensation product, and thereafter further condensing said preliminary condensation product in the presence of tricresyl phosphate and a fatty acid having from 9 to 18 carbon atoms in its molecule.

2,351,959

STOKER

William T. Hanna, Cincinnati, Ohio

Application January 12, 1940, Serial No. 313,599
28 Claims. (Cl. 110—105.5)



1. In a firebox having a back wall provided with a firing opening and fuel distributing apparatus associated with said firing opening, the combination of a conduit system arranged so as to effect delivery of fuel to the distributing apparatus, said conduit system including a conduit section adapted to direct the flow of fuel delivered therethrough to said distributing apparatus, a rotatable screw conveyor in said conduit section, said conduit section being adjustable independently of said distributing apparatus and of said screw conveyor to adjust the direction of the flow of fuel to said distributing apparatus.

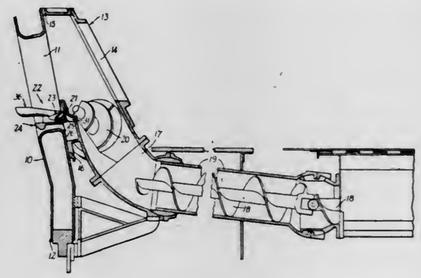
2,351,960

COAL DISTRIBUTING APPARATUS FOR STOKERS

William Thompson Hanna, Cincinnati, Ohio

Application September 26, 1940, Serial No. 358,395
10 Claims. (Cl. 110—105.5)

1. In apparatus for distributing over a firebox through a firing opening in the back wall thereof coal supplied thereto by conveying apparatus, in combination, a blast chamber adapted to be located within said firing opening and adjacent the bottom wall thereof and constructed to direct over the firebox a plurality of steam jets to distribute over the firebox coal falling into the paths of said steam jets, said steam jets being located in at least two different horizontal planes, and coal-guiding apparatus located within said firing opening forwardly of said blast chamber, and cooperating with said jets to guide the coal particles moving under the influence of the steam jets, said coal-guiding apparatus comprising a table portion having coal supporting and guiding surfaces for cooperating with the lower jets to distribute the coal over the central, front and side portions of said firebox, and two elongated chute portions having coal supporting and guiding surfaces elevated above either side of said table portion and curved toward the respective rearward corners of said firebox to cooperate with the upper steam jets to distribute coal over the rearward corners of said firebox, said chute portions being removably supported by said table portion.



2,351,961

FROST RESISTANT MICROPOROUS PRODUCT

Gommaris Franciscus Hannôt, Rotterdam, Netherlands; vested in the Alien Property Custodian

No Drawing. Application December 9, 1940, Serial No. 369,351. In Germany October 22, 1940
4 Claims. (Cl. 106—87)

1. A method of preparing a decoction adapted to render settable mixtures of hydraulic cement and a mineral aggregate frost resistant, while maintaining an anti-slip porous structure of the set mixture comprising the steps of boiling orange skins in water until the extracted skin parts sink and filtering the decoction thus obtained.

2,351,962

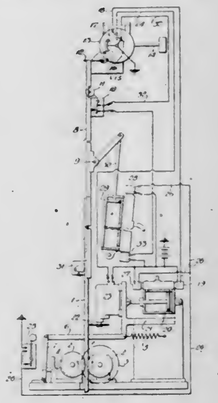
ROD-HANDLING MACHINERY

George Harrison, Batavia, N. Y., assignor to Doehler Die Casting Company, New York, N. Y., a corporation of New York

Application March 19, 1942, Serial No. 435,357
12 Claims. (Cl. 29—69)

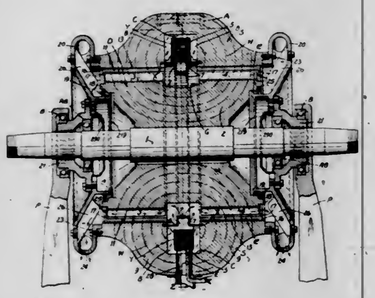
1. Apparatus for handling rod from a continuous rod-casting machine comprising a cradle in which the rod advances as it is cast, a pivotal support for the cradle on which it tips to discharge a severed rod, means successively operating to sever the rod and tip and restore the cradle to rod-receiving position, and a device for initiating said successive operations, including

a member connected to and tipping with the cradle and a cooperating second member which is



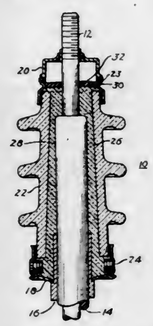
relatively fixed with respect to the tipping movement of the other, whereby said device functions according to change of cradle inclination.

2,351,963
ELECTROMAGNETIC APPARATUS
Charles T. Hayes, York House, Worcester, England, assignor to Martin P. Winther, trustee, Waukegan, Ill.
Application March 3, 1943, Serial No. 477,817
In Great Britain September 18, 1942
17 Claims. (Cl. 188—104)



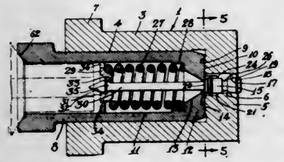
1. In apparatus of the class described, outer and inner relatively rotary coaxial cylindric magnetic members, the outer one of which is hollow and the inner one solid, means for generating a magnetic field and linking said members, the hollow member having a smooth flux-receiving surface and the solid member a flux-concentrating toothed surface, whereby heat is generated at the smooth surface, and means for circulating liquid between said members and in contact with the flux-receiving surface comprising at least one inlet for the circulating liquid and at least one outlet therefor disposed below the level of the substantially lowermost portions of said smooth flux receiving surface, said liquid being supplied at such a rate as to maintain on the smooth surface a cylindric film by rotary centrifugal action thereon of the toothed surface, said film having a discrete surface adjacent to the ends of the teeth on the toothed surface.

2,351,964
FILLING COMPOUND FOR INSULATING CONDUCTORS
Charles F. Hill, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 25, 1942, Serial No. 452,260
4 Claims. (Cl. 174—137)



1. An electrically insulating filling composition for bushings comprising a substantial proportion of inorganic insulating solid particles of from 2 to 40 mesh fineness and a liquid compound of a density greater than water in amount sufficient to fill all the interstices between the solid particles, the compound comprising a petroleum asphalt, a chlorinated diphenyl having a chlorine content of from 55% to 70% and being a non-crystalline, glassy, resin-like solid at room temperature and a petroleum oil.

2,351,965
NOZZLE
James F. Hoffer, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application March 1, 1939, Serial No. 259,088
25 Claims. (Cl. 299—107.6)

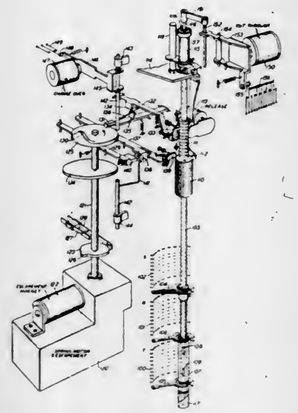


1. In a fuel injection nozzle, in combination, a casing having a fuel inlet valve passage and a discharge passage opening from said casing, an outwardly opening valve controlling said inlet passage and having an annular seat defining a valve opening pressure area, a valve member and a coil compression spring tending to engage said member with said seat, the opening through said seat constituting the sole path of fuel inlet to said discharge passage, and an outwardly opening pintle movable with said valve member and having an inwardly tapered symmetrical control cone at the outer end coacting during fuel discharge with said discharge passage to define a restricted annular fuel discharge orifice in uninterrupted communication with said valve, said pintle having an integral shank extending in peripherally spaced relation through said seat and having an effective pressure area larger than said first mentioned area and exposed to the pressure in said discharge passage and acting during fuel discharge in a direction to lift said valve, the outer end of said pintle having a narrow cylindrical land area on the periphery and being no larger in diameter than said discharge passage.

2,351,966
NICKEL DEPOSITING BATH AND METHOD
George B. Hogaboom, New Britain, Conn., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey
No Drawing. Application October 12, 1940, Serial No. 360,918
6 Claims. (Cl. 204—49)

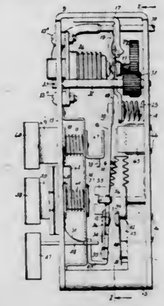
1. A nickel depositing bath consisting essentially of an aqueous solution of nickel chloride and nickel acetate adjusted by hydrochloric acid to a pH value within the range of 2.0 to 5.5 electrometric, the total nickel content of the bath being from 4.5 to 17.0 oz./gal., of which 4.0 to 12.0 oz./gal. are supplied by the nickel chloride and from 0.5 to 5.0 oz./gal are supplied by the nickel acetate.

2,351,967
SELECTOR SWITCH
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 18, 1943, Serial No. 491,274
5 Claims. (Cl. 179—27.52)



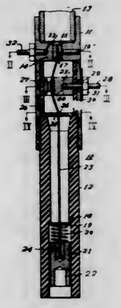
1. A two-motion step-by-step switch comprising a brush carrying shaft, a vertical ratchet mechanism for imparting vertical movement to said shaft, a rotary ratchet mechanism for imparting horizontal movement to said shaft, a power driven rotatable cam shaft having a first and a second cam mounted thereon, a vertical selecting finger positionable between said first cam and said vertical ratchet mechanism for imparting the movement of said cam shaft to said vertical ratchet, a rotary selecting finger positionable between said second cam and said rotary ratchet mechanism for imparting the movement of said cam shaft to said rotary ratchet, an escapement device for causing said cam shaft to make one revolution with each operation of said escapement device, and means for controlling the positioning of said vertical and rotary selecting fingers.

2,351,968
REFRIGERATOR CONTROL DEVICE
Frederick W. Hottenroth, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 5, 1942, Serial No. 457,413
17 Claims. (Cl. 200—83)



1. In a refrigerator control apparatus for controlling the temperature of a space to be cooled, a switch member movable between circuit-opening and circuit-closing positions to control said temperature, expansible means responsive to said temperature for effecting cyclic operation of said switch member between said positions normally to maintain said temperature within a predetermined range, a pair of permanent magnets operatively associated with said switch member, a first magnetizable member normally spaced from one of said magnets and movable into attractive relation therewith releasably to bias said switch member to a circuit-opening position thereby temporarily to maintain said space at a temperature above said predetermined range, and a second magnetizable member normally spaced from the other of said magnets and movable into attractive relation therewith releasably to bias said switch member to a circuit-closing position thereby temporarily to maintain said space at a temperature below said predetermined range.

2,351,969
PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS
Robert O. Hurst, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 24, 1942, Serial No. 463,242
4 Claims. (Cl. 200—117)



2. In a protective device for electrical apparatus, a tubular case, terminal members disposed in opposite ends of the case, a fusible conductor

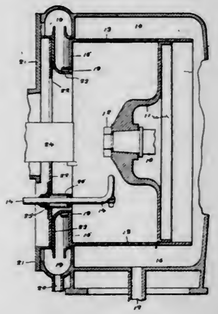
extending between the terminals and electrically connected with them, a partition extending across the tubular case dividing it into two chambers the partition having a central opening through which the fusible conductor extends, a contact member disposed in the case and insulated therefrom to engage the fusible conductor intermediate its ends, the contact member having an opening which is not concentric with the tubular member, the fusible conductor extending through the opening in the contact member, a spring disposed to bias the lowermost terminal member downwardly thereby to maintain the fusible conductor taut and in electrical engagement with the contact member, and means for making an electrical contact with the terminal members and the contact member whereby electrical connections may be made across a portion of the fusible conductor.

2,351,970

PROCESS FOR THE SEPARATION OF YEAST FROM YEAST SUSPENSIONS

Max Petrus Jozef Maria Jansen, Amsterdam, Netherlands; vested in the Alien Property Custodian

Application December 20, 1939, Serial No. 310,261
In the Netherlands December 22, 1938
5 Claims. (Cl. 210—67)



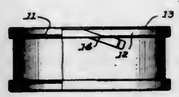
1. In the art of separating yeast from an aqueous suspension of yeast the process which comprises flowing an aqueous suspension of yeast into a rapidly rotating centrifugal bowl provided with a circumferential filtering portion which retains yeast while allowing aqueous liquid to pass through the same, said centrifugal bowl being provided with an annular dam extending from the filtering surface toward the axis of rotation, for retaining, within said bowl, a circumferential layer of yeast and aqueous medium, rotating said bowl at a speed which produces the passage of aqueous medium through said filtering portion, and produces the formation of said circumferential layer and the movement of yeast in said circumferential layer outwardly against yeast which accumulates as a layer inwardly of said circumferential filtering portion, the flowing of said suspension of yeast into said rotating bowl being at a rate greater than the rate at which the liquid portion thereof is discharged from the said bowl by passage through said filtering portion, whereby an accumulation of liquid, from which yeast has been separated, tends to form as a part of said circumferential layer in the parts thereof nearest the center of rotation and near enough to the center of rotation to be incapable of being retained by said dam, and discharging at least the major part of said accumulation past said dam to the exterior of said bowl.

2,351,971

OPENING TINS AND OTHER CONTAINERS

Birger Johnsen, Sandnes, near Stavanger, Norway; vested in the Alien Property Custodian

Application January 3, 1941, Serial No. 373,033
In Norway August 25, 1939
2 Claims. (Cl. 220—54)



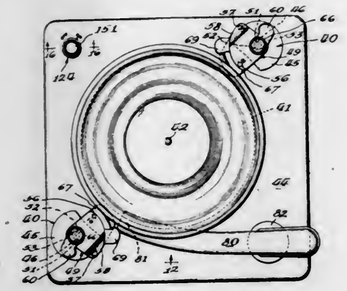
1. In a container of the type described, a container body the upper edge of the side wall of which has a reverted flange, a lid for the container having a U-shaped rim, said U-shaped rim having an angularly depending integral ripping tab, the arms of the rim receiving the reverted flange of the container and being clamped thereagainst, the outer arm of the rim being connected to said lid by a weakened line, said weakened line extending diagonally across the rim, the upper edge of said tab forming a continuation of the said diagonal weakened line and providing means by which the rim may be engaged and ripped from the lid.

2,351,972

AUTOMATIC PHONOGRAPH

Carl G. Johnson, Chicago, Ill., assignor to J. P. Seeburg Corporation, a corporation of Illinois

Application March 21, 1940, Serial No. 325,111
10 Claims. (Cl. 274—10)



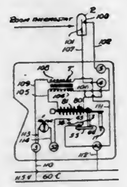
1. In an automatic phonograph having a turntable, a motor driving said turntable, a player arm and record changing mechanism, in combination, a member continuously rotated by said motor and having a projection, a pivoted controlling member having a projection, means for biassing said controlling member to bring its projection into the path of first said projection, latch means for holding said controlling member with its projection out of the path of the first said projection, means actuated by said player arm for releasing said latch means, said controlling member being adapted to engage and actuate said record changing mechanism when actuated by first said projection, means on said record changing mechanism adapted to be brought into operative relation with said rotary member by said actuation, whereby the record changing mechanism is further operated, and means on said record changing mechanism for returning said controlling member to latched position.

2,351,973

OIL AND AIR CONTROL MECHANISM FOR BURNERS

Roy W. Johnson and Vernon R. Pawelsky, Milwaukee, Wis., assignors to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin

Application August 29, 1940, Serial No. 354,714
14 Claims. (Cl. 236—1)



9. A control mechanism of the character described for use in regulating the supply of oil and air to an oil burner and comprising a main casing having a liquid fuel supply chamber provided with an outlet, a metering valve for regulating flow through said outlet, means for controlling the position of the valve to raise and lower the flame in the burner, a control housing mounted on the main casing, a terminal board supported in said control casing, a switch adapted to control the operation of an electric motor-driven blower, said switch being carried by the terminal board and being biased to closed position, and a switch-operating element shiftably supported in the housing and interconnected with said means whereby the switch will be opened when the valve is moved to a position to lower the flame in the burner a predetermined extent and will be closed in other positions of the valve.

2,351,974

PRODUCTION OF SILVER PREPARATIONS

Max Kollmar, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian

No Drawing. Application September 24, 1940, Serial No. 358,184. In Germany September 29, 1939
6 Claims. (Cl. 106—1)

1. A preparation for silvering the surfaces of ceramic ware by firing which comprises a flux, a solvent vehicle, silver, and a compound of a heavy metal whose oxide has a melting point higher than that of said flux, said heavy metal being selected from the group which consists of manganese, cerium, lanthanum, thorium, uranium, tantalum, and nickel.

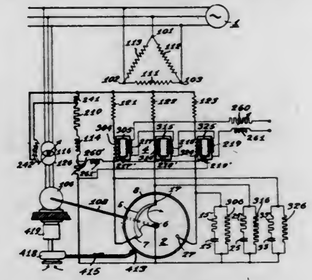
2,351,975

APPARATUS FOR INTERRUPTING ALTERNATING CURRENTS

Floris Koppelmann, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian

Application December 9, 1936, Serial No. 114,965
In Germany December 13, 1935
49 Claims. (Cl. 175—364)

1. A contact device for alternating currents, comprising at least one mechanical interrupter, a synchronous motor designed to be operated with the frequency of the current to be interrupted, an operative connection between said motor and the movable contact of said interrupter, said connection being adjusted so as to effect the interruption in the neighborhood of the zero value of the current, means for periodically reducing the current intensities in the neighborhood of said zero value and at least one impedance arranged in direct parallel connection to the break of said interrupter, the opening speed of said interrupter and the increase of the



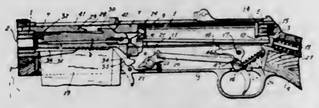
periodic voltage of said alternating current biased by said impedance being adapted to each other so that the disruptive voltage between the opening contacts of said interrupter is always greater than the instantaneous value of said periodic voltage.

2,351,976

AUTOMATIC FIREARM

Josef Koucký, Brunn, Bohemia; vested in the Alien Property Custodian

Application December 6, 1939, Serial No. 307,807
In Czechoslovakia December 10, 1938
2 Claims. (Cl. 42—3)



1. An automatic firearm comprising in combination a breech case, a breech block carrier mounted to reciprocate backward and forward in said case, a breech block movable by said carrier between a locked and unlocked position while said carrier is traversing a forward portion of its path of movement, and movable with said carrier during the remainder of its movement, a firing pin mounted in said block, a striking lever pivoted on said carrier and having a striking portion arranged to strike said firing pin, means for moving the carrier backward on firing, means for moving said carrier forward and for actuating said striker comprising a recuperator spring and a connection between said spring and striking lever at a point of the lever removed from its pivot, said case being formed with a stop engaging the forward part of the free end of the striking lever when the breech block is in locked position.

2,351,977

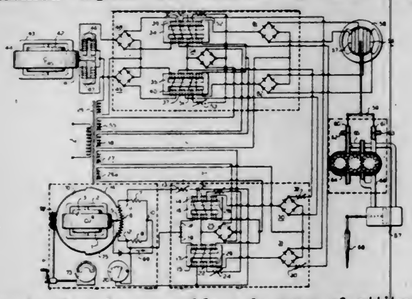
AUTOMATIC AIRCRAFT STEERING DEVICE

Adam Kronenberger and Fritz E. Bartelt, Berlin, Germany; vested in the Alien Property Custodian

Application April 17, 1941, Serial No. 388,980
In Germany October 27, 1939
6 Claims. (Cl. 172—282)

6. An automatic control device for aircraft comprising means for producing electrical signals proportional to deviation of said craft from a predetermined attitude, means for limiting said signals to a predetermined magnitude, means for producing electrical signals proportional to the

rate of deviation of said craft from said attitude, means for combining said limited signals with said rate signals, and means responsive to the combined signal for controlling said craft,



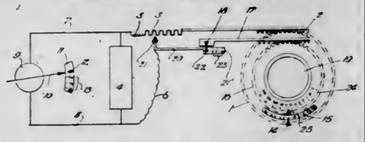
whereby for sharp, sudden changes of attitude, said rate signals are predominantly controlling to prevent oscillating of said craft, and for slow, steady attitude changes said deviation signals predominate.

2,351,978

PHOTOGRAPHIC CAMERA

Heinz Küppenbender, Dresden, Germany; vested in the Alien Property Custodian

Application March 15, 1941, Serial No. 383,535
In Germany January 25, 1940
5 Claims. (Cl. 95—10)



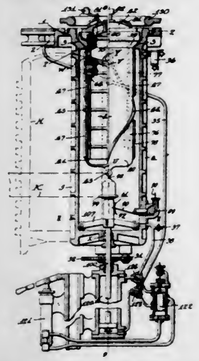
1. In a camera, the combination of a photoelectric exposure meter, a lens systems, a shutter, a variable lens diaphragm, a shutter speed adjusting member, a lens diaphragm adjusting member, a variable resistance in the circuit of said photoelectric exposure meter, a measuring instrument in said circuit provided with a pointer, an exposure time multiplier scale over which said pointer moves, movable means operatively connected to one of said adjusting members for varying said resistance on the actuation of the adjusting member to which said movable means are connected, second movable means operatively connected to the second adjusting member for varying said resistance on the actuation of the second adjusting member, said second movable means comprising a pair of movable elements one of which is operatively connected to said second adjusting means, releasable coupling means connecting said elements together, said elements when coupled being moved together to effect variation in said resistance on actuation of said second adjusting member, the element connected to said second adjusting member being relatively movable with respect to the second element on actuation of said second adjusting member when said coupling means are released, scale means substantially similar to the scale associated with said pointer carried by one of said elements and indicating means cooperating with said scale means carried by the other of said elements whereby said indicating means may be located in a position relative to said scale means which corresponds to the position of said pointer with respect to its cooperating scale on actuation of the second adjusting member when the said elements are in uncoupled condition.

2,351,979

LIFESAVING AND EXPLORING DEVICE FOR SUBMERGED SUBMARINE VESSELS

Francesco Lamberti, Genoa, Italy; vested in the Alien Property Custodian

Application May 14, 1941, Serial No. 393,434
In Italy May 18, 1940
9 Claims. (Cl. 114—16.7)



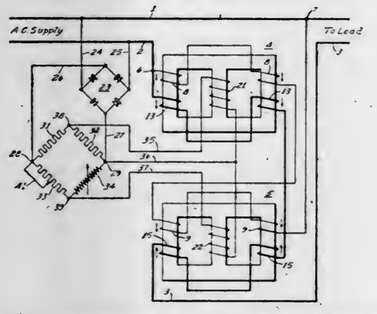
1. A life-saving device for submarines, including a pit to be secured to and extending within the submarine, said pit being open at the top and closed at the bottom, a buoyant cabin fitting within the pit and having a sealing connection with the upper end of the pit, a cable connection between the cabin and pit to permit the cabin to move beyond the pit and be redrawn thereinto at will, means connected to the pit and movable beyond the same to guide one end of the cabin while entering the pit, and a centering means for coacting with said first-named means to simultaneously guide the other end of said cabin while entering the pit.

2,351,980

VOLTAGE STABILIZER

Reuben Lee, Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 28, 1942, Serial No. 452,577
5 Claims. (Cl. 171—119)



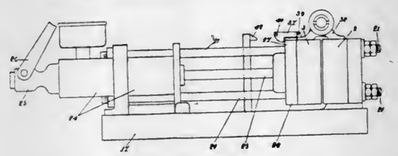
1. In a regulating system, an alternating current circuit, two magnetic core structures, a primary winding on each of said core structures connected to be energized from said circuit, a secondary winding on each of said core structures connected in series with said alternating current circuit, the windings being so connected in circuit that the voltages induced in the secondary windings associated with one core structure add to the line voltage of the alternating current circuit and the voltages induced in the secondary windings associated with the other core structure oppose the line voltage of the said alternating current circuit, a pair of saturating windings for controlling, respectively, the saturation of said two core structures, means for supplying direct current to said pair of windings comprising a bridge circuit including a linear resistance arm and a non-linear resistance arm connected respectively to said pair of windings, and a full-wave rectifier energized in accordance with the voltage of the alternating current circuit for supplying direct current to said bridge circuit.

2,351,981

DEVICE FOR THE MANUFACTURE OF GAS MASKS

Emile Jean Albert Lejeune, Paris, France; vested in the Alien Property Custodian

Application November 16, 1939, Serial No. 304,867
In France November 26, 1938
4 Claims. (Cl. 18—34)



1. A device for molding gas masks comprising a pair of hollow pieces forming jaws, means for bringing the said jaws together and for separating them from each other, removable shells adjusted in the said jaws, the inner faces of which correspond to the outer surface of the mask to be molded, a core, the outer surface of which corresponds to the inner surface of the mask to be molded, and heating means for bringing the shells and the core to the vulcanization temperature of the mask material, the lateral faces through which the shells rest against each other in the position in which the jaws are brought together being formed of planes which define on the mask surfaces and have no counter-draw parts with respect to the direction of movement through which the jaws carrying the said shells are separated from each other, said core being adjustably fixed on a support rocking about a stud parallel to the direction of the movement of the jaws, in order that it may be brought between the said jaws and released from the latter, the said rocking support being so mounted that it moves parallel to the direction of the movement of the jaws, and including means for temporarily connecting the said support with one of the jaws so that the core accompanies the said jaw during a portion of its movement, and means for releasing the said support from the said jaw during the remainder of the movement of the said jaw.

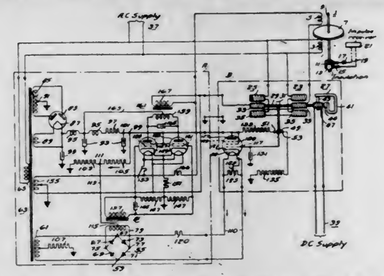
2,351,982

ELECTRICAL INVERTER

Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 25, 1942, Serial No. 436,077
11 Claims. (Cl. 177—351)

1. In an electrical system for maintaining a predetermined relation between a first variable quantity and a second quantity, a bridge circuit having input terminals and output terminals, said bridge circuit having arms including elements having current-directional characteristics and having impedances which vary with current, a source of alternating-current connected to said input terminals, means for passing direct current



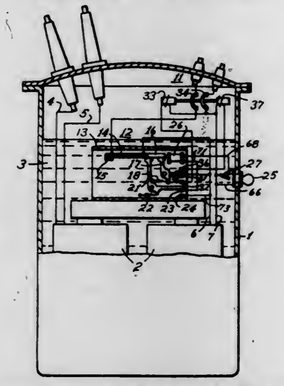
through said arms for unbalancing said bridge in a direction and to a magnitude dependent respectively on the direction and magnitude of a deviation of said quantities from a predetermined relation, and means responsive to the output of said bridge circuit for restoring said quantities to a predetermined relation.

2,351,983

PROTECTIVE DEVICE HAVING ELECTRICAL RESETTING

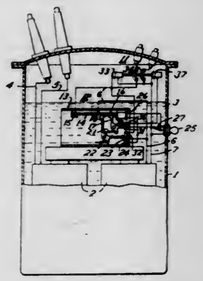
Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 26, 1941, Serial No. 420,501
8 Claims. (Cl. 177—311)



1. In combination, an electrical apparatus, protective means therefor including a circuit breaker for closing a circuit upon a predetermined condition of the apparatus, a high impedance element in said circuit, means in said circuit operable upon the shunting of said high impedance element from said circuit for resetting the circuit breaker to its initial position, and a switch device for shunting said high impedance element from said circuit comprising a pair of contact members, means for moving one of said contact members into engagement with the other for closing said shunt circuit, and means in series circuit therewith and responsive to the flow of current through said contact members to effect a relatively wide separation between the contact members and a relatively long time interval between their separation and reclosing.

2,351,984
PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS
Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 5, 1941, Serial No. 421,787
8 Claims. (Cl. 177—311)



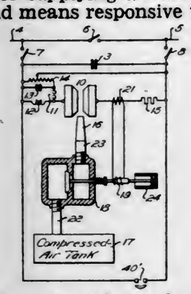
2. In combination, an electrical apparatus, protective means therefor including a device responsive to predetermined conditions, an element movable in accordance with variations in said conditions, a first movable member, means for causing actuation of said first movable member upon movement of said element in one direction to a certain point for closing an indicating circuit including a high impedance element and a resetting element, a second movable member, means for causing actuation of said second movable member upon further movement of said element in the same direction, and a short-circuiting switch for shunting said high impedance element from said circuit for increasing the energization of the setting element sufficiently for actuating said first and second movable elements to their initial positions.

2,351,985
PROCESS FOR THE PRODUCTION OF CADMIUM RED
Johannes Loeffler, Berlin-Dahlem, Germany; vested in the Alien Property Custodian
No Drawing. Application August 2, 1940, Serial No. 350,065. In Germany July 5, 1939
9 Claims. (Cl. 106—301)

1. A process for preparing cadmium red pigments which consists in heating a mixture containing cadmium sulfide and selenium, there being present in said mixture during said heating a material which will react with and thus remove the free sulfur liberated during the process.

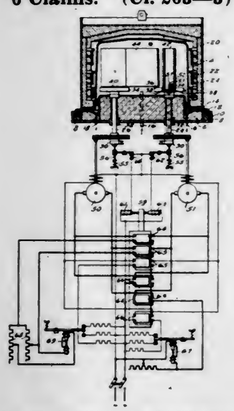
2,351,986
SERIES CAPACITOR PROTECTIVE DEVICE
Leon R. Ludwig, Forest Hills, and Charles V. Fields, East Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 4, 1942, Serial No. 437,636
9 Claims. (Cl. 175—294)

1. A series-capacitor installation for an alternating-current line, comprising, in combination with said series capacitor, a protective gap-device connected in shunt-circuit relation to said series capacitor, means including an electrically controlled valve for supplying a blast of gas to said gap-device, and means responsive to an excessive



current-flow through said gap-device for causing the valve to open at a time subsequent to the subsidence of the line-current.

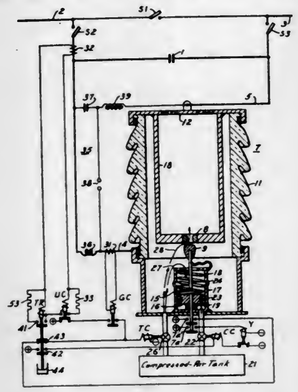
2,351,987
HEAT-TREATING
Clarence Lynn, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 3, 1942, Serial No. 467,726
6 Claims. (Cl. 263—3)



1. Annealing equipment for annealing a coil of strip, comprising, in combination, a substantially enclosed chamber means, heating means for heating said chamber means, coil winding and unwinding means comprising a pair of rotatable means in spaced relation in said chamber means, said pair of rotatable means being subject to the heat in said chamber means, each of said rotatable means being of a size sufficient to carry a coil of material to be heat-treated in said chamber means, and tension control means associated with said coil winding and unwinding means for controlling the tension of the material being passed between said pair of rotatable means.

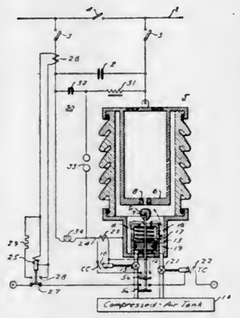
2,351,988
SERIES CAPACITOR PROTECTION
Ralph E. Marbury and Leon R. Ludwig, Wilkinsburg, and Benjamin P. Baker, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 12, 1942, Serial No. 446,740
11 Claims. (Cl. 175—294)

1. The combination, with an alternating-current line-conductor, of a series capacitor, a gas-blast circuit-breaker, means for connecting the series capacitor in series-circuit relation to the line-conductor, means for providing a capacitor-bypassing circuit including the open contacts of the breaker as a protecting gap-device for pro-



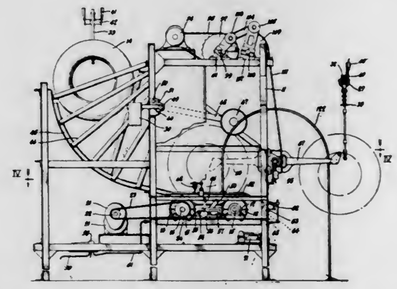
tecting the capacitor against overvoltages, means for turning on the gas-blast long enough to extinguish the arc in the gap upon the subsidence of the line-current from excessive values to substantially full-load value, and means for, at times, closing the breaker.

2,351,989
SERIES CAPACITOR PROTECTION
Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 26, 1942, Serial No. 456,208
16 Claims. (Cl. 175—294)



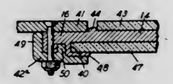
1. The combination, with an alternating-current line-conductor, of a series capacitor, a circuit-breaker having main contacts which are at all times immersed in a gaseous medium, means for connecting the series capacitor in series-circuit relation to the line-conductor, means for providing a capacitor-bypassing circuit including the open contacts of the breaker as a protecting gap-device for protecting the capacitor against overvoltages during fault-current conditions, means responsive to an arcing-over the open breaker-contacts for quickly closing the breaker and locking it closed, and means operative subsequently to the discontinuance of the fault-current conditions for quickly opening the breaker and locking it opened.

2,351,990
CONVEYING APPARATUS
Harold C. Matlock, Bridgeport, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 3, 1942, Serial No. 425,539
3 Claims. (Cl. 198—19)



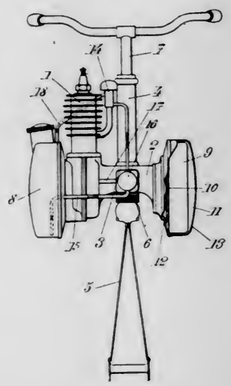
1. Means for treating and conveying ring-shaped articles comprising in combination a treating station, a support for suspending a treated article and for carrying it from the treating station and a transferring device for transferring said article from the treating station to the support, said transfer device including a transfer support and means actuated in response to the movement of the first-named support for moving the transfer support transversely into the ring of said article and subsequently moving parallel to the principal plane of the article to transfer the article into the path of the first-named support.

2,351,991
TRANSPARENT CLOSURE AND MOUNTING
Thomas H. McClain, Altadena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Original application January 3, 1942, Serial No. 425,573. Divided and this application June 15, 1942, Serial No. 447,109
8 Claims. (Cl. 189—64)



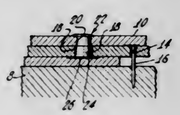
1. A laminated transparent closure comprising a plurality of panes of transparent material at least one outer pane of which is of reduced area relative to the other panes to form a rebate around the margin of the closure, and at least one intervening layer of a resilient, deformable and waterproof transparent material bonded between adjacent panes of the first mentioned material and extending beyond the marginal edges thereof, said extended portions of the intervening layer being of increased thickness relative to that part thereof bonded between the first mentioned panes and being of substantial thickness exceeding the thickness of the adjacent panes, the excess thickness being bonded to the edges of one or more of said panes and being tough, pliant and deformable to such an extent as to provide a leak-proof gasket for the transparent closure.

2,351,992
AUXILIARY DEVICE ADAPTED TO DRIVE LIGHT VEHICLES
Marcel Mennesson, Nice-Mt. Boron, France; vested in the Alien Property Custodian
Application October 22, 1942, Serial No. 462,902
In France November 4, 1941
3 Claims. (Cl. 180—33)



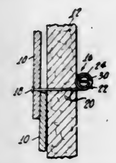
1. In an auxiliary driving unit for a bicycle, the combination of a supporting member adapted to be mounted on the fork for the front wheel of the bicycle; a casing hinged to said member on a pivot disposed transversely to the vertical axis of said wheel; a shaft journaled in said casing; a roller on said shaft adapted to frictionally engage the periphery of said wheel; an engine mounted on said casing and adapted to drive said shaft; a fly wheel on said shaft; a cylindrical housing about said fly wheel on one end of said casing; and a cylindrical fuel tank on the other end of said casing and connected with said engine, the housing and tank being concentric and of the same diameter.

2,351,993
BUILDING CONSTRUCTION
William S. Miles, Hastings on Hudson, and Paul A. Voigt, Bellerose Manor, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application February 19, 1942, Serial No. 431,518
2 Claims. (Cl. 108—9)



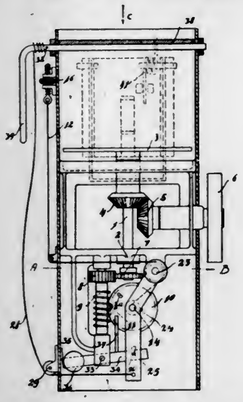
1. A construction comprising a plurality of readily frangible covering elements including overlapping portions, aligned perforations in said overlapping portions, and a rivet of relatively soft metal of substantially the malleable characteristics of lead having a shank extending through said aligned perforations and substantially filling the same and heads lying on opposite faces of said overlapping portions, said overlapping portions being held in tight engagement by said heads and shanks.

2,351,994
WALL STRUCTURE AND METHOD OF MAKING THE SAME
William S. Miles, Hastings on Hudson, and Paul A. Voigt, Bellerose Manor, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application April 15, 1942, Serial No. 439,036
2 Claims. (Cl. 108—33)



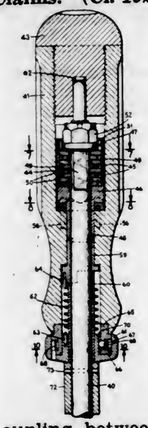
2. A wall structure comprising a sheathing, a wall covering element mounted thereon, and means securing said wall covering element to said sheathing, said means comprising an elongated wire-like pin of springy metal penetrating said covering element and sheathing, a head on one end of said pin lying against the face of said covering element, and a shank projecting through the covering element and sheathing and wound into a cylindrical coil with the edge of the coil resiliently pressed against the rear face of the sheathing, said coil terminating in a straight bar with the end thereof lying within the space defined by the circumferential plane of said coil.

2,351,995
APPARATUS FOR PROCESSING MATERIALS
Wilhelm Model, Stuttgart-Feuerbach, Germany; vested in the Alien Property Custodian
Application December 13, 1940, Serial No. 369,982
In Germany November 18, 1939
17 Claims. (Cl. 146—43)



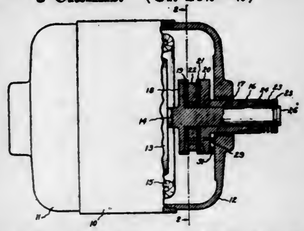
1. A machine for subjecting homogeneous particulate material to surface cleaning treatment of the particles thereof, comprising a treatment chamber for receiving said material, an agitator in said chamber for agitating the material to effect the treatment thereof, a discharge gate for removing the cleaned material from said chamber, control means connected to said gate for automatically opening said gate after a predetermined movement of said agitator said control means comprising a rotatable disc, means for adjusting the angular position of said disc, gear means for rotating said disc, a first cam carried by said disc on one side thereof means operable by said first cam for actuating said gate, additional cam means carried by said disc on the other side thereof, and means operable by said additional cam means for releasing said disc from engagement with said gear means.

2,351,996
COUPLING
Porter S. Morgan, Weston, Conn., assignor to The Capewell Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application August 3, 1940, Serial No. 350,938
12 Claims. (Cl. 192—54)



1. A shaft coupling between a driving shaft and a driven shaft comprising, a housing rotatable with respect to the driven shaft, a cover for said housing rotatable with the driving shaft and adapted to rotate said housing, a series of clutch plates rotatable with the driven shaft, an annular member within said housing and rotatable with the driving shaft, a series of clutch plates rotatable with said annular member, said clutch plates being adapted to engage frictionally with said first series of clutch plates, and camming means for moving said annular member axially to engage, or disengage, the two series of clutch plates, to rotate the driven shaft, or permit it to remain stationary, respectively, while the driving shaft rotates in one direction, or the other.

2,351,997
DYNAMOELECTRIC MACHINE DRIVE
Wayne J. Morrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application March 12, 1943, Serial No. 478,922
3 Claims. (Cl. 192—2)

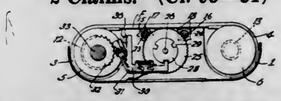


1. A dynamo-electric machine having a frame with a winding adapted to be energized electrically and a drive shaft, a driven member, means including a friction coupling member for providing a driving connection between said drive shaft and said driven member mounted on said shaft, means including projecting engagement elements on said coupling member and a stopping pawl mounted in said frame and arranged to engage said projecting elements for stopping said coupling member, means for resiliently biasing said pawl into engagement with said coupling member projecting elements, and means responsive to electrical energization of said winding for controlling the operation of said stopping pawl.

2,351,998
PROCESS OF PRODUCING MAGNESIUM OXIDE
Wilhelm Moschel and Willi Forst, Bitterfeld, and Walther Schmid, Stassfurt, Germany; vested in the Alien Property Custodian
No Drawing. Application July 23, 1940, Serial No. 347,040. In Germany April 26, 1939
5 Claims. (Cl. 23—201)

2. The process for the production of magnesium oxide of high chemical reactivity, which comprises heating a substantially dry magnesium compound of the group consisting of magnesim hydroxide and magnesium carbonate, said magnesium compound having a substantially uniform grain size below 10,000 mesh per sq. cm., to a temperature from about 800° C. to about 1100° C. for a period of time from about $\frac{1}{10}$ of a second to about 2 minutes.

2.351,999
ROLL-FILM CAMERA
Hubert Nerwin, Dresden, Germany; vested in the Alien Property Custodian
Application December 28, 1940, Serial No. 372,031
In Germany September 8, 1939
2 Claims. (Cl. 95—31)

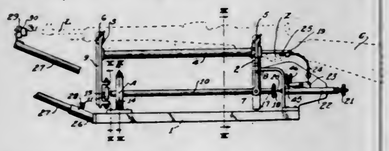


1. In a rollfilm camera employing standard motion picture film, a camera casing provided in its focal plane with a wall having a rectangular picture window past which said film is movable, two rotatable sprockets for meshing with the perforations in said film and driven by the latter, both said sprockets being mounted on one side of said picture window, one behind the other, so as to be engaged by the row of film perforations in one marginal portion of the film, means for causing said sprockets to rotate in synchronism, said means including a pinion coaxially fixed to each of said sprockets and a gear meshing with both said pinions, the teeth of said sprockets being so positioned with respect to each other and said pinions that alternately one tooth of one sprocket and then a tooth of the other sprocket moves in mesh with the perforations of the film, and means operatively connected with said gear for limiting the movement of said film after each exposure to a length which is substantially equal to the length of said picture window.

2,352,000
APPARATUS FOR RIFLE PRACTICE
Miklós Nógrády, Budapest, Hungary; vested in the Alien Property Custodian
Application April 1, 1942, Serial No. 437,188
In Hungary July 23, 1940
2 Claims. (Cl. 273—101.2)

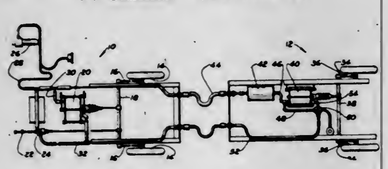
1. An apparatus for rifle-practice, comprising a fixed base, means for supporting the rifle from

said base at a point adjacent the trigger, said means comprising a universal joint permitting the rifle to move in all directions, a recording target, a rod supporting said target and extending forwardly, means located forwardly of said first-named means for pivotally supporting said rod on said base, said last-named means comprising a universal joint permitting said rod to turn in all directions, a universal joint between said rod and the forward part of the rifle, slid-



ably connected with said rod, a striker pin slidably supported from said base at the rear of said target and adjacent the rifle trigger when the rifle is mounted on said supporting means, means for urging said pin forward into recording contact with said target, a detent for restraining said last-named means, a member mounted on said first-named supporting means and adapted to be moved by the rifle trigger, and an operating connection between said member and detent for releasing said detent when said trigger is pulled.

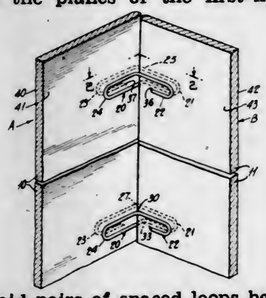
2,352,001
CONTROL VALVE FOR BRAKES
Wilbur C. Oliver, 2nd, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 19, 1941, Serial No. 379,589
17 Claims. (Cl. 188—3)



1. In a fluid pressure braking system for a tractor trailer vehicle combination, power brakes for the tractor, power brakes for the trailer, a conduit therebetween, means interposed in said conduit controlled by the pressure of the tractor brakes and controlling the pressure of the trailer brakes, said means being adapted to so regulate the trailer power brakes in response to actuation of the tractor power brakes that a constant ratio is maintained between the pressure of the tractor brakes and the pressure of the trailer brakes, and means for manually adjusting the aforesaid means to vary the pressure of the trailer brakes induced by a given pressure of the tractor brakes.

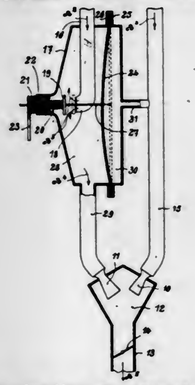
2,352,002
PANEL FASTENING ELEMENT
Anders C. Olsen, Forest Hills, N. Y.
Application April 13, 1943, Serial No. 482,854
7 Claims. (Cl. 24—81)

1. As an article of manufacture, a clip for use in connecting the edges of a pair of plastering lath panels which are in juxtaposition to one another in planes extending at right angles to one another, said clip comprising a single piece of resilient wire bent to form a pair of open loops extending substantially in parallel spaced planes and another pair of open loops extending in substantially parallel spaced planes at right angles to the planes of the first-named pair,



each of said pairs of spaced loops being formed to grip therebetween the margins of one of the panels along the joint between the panels.

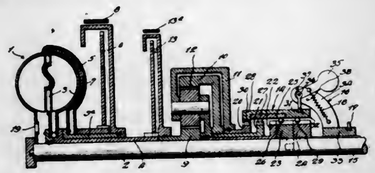
2,352,003
DEVICE FOR SUPPLYING GASEOUS MIXTURES TO INTERNAL COMBUSTION ENGINES
Jean Poinsignon, Clermont-Ferrand, France; vested in the Alien Property Custodian
Application March 14, 1942, Serial No. 434,667
In France October 16, 1940
6 Claims. (Cl. 48—184)



1. Device for feeding a gaseous mixture to an internal combustion engine, comprising a primary intake pipe for a constituent of the mixture, a secondary intake pipe for another constituent of the mixture, said secondary pipe being elbowed at its end, an enclosure into which the elbowed end of the secondary pipe projects, a flexible element tightly dividing said enclosure into separate primary and secondary compartments, a tube of small section interconnecting the primary intake pipe and primary compartment, a disk-shaped valve controlling exclusively the communication of said elbowed end with the secondary compartment, a spring urging said valve into closing position, a screw for manually adjusting the spring action, and a push rod interconnecting said flexible element and valve, both the primary intake pipe and secondary compartment communicating with the induction of the engine.

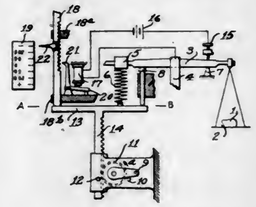
2,352,004
HYDROPLANETARY TRANSMISSION
Willard L. Pollard, Evanston, Ill.
Application October 17, 1942, Serial No. 462,356
18 Claims. (Cl. 74—189.5)

1. A hydraulic gear construction comprising a rotary drive member, a liquid torque transmitter including a vaned drive rotor driven from said drive member and a vaned driven rotor driven from said vaned drive rotor, a liquid-transmitting torque-transmitting rotor extending across the space between said vaned rotors, a first gear means driven from said driven vaned rotor, a



second gear means driven from said liquid-transmitting rotor, means for placing said liquid-transmitting rotor into and out of positive driven relation with respect to said rotary drive member, and means for holding it against rotation in at least one direction when not in said driven relation.

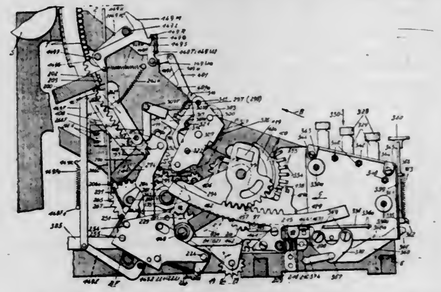
2,352,005
WEIGHING APPARATUS
Vladimir Popov, Prague, Bohemia; vested in the Alien Property Custodian
Application April 5, 1941, Serial No. 386,957
In Bohemia and Moravia April 17, 1940
7 Claims. (Cl. 265—63)



1. In an apparatus for weighing articles, a weighbeam, a scale-pan for the measured articles on one arm and a counterweight on the other arm of said weighbeam, a dynamometric spring disposed to influence said weighbeam within predetermined limits, a movable member adapted to be moved from one position to another during every weighing operation, said spring being connected to both the weighbeam and movable member so as to be sprung by the movement of the last-named member, a registration member adapted to follow the movement of said movable member, a contact-closing member disposed to complete an electric circuit with the weighbeam as soon as the weight of the article being weighed is offset by the combined action of the counter-weight and spring and an electrically controlled arresting member adapted to block further movement of the registration member upon closing of said circuit.

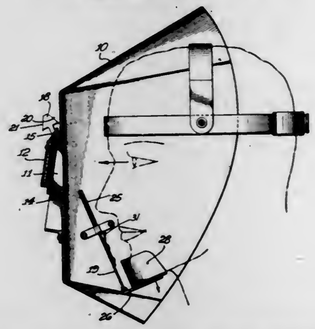
2,352,006
PRINTING-CALCULATING MACHINE
August Friedrich Pott, Zella-Mehlis, Germany; vested in the Alien Property Custodian
Continuation of application Serial No. 14,898, April 5, 1935. This application October 30, 1940, Serial No. 363,552. In Germany April 18, 1934
3 Claims. (Cl. 235—62)

1. In a machine of the class described, the combination with a motor; a main drive shaft; a series of accumulator wheels; actuators for the accumulator wheels; and a numeral keyboard; of a series of value-setting wheels; a motor-driven pinion located adjacent to the accumulator actuator of lowest order; means to normally lock the pinion against rotation; an escapement mechanism to feed the value-setting wheels axially into successive engagement with the drive pinion and the accumulator actuators order by order; a plurality of means controlled by the numeral keys to trip the escapement mechanism; to displace the locking means for the drive pinion; and to differentially arrest the value-setting wheels upon their rotation by the drive pin-



ion; a key; a driven shaft, means operable thereby to restore the value-setting wheels to zero; a multiple-armed lever operable to return the series of value-setting wheels axially to their starting positions; an operating lever for the multiple-armed lever, normally positioned out of operative relation to the multiple-armed lever; means operable by the key to shift the operating lever into operative relation with the multiple-armed lever; and means actuated by the driven shaft to rock the operating lever only when the operating lever is in operative relation with the multiple-armed lever.

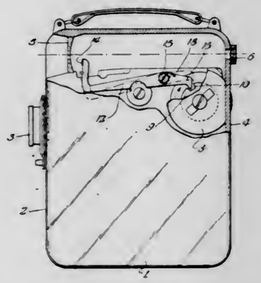
2,352,007
WELDER'S HOOD
Roy M. Rickert, Oakland, Calif.
Application October 9, 1942, Serial No. 461,397
1 Claim. (Cl. 2—8)



A welder's hood having a sight opening in the front wall thereof, a transparent closure for said opening, a hinge connection between the upper horizontal edge of said closure and the upper horizontal boundary of said opening whereby the closure will swing about a horizontal axis, a yoke rigidly fixed to one side of said closure and projecting laterally therefrom, said yoke having an elongated slot therein arranged transversely of the pivotal axis of the closure and extending equal distances on opposite sides of said axis, a

vertically reciprocable member at the exterior side of the yoke, a cam end at the upper end of said member projecting through the slot in said yoke and operative on successive downward strokes of said member to alternately engage opposite ends of the yoke and swing the closure in opposite directions between closed and opened positions, a member positioned interiorly of the hood and hinged at one end to the side thereof opposite said vertically reciprocable member and connected at its opposite end through the hood to the lower end of said vertically reciprocable member, the intermediate portion of said interiorly positioned member being engageable by the chin of the wearer of the hood whereby it may be depressed to move said vertically reciprocable member downwardly, and spring means constantly tending to move said vertically reciprocable member to its uppermost position.

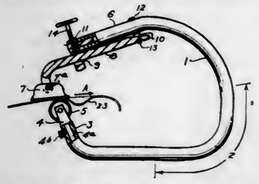
2,352,008
MOTION-PICTURE CAMERA
Walter Riedel, Dresden, Germany; vested in the Alien Property Custodian
Application June 19, 1941, Serial No. 398,769
In Germany March 5, 1940
1 Claim. (Cl. 88—16)



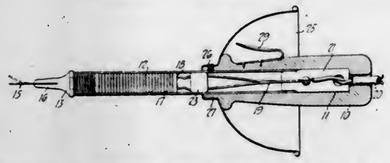
In a motion picture camera having a film magazine, a camera casing, a view finder positioned in said camera casing, and a rotatable film footage indicator in the casing, the combination of a signal device comprising a lever pivotally supported between its ends in said camera casing, a cam provided with an abrupt recess coaxially attached to said rotatable film footage indicator so as to rotate with the same, said cam being slidably engaged by one end of said lever for actuating the latter when said end drops into said recess once during a run of the film through the camera after almost the entire film has run off, whereby the other end of said lever is moved into the viewing field of said finder, and a signal plate on said last named end of said lever, said signal plate being normally invisible but becoming visible in the finder when the first named end of said lever drops into the recess of said cam, said cam thereupon removing said lever from said viewing field during the remaining length of the film.

2,352,009
METALWORKING DEVICE
Vernon E. Robbins, Berkeley, Calif.
Application September 2, 1939, Serial No. 293,238
9 Claims. (Cl. 81—15)

1. A metal working tool comprising a yoke member having a roller mounted on one terminus thereof, an anvil, means for removably securing said anvil in adjustable relation to the other terminus, and means for adjusting said first named means comprising a multiple-flat-sided eccentric member pivotally mounted on said latter terminus and adapted for contacting any one of its flat surfaces against a flat portion of said first named means.

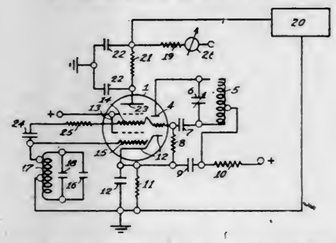


2,352,010
HEATED SCRAPER
Vernon E. Robbins, Oakland, Calif.
Application March 31, 1942, Serial No. 436,943
1 Claim. (Cl. 219—29)



A scraper comprising a handle, a hand shield disposed at one end of said handle, a housing projecting from the shielded end of the handle, a heating element supported within said housing in spaced relation to its walls, a thin flexible blade having one end secured in heat conducting relationship to said heating element and its other end projecting from said housing, and a thumb rest carried by the shielded portion of said handle on a plane parallel to one of the surfaces of the thin flexible blade.

2,352,011
DEVICE FOR FUNCTIONAL TESTS OF ORGANS OF LIVING BODIES
László Rósa and Imre Zakariás, Budapest, Hungary; vested in the Alien Property Custodian
Application May 3, 1940, Serial No. 333,232
In Hungary May 10, 1939
6 Claims. (Cl. 128—2.1)

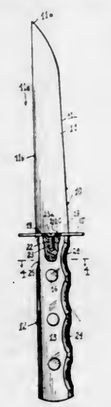


1. Device for functional test of organs of living bodies comprising a tuned circuit preferably balanced relative to "earth," whereby said organ is placed near said tuned circuit, preferably nearby or between the electrodes of a condenser connected to said tuned circuit, an electronic discharge tube having two control electrodes, to one of which said tuned circuit is connected, means for impressing an alternating potential preferably of high frequency on the other control electrode, means for exciting an alternating potential of the same frequency but nearly in phase quadrature therewith in said tuned circuit, an output circuit for said tube, and impedance means in said output circuit adapted to develop output energy varying in amplitude corresponding to the relative frequency departure of the potentials impressed on said control electrodes.

2,352,012
SULPHANILAMIDE ADDITION COMPOUND
Johann Rosický, Moderschan, near Prague, Bohemia and Moravia; vested in the Alien Property Custodian
No Drawing. Application October 14, 1941, Serial No. 414,927. In Germany October 14, 1940
2 Claims. (Cl. 260—239.6)

1. An addition compound, solid at room temperature and capable of dissociating to its components in water, composed of pyridine-β-carboxylic acid diethylamide and sulphanilamide.

2,352,013
KNIFE GUARD
Ervin Roth, New York, N. Y.
Application September 10, 1943, Serial No. 501,735
6 Claims. (Cl. 30—340)

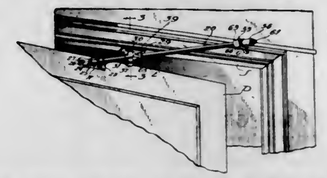


1. In a knife, having a comparatively heavy handle and a blade projecting therefrom, a guard comprising a substantially rigid, resisting plate member having a slot therein by which the same may be caused to slide down on the blade, an appropriate surface provided on the top of the handle at the two sides of the blade to rest said plate member thereon, and means to secure said plate to said handle when resting on said top surface thereof.

2,352,014
PHOTOMECHANICAL PRINTING PROCESS AND PRINTING MATERIAL FOR CARRYING OUT THE SAME
André Rott, Berchem-Antwerp, Belgium; vested in the Alien Property Custodian
No Drawing. Application July 21, 1941, Serial No. 403,392
8 Claims. (Cl. 41—41)

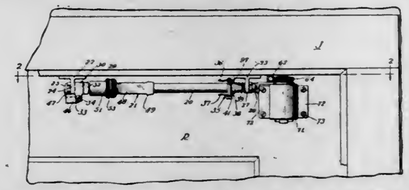
1. The process of photographic image transfer which comprises contacting a photographic silver halide layer containing a developing solution and a developed photographic image in the presence of a silver halide solvent and a fogging agent with a reception material which is insensitive to light.

2,352,015
DOOR HOLDER
Michael J. Sasgen, Chicago, Ill.
Application October 13, 1941, Serial No. 414,883
10 Claims. (Cl. 292—275)



1. A door holder comprising a rod provided at one end with means for pivotal attachment to a door, a guide through which the rod slidably extends, means for mounting said guide swivelly on a door casing, the end portion of the rod being reduced to form a shoulder, a sleeve slidable on said reduced portion and having a flange at one end thereof, a spring coiled around the reduced end portion of said rod urging said sleeve toward said shoulder, stop means on the end of said reduced end portion against which the spring reacts, together with a pair of spring jaws disposed at opposite sides of the rod and connected by an integral portion fitted on the rod between said shoulder and said flange and rotatable about the axis of the rod, said jaws being normally engageable with holding abutments formed on opposite sides of the guide and positioned to be embraced by the jaws at the limit of opening movement of the door, and cooperating stop means on the flange and on the connecting member of the jaws respectively, permitting the latter to be rotated through a quarter turn about the axis of the rod to render the jaws inoperative with respect to said abutments, said coil spring providing friction for retaining the jaws at either position of adjustment.

2,352,016
DOOR HOLDER
Michael J. Sasgen, Chicago, Ill.
Application December 21, 1942, Serial No. 469,591
10 Claims. (Cl. 292—275)



1. A door holder comprising a relatively stationary guide rod, means for attaching said relatively stationary guide rod to a door casing, a member slidably mounted upon said relatively stationary guide rod for movement therealong, a swinging arm, means pivotally connecting one end portion of said swinging arm to said slidable member, means for pivotally connecting the other end portion of said swinging arm to a swinging door, yieldable clamping means carried by and arranged adjacent one end portion of said relatively stationary guide rod for releasable clamping engagement with an end portion of said slidable member so as positively to hold said slidable member in a selected position upon and relative to said relatively stationary guide rod and so as to hold said swinging door in a selected position, and a stop member car-

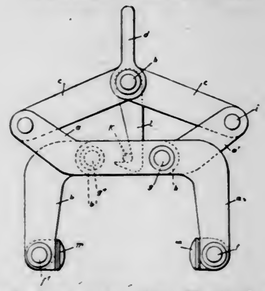
ried by said relatively stationary guide member, adjacent one end thereof, and movable relative thereto into and out of position to have abutting engagement with an end portion of said slidable member so that when said stop member is in effective position it is effective to restrain said slidable member from moving into clamping engagement with said yieldable clamping means.

2,352,017

GRAB FOR HOISTING LOADS

Ewald Scharpenberg and Herbert Bönnhoff, Wetter, Ruhr, Germany; vested in the Alien Property Custodian

Application December 10, 1940, Serial No. 369,452
In Germany October 6, 1938
1 Claim. (Cl. 294—118)



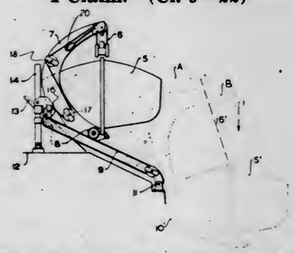
A grab closing under the effect of a load, comprising a pair of crossed tong arms, an auxiliary arm associated with each tong arm, a pivotal connection between each tong arm and its associated auxiliary arm adjacent the upper end of the auxiliary arm, the lower end of each auxiliary arm being attached to the lower end of the tong arm to which the other auxiliary arm is pivoted and hoist links attached to the upper ends of the tong arms.

2,352,018

SHIP'S DAVIT OF THE GRAVITY TYPE

Ane P. Schat, Utrecht, Netherlands; vested in the Alien Property Custodian

Application May 16, 1940, Serial No. 335,629
In Germany November 7, 1938
1 Claim. (Cl. 9—22)



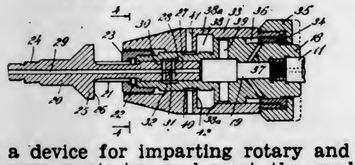
In combination an outwardly and downwardly sloped track to be disposed substantially athwartships on a vessel and having the lower end thereof pivoted to the vessel, said track being downwardly curved near its lower end, a gear mounted on the vessel and outwardly connected to the track at a point other than its pivotal point for adjusting the slope of the track, a davit arm mounted for traveling movement on said track, spaced rollers for guiding the arm on the track, a fall for suspending the boat from the davit arm and roven whereby the davit arm may travel downwardly when the fall is paid out and will force the davit arm upwardly when the fall is hauled in and whereby the slope of the track is adjusted independently of the fall and the davit arm is tilted outwardly as it approaches the lower end of the track.

2,352,019

TUBE CLEANING APPARATUS

Donald E. Schott, Flushing, N. Y., assignor to Thomas C. Wilson, Inc., Long Island City, N. Y., a corporation of New York

Application May 14, 1943, Serial No. 487,057
13 Claims. (Cl. 121—6)



1. In a device for imparting rotary and rectilinear movements to an element, the combination of a rotary driven member having a passage for receiving fluid under pressure, a spindle mounted in the member for rotary movement therewith and having a limited freedom of longitudinal movement relative to the member, and a hammer mounted movably on the member and with the latter defining chambers receiving fluid from the passage and having piston surfaces on which the fluid acts to reciprocate the hammer lengthwise of the member, the hammer acting on the spindle, when the latter is in one position relative to the member, to move the spindle to another position.

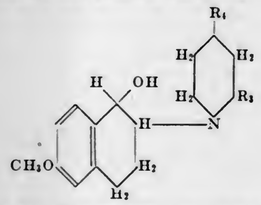
2,352,020

PROCESS FOR THE PRODUCTION OF ANALGETICALLY ACTIVE TETRAHYDRONAPHTHOLS

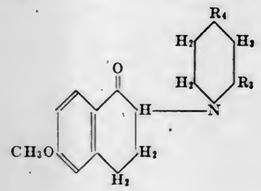
Georg Scheuing and Bruno Walach, Ingelheim-on-the-Rhine, Germany; vested in the Alien Property Custodian

No Drawing. Application October 19, 1940, Serial No. 361,888. In Germany November 17, 1939
3 Claims. (Cl. 260—293)

3. As new analgetically active substances the 6-methoxy-1-hydroxy-2-N - piperidyltetrahydronaphthalenes of the general formula:



in which R_3 and R_4 represent radicals taken from the class consisting of H and CH_3 groups obtained by the catalytic hydrogenation of the corresponding oxo-compound of the following general formula:



2,352,021

DETERGENT COMPOSITION

Ernst Schubert, Jonsdorf, near Zittau, and Heinz Pierer, Zittau, Germany; vested in the Alien Property Custodian

No Drawing. Application October 24, 1941, Serial No. 416,424. In Sweden November 16, 1940
2 Claims. (Cl. 252—132)

1. A washing agent and detergent capable of operating in hard water without forming insoluble lime soaps, comprising substantially equal parts by weight of water-soluble alkali lignin and soap.

2,352,022

PROCESS FOR STABILIZING CELLULOSE ESTERS

Aladar Schuller, Antwerp, and Remi-Gustaaf Tritsmans, Mortsel, near Antwerp, Belgium; vested in the Alien Property Custodian

No Drawing. Application September 3, 1941, Serial No. 409,348. In Austria February 25, 1935
7 Claims. (Cl. 260—230)

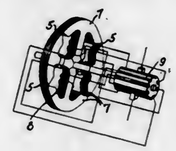
1. The method of stabilizing lower fatty acid esters of cellulose containing bound acid components which comprises washing the solid ester to remove any free acid and digesting the solid ester thus obtained at a temperature above 50° C. but not exceeding 140° C. with an acid-free liquid hydrocarbon selected from the group consisting of benzene, toluene, xylene and benzine.

2,352,023

SOUND REPRODUCER

Eduard Schüller, Berlin-Johannisthal, Germany; vested in the Alien Property Custodian

Application August 23, 1939, Serial No. 291,620
In Germany August 26, 1938
5 Claims. (Cl. 179—100.2)



1. A sound head comprising a core assembly having a plurality of circumferentially spaced recording slots, a shaft supporting said core assembly for rotation about an axis inclined to the direction of travel of a magnetic sound carrier, the slots of the core assembly being reversely inclined to the axis of the shaft, whereby the slots extend transversely of the magnetic sound carrier path and sweep across that path as the rotation of the sound head carries the slots in succession along the path of the magnetic sound carrier, and a winding on said core assembly.

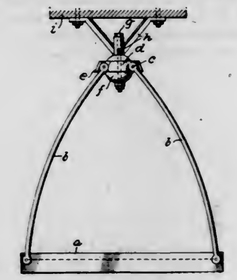
2,352,024

ANTIOSCILLATION SUSPENSION FOR BEDS AND THE LIKE

László Sebestyén, Budapest, Hungary; vested in the Alien Property Custodian

Application December 11, 1940, Serial No. 369,630
In Hungary May 8, 1939
3 Claims. (Cl. 114—193)

1. In a self-adjusting suspension bed, having a bed and upwardly extending suspending members for the same, a globular element stationarily secured to a portion of the structure on which the bed is arranged, as a ship, a ring around said globular element having a globe section for its inner surface by which it is snugly, but slidingly, supported by said globular element, said bed suspending means being secured to said ring,



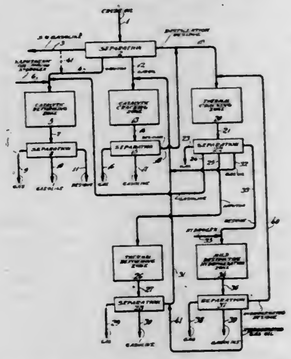
and a resilient member secured on said ring, said resilient member having a portion projecting over and slidably pressing on said globular element to dampen oscillation of the ring on said element.

2,352,025

CONVERSION OF HYDROCARBON OILS

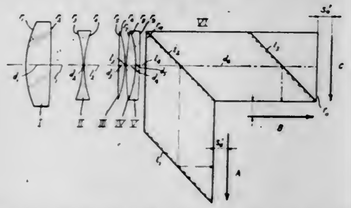
Jean Delattre Seguy, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application August 15, 1940, Serial No. 352,682
5 Claims. (Cl. 196—52)



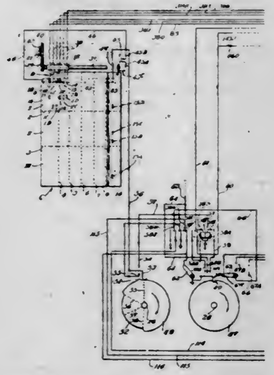
1. A process for producing high octane motor fuel which comprises fractionating crude oil to form topped crude, gas oil and a lighter fraction containing a substantial quantity of low anti-knock gasoline hydrocarbons, catalytically reforming said lighter fraction, catalytically cracking said gas oil and separating resultant gas and gasoline from heavier conversion products, combining at least a portion of the latter with said topped crude, thermally cracking the resultant mixture at a temperature sufficient to convert a substantial portion of the mixture into gasoline, supplying gasoline products of the thermal cracking to the catalytic reforming step, supplying heavier distillate products of the thermal cracking to the catalytic cracking step, separating from the products of the thermal cracking a naphtha fraction boiling intermediate said gasoline products and said heavier distillate products, subjecting said naphtha fraction to thermal reforming, separating resultant reformed gasoline from heavier hydrocarbons and supplying at least a portion of the latter to the catalytic cracking step.

2,352,026
BRIGHT OPTICAL SYSTEM FOR COLOR PHOTOGRAPHY
Vilém Smejkal, Prerau, Moravia; vested in the Alien Property Custodian
Application October 24, 1940, Serial No. 362,652
In Czechoslovakia October 13, 1939
4 Claims. (Cl. 88—57)



1. In a photographic objective, the combination of five aligned optical elements having eight surfaces in contact with the air, the front element of said objective being a condensing element and located nearest an object to be photographed, the second element being a dispersive element, the third element being a condensing element and the fourth and fifth elements forming a doublet which is spaced from the third element, the radius of curvature of the front surface of the front element bearing a relation to the focal length of the objective which is less than the ratio of 1:2.5, the front surface of the front element and the third element being separated by a distance which is greater than one-third of the focal length of the objective, the front surfaces of the front element and the second element being separated by a distance which is greater than one-fifth of the focal length of the objective, and the surfaces of the second element each having a radius of curvature which may vary from 0.5 to 0.7 of the focal length of the objective.

2,352,027
CALCULATING AND PRINTING MACHINE
Clyde Smith, Hopkinsville, Ky., assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application October 23, 1939, Serial No. 300,786
20 Claims. (Cl. 235—61.8)



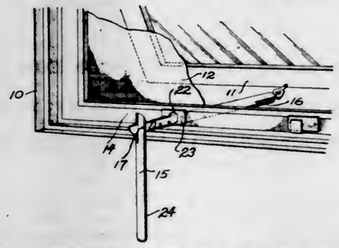
1. In a calculating machine, a plurality of registers, entering means for each of said registers, shafts cooperating with said entering means to effect differential operation of said registers, entry control means for effecting differential operation of said shafts, sequence control means for controlling entries into said registers, operating means for said sequence control means, and means including members rotatable with said shafts for delaying the operation of said operating means until said shafts come to rest at the end of an entry operation thereof.

2,352,028
METHOD OF MAKING SCRAPER BLADES
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application April 26, 1940, Serial No. 331,734. Divided and this application July 1, 1942, Serial No. 449,243
3 Claims. (Cl. 29—14)



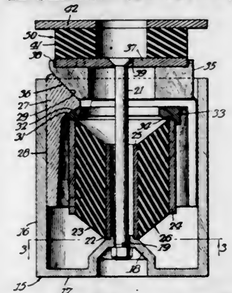
2. The method of simultaneously making a plurality of moldboards and blades for road scrapers, comprising providing a unitary tubular workpiece of hardenable material, forming lines of demarcation along the inner face of said workpiece to divide said workpiece into separate moldboard and blade forming sections, providing the outer face of each section with an attaching flange extending outwardly therefrom along a line of demarcation, heat treating the inner surface of said tubular workpiece to raise the inner surface only to a hardening temperature and then quenching the same while the surrounding material is below hardening temperature to provide a hardened inner surface layer surrounded by a layer of relatively unhardened material, whereby said flanges are left unhardened, then cutting said workpiece along said lines of demarcation between said different sections to form curved moldboard sections each having an attaching flange extending along one cut edge, and to also form curved scraper blade sections each having an attaching flange extending along one cut edge, and then forming a scraper edge along the other cut edge of each blade section, and then machining said unhardened flanges to form interfitting faces on the respective moldboard and scraper blade sections, whereby said blades can be detachably secured to said moldboards to form a road scraper.

2,352,029
AWNING TYPE WINDOW OPERATOR
Arthur H. Soule, San Francisco, Calif., assignor to Dalmo Victor Co., San Francisco, Calif., a copartnership
Application February 10, 1943, Serial No. 475,411
2 Claims. (Cl. 160—95)



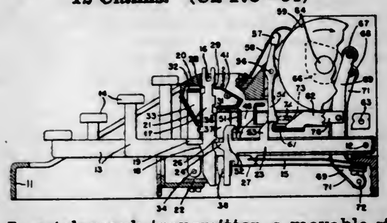
1. In combination with a window frame having a vertically swingable sash hung therein for awning type of operation, a screen having a screen frame mounted in the window frame at the side thereof opposite the sash, an elongated operating rod knee-jointed intermediate its ends, a hinged connection between one end of the rod and the lower rail of the sash, the lower rail of the screen frame having an opening formed therethrough in alignment with the connection between the rod and sash and through which the rod projects, latch means at the perimeter of said opening adjacent the bottom thereof, the bottom of said rod being formed with spaced notches to engage said latch means by gravity.

2,352,030
BOLSTER SPRING UNIT
Donald F. Sproul, Chicago, Ill., assignor to James R. Cardwell, Chicago, Ill.
Continuation of application Serial No. 200,841, April 8, 1938. This application April 8, 1940, Serial No. 328,559
11 Claims. (Cl. 267—9)



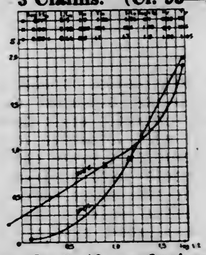
1. In a shock absorbing unit, a chambered follower, a top plate, a cylindrical member resting on the base of said follower, a second cylindrical member concentric with the first-named member and elevated relative thereto and adapted to be engaged by said top plate, an annular rubber element between said members and vulcanized thereto, friction and wedging members between said plate and follower, said members comprising friction shoes, means on said shoes for engaging said plate for resisting the inward movement of said shoes, and a wedge member engaging said shoes for forcing the same radially outwardly into frictional engagement with the inner walls of said follower and for forcing said shoes inwardly longitudinally of said chambered follower.

2,352,031
TELEGRAPH TRANSMITTER
Otto Steiner, Berlin-Spandau, Germany; vested in the Alien Property Custodian
Application August 8, 1941, Serial No. 405,985
In Germany December 16, 1939
12 Claims. (Cl. 178—84)



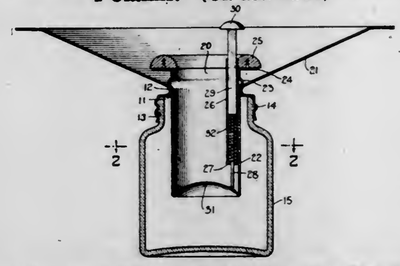
1. In a telegraph transmitter, a movable signal sending mechanism, the keyboard having keys biased to inoperative position, means for locking said keyboard said means being biased to locking position, two separate means for holding said locking means in inoperative position, means actuated by depressing a key for rendering one of said separate means operative and the other inoperative and means operable on release of said key for rendering said one means inoperative, means operated by depressing said key to initiate the movement of said signal sending mechanism and means responsive to the initial movement of said mechanism to unlock the keyboard.

2,352,032
PRODUCTION OF SOUND RECORDS
Fritz Steube, Leipzig, Germany; vested in the Alien Property Custodian
Application February 17, 1942, Serial No. 431,266
In Germany August 12, 1940
3 Claims. (Cl. 95—5)



1. In a method of producing sound records, the improvement which comprises photographically recording sound upon a light-sensitive negative film adapted to the normal positive film serving as the copying material, said negative film comprising at least two negative emulsions yielding a characteristic negative blackening curve, said curve being rectilinear to the blackening of about 0.8 and subsequently passing into a non-linear gradually rising curve, the gamma-value of the rectilinear portion of said negative curve corresponding with the reciprocal of the steepness in the rectilinear portion of the positive blackening curve, and copying the track thus obtained onto a film comprising a normally graduated positive emulsion to produce a transparency curve rectilinear throughout the whole blackening region.

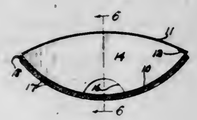
2,352,033
PIPE CLEANING ASH TRAY
Walter H. Stewart, Passaic, N. J.
Application April 2, 1941, Serial No. 386,389
4 Claims. (Cl. 131—242)



1. An improved pipe cleaning ash tray comprising a base having a chamber formed therein, an ash tray removably mounted on the base and having an opening therethrough communicating with the chamber, a tubular member movable within and extending through said opening, means for limiting the movement of the tubular member into the chamber, an annular anvil of resilient material mounted on the top of the tu-

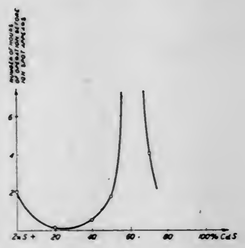
bular member, a resiliently mounted domed closure for the lower end of the tubular member, and operating means located within the ash tray for operating the closure member.

2,352,034
COLLAPSIBLE CRADLE BLOTTER
Frieda Straus, Chicago, Ill.
Application May 10, 1943, Serial No. 486,331
1 Claim. (Cl. 120—24)



A collapsible cradle blotter consisting of a strip of bendable sheet-like material doubled over and the originally opposite ends having on one end a lip secured with adhesive means to the other end, thus including a lower cradle part and also an upper handle part thereon which are collapsible one onto the other, said handle part being provided with a pair of score lines and with integral oval-shaped side wings outward thereof that are readily bendable downward and inward on said lines to slant inwardly and bear against the cradle part, whereby to serve as brace means between said two parts and retain them firmly in the operative cradle form, said wings being provided each with a notch to facilitate grasping the handle part with its wings by a finger and the thumb of the hand manipulating this blotter, and said cradle part being provided with a plurality of blotting layers secured at their ends with adhesive means to its nether side, the adhesive means being provided to a less extent on each layer downward than on the preceding layer, to facilitate tearing away each outside layer in succession.

2,352,035
LUMINESCENT MATERIAL
Heinrich Strübig, Teltow, and Walter Hass, Kleinmachnow, near Berlin, Germany; vested in the Alien Property Custodian
Application December 9, 1941, Serial No. 422,216
In Germany February 10, 1940
7 Claims. (Cl. 250—80)



1. In a fluorescent screen of the character described, a luminescent material having the characteristic that when subjected to ion bombardments it is resistant to the formation of dark spots, said material consisting of zinc sulfide and cadmium sulfide in such quantities that there is substantially one mol of zinc sulfide for each mol of cadmium sulfide.

2,352,036
DEVICE FOR ABSORBING SHOCKS, ESPECIALLY FOR PARACHUTES
René Tauty, Clichy, France; vested in the Alien Property Custodian
Application March 28, 1940, Serial No. 326,529
In France March 27, 1939
3 Claims. (Cl. 244—151)

1. In a parachute system, a shock absorbing assembly constituting the sole connection with the parachute comprising, a folded strap attached at one end to the parachute and at the other end to attaching structure, said folded strap being folded at its center with its two halves in face-to-face relationship and with its two ends adjacent each other, frangible threads extending through the halves of the strap holding the two halves in face-to-face relationship, said threads being formed by rows of stitching extending longitudinally of the strap with all of the rows extending from the ends of the halves at the folded center of the strap toward the strap ends with



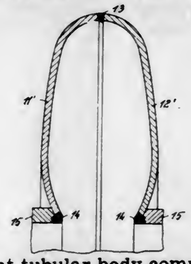
the various rows being of progressively decreasing lengths whereby a minimum number of stitches occur at the strap ends and the number of stitches increases remote from these ends, and a friction means mechanically connecting the strap ends comprising a cord attached at one end of the strap and extending through a restricted hole at the other end of the strap, whereby the initial shock when the parachute starts to pull is absorbed entirely by said friction means and thereafter the strap is drawn taut whereby the frangible threads are broken in increasing numbers.

2,352,037
MANUFACTURE OF RENNET
Basil Duperier Thornley and Stanley Hilton, Wilmslow, England, assignors to Benger's Limited, Holmes Chapel, Cheshire, England
No Drawing. Application March 26, 1941, Serial No. 385,306. In Great Britain March 28, 1940
16 Claims. (Cl. 195—63)

14. The process of drying moist rennin-containing material derived from rennets, said material having an initial pH below about 3.6, which comprises, mixing with said material a monohydrogen phosphate of an alkali metal in amount sufficient to increase the pH of the mixture, but insufficient to raise the pH substantially above 7.0, and anhydrous sodium sulphate, and permitting transpiration into the vapor state of water present in the mixture until the residue thereof reaches a predetermined degree of dryness.

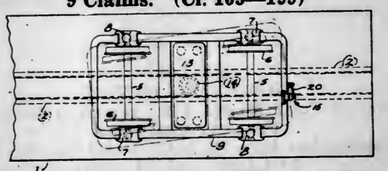
15. A milk coagulant in the form of a powder, comprising rennin-containing material derived from rennets, said material having an initial pH below about 3.6, in admixture with anhydrous sodium sulphate and a monohydrogen phosphate of an alkali metal, said anhydrous sodium sulphate and said phosphate forming together a major fraction of said powder, and said phosphate being present in said powder in quantity sufficient to raise the pH of said rennin-containing material, but insufficient to raise said pH substantially above 7.0.

2,352,038
RESILIENT TUBULAR BODY
Friedrich Tölke, Berlin - Charlottenburg, Germany; vested in the Alien Property Custodian
Application March 4, 1941, Serial No. 381,739
In Germany December 6, 1939
3 Claims. (Cl. 285—90)



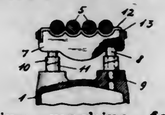
1. A resilient tubular body comprising a pair of axially spaced pipes, a larger diameter tube-like bellows element positioned between the pipes, said bellows element consisting of a pair of similar resilient ring sections, said ring sections being characterized by concavity throughout their cross sections with their marginal portions exhibiting maximum curvature, a weld disposed between and connecting the edges of the outer marginal portions of the ring sections, the marginal portions of the bellows element being positioned axially inwardly of the facing edges of the pipes, and welds formed on and connecting the edges of the pipes to the terminal edges of the marginal portions of the bellows element.

2,352,039
RAILWAY VEHICLE STRUCTURE
James C. Travilla, Jr., Swarthmore, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application June 10, 1942, Serial No. 446,469
9 Claims. (Cl. 105—199)



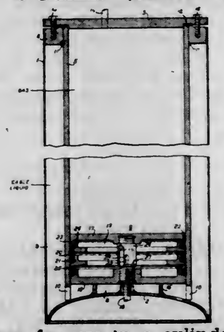
1. In a railway vehicle, a vehicle body member, and a truck including a bolster supporting said body member, a truck frame member extending longitudinally of the truck, spring structure supporting the bolster on said truck frame, spaced wheeled axles, and springs nearer the ends of the truck than said bolster spring structure and supporting said frame member from said axles, and a shock absorber device having connections to said body member and truck frame member at points nearer to the springs supporting the truck frame member than to the bolster-supporting spring structure, said device accommodating normal vertical movement of said bolster on its spring support and dampening excessive relative movement of the end portions of the truck frame member due to uneven action of its supporting springs to prevent galloping action of the truck frame member relative to the body member.

2,352,040
STRAIGHTENING MACHINE FOR SHEET METAL PLATES
Fritz Ungerer, Pforzheim, Germany; vested in the Alien Property Custodian
Application October 7, 1940, Serial No. 360,151
In Germany October 2, 1939
5 Claims. (Cl. 153—54)



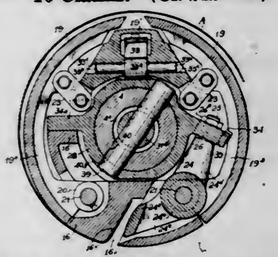
1. Straightening machine for sheet metal plates, comprising in combination with the straightening rolls, transverse supporting beams placed closely beside each other in the longitudinal direction of the straightening rolls, and cloth elements in the form of flaps, strips, plates or blocks arranged on said beams extending along and pressed against that portion of the running faces of said straightening rolls which is used for the straightening, in order to remove from said straightening rolls metal particles detached from the sheet metal plates during the straightening.

2,352,041
PISTON STRUCTURE
Walter van den Berg, Cologne-Mulheim, Germany; vested in the Alien Property Custodian
Application July 23, 1940, Serial No. 346,964
In Germany January 31, 1940
5 Claims. (Cl. 309—4)



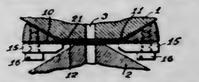
3. A piston for use in a cylinder the opposite ends of which are subjected to fluids under predetermined positive pressure, comprising a member having end heads, each of which has a conical peripheral surface, an annular flange on each head, a series of floating rings, each having outwardly extending conical surfaces and annular shoulders, one on each side thereof, one of the shoulders on each of the end rings engaging a flange on a head, the adjacent shoulders on the rings engaging each other, the shoulders and flanges permitting axial movement of one part with respect to another, packings located between the conical surfaces which are forced outwardly against the cylinder wall due to the opposing pressures at opposite ends of the cylinder exerted on the heads, and means for limiting the separation of the end heads.

2,352,042
APPARATUS FOR COILING SHEET MATERIAL
Egbert Vander Linde, Cleveland, Ohio, assignor to The Yoder Company, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1941, Serial No. 386,072
10 Claims. (Cl. 242—72)



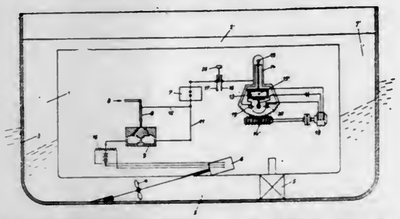
3. In apparatus of the class described, the combination with a support, of a shaft thereon, means for rotating said shaft, a drum on which sheet material is adapted to be coiled, mounted on and drivingly connected to said shaft, said shaft being formed with an axial opening extending inwardly from one end thereof at least to a point within said drum and the side wall of said shaft being formed with a slot connected to said axial opening, a longitudinally disposed abutment within and substantially co-extensive with said drum, the wall of said drum being formed with a longitudinally extending opening arranged to permit the insertion of the free end portion of the material into opposed relation to said abutment, a rocker fulcrumed within said drum, one arm of said rocker being provided with a member arranged to engage the material and secure it against said abutment, a sleeve slidably mounted on said shaft within said drum, a rod extending into said shaft and movable endwise relative thereto and provided with a laterally extending member extending through said slot and operatively connected to said sleeve for moving it on said shaft, and operative connections between said sleeve and the other arm of said rocker for swinging the latter about its fulcrum to operate said member into engagement with the material.

2,352,043
DIAPHRAGM FOR ELECTRON OPTICAL APPARATUS
Manfred von Ardenne, Berlin-Lichterfelde, Germany; vested in the Alien Property Custodian
Application February 6, 1941, Serial No. 377,718
In Germany January 15, 1940
3 Claims. (Cl. 250—49.5)



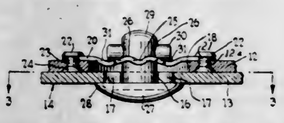
1. In an electron microscope having upper and lower pole shoe means which are each provided with a central opening for the passage of electron rays therethrough and which are located in spaced apart relation with said openings in alignment with each other, the combination of diaphragm means adjustably slidable in the space between said pole shoe means and adapted to be moved into a position in the path of said electron rays to provide a limiting aperture for said rays, said diaphragm means comprising a diaphragm member slidably mounted in the space between said pole shoe means, said diaphragm member having an opening therethrough, a pair of sheet members positioned across the opening in said diaphragm member, said sheet members being spaced apart to provide a narrow slit between their adjacent edges, a second pair of sheet members positioned across said first pair of sheet members, said second pair of sheet members being spaced apart to form a narrow slit between their adjacent edges and in conjunction with said first named sheet members providing a small aperture in the diaphragm member, and means for securing said sheet members to the diaphragm member.

2,352,044
DEVICE FOR VARYING THE STABILITY OF MARINE CRAFT
Carl von den Steinen, Hamburg, Germany; vested in the Alien Property Custodian
Application October 16, 1940, Serial No. 361,463
In Germany November 22, 1939
1 Claim. (Cl. 114—125)



The combination in a ship of a system for stabilizing the ship comprising tanks located on opposite sides of the ship, conduit means connecting said tanks in communication with each other, said tanks and said conduit containing water, impeller means comprising blade members rotatably mounted within said conduit for causing water within said conduit to be driven into either tank in accordance with the directions of rotation of said impeller means, drive means for rotating said impeller means in a desired direction, means responsive to lateral inclinations of the ship and operatively connected to said drive means to cause actuation thereof whereby upon a lateral inclination of the ship in one direction the impeller means are operated to drive water in the conduit means into the tank on the side of the ship which is rolling upwardly and upon lateral movement of the ship in the opposite direction the impeller means are operated to drive water in the conduit means into the second tank, and valve means within said conduit means for closing the conduit and rendering the stabilizing system inoperative.

2,352,045
FASTENING DEVICE
Fritz von Opel, Miami, Fla.; vested in the Alien Property Custodian
Application June 18, 1942, Serial No. 447,499
5 Claims. (Cl. 24—221)

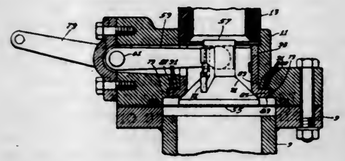


1. A fastening device for joining at least two objects, such as plates or sheets, covering one another and provided with registering openings at the joint, substantially comprising a fastener consisting essentially of a head, a cylindrical shank and a pair of projections associated with said shank and exemplified by a pin tightly fitted into a transverse hole of said shank, said projections arranged on opposite sides of said shank near its free end, a dish-like member mounted in the opening of one of the objects through which said fastener is passed first, said dish-like member provided with a circular opening having a pair of opposed radially extending slots thereby permitting only said shank and projections to pass therethrough, a pair of elongated springy members as exemplified by springy wires arranged on the uncovered outside of the other one of the objects across its opening, said springy members each provided with a groove and ramps on both sides thereof for receiving said projections, said members spaced so that said shank with projections can pass between them substantially unobstructed but are flexed elastically when said shank with projections is being turned after having passed said members and said projections ride over one ramp each of said members, and engage said groove therein, and means for securing said members to said other object outside its opening and spaced from said grooves so that said members can be flexed by said projections.

2,352,046
METHOD OF PRODUCING BAKER'S WARE BY MEANS OF THE FERMENTATION OF YEAST DOUGH
Friedrich von Viditz, Vienna, Germany; vested in the Alien Property Custodian
No Drawing. Application April 22, 1941, Serial No. 389,746
7 Claims. (Cl. 99—90)

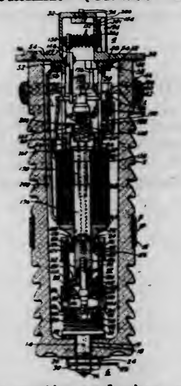
1. The method of producing baker's ware which consists in adding to a conventional yeast and wheat flour dough an amount of an aqueous extract of buckwheat equivalent to 3 to 10% of dry buckwheat flour.

2,352,047
FLEXIBLE VALVE SEAT CONSTRUCTION
Arthur M. Wahl, Wilkinsburg, and Frederick B. Johnson, Clairton, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1941, Serial No. 417,146
12 Claims. (Cl. 251—167)



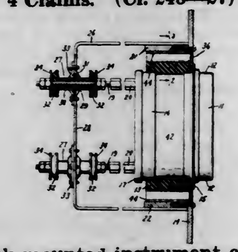
1. In a valve mechanism, a casing for said valve mechanism, a movable valve, a seat for said valve, said seat comprising a tubular member frictionally engaging said casing to assist in damping the oscillations during the closing of said valve, an offstanding supporting portion for said seat, the outer portion of said supporting portion remaining relatively fixed in position with respect to the inner portion of said supporting portion adjacent said seat, the resiliency of said supporting portion being sufficient to absorb the kinetic energy of said movable valve when the latter is moved to the closed position without substantial deformation.

2,352,048
CIRCUIT INTERRUPTER
James M. Wallace, Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1941, Serial No. 374,684
39 Claims. (Cl. 200—89)



1. In an automatic reclosing circuit breaker, separable contacts, means biasing said contacts into engagement, current responsive means for separating said contacts while stressing said biasing means so that the latter is operative to automatically reclose said contacts when said current responsive means is not energized sufficiently to separate said contacts, a lost motion connection between said current responsive means and contacts, resilient means engaging said current responsive means and contacts so as to be stressed upon operation of said current responsive means to separate said contacts, and said resilient means being capable of being strained an amount greater than the amount of lost motion between said current responsive means and contacts.

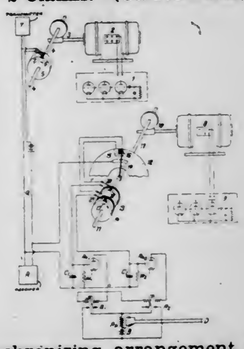
2,352,049
SHOCK MOUNTED INSTRUMENT
Virgil L. Weaver, Lynnfield, Mass., assignor to General Electric Company, a corporation of New York
Application November 7, 1942, Serial No. 464,906
4 Claims. (Cl. 248—27)



1. A shock mounted instrument comprising in combination a supporting panel with an instrument-reeciving opening therein, an instrument having an enclosing casing with terminals projecting therefrom rearwardly, and a resilient mounting, said panel having an opening with two pairs of rearwardly extending plates secured perpendicular to the panel at the edges of the opening, the plates of one pair being perpendicular to those of the other, the plates of each pair being parallel to each other and spaced for the said mounting to fit between the plates, one

pair of said plates having a rearwardly extending terminal supporting yoke secured thereto, said mounting being composed of resilient material of honeycomb structure and having an opening therein fitting the said instrument casing, said terminal-supporting yoke having openings through which said terminals pass and bushings composed of resilient material engaging said terminals and the margins of said terminal openings in said yoke.

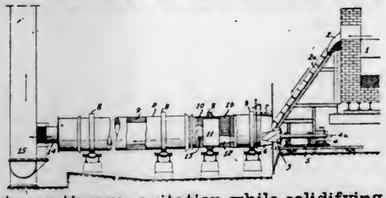
2,352,050
SYNCHRONIZING ARRANGEMENT
Gustav Wegener, Berlin, Germany; vested in the Alien Property Custodian
Application October 10, 1941, Serial No. 414,481
In Germany June 24, 1940
2 Claims. (Cl. 178—69.5)



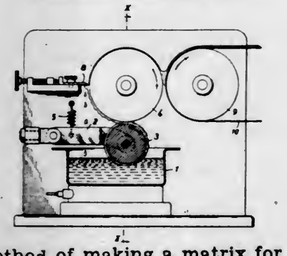
1. A synchronizing arrangement for printing telegraphs and the like comprising a transmitter, receiver and an interconnecting telegraph circuit, rotary contact means for transmitting from said transmitter a synchronizing signal composed of two impulses of different characteristics, a rotary shaft at said receiver, a distributor having two segments, a brush secured to said shaft cooperating with said segments, a pair of rotary members secured to said shaft each having a single contact, a brush for each rotary member, the last mentioned brushes being each connected to one of said segments, a pair of vacuum tubes having an anode and an input circuit comprising a grid, a second brush for each of said rotary members connected to the input circuit of the respective tubes, a relay in the anode circuit of each tube, said relays having oppositely connected contacts, a circuit common to said relays including a third relay arranged when operated to cause a phase correcting device to control said shaft, the angular position of the rotary signal transmitting and receiving contacts being such that when said shaft is co-phasal with the transmitter the two synchronizing impulses are received on the respective segments, one impulse causing one tube to operate its associated relay to a position where the contacts thereof open the circuit to said third relay while the second impulse does not alter the condition of the second vacuum tube and its associated relay.

2,352,051
METHOD FOR AZOTIZING CALCIUM CARBIDE AND CARBIDE MIXTURES
Rudolf Wendlandt, Gerhard Hoffmann, and Hans Füldner, Piesteritz, near Halle, Germany; vested in the Alien Property Custodian
Application March 14, 1941, Serial No. 383,338
In Germany May 29, 1937
2 Claims. (Cl. 23—78)

1. A process for producing partially azotized disintegrated calcium carbide which comprises disintegrating molten carbide and contacting said molten disintegrated carbide in a zone of rotary motion with nitrogen heated in a zone removed therefrom while subjecting said carbide to continuous agitation while solidifying and partially azotizing, said nitrogen being supplied at a temperature sufficient to maintain said carbide undergoing partial azotization at a temperature between 2282° F. and 2552° F.



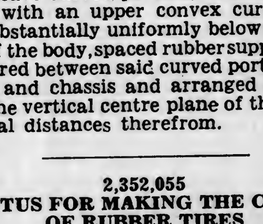
2,352,052
METHOD OF PRODUCING SOUND BAND MATRICES
Hugo Westerkamp, Cologne-Poll, Germany; vested in the Alien Property Custodian
Application October 5, 1940, Serial No. 359,975
In Germany October 20, 1939
6 Claims. (Cl. 18—57)



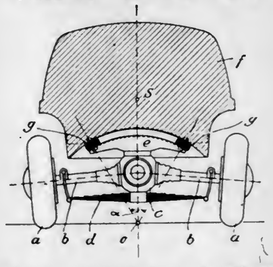
1. A method of making a matrix for preparation of duplicate sound records from an original sound band which has mechanically-cut sound tracks in a soft wax coating supported on a carrier layer, without mechanical contact with said soft wax coating of materials other than the matrix-forming material, which comprises the steps of advancing the original sound band through a deposit zone, preparing a layer of liquid film-forming material selected from the group consisting of gelatine and gelatinous albumins, and containing a solution effective to reduce the surface tension of the layer, said layer being substantially as wide as the matrix to be formed and having a uniform thickness which is a fraction of that of the matrix layer to be formed, bringing the layer into the deposit zone at a predetermined constant rate of speed, said rate of speed being greater than the rate of advancement of the original sound band, and contacting the original sound band with the material from said layer for damming the same against movement in the direction of said layer and withdrawing from the dammed-up material a uniform film of greater thickness than said layer for forming the said matrix, and stripping the matrix from the sound band.

2,352,053
SPRINGING OF MOTOR CARS
Karl Wilfert, Sindelfingen, and Béla Barényi, Boblingen, Germany; vested in the Alien Property Custodian
Application December 6, 1940, Serial No. 368,848
In Germany December 6. 1939
9 Claims. (Cl. 267—22)

1. In a vehicle having a frame, a pair of ground-engaging wheels, a supporting member, swinging half axles for pivotally mounting said wheels on said supporting member, means comprising a substantially vertically arranged guiding link member connecting the supporting member with the frame for guiding said supporting member relatively to said frame for substantially parallel movement in a plane perpendicular to the direction of vehicle travel when either wheel swings, and yielding means arranged between the supporting member and the framework for normally holding said supporting member in a central position relatively to said frame.



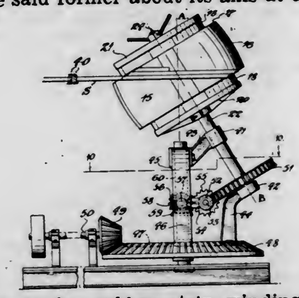
2,352,054
MOVABLE CONNECTION OF A VEHICLE BODY WITH THE CHASSIS OR AN AXLE AGGREGATE
Karl Wilfert, Sindelfingen, and Béla Barényi, Vaihingen-Rohr, Germany; vested in the Alien Property Custodian
Application October 8, 1941, Serial No. 414,146
In Germany June 6, 1940
6 Claims. (Cl. 280—106.5)



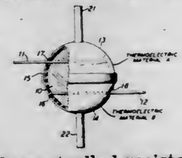
1. A vehicle comprising a chassis, wheels mounted thereon, and a body provided with a lower concave curved portion, said chassis being provided with an upper convex curved portion spaced substantially uniformly below said curved portion of the body, spaced rubber supports for the body secured between said curved portions to both the body and chassis and arranged on opposite sides of the vertical centre plane of the vehicle at substantial distances therefrom.

2,352,055
APPARATUS FOR MAKING THE CARCASSES OF RUBBER TIRES
Earney William Witt, Windsor, Victoria, Australia
Application August 22, 1940, Serial No. 353,690
In Australia August 31, 1939
3 Claims. (Cl. 154—10)

1. Apparatus for making the carcass of a rubber tire comprising a rotatable member, a drum-shaped former, a fixed guide for rubber strip material to be wound on said former, means rotatably supporting said former on said rotatable member in an angularly inclined position with the axes of said former and of said rotatable member intersecting each other at the centre of the former, means to rotate said rotatable member about its axis, a fixed gear coaxial with said rotatable member, and means actuated by said fixed gear and including a speed reducing gear to rotate said former about its axis at a speed to offset successive rubber strip windings on said former by an amount equal to the width of the rubber strip.

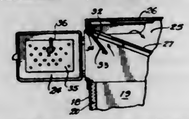


2,352,056
THERMALLY CONTROLLED RESISTOR
Leon T. Wilson, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 23, 1942, Serial No. 459,371
6 Claims. (Cl. 201—63)



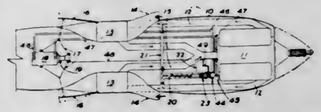
1. A thermally controlled resistor comprising a body of a material having a relatively high temperature coefficient of resistance, terminal means secured to said body, and thermoelectric junction means in good thermally conductive relation to said body but electrically insulated from said body and said terminal means.

2,352,057
SAFETY BY-PASS FOR STOVES AND FURNACES
Paul Wingert, Montpelier, Ohio
Application February 7, 1941, Serial No. 377,825
3 Claims. (Cl. 126—287)



1. In stove and furnace constructions the combination of a sealed magazine having a discharge orifice in its top wall, a feed door in the side wall of the stove and opening into said magazine and a stack opening, said magazine having substantially direct communication with said stack opening through said discharge orifice, a safety by-pass damper comprising a closure plate pivotally mounted at one edge to the top wall of said magazine adjacent said feed door and arranged to cover said discharge orifice, and camming means secured to the inner side of said door for automatically operating said plate whereby upon opening said door said plate will swing downwardly on its pivot by gravity to expose the discharge orifice and allow any gases accumulating in the upper portion of said magazine to pass into said stack opening, and upon closing said door said camming means will bear against said plate and close said discharge orifice.

2,352,058
AUTOMATIC TEMPERATURE CONTROL
Wilbur G. Wood, Glendale, and Frank Baldwin Hunter, Tujunga, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.
Application July 31, 1940, Serial No. 348,634
9 Claims. (Cl. 123—178)

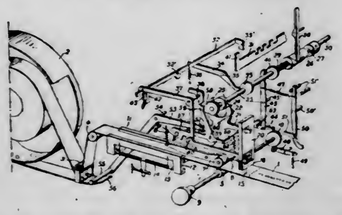


2. An engine cooling system embodying at least two fluid circulating systems, a cooling radiator for each system, a bypass connecting said circulating systems to the return sides of the radiators, a thermostat submerged in said bypass, air circulation restricting means for each radiator, hydraulic operating means for said restricting means, a selector valve associated with the thermostat and adapted to control said hydraulic operating means, and follow-up means connected between the circulation restricting means and the thermostatic member adapted to vary the energization of the operating means in accordance with the position of the circulation restricting means.

2,352,059
TREATMENT OF HYDROCARBONS
Paul Woog, Paris, France; vested in the Alien Property Custodian
No Drawing. Application April 19, 1940, Serial No. 330,613. In France May 6, 1939
1 Claim. (Cl. 196—27)

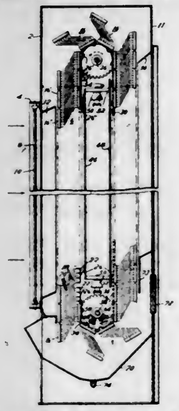
A process of producing motor fuels of high anti-knock value by a desulfurizing and reforming action, which comprises completely vaporizing a light hydrocarbon oil containing from about 5 to 6 per cent of an added sulfurized schist oil, passing said vapors in contact with a reforming catalyst at a temperature within the range of about 300° to 500° C. and recovering a desulfurized and reformed motor fuel of high anti-knock value.

2,352,060
TELEGRAPHIC RECEIVING PERFORATOR
Herbert Wüsteney, Berlin-Wilmersdorf, and Erich Lölkes, Berlin-Staaken, Germany; vested in the Alien Property Custodian
Application March 12, 1941, Serial No. 382,856
In Germany February 16, 1940
9 Claims. (Cl. 178—92)



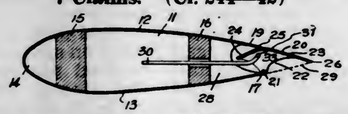
1. A recording retransmission receiver for telegraph systems provided with answer-back devices for transmitting to the sending station a "who are you" combination of signals identifying the receiving station, comprising a recording device having transport means for accommodating a recording tape and recording means in cooperative relation to said transport means for recording signals on said tape in accordance with a communication to be retransmitted, and means responsive to said "who are you" combination and associated with said recording device for rendering the latter ineffective in response to the receipt of said combination so as to prevent a permanent record of said combination on said tape.

2,352,061
SELF-CLEANING ELECTRICAL PRECIPITATOR
Irvine A. Yost and Edward H. R. Pegg, Lakewood, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 18, 1942, Serial No. 466,020
4 Claims. (Cl. 183—7)



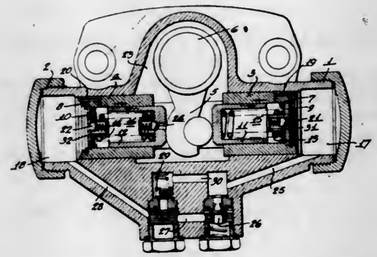
4. An electrical belt-type dust-precipitator for cleaning a gas-flow, comprising, in combination, a plurality of dust-precipitator sections, each comprising a plurality of spaced facing relatively insulated and uninsulated plate-electrodes, positioning means for intermittently moving said sections step-by-step through a plurality of successive gas-cleaning positions along a substantially straight side of an oblong endless path, then through an electrode-cleaning portion at a return bend of said path, and then through a plurality of successive gas-cleaning positions along the other substantially straight side of said path, circuit means for oppositely charging the adjacent plate-electrodes of each section in each of its positions, a pipe-means in said electrode-cleaning portion, inside said oblong path, for discharging a treating liquid into a section associated therewith in said electrode-cleaning portion, and means for causing said pipe-means to periodically discharge said treating liquid in a predetermined time relation to the intermittent movement of said sections.

2,352,062
UPPER SURFACE FLAP
Edward F. Zap, Los Angeles, Calif.
Application January 13, 1940, Serial No. 313,770
7 Claims. (Cl. 244—42)



1. In an aircraft, an airfoil with continuously curved upper and lower surfaces terminating in a trailing substantially spanwise extending rearwardly projecting upper airfoil lip and in a trailing substantially spanwise extending rearwardly projecting lower airfoil lip, a substantially spanwise disposed flap much thinner throughout than the distance between the upper airfoil lip and the lower airfoil lip, movably mounted behind the airfoil and in all positions partly within the pocket formed by and between said upper airfoil lip and said lower airfoil lip so that the leading edge of the flap is forward of the two trailing edges of the two lips, the flap being in all positions in spaced relation to the lower airfoil lip and in contact with the upper airfoil lip, the airflow-exposed rear portion of the upper flap surface and the upper airfoil surface joining substantially flush with each other so as to form together a substantially continuously curved upper surface, and means for displacing said flap.

2,352,063
HYDRAULIC SHOCK ABSORBER
Wilhelm Zenz, Wuppertal-Elberfeld, Germany; vested in the Alien Property Custodian
Application February 28, 1941, Serial No. 381,164
In Germany July 3, 1930
12 Claims. (Cl. 188—88)



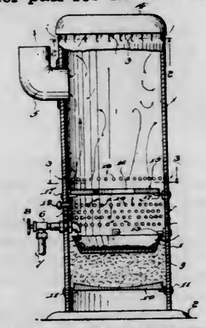
1. An hydraulic shock absorber, comprising two cylinders, an absorber piston in each of said cylinders, a liquid filled hollow space in each of said absorber pistons closed by a spring-loaded piston guided in said absorber piston, and a throttling device for the liquid discharged from said hollow space provided at one of said pistons, said throttling device discharging into the pressure space of the shock absorber.

2,352,064
REFINING MINERAL OIL
Carl Zerbe, Hamburg, Germany; vested in the Alien Property Custodian
No Drawing. Application June 24, 1941, Serial No. 399,555. In Germany December 20, 1937
2 Claims. (Cl. 196—41)

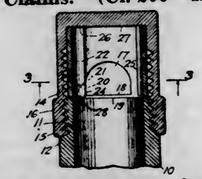
1. In a method of refining mineral oil, the steps which comprise acidifying a batch of oil, neutralizing the acidified oil by settling by means of ammonia, treating the oil with a decolorizing clay, reactivating the spent decolorizing clay by treating it at first with benzine, then with a benzine alcohol mixture, and finally with water, and using the reactivated decolorizing clay for another batch of oil.

2,352,065
LIQUID FUEL HEATER
Walter F. Adams, Seagoville, Tex.
Application February 26, 1943, Serial No. 477,257
3 Claims. (Cl. 126—93)

1. A liquid fuel heater comprising a hollow drum for containing combustible gases, the upper end of the drum being corrugated, a cover fitting over the corrugations and providing air inlets to the drum, a vent for exit of burned gases, a member loosely supported in the lower end of the drum and forming a support for insulating material, a fuel pan resting in floating fashion on the insulating material and away from the inner walls of the drum, a valve means for admitting fuel to the fuel pan, a plurality of perforations above the fuel pan for inlet of air for combustion purposes with the gases generated within the drum, a baffle plate with a central opening to restrict the flow of gases from the first to the second stage of combustion, a plurality of apertures above the baffle plate for air inlet in the second stage of vaporization and gas combustion, the inlets for air in the corrugated rim of the drum co-operating with the second stage of operation in the production of vaporization and combustion, and a removable plug for igniting purposes disposed in the wall of the drum.



2,352,066
DISPENSING CONTAINER
Huna L. Apfelbaum, Brooklyn, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application October 28, 1942, Serial No. 463,649
2 Claims. (Cl. 206—42)



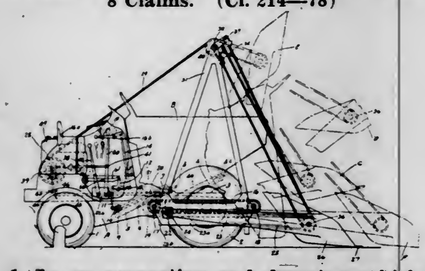
1. In a container, a screw cap having a top and a depending wall, the wall having a discharge opening therein, said opening having a flat lower edge, and a semi-circular upper edge, said opening having a substantially rectangular extension continuous with said lower edge and extending past the upper edge at one side thereof, a movable shutter having an outer surface engaging the inner surface of said wall and slidable thereon about the axis of the cap, said shutter being a hollow cylinder of uniform thickness, uniform inner diameter throughout and uniform outer diameter throughout, said shutter having upright terminal side edges spaced apart a distance at least that of the width of the opening, the upper end of the shutter engaging the under surface of the cap top; and a finger piece on the shutter projecting through the opening and having a flat bottom edge engaging the flat edge of the opening and constituting the sole means for supporting the shutter against axial movement away from said cap top.

2,352,067
TOWEL
Alan D. Barr, Tulsa, Okla.
Application September 9, 1940, Serial No. 356,004
2 Claims. (Cl. 139—396)



1. A terry cloth towel of substantially rectangular shape having woof and warp threads of said cloth extending transversely and longitudinally of the towel and retaining loops characterizing the terry cloth, and a substantially non-elastic reinforcement extending from one corner of the towel diagonally across the warp and woof threads to the opposite corner to take tension strains diagonally of the warp and woof threads when the towel is gripped at the corners thereof.

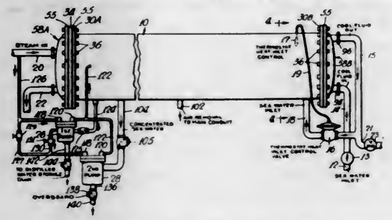
2,352,068
EXCAVATING, LOADING, AND DUMPING VEHICLE
Raymond A. Beckwith, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application February 1, 1943, Serial No. 474,333
8 Claims. (Cl. 214—78)



1. In an excavating and dumping vehicle of the class described, in combination, a portable supporting chassis adapted to be moved over the earth from a place of excavation to a place of deposit of earth materials, a dump body upon the chassis, means for shifting said dump body in an endwise direction of the chassis for causing dumping action thereof, an excavating dipper at one end of the chassis so disposed that in a certain position it will prevent dumping action of the body, means for raising the dipper to discharge its contents into the dumping body, and means for effecting dumping operation of the dumping body, together with instrumentalities for causing automatic movement of the dipper out of the way of the dumping body when the latter is operated to dump.

2,352,069
DISTILLING APPARATUS
Walter E. Beline, Englewood, N. J.
Application July 22, 1942, Serial No. 451,897
17 Claims. (Cl. 202—187)

1. A distilling apparatus comprising in combination an elongated tank of substantial length as compared to its width dimension having an elongated trough structure adapted to hold a substantial volume of liquid mounted within said tank and in spaced relation thereto, said elongated trough structure extending substantially the length of the tank and being open at the top throughout its length, means for supplying a liquid to said



elongated trough structure, means for causing the liquid retained in said elongated trough structure to vaporize, condensing means mounted in the lower part of the space between said tank and trough structure for condensing the vapor passing thereover, and means for removing the condensate from said tank.

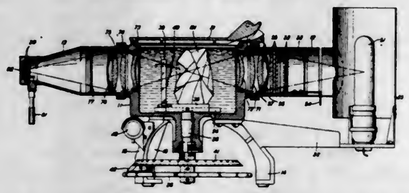
2,352,070
POLYALKYLENE POLYAMINOMALONAMIDE RESINS
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 9, 1941, Serial No. 387,679
12 Claims. (Cl. 260—72)

1. As new compositions of matter, the reaction products of formaldehyde and a N-polyalkylene polyaminoamide of malonic acid, said amide having a reactive methylene group.

2,352,071
AMINOALKYL MALONAMIDE RESINS
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 9, 1941, Serial No. 387,680
6 Claims. (Cl. 260—72)

1. As new compositions of matter, the reaction products of formaldehyde and an N-aminoalkyl amide of malonic acid.

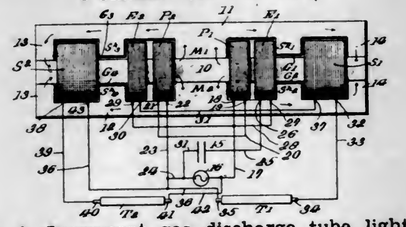
2,352,072
CONOSCOPE
Walter L. Bond, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 19, 1942, Serial No. 469,520
9 Claims. (Cl. 88—14)



1. An immersion type conoscope for examining crystals comprising an immersion tank, said

tank having two ports at diametrically opposite points in the side wall thereof, an object supporting table within said tank, and two lens systems horizontally arranged with respect to said tank, a concavo-convex lens at one terminal of each of said lens systems, each of said terminal lenses being positioned in a respective one of the ports whereby the ports are effectively closed to the passage of fluids, said terminal lenses being so positioned with respect to each other and their respective inner surfaces being so shaped that they may be considered parts of the same imaginary spherical surface the center of which is within the light path through said lens systems and is so located with respect to said table as to lie within an object supported by said table whereby a ray of light projected from the center point of the imaginary spherical surface to the inner surface of either of said terminal lenses and unrefracted during travel from said center point to said inner surface will strike the respective inner surface at right angles regardless of its direction of projection.

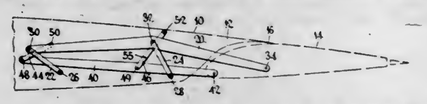
2,352,073
LUMINESCENT TUBE SYSTEM AND APPARATUS
Charles Philippe Boucher, Paterson, and Frederick August Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application July 14, 1941, Serial No. 402,410
6 Claims. (Cl. 315—257)



5. A fluorescent gas discharge tube lighting system comprising in combination, a high leakage reactance autotransformer which consists of a core divided magnetically into two parts by high leakage reactance shunt means including air-gaps calibrated according to the secondary load for which the transformer is designed, a primary coil and an extension coil disposed on one said part and a secondary coil disposed on the other said part; a source of alternating-current energy across which said primary coil is connected, the said primary coil additionally being connected in series with an extension coil and a power-factor-improving condenser, in a separate autotransformer circuit with the secondary coil; and a fluorescent gas discharge tube connected across the secondary terminals of the said primary and secondary coils, the high leakage reaction shunts serving to by-pass the greater part of the primary flux about said secondary coil upon increase in the load across said coil.

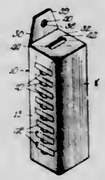
2,352,074
AIRCRAFT
Dayton T. Brown, Manhasset, N. Y., and Charles G. Layman, Red Bank, N. J., assignors to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application October 4, 1941, Serial No. 413,638
9 Claims. (Cl. 244—42)

1. In an airplane, a wing and a relatively movable flap therefor, a pair of flap supporting levers pivotally connected at their outer ends directly to said flap at points spaced in a vertical chordwise plane, and a pair of links associated with each of said levers for supporting the same for body movement thereof in predetermined paths,



each pair of links having an end of each link thereof pivotally attached to said wing and the opposite end thereof pivotally attached to the corresponding of said levers, the links of each pair thereof being spaced in the direction of the length of its associated lever.

2,352,075
DEODORANT HOLDER
Henry J. Brownstein, Chicago, Ill., assignor to Hysan Products Company, Chicago, Ill., a partnership
Application December 9, 1943, Serial No. 513,607
2 Claims. (Cl. 299—24)



1. A deodorant holder, comprising a vertically elongated carton constructed of stiff but readily bendable sheet material, said carton being provided in one of its side walls with a vertically extending row of punched out openings which form small fixed vents, and being provided in the same side wall with a vertically extending row of initially closed cut out tongues which when bent outwardly form relatively large adjustable extensions of the fixed vents.

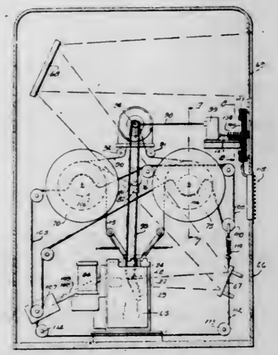
2,352,076
PROCESS FOR THE PROTECTION OF MAGNESIUM AND MAGNESIUM BASE ALLOYS AGAINST CORROSION
Charles James Bushrod, Prestwich, England, assignor to Magnesium Elektron Limited, London, England, a company of Great Britain
No Drawing. Application April 5, 1943, Serial No. 481,952. In Great Britain April 2, 1942
3 Claims. (Cl. 148—6)

2. A process for the protection of magnesium and magnesium base alloys against corrosion, comprising first treating the metal with a solution, said solution containing principally manganous sulfate and being capable of forming a film of manganous hydroxide on the surface of the metal, then treating the metal with an aqueous solution of an oxidizing salt capable of oxidizing the manganous hydroxide to manganese dioxide.

2,352,077
COIN CONTROLLED MOTION PICTURE APPARATUS
Jerome L. Clough, Milwaukee, Wis.
Application September 15, 1941, Serial No. 410,828
25 Claims. (Cl. 88—24)

1. In apparatus for reproducing a selected feature from a record strip containing a plurality of

features, the combination with feature reproducing mechanism and automatically operable driving connections for operating said strip in operative relation to said mechanism at reproducing speed, of high speed driving connections for said strip, a selector including manually operable means for determining the feature to be repro-



duced, and selector-controlled mechanism for automatically actuating the high speed driving connections to move said strip rapidly to the starting point of the selected feature and for automatically operating the selected feature substantially throughout its length through the reproducing mechanism at reproducing speeds.

2,352,078

INSECTICIDAL COMPOSITION

Gerald H. Coleman and Clarence L. Moyle, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 27, 1940, Serial No. 348,010
6 Claims. (Cl. 167—30)

2. An insecticidal composition comprising as an active toxicant from 0.5 to 10 per cent by weight of a compound having the formula

$$R—S—(C_nH_{2n}—O)_mC_nH_{2n}—Cl$$

wherein R represents a cyclic organic radical selected from the group consisting of aromatic, alicyclic, and heterocyclic radicals and in which any halogen substituents which may be present are attached directly to nuclear carbon atoms, n is an integer from 2 to 4, inclusive, and m is an integer not greater than 3.

2,352,079

INSECTICIDAL COMPOSITION

Gerald H. Coleman and Clarence L. Moyle, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 7, 1942, Serial No. 461,198
7 Claims. (Cl. 167—30)

1. An insecticidal composition comprising as an active toxic ingredient, a compound having the formula

$$R—S—(C_nH_{2n}—O)_m—C_nH_{2n}—S—R$$

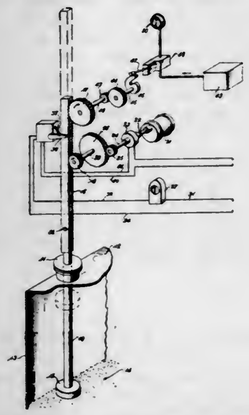
wherein R represents a cyclic organic radical selected from the group consisting of aromatic, alicyclic, and heterocyclic radicals, n is an integer from 2 to 4, inclusive, and m is an integer not greater than 3, and a carrier therefor.

2,352,080

BIN LEVEL INDICATOR

John A. Crowley, Jr., Woodbury, N. J., and Edward L. Sinclair, Philadelphia, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application April 15, 1943, Serial No. 483,200
7 Claims. (Cl. 33—126.6)



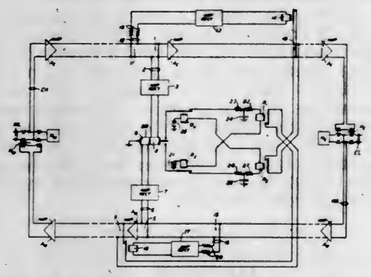
1. A device for measuring the level of a solid material in a container comprising, a follower adapted to rest on the surface of said material, means for upwardly driving said follower to a predetermined raised position above the level of the material, means for periodically energizing said driving means, means responsive to the attainment by said follower of the predetermined position for de-energizing said driving means to release the said follower to fall to a position at rest on the surface of said material, and means responsive to the rest position of said follower for indicating material level.

2,352,081

TRANSMISSION CONTROL IN TWO-WAY SIGNAL TRANSMISSION SYSTEMS

Kingsbury H. Davis, Bernardsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 19, 1942, Serial No. 458,974
6 Claims. (Cl. 178—44)



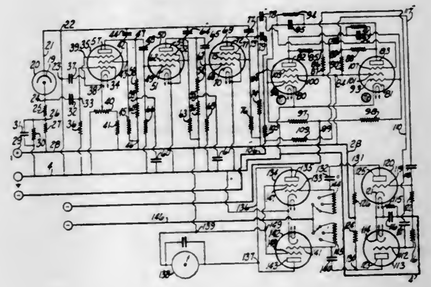
1. In combination in a two-way telephone system, oppositely directed one-way transmission paths for the voice signals transmitted in opposite directions, a voice-operated differential echo suppressor controlled from the two paths, operating to allow transmission over the path supplied with the stronger signals while effectively disabling the path supplied with the weaker signals, an auxiliary voice-operated control device connected to each path in front of the disabling point therein responsive to the supply of voice signals thereto a given amount stronger than normal signals to prevent that path from being disabled, or to effectively remove the disability from that path if already disabled.

2,352,082

FREQUENCY METER

Louis A. de Rosa, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application July 23, 1941, Serial No. 403,744
15 Claims. (Cl. 172—245)



1. In combination, means to convert electric potential sine wave impulses to peaked impulses of both polarities, the total number of said peaked impulses being double the number of full sine wave impulses; means to convert the peaked impulses of opposite polarity to peaked impulses of the same polarity, said last-named impulses having a logarithmic decay slope; and means to integrate the last-named impulses into an average current.

2,352,083

MOLD

Robert L. Detjen, St. Louis, Mo., assignor, by mesne assignments, to Vincil R. Stamm, Walter J. Bach, and Roy O. Bach, all of St. Louis County, Mo., doing business as Fixture Products Co., St. Louis, Mo.

Application May 1, 1941, Serial No. 391,239
3 Claims. (Cl. 18—39)



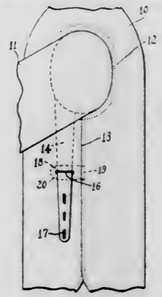
1. In a molding device, a matrix comprising a uniformly thin-walled, hollow, elastic body having an opening slit in a wall portion thereof, a rigid casing for said matrix, said casing having portions adapted to grip the matrix at the edges of said slit to maintain said slit in sealed condition during a molding operation.

2,352,084

SHIRT

Frank Di Iuglio, New Haven, Conn.

Application March 18, 1943, Serial No. 479,570
2 Claims. (Cl. 2—117)



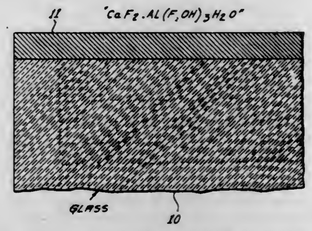
1. A shirt having side seams extending downwardly from the armholes, a strap at the inside of the shirt at each side thereof below the armholes each of said straps being secured at the upper end to the armhole seam forwardly of the junction of the side seams therewith and hanging downwardly therefrom, the shirt being provided with openings adjacent to, but spaced forwardly from, the side seams and at points spaced a considerable distance below the armholes through which said straps extend to the outside of the shirt, fastening means on the lower end of said straps for connection with a trouser button, and reinforcing pieces of material surrounding said openings extending rearwardly to and secured in said side seams.

2,352,085

REDUCTION IN REFLECTION FROM GLASS

Glenn L. Dimmick, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware

Application August 29, 1941, Serial No. 408,807
6 Claims. (Cl. 88—1)



1. An optical element having a refracting surface and a reflection reducing coating thereon having a thickness of approximately one quarter wavelength of the light for which maximum reflection reduction is to be produced and consisting of evaporated and deposited gearksutite.

2,352,086

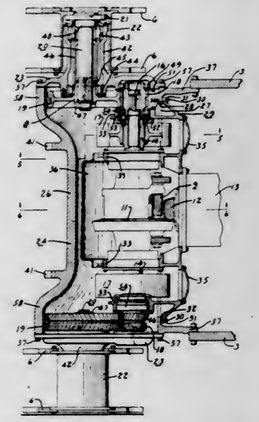
FINAL DRIVE HOUSING FOR COMBAT VEHICLES

Harmon S. Eberhard, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California

Application April 19, 1943, Serial No. 483,640
8 Claims. (Cl. 180—9.1)

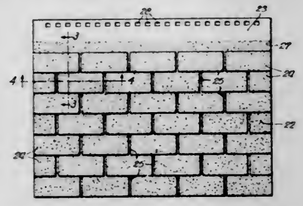
1. A combat vehicle having final drive means adjacent an end thereof where it would be ex-

posed to gunfire if unprotected; and a housing for the final drive means including a one piece casting providing a casing protecting the final drive means against gunfire, the casting extending transversely of the vehicle and having an in-



tegral wall at the exposed outer side thereof and an opening at the unexposed inner side thereof, and a final drive mechanism supporting structure detachably secured to said casting over said opening.

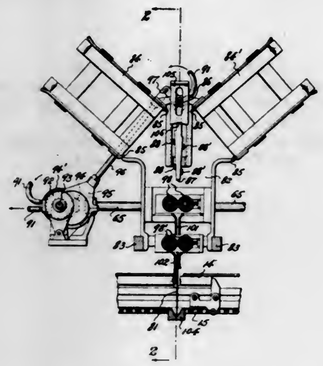
2,352,087
DISPLAY DEVICE
Elmer W. Ericson, Chicago, and Rudolph E. Brauer, Riverside, Ill., assignors to The Barrett Bindery Co., Chicago, Ill., a corporation of Illinois
Application January 29, 1943, Serial No. 473,948
10 Claims. (Cl. 35—53)



1. A panel simulating in appearance a shingle roof in miniature, said panel comprising elements cut apart from each other and corresponding to and simulating the exposed areas of the shingles of a shingle roof and arranged in substantially non-overlapping relation extending downward and forward of said panel with their side and lower cut edges exposed to view.

2,352,088
SHEET FEEDING MECHANISM
Harry L. Evans, Newport, R. I., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass., a corporation of Massachusetts
Original application November 29, 1939, Serial No. 306,600. Divided and this application January 21, 1942, Serial No. 427,533
9 Claims. (Cl. 271—9)

1. In sheet feeding mechanism, means to successively feed sheet blanks to a place of use comprising, convergingly inclined opposed magazines to contain supplies of blanks, a single pivoted extractor arm, means for continuously swinging said extractor arm back and forth between the discharge ends of said magazines to alternately



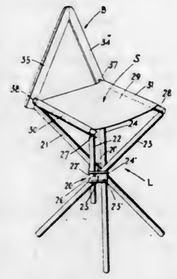
withdraw blanks therefrom, and a single blank receiving and advancing means below and intermediate said magazines and aligned with the medial position of said oscillated extractor arm to receive blanks therefrom.

2,352,089
WINDMILL CONTROL
Arthur Fagerlund, Brooklyn, N. Y.
Application November 18, 1941, Serial No. 419,603
5 Claims. (Cl. 170—37)



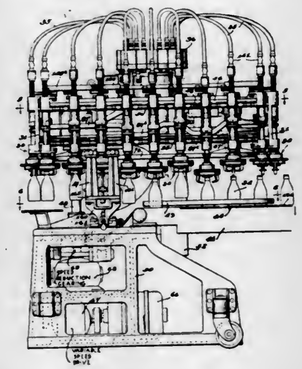
1. In a windmill, motor means for turning said windmill into the wind, automatic means to energize said motor, braking means to control the rotation of said windmill, automatic means for setting said braking means, a hollow shaft in said windmill, and manually controlled cables for setting and releasing said braking means including a pair of cables extending through said hollow shaft one of said cables operating the setting means and the other of said cables releasing the braking means.

2,352,090
FOLDING CHAIR
James Faller, New York, N. Y.
Application September 13, 1941, Serial No. 410,656
6 Claims. (Cl. 155—136)



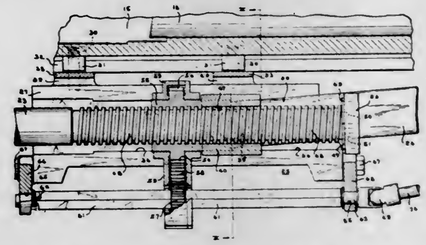
3. In a folding chair, a collapsible seat structure and a collapsible back structure, the seat structure consisting of two parallel bars and a flexible interconnecting seat section, the parallel bars supplying seat rigidity in one direction and the flexible seat section supplying seat collapsibility in another direction, the seat being collapsible with the bars arranged in closely parallel formation, the back structure consisting of two bars hinged together towards one end and movable when detached about the hinge between an open inverted V formation and a collapsed closely parallel formation, the free ends of the bars of the back structure being connected to the bars of the seat structure when in assembled condition.

2,352,091
APPARATUS FOR GAUGING GLASSWARE
William J. Fedorchak, Granite City, and Albert S. Jackson, Wood River, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application February 5, 1941, Serial No. 377,468
30 Claims. (Cl. 209—88)



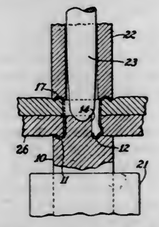
1. Apparatus for gauging the height of bottles or other articles, comprising a horizontally traveling conveyor on which the articles are supported, article lifting devices, means for supporting said lifting devices above the conveyor and causing them to travel with the conveyor, means for lowering the lifting devices and causing them to seat on the articles and travel therewith, a stationary gauge comprising a contact element, cooperating contact blocks carried by said lifting devices at a height predetermined by the height of said articles, said traveling contact blocks being arranged to clear the contact element on the gauge when the corresponding articles are of a specified height and arranged to engage said contact element on the gauge when the articles are of a different height and thereby actuate the gauge, and means controlled by the gauge for discarding said last mentioned articles.

2,352,092
STOKER APPARATUS
Robert A. Foresman, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 6, 1943, Serial No. 474,915
6 Claims. (Cl. 74—586)



1. Stoker mechanism comprising a ram-operating member including an externally threaded portion adjacent one end; a nut in threaded engagement with said threaded portion and providing an abutment; means providing spaced parallel guides at opposite sides of the threaded portion; a crosshead closely surrounding said threaded portion and slidable longitudinally thereon into and out of engagement with the abutment on said nut; guide blocks supporting said crosshead and being slidably supported by the spaced parallel guides; means providing a stop on the ram-operating member at the side of the crosshead opposite to the nut, whereby movement of said crosshead along said operating member is limited in one direction by said stop and in the other direction by the nut; means for imparting reciprocatory motion to said crosshead; and means whereby the nut may be rotated on the threaded portion to vary its position longitudinally of the ram-operating member.

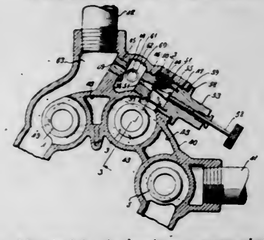
2,352,093
EYELET SETTING TOOL
Sylvester L. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 15, 1943, Serial No. 514,360
4 Claims. (Cl. 218—14)



1. A tool for clenching an eyelet, the tool having an arcuate upsetting surface arranged to turn

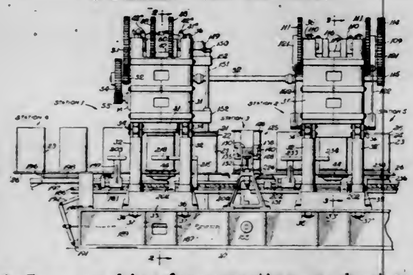
out and clench a segment of a circular eyelet barrel, a cylindrical upsetting surface arranged to turn in and curl another segment of the barrel, and sharp scoring edges at the ends of said arcuate surface.

2,352,094
ADJUSTABLE INJECTOR
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.
Application March 10, 1942, Serial No. 434,139
6 Claims. (Cl. 103—272)



1. An adjustable injector comprising: a housing having three axially spaced openings of progressively smaller size; an injector tube in each of the two smaller openings; a plug mounted in the largest of said openings, said injector tubes being arranged to form a chamber therebetween, and said plug and the adjacent injector tube being arranged to form a second chamber therebetween; means for connecting said first-mentioned chamber with a source of fluid to be injected by the injector; means for connecting said second chamber with a source of operating fluid under pressure; and adjustable means carried by said plug and extending into said second chamber for controlling the rate of flow of operating fluid from said second chamber into said adjacent injector tube.

2,352,095
METALWORKING MACHINE
Carl C. Grotnes, Park Ridge, Ill.
Application June 5, 1939, Serial No. 277,371
6 Claims. (Cl. 113—115)



1. In a machine for operating on sheet metal shells, in combination, a pair of cyclically operable forming units for shaping opposite ends of the shells, intermittently operating feed mechanism for transferring the shells step by step from one unit to the other, and a work turning mechanism interposed between the units for turning the shells to position them for presentation to said other unit by the feed mechanism, said turning mechanism comprising, a frame open at opposite sides for the passage of the shells in their transfer between the units, means included in said feed mechanism for depositing a shell in said frame in one operating cycle and for removing the shell therefrom in the succeeding operating cycle, means supporting said frame for rotation about a horizontal axis, power actuated means including a friction clutch for rotating said frame, a latch acting to hold the frame against rotation, and means for momentarily withdrawing said latch in timed relation to the operation of said feed mechanism to release the frame for rotation between each operating cycle of the feed mechanism, said latch acting to stop the frame upon completion of a half revolution with the shell therein positioned for presentation to the second forming unit.

2,352,096
SEPARATION OF COPPER FROM OTHER METALS
John O. Hay, Cleveland Heights, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Application March 23, 1942, Serial No. 435,915
7 Claims. (Cl. 23—135)

1. A process comprising heating an aqueous acid solution containing an ion of the class consisting of chloride and sulfate in contact with elemental sulfur and a mixture in the metallic state including copper and a metal more electropositive than copper, whereby copper sulfide is formed and the more electropositive portion of said mixture is dissolved, and separating the resulting copper sulfide from the reaction mixture.

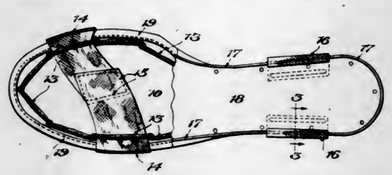
2,352,097
PRODUCTION OF ORGANIC COMPOUNDS CONTAINING SULPHUR, CHLORINE, AND OXYGEN
Paul Herold, Karl Smeykal, Friedrich Asinger, and Wilhelm Wolf, Leuna, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 30, 1938, Serial No. 227,510. In Germany September 2, 1937
4 Claims. (Cl. 204—162)

1. The process for the production of organic sulfonic acid chlorides having from two to eight carbon atoms per molecule and containing a preponderating amount of chlorine in an easily saponifiable form, which comprises dissolving a paraffinic hydrocarbon having from two to eight carbon atoms per molecule in a liquid solvent therefor which is stable to chlorine and sulphur dioxide to thereby form a liquid solution of a paraffinic hydrocarbon having from two to eight carbon atoms per molecule and solvent, and reacting the paraffinic hydrocarbon having from two to eight carbon atoms per molecule in said solution with a mixture of chlorine and sulphur dioxide in which the amount of chlorine used is at most equimolecular to the amount of sulphur dioxide while irradiating the reaction mixture with light consisting essentially of wave lengths between 1800 and 5000 Angstrom units, thereby bringing about the formation of the sulphonic acid chlorides.

2,352,098
FOOTWEAR
Willy Hess, New York, N. Y.
Application June 25, 1942, Serial No. 448,426
1 Claim. (Cl. 36—11.5)

A toeless sandal consisting of a sole provided with a series of openings adjacent its peripherial

portion, a pliable member threaded through the openings and thereby constituting a series of elongated holding loops, a wide strip of material threaded through selected holding loops on opposite sides of the sole and having the ends of the strip material secured together to form a

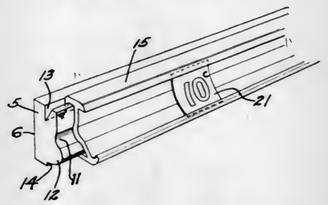


foot engaging loop over the forward portion of the sole, side loops secured to the mid-section of the sole on opposite sides theref, and a longitudinally extending wide strip secured to the sides of the foot loop and passing through the side loops and extending around the rear portion of the sole to form a heel engaging strip.

2,352,099
TISSUE FILLER
George E. Hobdell, Upper Darby, Pa.
No Drawing. Application May 12, 1942. Serial No. 442,578
4 Claims. (Cl. 27—21)

1. A tissue filler for corpses comprising 90 c. c. nitrocellulose, 3840 c. c. methanol (over 99% pure), 40 c. c. formaldehyde solution, 60 c. c. glycerine, 6 c. c. jasamin, 3 c. c. chypre, and 15 c. c. eosine dye.

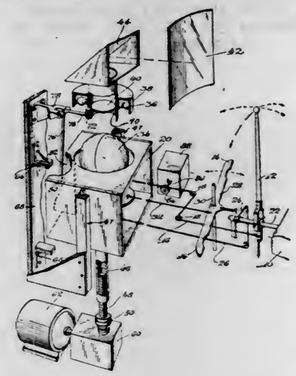
2,352,100
STORE SHELVING DISPLAY FACING
Anton N. Hornung, Los Angeles, Calif.
Application February 15, 1941, Serial No. 379,144
2 Claims. (Cl. 40—16)



1. In a device of the character set forth for attachment to shelving comprising a molding provided at its top with a longitudinal V-shaped groove and at its bottom with a longitudinal notch; a metal facing provided at its top with a longitudinal tapered jaw extending downwardly that is slidably mounted into said V-shaped groove of the molding to grip and form a lock thereto; a flange at the bottom that fits into said longitudinal notch and inwardly curved central surface provided with an arc-shaped groove that is slidably mounted in a groove of said molding and niche means to hold display cards therein.

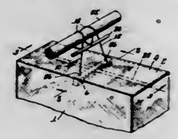
2,352,101
PILOT TRAINER
William H. Hutter, Chicago, Ill.
Application August 7, 1942, Serial No. 453,945
15 Claims. (Cl. 35—12)

1. In a pilot training device of the type in which movement of airplane controls produces movement of a scene projected upon a screen in such a manner that changes in the projected scene simulate changes in attitude of the airplane, means to produce relative approaching and receding movement between the scene and the screen so as to shorten and lengthen the optical distance between these members, power driven means to produce said movement, and means op-



erated by the airplane controls to cause said power driven means to shorten the optical distance between the scene and the screen when the airplane controls are moved as though to place the simulated aircraft in a diving attitude and to lengthen said optical distance when said airplane controls are moved in an opposite manner.

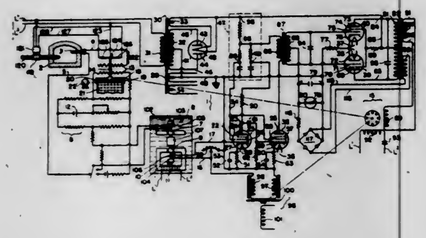
2,352,102
GARMENT BAG
James G. Johnston, Evanston, Ill., assignor to The Warren Featherbone Co., Three Oaks, Mich., a corporation of Michigan
Application September 30, 1942, Serial No. 460,237
8 Claims. (Cl. 206—7)



1. A garment bag comprising an envelope of flexible sheet material shaped and fitted to cover the garments hung therein and being substantially rectangular in cross section at the top, and a frame-like support adapted to lie horizontally within and just beneath the top of the envelope to maintain the envelope in open rectangular position comprising a relatively flat rectangular frame of sheet material, a rigid cross bar extending transversely of and centrally of the length of said frame member and underlying it and extending substantially the width of the top of the bag, said bar contactingly underlying and supporting the central portion of the frame, and rigidifying means carried by the cross bar and supporting the frame longitudinally of the axis of the frame, means engaging the cross bar and passing through the sheet material and through the top of the bag for dependingly holding the bag and frame, said cross bar having spaced means formed therealong for

receiving the hooks of garment supports so that the latter shall depend in parallel spaced relation therefrom and lie within the bag.

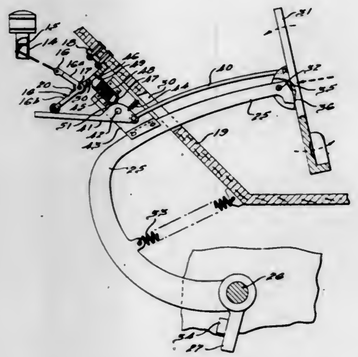
2,352,103
MEASURING AND CONTROL APPARATUS
Harry S. Jones, Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1942, Serial No. 446,828
22 Claims. (Cl. 172—239)



1. In combination, a primary deflecting element responsive to a variable condition, to establish an alternating field including an element adapted to be connected to a source of alternating current, a pick-up coil disposed in said field, a mechanical connection between said primary deflecting element and said pick-up coil whereby the latter is rotated to zero inductive position in said alternating field or in either direction therefrom to thereby cause the induction of an alternating current of one phase or of opposite phase in said pick-up coil accordingly as said condition varies, a container including a liquid in which said primary deflecting element and pick-up coil are immersed, said liquid tending to absorb shock and vibration to which said primary deflecting element and pick-up coil would otherwise be subjected, a secondary element mechanically separate from said primary deflecting element and adapted to be deflected in one sense or in another sense under control of said primary deflecting element, and phase responsive means controlled by said pick-up coil to deflect said secondary element said phase responsive means including means to render the operation of said secondary element substantially independent of both transient deflections of said galvanometer and small, gradual deflections thereof.

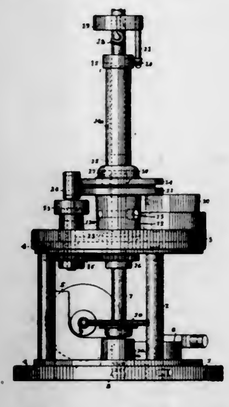
2,352,104
CONTROL SYSTEM FOR MOTOR VEHICLES
James A. Kennedy, Ann Arbor Township, Washtenaw County, Mich.
Application January 19, 1942, Serial No. 427,220
4 Claims. (Cl. 192—3)

1. In a motor vehicle having an engine and wheels, a throttle valve controlling said engine, brakes acting on said wheels for slowing down and stopping said vehicle, a single pedal structure comprising a stem hinged on the vehicle structure and connected to the brakes for operating the same and a foot rest hingedly mounted on said stem for limited rotative movement thereon and connected to the throttle valve, means associated with said foot rest, said means being adapted in the fully extended position of the stem to connect said foot rest to said throttle valve for actuating said valve in response to rotative movements of said foot rest, said means being further adapted to disconnect said foot rest from said throttle valve as said pedal structure is depressed to move said stem for application of brakes, and means to support said stem



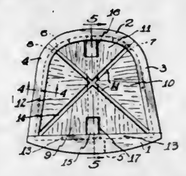
in the fully extended position thereof and to prevent brake applying movement thereof until the force on said stem reaches a predetermined magnitude, and means increasing the resistance of said stem-supporting means as the throttle valve is moved toward its fully open position.

2,352,105
LAPPING MACHINE
Frederick J. Kent, Glen Rock, N. J., assignor to Sipp-Eastwood Corporation, Paterson, N. J., a corporation of New Jersey
Application January 28, 1943, Serial No. 473,822
4 Claims. (Cl. 51—118)



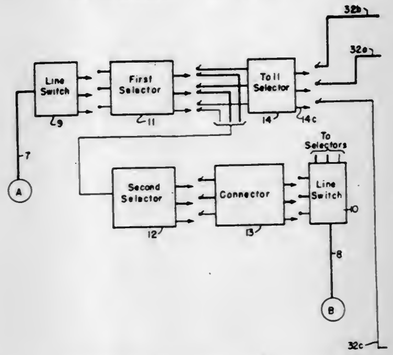
1. An assembly for lapping the herein-defined work, said assembly including an abrading structure and a work-abutted structure one of which is rotative relatively to the other around a fixed axis, the abrading structure providing a planiform abrading surface perpendicular to and extending around said axis and said assembly also including, cut by the plane of said surface, work abutments spaced apart less than the diameter of the work and one of which is as a whole eccentric of, and further than the other abutment from, said axis and projects from and provides a work-abutted portion of the work-abutted structure, in combination with means to hold the work in contact with said surface when positioned thereagainst and with its own axis substantially perpendicular to said surface and in an orbit coaxial with said structures and extending between said abutments.

2,352,106
FURNITURE CONSTRUCTION
Michael L. Kesner, Chicago, Ill.
Application November 2, 1942, Serial No. 464,157
6 Claims. (Cl. 155—179)



1. A seat structure comprising a four-sided wooden frame, having a deep relatively narrow groove formed in the inner face of all the sides of said frame and extending diagonally downwardly and rearwardly, a plurality of triangularly shaped sectors of laminated wood, the bases of which are seated in the grooves of said frame and secured therein, the remaining sides of each of said sectors being spaced apart and converging generally toward each other, and a narrow supporting strip of wood seated in the groove of said frame and extending medially from the front of said frame to the rear thereof and below said sectors, one end only of said strip being anchored in the groove of said frame, whereby upon downward pressure being exerted on said sectors the apexes of each will bear against said strip and said strip and sectors will yield generally in a downwardly direction as a unit.

2,352,107
TELEPHONE SYSTEM
Frank Kessler, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application September 14, 1942, Serial No. 458,254
46 Claims. (Cl. 179—27)

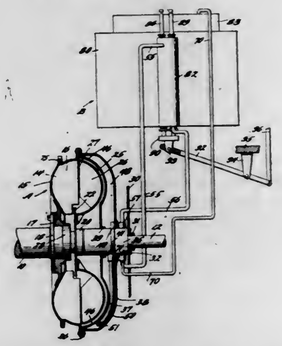


1. In a telephone system, an operator switchboard including facilities for answering incoming calls, a plurality of lines, answer switches associated with said switchboard and having access to said lines, means including said switches for routing calls from said lines to said switchboard to be answered, call storage means accessible to said switches and operative to store calls originating on said lines during an interval when all of the call answering facilities of said switchboard are unavailable, and means including said switches for extending the stored calls from said call storage means to said switchboard to be answered as the call answering facilities of said switchboard become available.

2,352,108
POWDERED PRUNE COMPOUND AND METHOD OF MAKING THE SAME
Louis La Vine, Burbank, Calif.
No Drawing. Application June 9, 1941, Serial No. 397,260
7 Claims. (Cl. 99—204)

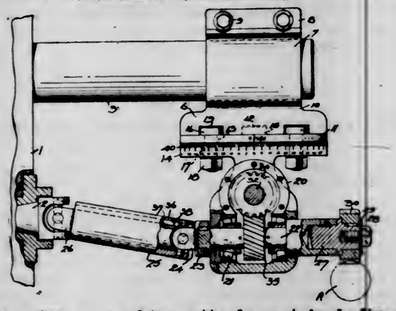
1. The method of preparing a desiccated prune product which comprises removing the pits from the fruit, soaking the fruit to saturation in water having dissolved therein a colloidal solution of sulphur from which substantially all impurities have been removed, then dehydrating to a powderable mass the fruit so treated by the aid of heat, and then grinding the dried fruit into powder within a temperature range of one hundred to one hundred forty degrees Fahrenheit.

2,352,109
FLUID TRANSMISSION DEVICE
Harry Burton Leary, Jr., Chevy Chase, Md.
Application April 26, 1940, Serial No. 331,881
8 Claims. (Cl. 60—54)



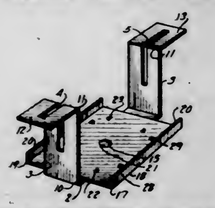
6. A variable speed hydraulic coupling system comprising, in combination, a circular chamber and impeller and driven elements associated therewith and comprising the working portion of said system, a gravity tank disposed at a higher level than said chamber for receiving working fluid from and supplying it to said working portion of the system, a conduit connecting the peripheral portions of said chamber with said tank for conducting fluid from said chamber to said tank, a conduit connecting the axial portion of said chamber with said tank for conducting fluid from said tank to said chamber, a unitary multiple valve body having a valve member for controlling the flow of fluid between each of said conduits and the tank, means for moving said valve to any of a plurality of positions, including the position where said first named conduit is cut off, and at least one position wherein the first named conduit is cut off and said second named conduit is open to the tank at selected levels of fluid in the latter.

2,352,110
MILLING MACHINE ATTACHMENT
Edward J. Matejcik and William J. Peppers, Detroit, Mich.
Application April 29, 1943, Serial No. 485,928
5 Claims. (Cl. 90—17)



1. A milling machine attachment including a mounting to be secured to an overarm, a circular guide integral with the mounting, a disc mounted on the guide for rotary adjustment, a housing integral with the disc, horizontally aligned bearings in the housing, an arbor extension supported therein having means on one extremity for securing a milling cutter thereto, an intermediate shaft having a universal coupling on one extremity for attachment to a main arbor, a horizontal stub shaft rotatably supported by the housing at an inclination to the arbor extension, means for driving the latter by rotation of the stub shaft, a universal coupling portion on one extremity of the stub shaft, an intermediate shaft of variable length having a universal coupling on one extremity for attachment to a main arbor, and a coupling portion on its other extremity for attachment to the first named coupling portion.

2,352,111
BATTERY HANGER
Harvey E. Meyer, Kansas City, Mo., assignor to Whitaker Battery Supply Company, North Kansas City, Mo., a corporation of Missouri
Application August 14, 1941, Serial No. 406,817
7 Claims. (Cl. 180—68.5)



3. A hanger for installing storage batteries in a vehicle including a bendable strap, means for anchoring the hanger to said vehicle, and means pivotally mounted on the strap for seating a storage battery in longitudinal or transverse relation to said strap.

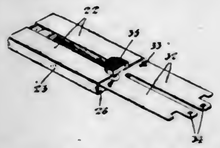
2,352,112
MAGAZINE SAFETY RAZOR
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application August 13, 1940, Serial No. 352,388
6 Claims. (Cl. 30—38)

1. A safety razor having a head with a stationary guard and blade hooks thereon, an upright frame mounted to rock about a transverse axis in the head and having a transversely extending top wall, a spring urging the frame always toward the guard and blade hooks, a strop



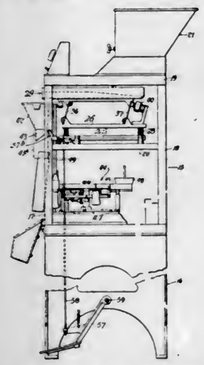
roll in said frame co-operating with said guard and the top wall of the frame to control the path of a strop, and an arm for moving the frame away from the blade hooks and the guard.

2,352,113
SAFETY RAZOR MAGAZINE
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application July 23, 1943, Serial No. 495,866
6 Claims. (Cl. 206—16)



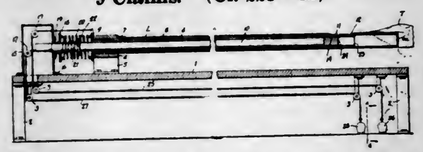
1. A magazine for thin sharp edged blades, comprising an enclosure provided with a blade outlet slot at one end, and a feed slide having means at one end for engaging and advancing a blade, and means at its other end for retracting a blade not fully ejected from the magazine by a previous movement of the slide.

2,352,114
AUTOMATIC WEIGHING DEVICE
Louis R. Muskat, Oak Park, Ill., assignor, by mesne assignments, to L. R. Muskat, Peter Muskat, Delbert Muskat, Nina L. Muskat, and Edna C. Muskat, collectively, doing business as Triangle Package Machinery Co., Chicago, Ill.
Application November 2, 1940, Serial No. 363,972
3 Claims. (Cl. 249—55)



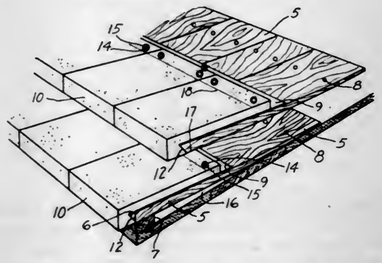
1. A device of the kind described including in combination a weighing mechanism, a plurality of conveyors arranged side by side and mounted for vibratory movement in parallel planes and arranged to deliver material simultaneously to said weighing mechanism, one of said conveyors having a relatively large capacity and the other having a relatively small capacity, means independent of each conveyor for supplying material directly thereto, electrically operated means associated with each conveyor for vibrating the same when energized, an electric circuit in which said electrically operated means are disposed, and switch means in said circuit and operated by said weighing mechanism when one predetermined amount of material has been delivered to said weighing mechanism for deenergizing that electrically operated means associated with the conveyor of larger capacity for stopping the same, said switch means also operating when another predetermined amount of material has been delivered to said weighing mechanism for deenergizing that electrically operated means associated with said conveyor of smaller capacity for stopping the same.

2,352,115
DEVICE FOR TURNING THE TUBULAR FORMS OF NECKTIES
Max M. Newman, New York, N. Y.
Application April 29, 1941, Serial No. 390,887
9 Claims. (Cl. 223—42)



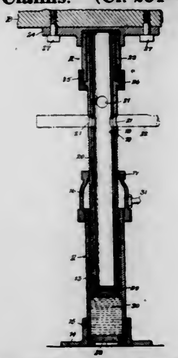
1. A device for use in turning the reverse tubular form of a necktie, comprising an outer hollow member which has a front end, an inner member slidable in the outer member, the outer member having an opening through which a tip of the tubular form can be inserted, said opening being located rearwardly of said front end, the inner member being slidable relative to said outer member to a position in which a part of said tubular worm can be inserted through said opening, said inner member being slidable to a clamping position in which its front clamping portion clamps said part of the tubular form against a wall of said opening, said front clamping portion being then located wholly inwardly of said outer hollow member, said outer member being sufficiently narrow to enter said reverse tubular form during the turning of said reverse tubular form.

2,352,116
ROOF AND WALL CONSTRUCTION
Vincent W. Noonan, La Salle, Ill.
Application July 13, 1942, Serial No. 450,663
6 Claims. (Cl. 108—8)



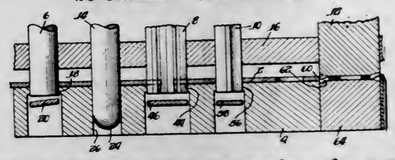
1. A roof construction in combination, a supporting structure, a spacer member, a wedge-shaped sub-member resting at one extremity upon said spacer member and secured to said supporting structure at the other extremity, the forward end of said sub-member forming an acute angle with upper surface thereof, and sloping inward, a tile member having a frontal hook portion corresponding to the said forward end of said sub-member and secured to the said supporting structure by nails passing thru said tile member and sub-member.

2,352,117
JACK
Joseph Pasternack, New York, N. Y.
Application June 3, 1943, Serial No. 489,429
6 Claims. (Cl. 254—98)



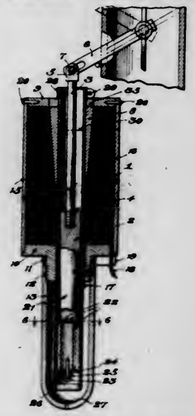
1. A jack comprising a standard composed of upper and lower sections, cooperative means to detachably connect said sections in line end-to-end, and one of said sections consisting of axially extensible and retractible parts, one of said parts being rotatable and axially movable, and said cooperative means causing the upper section to move exially only upon rotation and axial movement of said rotatable and axially movable part.

2,352,118
WASHER STRIP AND METHOD AND APPARATUS FOR PRODUCING SAME
Ouglјesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 16, 1942, Serial No. 431,072
20 Claims. (Cl. 10—73)



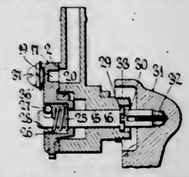
7. A machine for making washers from strip stock which comprises a cutting member for removing at spaced points pieces of waste material only to form the internal outlines of a plurality of washer elements, and a cutting member operable in such sequence to said first cutting member as to remove at spaced points between said internal outlines pieces of waste material only to form the external outlines of said plurality of washer elements, the last mentioned cutting member being so constructed as to form washer adjoining portions between external outlines of adjacent washers, which portions are of small area to facilitate detachment of an individual washer from an adjoined washer of the strip.

2,352,119
ELECTROHYDRAULIC SOLENOID
Harlie O. Putt, Elkhart, Ind.
Application September 17, 1942, Serial No. 458,707
2 Claims. (Cl. 175—372)



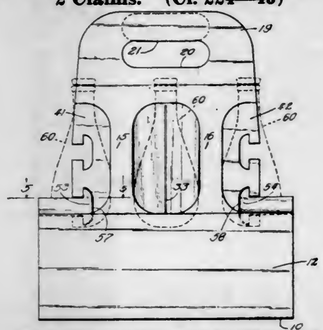
1. In an electro-hydraulic solenoid, the combination of a plunger rod, a plunger secured to the rod, a plunger tube closed at both ends and in which the plunger is slidably mounted, said plunger having a conically tapered portion whereby with the tube to provide an annular clearance chamber, oil ports extending from said chamber to the lower end of the plunger, a release valve normally closing the oil ports, spring means for normally retaining said release valve in closed position, a tapered sleeve externally mounted on the plunger tube, said sleeve being spaced at its upper end from the upper pole piece, a spiral winding, a tube enclosing said winding, top and bottom pole pieces to which said tube is affixed, the bottom pole piece having a threaded hub, and a guard tube secured to said threaded hub and enclosing and spaced from the lower end of the plunger tube.

2,352,120
WINDSHIELD CLEANER CONTROL
Anton Rappl, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 2, 1943, Serial No. 471,150
10 Claims. (Cl. 251—87)



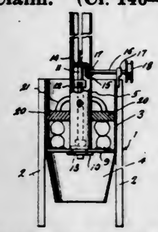
1. A control valve for windshield cleaners, comprising a mounting body having a valve seat with a supply port and an operating port, a pivotally mounted disk-like valve member operable on the seat and having in its seating face a recess movable to connect the two ports, means for oscillating the valve member, and a flat spring secured at its opposite ends to the body and having its intermediate portion extending across the back face of the valve member, the spring lying substantially chordal across the arcuate path of the valve member and carrying a detent bearing upon and engageable in a recess in the back face for holding the valve member operative.

2,352,121
COLLAPSIBLE CARRIER FOR BOTTLES AND THE LIKE
William C. Readeker, Chicago, Ill.
Application July 23, 1941, Serial No. 403,647
2 Claims. (Cl. 224—45)



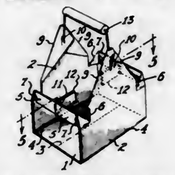
2. A collapsible carrier for bottles and the like, comprising a base, spaced side walls extending upwardly from the base, end supports extending between the ends of the side walls, a pair of spaced straps extending upwardly from the central portion of each of the side walls, said straps being spaced apart a sufficient distance to snugly receive a bottle therebetween, each of the straps being spaced from the adjacent end support by a distance sufficient to accommodate between the strap and the end support the narrow neck of a bottle vertically received within the carrier and to permit the strap to overlie a portion of the enlarged body of a bottle received between the strap and the adjacent end support, the body portion of each of said straps being disposed above the adjacent end support to provide with the end support an opening sufficiently large to receive the enlarged body of the bottle when the bottle is inserted at an angle with respect to the vertical, a handle member extending across the top of the carrier secured to said straps, a plurality of depending flaps including a central flap and end flaps secured to said handle member and extending downwardly therefrom into the central portion of the carrier, and means for securing said end flaps in interlocking relation with the end supports of the carrier.

2,352,122
CUTTER AND COMMINUTOR FOR FRUITS AND VEGETABLES
De Soto E. Richardson, Wenatchee, Wash.
Application July 11, 1942, Serial No. 450,553
1 Claim. (Cl. 146—124)



A machine of the character described comprising a stand, a drum supported by said stand, a tubular housing disposed axially of said drum and extending above the top thereof, a vertical shaft rotatably mounted in said housing, a cutter disk secured to the lower end of said shaft, said housing having vertical slots spaced from each other circumferentially of the housing, partitions within said drum forming separate compartments, weights disposed in the compartments of said drum about said housing, guide rods extending upwardly from the weights and having portions passing through said slots and slidably connecting said weights with said housing for vertical movement, hanger rods extending upwardly from said weights and formed with hooks to engage over the edge of said drum to limit the downward movement of said weights, and means for rotating said shaft.

2,352,123
BOTTLE CARRIER
William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio
Application March 12, 1942, Serial No. 434,398
4 Claims. (Cl. 224—45)

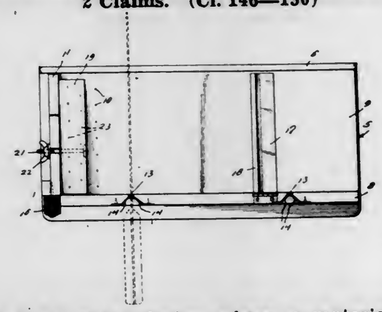


1. A bottle carrier structure comprising a single rectangular blank of boxboard having, in articulation in the order named and in the direction of the length of the blank, a side wall, a bottom and a side wall, end strap portions formed from the upper portions of the side walls by lines of cut paralleling the side edges of the side walls in the direction of the length of the blank, leaving an intermediate portion of each side wall between the straps, the said straps being articulated to the lower portions of the side walls by angularly related score lines forming a triangle with a portion of said cut lines, the said bottom wall having a score line intermediate its edges, extending transversely of the blank and located substantially equidistant from the ends of the blank, whereby the blank may be initially folded over on itself in halves, the length of the said strap portions being substantially greater than half the width of the bottom wall, and said blank when folded over as described having its mating strap portions connected together at a distance from the articulation of the strap portions to the side walls equal substantially to one-half the width of the bottom wall, whereby the blank may be erected to a form in which the bottom wall is horizontal and the side walls vertical with the joined strap portions connecting the respective side walls, whereupon the strap portions may be turned respectively in opposite directions to form end abutments for the carrier, the joined portions of the straps extending inwardly toward the median line of the container to form partial partitions, the intermediate portions of the side walls extending upwardly between the said strap portions, to constitute spaced, substantially parallel carrying portions.

2,352,124
THERAPEUTIC GOLD COMPOUND
Albert B. Sabin and Joel Warren, Cincinnati, Ohio, assignors to The Children's Hospital, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application November 15, 1941, Serial No. 419,294
3 Claims. (Cl. 167—68)

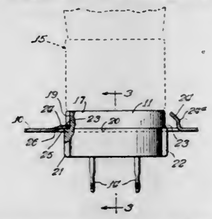
1. A therapeutic agent comprising calcium aurothiomalate.

2,352,125
SLICING DEVICE
Elmer H. Sager, Chicago, Ill.
Application April 7, 1943, Serial No. 482,151
2 Claims. (Cl. 146—150)



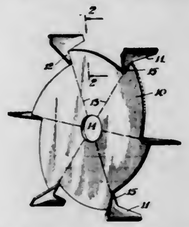
1. In a slicing device, a base, a material supporting plate slidable on the base, a vertical side wall on said base provided with a vertically arranged knife guide slot, tines on the plate adjacent one end thereof for biting into the material, a vertically arranged end wall secured to said end of the supporting plate to abut one end of the material on the supporting plate, said end plate having a vertical slot, a clamping block including tines and a bolt and nut thereon to engage the material with the bolt arranged in the slot of the end plate, a knurled roller providing a finger piece journaled on the end plate and having riding contact with the upper edge of the side wall.

2,352,126
MOUNTING MEANS
Arthur J. Schmitt, Chicago, Ill., assignor to Donald B. Alexander, Carl V. Wisner, Jr., and John F. Mannion, as trustees of The Arthur J. Schmitt Foundation
Application April 15, 1940, Serial No. 329,638
7 Claims. (Cl. 173—339)



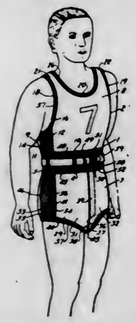
2. Mounting means of the class described including the combination with a plate having a circular body receiving aperture therein and a pair of circumferentially spaced apart slots formed in the margin of said aperture by tongues struck outwardly therefrom and moved axially to the upper side of said aperture, of a cylindrical insulating molded body received in said aperture from the upper side thereof and having a pair of longitudinally extending rib-like shoulder portions received substantially snugly in said slots, said tongues being thereafter moved toward their original position to axially abut said shoulder portions, and other segmental circumferentially spaced apart shoulder portions on the body of each side of said rib-like shoulder portions and providing axially facing shoulders abutting the upper margin of said aperture, said tongues being maintained by said rib-like shoulder portions somewhat snugly between said circumferentially spaced apart shoulder portions, whereby the body is held both axially and rotatively.

2,352,127
PULVERIZING MILL ROTOR
William M. Sheldon, Elizabeth, N. J., assignor to Louis Ruprecht, Montclair, N. J.
Application October 1, 1942, Serial No. 460,359
3 Claims. (Cl. 83—11)



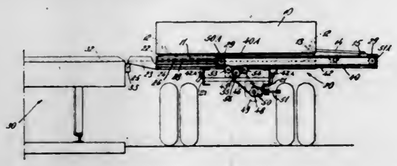
1. A rotor for an impact pulverizing mill, formed of one integral piece of bendable sheet metal, the rotor comprising a disc portion and a plurality of circumferentially spaced beaters, each beater being an integral plate which extends in a radial plane normal to and on both sides of the plane of the disc portion, the radial dimension of the part on one side of the plane of the disc portion being greater and its lateral dimension less than the corresponding dimensions of the part on the other side of the plane of the disc portion, and each beater being connected to the disc portion by a right angle bend extending between the inner ends of the inner edges of the two parts of the beater and the two parts being relatively proportioned to exert on the disc portion at high rotative speed substantially equal and opposite moments of centrifugal force.

2,352,128
ONE-PIECE SUIT
Horace E. Shikles, Jr., Kansas City, Mo.
Application March 6, 1942, Serial No. 433,534
1 Claim. (Cl. 2—78)



An outer garment for wear during playing of games and adapted to closely fit the wearer without binding including, front and back shirt portions of non-elastic fabric extending from the top to the waist of the garment, spaced straps connecting said shirt portions forming neck and arm openings, bindings of knitted fabric around said neck and arm openings, strips of elastic fabric having vertically arranged wales, the side edges of said strips being connected to the side edges of said shirt portions, said strips having substantial elasticity circumferentially of the garment, front and back pants portions of non-elastic fabric extending from the bottom of the garment to the waist thereof, the central portion of the lower edges of said pants portion being connected to form a crotch, said front pants portion having a fly therein, the lower edges of said pants portion being cut at the sides of the crotch portion to form leg openings, strips of elastic fabric having vertically arranged wales, the side edges of said second named strips being connected to the side edges of said pants portion and having substantial elasticity circumferentially of the garment, an elastic waist strip having circumferentially arranged wales and substantial elasticity across said wales, the side edges of said strip being connected to the upper and lower edges of the pants and shirt portions and the elastic strips therein respectively, said waist strip extending continuously circumferentially of the garment and across the fly of said front pants portion to provide vertical stretch to the garment, and bindings of knitted fabric around the leg openings.

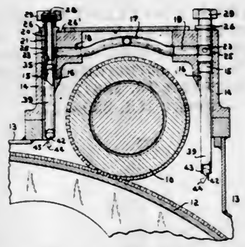
2,352,129
FREIGHT TRANSFER APPARATUS
Harold W. Shonnard, Montclair, N. J.
Application September 24, 1941, Serial No. 412,080
6 Claims. (Cl. 214—83)



1. A frame slidably mounted on a vehicle, sprockets mounted on pivots near the ends of the frame, an endless chain running over said sprockets, a power driven sprocket mounted on a fixed pivot on the vehicle and engaging the chain to move the frame, a bar arranged to be connected at one end to a container on the vehicle, a dog on the other end of the bar arranged to engage the chain, a transverse member affixed to the frame in alinement with the dog to impart the movement of the frame in one direction to the container and a stop on the vehicle in the path of movement of said transverse member to limit the movement of the frame means for locking the frame against movement in the opposite direction, said power driven sprocket being arranged to impart a movement to the chain after the frame has reached the limit of its movement to impart further movement to the container in the same direction.

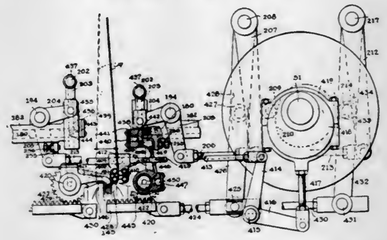
2,352,130
LUBRICATION APPARATUS
Ira Short, Prospect Park, and Hugh C. Brown, Philadelphia, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 30, 1940, Serial No. 348,370
2 Claims. (Cl. 210—169)

1. A liquid filter comprising concentrically-disposed inner and outer tubular members, one end of the outer member extending beyond the corresponding end of the inner member; a closure member for said one end of the outer member which cooperates with the corresponding end of the inner member to define a chamber, said inner member having an outside diameter materially less than the inside diameter of the outer member, whereby an annular space is provided between said members for flow of liquid, said space communicating at one end with the chamber; means providing an inlet to the other end of said annular space, the hollow bore of the inner member being in communication at one end with the chamber and being open at the other end to define an outlet from said chamber; and a plurality of longitudinal ribs on one of said tubular members extending radially into



said space, the tops of said ribs being spaced slightly from the other of said tubular members and each rib being connected at one end with one adjacent rib and at its other end with the other adjacent rib to provide a continuous convoluted structure over which liquid is forced to flow in traversing said space from the inlet to the chamber.

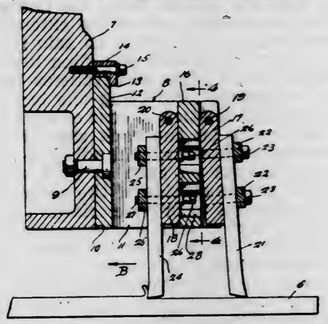
2,352,131
STRIP-FEEDING MECHANISM
Paul S. Smith, Rockford, Ill., assignor, by mesne assignments, to Ellen Bertha Allen, Birmingham, Mich.
Original application July 15, 1940, Serial No. 345,448. Divided and this application April 17, 1942, Serial No. 439,440
2 Claims. (Cl. 154—1)



1. In a machine for making cemented pile fabric by plaiting a warp about separator strips, a strip-feeding mechanism comprising the combination of a magazine having a strip-discharge passage, a feeding bar substantially coextensive with said separator strips and reciprocable in one end of said magazine and having a seat therein to receive the foremost strip of the supply in said magazine, means urging a supply of strips in said magazine toward said bar, and means for reciprocating said bar in a direction perpendicular to its length to force said foremost strip through said passage.

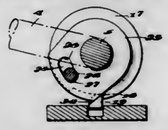
2,352,132
DOUBLE-ACTING PLANER HEAD
Charles E. Southwell, Milmont Park, Pa.
Application July 27, 1943, Serial No. 496,343
4 Claims. (Cl. 90—53)

1. In a structure of the class described, a tool accommodation casting, said casting being of general U-shaped form, an abutment partition between the side walls of said casting, clapper blocks hingedly mounted between the side walls and located on opposite sides of said partition,



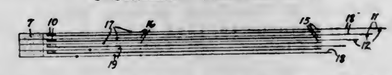
and means for adjustably and detachably securing alternately operable tools to the respective clapper blocks.

2,352,133
TOILET SEAT
Peter J. Sperzel and Karl J. G. Leufvenius, Minneapolis, Minn., assignors to Sperzel Sanitary Seat Company, Minneapolis, Minn., a corporation of Minnesota
Application September 24, 1941, Serial No. 412,180
7 Claims. (Cl. 4—241)



1. In a hinged toilet seat biased to swing upwardly away from its position of use, a hinged mounting for the seat having a fixed support, releasable holding means for holding the seat in a lowered position preparatory for use including coacting means on the hinged mounting and support operated by movement of the seat into said last-named position, and said holding means further including relatively movable releasing means on the hinged mounting operative in response to further lowering movement of the seat from said last named position to release said coacting means for upward swinging movement of the seat by the biasing means.

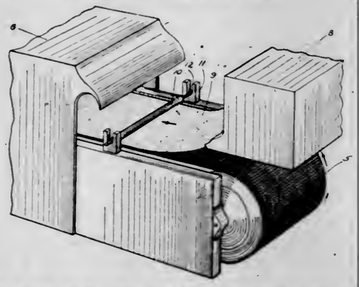
2,352,134
MANIFOLDING ASSEMBLY
William G. Stone, Washington, D. C., assignor to Pacific Manifolding Book Company, Inc., Emeryville, Calif., a corporation of Delaware
Application December 3, 1942, Serial No. 467,718
5 Claims. (Cl. 282—24)



5. In a manifolding assembly, in combination, a plurality of record leaves arranged in superposed manifolding relation and bound in the assembly substantially at a marginal portion thereof, at least one transfer leaf positioned in manifolding transfer relation with said record leaves and bound in the assembly, said record leaves having weakened severance lines for severance thereof from the assembly and having blank forms at their record faces substantially aligned

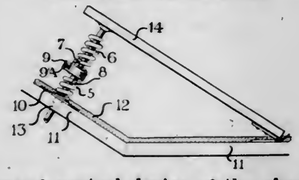
depthwise of the assembly for transfer inscription, said record leaves respectively having free marginal portions remote from the bound marginal portions thereof, attaching extensions on said record leaves respectively on said free marginal portions thereof and extending beyond the the adjacent edge of the said transfer leaf, said attaching extensions projecting one beyond another in shingled relation, a coat of adhesive exposed downwardly on the back side of each of said attaching extensions, said adhesive coatings being discontinuous on each of said attaching extensions at points outside of the adjacent edge of said transfer leaf to provide selective grip formations, said record leaf severance lines being offset from each other so as to provide record leaves of substantially the same overall length, and said record leaves respectively having heading spaces of different lengths at the opposite sides of the blank forms thereof.

2,352,135
BAKING OVEN
Irving Streit, New York, N. Y., assignor to Aron Streit, Inc., a corporation of New York
Application April 15, 1942, Serial No. 439,032
3 Claims. (Cl. 107—4)



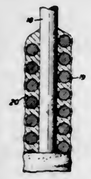
1. In combination, a dough depositing chamber with a matzoth baking oven having a continuous wire mesh conveyor running horizontally therethrough, said dough depositing chamber having means for depositing an endless ribbon of dough upon said continuous wire mesh conveyor which passes longitudinally and horizontally through said oven, said continuous wire mesh conveyor having operatively associated therewith pressing means at the forepart of said oven in the form of a transversely arranged pressing roller of the same width as the conveyor and located above the continuous wire mesh conveyor and said endless ribbon of dough, said roller being arranged to press said endless ribbon of dough upon said continuous wire mesh conveyor.

2,352,136
SPEED REGULATOR
Andrew G. Ten Eyck, Detroit, Mich.
Application October 19, 1942, Serial No. 462,461
3 Claims. (Cl. 267—1)



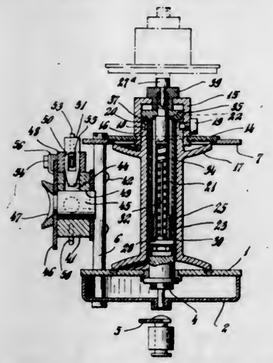
1. A speed control device of the character described comprising a pair of identical coil springs having their end convolutions in engagement, and means to hold the said convolutions in predetermined relation, said last named means comprising an adjustable band encircling said springs along the area of their engagement.

2,352,137
ELECTRON EMITTING ELEMENT
Elmer A. Thurber, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 18, 1941, Serial No. 423,409
9 Claims. (Cl. 250—27.5)



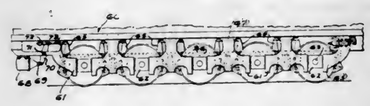
1. An electron emitter comprising a metallic core, and a coating matrix thereon consisting of purified electron emitting material and a binder including completely nitrated cellulose.

2,352,138
FISHING REEL
Walter S. Torrence, New York, N. Y.
Application May 19, 1943, Serial No. 487,546
1 Claim. (Cl. 242—84.7)



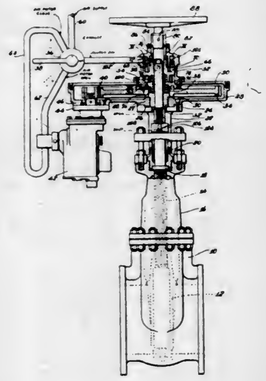
In a fishing reel, in combination, a spool provided with a hub at one side which has claws at its face and an annular recess at its outer side, a hollow axle carrying said spool and having inwardly inclined claws at one end adjacent the claws of said spool, a bolt extending into said hollow axle and being connected to it by a bayonet joint, resilient means for moving said bolt axially within said hollow shaft, a frame carrying said hollow axle and having at one side an interrupted yielding ring which holds a disk, a cap secured to said disk covering the hub of said spool and engaging said angular recess, a clutch member within said cap adapted to engage the claws of said hub and of said axle, means for limiting the axial movement of said bolt which extends through said clutch member and through said cap, a reel seat adapted to connect said frame to a fishing rod, and means for facilitating the turning of said frame on said reel seat and for retaining it in a desired position, all substantially as described.

2,352,139
RAILWAY VEHICLE AND BRAKE ASSEMBLY
James C. Travilla, Jr., Philadelphia, Pa., and Edwin C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application October 10, 1941, Serial No. 414,440
4 Claims. (Cl. 188—46)



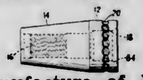
1. In a railway vehicle, an underframe having a transverse transom, said underframe having depending pedestal jaws at one side of said transom, axles journaled in said pedestal jaws, wheels on said axles, brake gear for said wheels including brake shoes, a lever connected to said shoes and extending upwardly above the level of the bottom of said transom at the same side of said transom as said pedestals, and a power device mounted on said underframe at the other side of said transom, there being a connection between said lever and power device and extending through said transom.

2,352,140
POWER-OPERATED VALVE
Arthur J. Trott, Greensburg, Pa., assignor to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts
Application March 28, 1942, Serial No. 436,581
6 Claims. (Cl. 74—407)



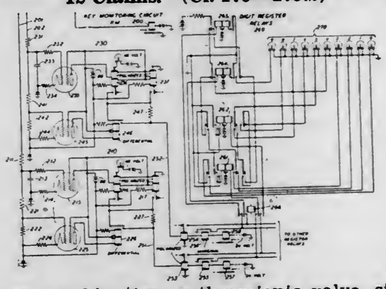
1. In a power operated apparatus, a rotatable stem, a manually operated device for rotating said stem, a power operated device for rotating said stem, each said device having a driving connection spaced from the other, driving means slidable on said stem between said connections for establishing operative engagement between one device and the stem while simultaneously disengaging the other, means biasing said driving means into operative engagement with said manually operated device, and means for applying power to said power operated device and coincidentally to said driving means for overcoming said biasing means.

2,352,141
DIE ROLL AND METHOD OF MAKING THE SAME
Frederick Ulrich, Bayonne, N. J., assignor to Conmar Products Corporation, Bayonne, N. J., a corporation of New Jersey
Application June 14, 1940, Serial No. 340,436
22 Claims. (Cl. 76—107)



9. In the manufacture of hobbed die rolls having a small diameter working portion of the order of one inch, and including a tapered shank formed integrally therewith and projecting sidewardly therefrom, the method which includes the step of counterboring or hollowing the working portion of the die roll blank to a diameter of the order of five-eighths of the roll diameter, prior to hobbing the same, and then coining the working portion by blows applied radially inward.

2,352,142
SIGNALING SYSTEM
Henry E. Vaughan, Valley Stream, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1943, Serial No. 492,675
12 Claims. (Cl. 179—175.2)

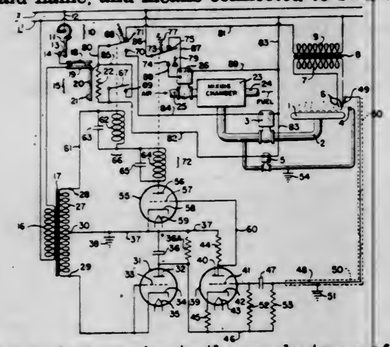


1. In combination, a thermionic valve, signaling means for selectively impressing negative and positive electromotive forces across the grid and cathode of said valve, a polarized relay having two windings, means energizing one of the windings in the anode-cathode circuit of said valve, and means energizing the other winding of said relay, the normal energization of said one winding being effective to neutralize the energization of said other winding, the change in the energization of said one winding responsive to the application of an electromotive force of one polarity across the grid and cathode being ineffective to operate said relay and the change in the energization of said one winding responsive to the application of an electromotive force of opposite polarity across the grid and cathode being effective to operate said relay.

2,352,143
CONTROL APPARATUS
Walter P. Wills, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 27, 1940, Serial No. 332,119
38 Claims. (Cl. 158—28)

1. A combined safety and quality control system for a fuel burner including fuel and air supply means, igniting means to establish a flame at said burner, a device to control said fuel supply means, and means to control the mixture of fuel and air supplied to said burner comprising in combination, a pair of spaced electrodes insu-

lated from each other and positioned in the path of said flame, and means connected to said elec-



trodes and responsive to the conductance of the path therebetween to control said control device and said mixture control means.

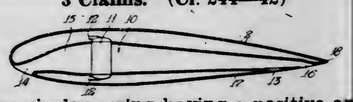
2,352,144

WING SLOT CLOSURE MEMBER

Robert J. Woods, Grand Island, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York

Application August 22, 1940, Serial No. 353,747

3 Claims. (Cl. 244—42)



1. An airplane wing having a positive angle of incidence, said wing having a duct extending therethrough, said duct having an inlet aperture within the area of the locus of pressure stagnation points adjacent the leading edge of the wing and an outlet aperture adjacent the trailing edge of the wing in the under-surface thereof, a closure member for said duct having its forward edge hinged to the forward edge of the outlet aperture and extending rearwardly to a point short of the rear edge of said outlet aperture, when lying in the normal profile of the under surface of the wing thereby leaving the rear portion of the outlet aperture open, the depth of said duct being less than the length of said closure member so that said duct may be closed by upward swinging movement of the closure member into engagement with the upper wall thereof.

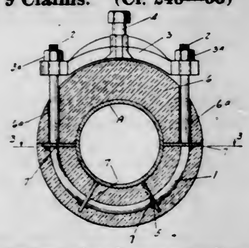
2,352,145

PREINSULATED PIPE HANGER UNIT

Cletus P. Wright, Cleveland, Ohio

Application March 11, 1944, Serial No. 526,039

9 Claims. (Cl. 248—58)



1. An insulating pipe hanger unit comprising a lower insulation section to engage the under side of a pipe, a U-hanger member having its curved portion wholly embedded in the said section, an upper insulation section interengaging the free ends of the U-member, and a clamping yoke plate attached to the free ends of the U-member and thus clamping the said upper section to the lower section.

2,352,146

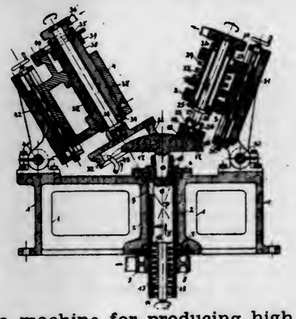
GRINDING AND POLISHING MACHINE

Josef Desenberg, Rockford, Ill., assignor to W. F. and John Barnes Company, Rockford, Ill., a corporation of Illinois

Application April 22, 1939, Serial No. 269,422

In Switzerland March 2, 1939

20 Claims. (Cl. 51—131)



1. In a machine for producing high precision optical surfaces, a work holder rotatable about its axis, a principal tool having a working surface conforming to the optical surface to be produced on the work and being rotatable about its axis and in areal contact with said work at a working pressure, a truing tool rotatable about its axis and having facial working portions cooperating with said working surface of said principal tool and in true conformity with said optical surface in spite of wear on said principal tool and said work, and means for mounting said work holder, said principal tool and said truing tool with their axes intersecting each other at the center of curvature of said work.

2,352,147

DIAPER AND SHIRT CLASP

Fred Sherwood Clark, New York, N. Y., assignor to Ryan Jewelry Corporation, a corporation of New York

Application January 10, 1944, Serial No. 517,759

6 Claims. (Cl. 24—81)



1. A garment clasp comprising a pair of pivoted jaw members with pivoting portions and having terminal garment engaging portions and provided between the garment engaging portions and the pivoting portions with longitudinal slots, a locking button with a shank and a head at each end longitudinally slidably mounted on one jaw member with its shank extending through the slot thereof and its heads at opposite faces of said jaw member and larger than the slot thereof, the other jaw member having an enlarged opening at the end of the slot adjacent the pivoting portions opposite the slot of said other jaw member for receiving one of the heads of said locking button for locking the two jaw members together by movement of the locking button away from the pivoting portions.

2,352,148

SHOE AND SHOE PRODUCT

Thomas W. Elkin, Jr., Lancaster, and Henry C. Stouffer, Manheim Township, Lancaster County, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application July 27, 1943, Serial No. 496,284

11 Claims. (Cl. 36—30)



1. In a shoe having an upper and an outer sole, an intermediate sole element comprising a flexible and resilient matrix of cured and vulcanized siccative oil-resin gel having incorporated therein a reinforcing pigment to toughen and strengthen the same.

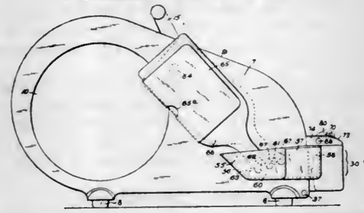
2,352,149

STRIP DISPENSER AND MOISTENING MEANS FOR SAME

Trevor R. Gautier, Nashua, N. H., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H., a corporation of Massachusetts

Application November 14, 1941, Serial No. 419,111

9 Claims. (Cl. 91—14.5)



5. In combination with the liquid tank and tape moistening means of a tape-dispensing machine, a tape-and-label moistening brush disposed to receive liquid from the tank, guiding means associated with said brush and selectively operative to guide the tape coming from said moistening means to the delivery point and to shield said brush from engagement by the tape while so guiding it and alternatively to expose the brush for further tape moistening and for label-moistening purposes, an inverted container for reserve liquid movably associated with the tank and adapted to supply liquid to it, and a plurality of fixed locating formations individually disposed at different levels and selectively available to present means for positioning the container to release its liquid so as automatically to maintain the liquid in the tank at a corresponding plurality of different but calculated levels.

2,352,150

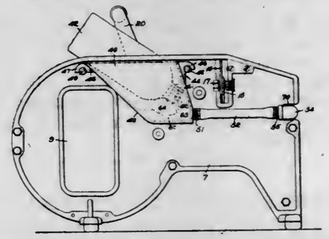
TAPE DISPENSING APPARATUS AND MOISTENING MEANS THEREFOR

Trevor R. Gautier, Nashua, N. H., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H., a corporation of Massachusetts

Application July 20, 1943, Serial No. 495,456

4 Claims. (Cl. 91—38)

3. In gummed tape dispensing apparatus, in combination, a housing including side frames and a support for a tape supply, guide means defining a path for the tape, a moistener tank, supporting means on the side frames for removably mounting said tank below a forward portion of the tape path, a separate auxiliary tank for reserve liquid for uniform level maintenance purposes, said auxiliary tank having a top portion open to atmosphere and receiving an inverted open-mouth liquid-supply container, means in the auxiliary tank for locating such container with its mouth at different selectively available predetermined discharging levels, interengageable positioning members on the auxiliary tank and an outer por-



tion of a side frame of the housing for detachably associating them to present the auxiliary tank in liquid supplying relation to and rearwardly spaced from the moistener tank, conduit means including a separable tubing element and front and rear end fittings therefor affording communication for liquid from the auxiliary to the moistener tank, the front end fitting comprising an angular tubular element, and a forwardly open transverse recess leading from a front portion of the auxiliary-tank supporting side frame for slidable reception of said conduit means and adapting the latter and the tanks to be installed or removed as an assembly unit.

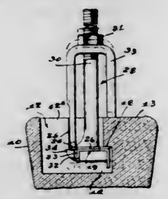
2,352,151

INSULATOR

Minot K. Holmes, Muncie, Ind., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application July 12, 1941, Serial No. 402,197

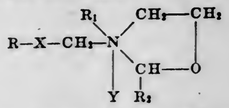
7 Claims. (Cl. 174—165)



1. An insulator of the character described comprising a body having a substantially L-shaped cavity which includes outer and inner intercommunicating chambers, said outer chamber opening through one end of the body, and said inner chamber disposed axially of the insulator, one wall forming said outer chamber having a groove arranged axially of the body and opening axially at one end into said inner chamber and at its other end through said one end of the body, said groove being smaller in cross-sectional area than the outer chamber, a demountable supporting pin for the insulator, and means including a U-shaped clip for holding said pin against accidental removal from the body.

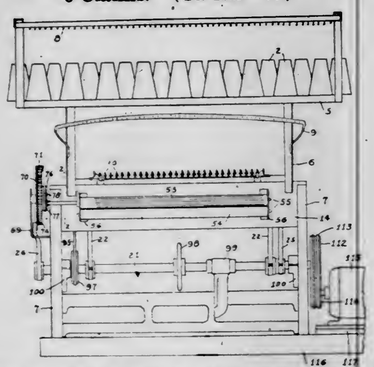
2,352,152
OXAZOLIDINE COMPOUNDS
Saul Kaplan, Rutherford, N. J., assignor to The Richards Chemical Works, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application April 20, 1942, Serial No. 439,719
7 Claims. (Cl. 260—307)

1. Oxazolidine derivatives of the formula



in which R is a hydrocarbon radical containing more than 10 carbon atoms, X is a radical selected from the group consisting of —O— and —CONH— radicals, R_1 is a lower alkyl radical, R_2 is selected from the group consisting of lower alkyl radicals and hydrogen and Y is a salt-forming anion.

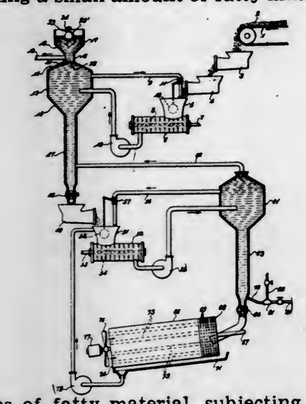
2,352,153
MULTIPLE NEEDLE TUFTING MACHINE
William B. Patey, Winona, Miss., assignor to Robert D. Sanders, Jackson, Miss.
Application August 29, 1941, Serial No. 408,784
6 Claims. (Cl. 112—79)



1. In a multiple needle tufting machine including a bed plate, a throat plate mounted on the bed plate having needle openings therethrough over which the fabric is adapted to travel, a presser foot plate supported on said throat plate above the fabric having needle openings in register with the openings of said throat plate, a horizontal needle carriage pivotally mounted at one end for oscillation above said presser foot, said carriage carrying a plurality of depending needles adjacent its free end adapted to simultaneously pass through the openings of the presser foot and throat plate and carry yarns through the fabric to form loops upon oscillation of the carriage, loopers positioned beneath said throat plate to catch said loops, and cutters coacting with said loopers to sever the loops thereon.

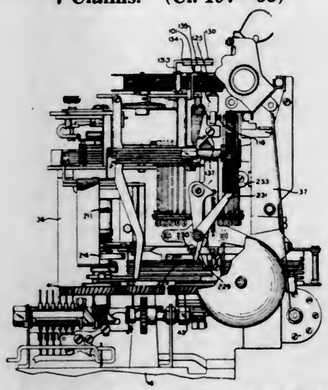
2,352,154
TREATMENT OF ANIMAL TISSUE
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application February 9, 1942, Serial No. 430,170
17 Claims. (Cl. 146—222)

1. The process of defatting animal tissue containing portions of fatty material and portions of non-fatty material, which comprises, hashing said animal tissue to form relatively coarse particles of fatty and non-fatty material, subjecting the hashed tissue to a flotation separation step for separating particles of non-fatty material containing a small amount of fatty material from



particles of fatty material, subjecting said particles of non-fatty material to a further hashing operation to form relatively fine particles of hashed animal tissue, and subjecting said further hashed tissue to a further flotation separation step for separating fatty material from said particles of non-fatty material.

2,352,155
PRINTING TELEGRAPH APPARATUS
Albert H. Reiber, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application June 14, 1941, Serial No. 398,074, which is a division of application Serial No. 77,796, May 4, 1936, now Patent No. 2,296,875, dated September 29, 1942. Divided and this application November 9, 1942, Serial No. 465,027
7 Claims. (Cl. 197—53)

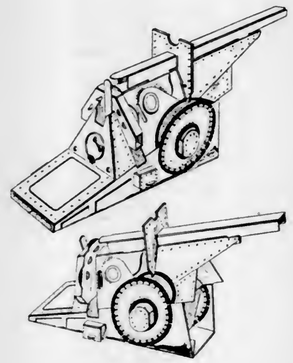


1. In a printing apparatus, a type wheel having a plurality of reciprocable type elements, a print hammer rockable to strike and reciprocate said type elements, an impact receiving arm for said print hammer, an inertia device having a weighted head for imparting movement to said impact receiving arm, a reciprocable bar for operating said inertia device, and a power driven cam for operating said reciprocable bar.

DESIGNS

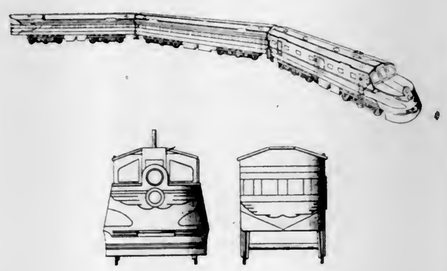
JUNE 20, 1944

138,112
DESIGN FOR A TOY CANNON
Moe Baron, Highland Park, Ill., assignor to Victory Toy Company, Chicago, Ill., a corporation of Illinois
Application April 7, 1944, Serial No. 113,167
Term of patent 3½ years
(Cl. D34—15)



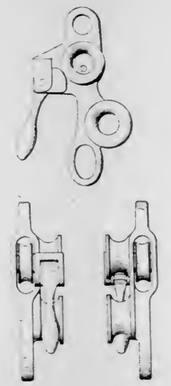
The ornamental design for a toy cannon, as shown and described.

138,113
DESIGN FOR A TOY TRAIN
Moe Baron, Highland Park, Ill., assignor to Victory Toy Company, Chicago, Ill., a corporation of Illinois
Application April 7, 1944, Serial No. 113,168
Term of patent 3½ years
(Cl. D34—15)



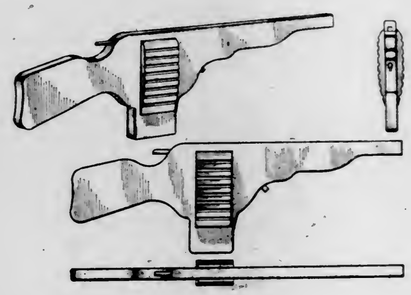
The ornamental design for a toy train, as shown and described.

138,114
DESIGN FOR A PULLEY BLOCK
Henry B. Cohen, New York, N. Y., assignor to Sea Emergency Devices, New York, N. Y., a copartnership consisting of Henry B. Cohen and Henry Weiss
Application April 8, 1944, Serial No. 113,183
Term of patent 14 years
(Cl. D41—1)



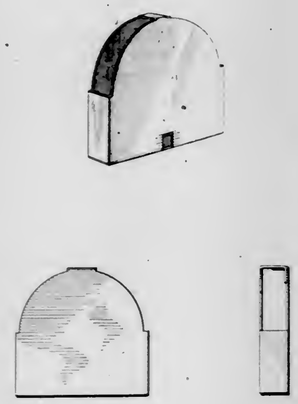
The ornamental design for a pulley block, as shown.

138,115
DESIGN FOR A TOY GUN
Boyd E. Cousins, Kansas City, Mo.
Application March 3, 1944, Serial No. 112,773
Term of patent 3½ years
(Cl. D34—15)



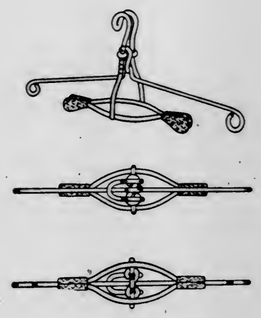
The ornamental design for a toy gun, as shown.

138,116
DESIGN FOR A HOLDER FOR NARROW FABRICS
Edward Funke, Pelham Manor, N. Y.
Application February 4, 1943, Serial No. 109,448
Term of patent 7 years
(Cl. D74—1)



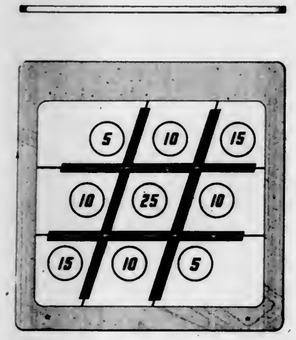
The ornamental design for a holder for narrow fabrics, as shown and described.

138,117
DESIGN FOR A GARMENT HANGER
William Jaffa, Minneapolis, Minn.
Application April 15, 1944, Serial No. 113,259
Term of patent 7 years
(Cl. D33—8)



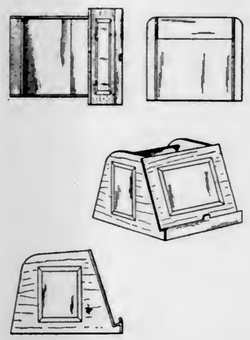
The ornamental design for a garment hanger, as shown.

138,118
DESIGN FOR A DART GAME BOARD
Henry Elton Pease, Chicago, Ill., assignor to Henry C. Hitzeman, Clarence B. Winkler, and Henry Elton Pease, all of Chicago, Ill.
Application October 15, 1943, Serial No. 111,388
Term of patent 14 years
(Cl. D34—5)



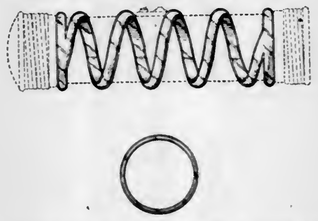
The ornamental design for a dart game board, as shown.

138,119
DESIGN FOR A DISPLAY STAND OR SIMILAR ARTICLE
Leonard W. Schneider, New York, N. Y., assignor to Decca Records, Inc., New York, N. Y., a corporation of New York
Application October 28, 1943, Serial No. 111,514
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a display stand or similar article, substantially as shown and described.

138,120
DESIGN FOR A COMBINED FLASHLIGHT AND LUMINOUS ATTACHMENT THEREFOR
Edison Cogan, Butte, Mont.
Application February 25, 1944, Serial No. 112,700
Term of patent 14 years
(Cl. D48—24)



The ornamental design for a combined flashlight and luminous attachment therefor, as shown and described.

138,121
DESIGN FOR A BOX OR SIMILAR ARTICLE
Ladislas Medgyes, New York, N. Y., assignor to Helena Rubinstein, Inc., New York, N. Y., a corporation of New York
Application February 15, 1944, Serial No. 112,596
Term of patent 7 years
(Cl. D58—12)



The ornamental design for a box or similar article, as shown and described.

138,122
DESIGN FOR A DISPLAY STAND OR SIMILAR ARTICLE
Jack Halpern, New York, N. Y.
Application April 28, 1944, Serial No. 113,394
Term of patent 3½ years
(Cl. D80—9)



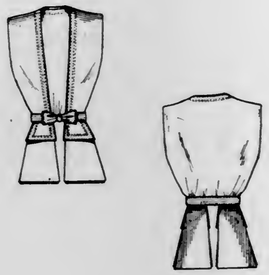
The ornamental design for a display stand or similar article, substantially as shown.

138,123
DESIGN FOR A BOTTLE
Louis Poglein, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application January 15, 1944, Serial No. 112,243
Term of patent 7 years
(Cl. D58—6)



The ornamental design for a bottle, as shown and described.

138,124
DESIGN FOR A SCARF JACKET OR SIMILAR ARTICLE
Judith Fowler, New York, N. Y.
Application May 9, 1944, Serial No. 113,524
Term of patent 7 years
(Cl. D3—16)



The ornamental design for a scarf jacket or similar article, substantially as shown.

138,125
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application May 24, 1944, Serial No. 113,737
Term of patent 3½ years
(Cl. D3—4)



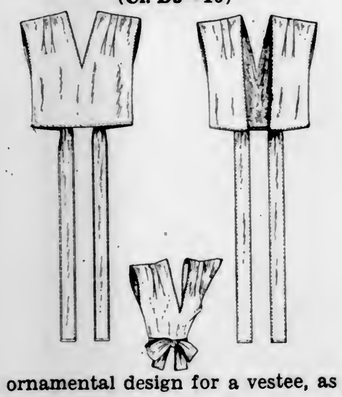
The ornamental design for a suit, substantially as shown.

138,126
DESIGN FOR A COAT
Abe Gruber, New York, N. Y.
Application May 24, 1944, Serial No. 113,738
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

138,127
DESIGN FOR A VESTEE
Florence Lustig, New York, N. Y.
Application March 22, 1944, Serial No. 113,007
Term of patent 7 years
(Cl. D3—16)



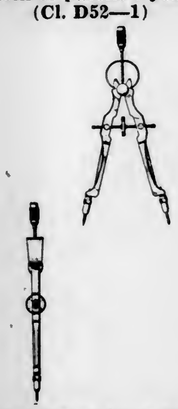
The ornamental design for a vestee, as shown.

138,128
DESIGN FOR AN APRON
Joseph Nachman and Jack Nachman, Philadelphia, Pa.
Application April 19, 1944, Serial No. 113,309
Term of patent 14 years
(Cl. D3—26)



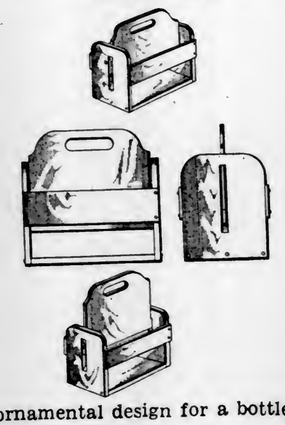
The ornamental design for an apron, substantially as shown and described.

138,129
DESIGN FOR A DRAWING COMPASS
Joseph J. Bruetsch, Detroit, Mich.
Application March 31, 1944, Serial No. 113,095
Term of patent 7 years
(Cl. D52—1)



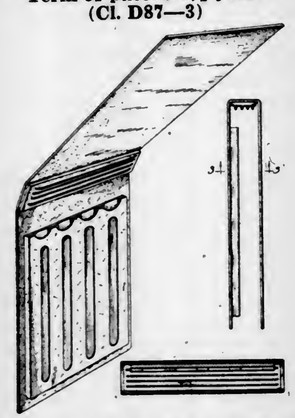
The ornamental design for a drawing compass, substantially as shown.

138,130
DESIGN FOR A BOTTLE CARRIER
Albert J. Goodin, Lewiston, Maine
Application January 12, 1944, Serial No. 112,218
Term of patent 14 years
(Cl. D58—4)



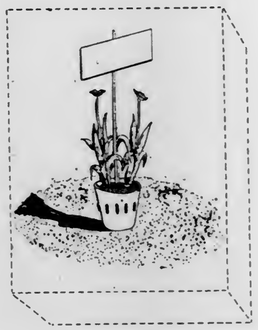
The ornamental design for a bottle carrier, as shown.

138,131
DESIGN FOR A HOLDER FOR RATION BOOKS AND TOKENS OR THE LIKE
Kenneth Aranoff, Lawrence L. Lavant, and Lester W. Arkin, Chicago, Ill.
Application March 15, 1944, Serial No. 112,914
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a holder for ration books and tokens or the like, as shown and described.

138,132
DESIGN FOR A BOX OR SIMILAR ARTICLE
Ladislas Medgyes, New York, N. Y., assignor to Helena Rubinstein, Inc., New York, N. Y., a corporation of New York
Application February 15, 1944, Serial No. 112,595
Term of patent 7 years
(Cl. D58—12)



The ornamental design for a box or similar article, as shown and described.

138,133
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application February 22, 1944, Serial No. 112,670
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Chemical Paint Company, Ambler, Pa. Metal stripping composition. Serial No. 468,587; June 20. Class 6.

American Soil Products Co., Inc., New York, N. Y. Soil testing set. Serial No. 466,474; June 20. Class 50.

American Zyloptic Co. (See Kaesz, Stefan.)

Ams, Max, Inc., New York, N. Y. Fruit pectin. Serial No. 466,777; June 20. Class 46.

Ams, Max, Inc., New York, N. Y. Honey, bottled olives, pancake syrup, etc. Serial No. 469,103; June 20. Class 46.

Angelus Laboratories. (See Brunswig Drug Co.)

Anglo-American Packing Corp., New York, N. Y. Chile con carne, corned beef hash. Serial No. 467,306; June 20. Class 46.

Baker Clothes, Philadelphia, Pa. Men's and women's suits, sport coats, slacks. Serial No. 468,826; June 20. Class 39.

Binky Baby Products Company, New York, N. Y. Baby pants, bibs, booties, etc. Serial No. 468,105; June 20. Class 39.

Bonwit Teller, Inc., New York, N. Y. Women's and misses' blouses; neckwear—i. e., scarfs; handkerchiefs, etc. Serial No. 460,468; June 20. Class 39.

Botany Worsted Mills, Passaic, N. J. Lanolin and lanolin toilet preparations. Serial No. 465,793; June 20. Class 6.

Botany Worsted Mills, Passaic, N. J. Woolen piece goods. Serial No. 468,062; June 20. Class 42.

Bowen, L. R., doing business as Li-Cut Live Bait Co., Los Angeles, Calif. Fish bait. Serial No. 468,372; June 20. Class 22.

Brand & Oppenheimer, Incorporated, New York, N. Y. Fabrics and piece goods. Serial No. 468,064; June 20. Class 42.

Brian Fabrics Corporation, New York, N. Y. Scarves and fascinators. Serial No. 468,592; June 20. Class 39.

Brignall, Guy E., doing business as Lite Soap Company, Aurora, Ill. Household soap. Serial No. 469,243; June 20. Class 4.

Brunswig Drug Co., doing business as Angelus Laboratories, Los Angeles, Calif. Vitamin capsules. Serial No. 468,434; June 20. Class 6.

Brunswig Drug Co., doing business as Angelus Laboratories, Los Angeles, Calif. B complex syrup with vitamins A and D. Serial No. 468,436; June 20. Class 6.

Buffalo Foundry & Machine Co., Buffalo, N. Y. Castings. Serial No. 466,974; June 20. Class 14.

California Citrus Juice Co., Springfield, Ill. Bottled fruit juice drinks. Serial No. 468,190; June 20. Class 45.

Central Screw Company, Chicago, Ill. Screws, nuts, bolts, etc. Serial No. 466,192; June 20. Class 13.

Chelsea Laboratories, Inc., New York, N. Y. Cleansing cream. Serial No. 468,224; June 20. Class 6.

Chemical Corporation, The, Springfield, Mass. Chemicals used as addition agents for electrolytic stripping baths. Serial No. 469,148; June 20. Class 6.

Christian Science Publishing Society, The, Boston, Mass. Monthly publication. Serial No. 469,247; June 20. Class 38.

Chromat-O-Scope Company, Los Angeles, Calif. Chromoscopes and viewing boxes. Serial No. 467,998; June 20. Class 26.

Cinema Engineering Company. (See Davis, Arthur C.)

Cluett, Peabody & Co., Inc., Troy, N. Y. Wearing apparel. Serial No. 467,268; June 20. Class 39.

Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Pistols. Serial No. 461,014; June 20. Class 9.

Corn Products Refining Company, New York, N. Y. Protein material. Serial No. 469,806; June 20. Class 5.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 468,597; June 20. Class 6.

Davis, Arthur C., doing business as Cinema Engineering Company, Burbank, Calif. Variable attenuators. Serial No. 468,319; June 20. Class 21.

Delta Manufacturing Company, The, Milwaukee, Wis. Adjustable work heads for machine tools. Serial No. 468,228; June 20. Class 23.

Dessy Jewelers, Inc., New York, N. Y. Jewelry. Serial No. 467,428; June 20. Class 28.

Diadem, Inc., Leominster, Mass. Coiffure combs. Serial Nos. 468,666–8; June 20. Class 40.

Dodge, Mary N., Studio City, Calif. Confection. Serial No. 467,936; June 20. Class 46.

Eaton-Tomlinson Co., Avondale, Colo. Fresh vegetables and melons. Serial No. 469,558; June 20. Class 46.

Electric Machinery Mfg. Company, Minneapolis, Minn. Electrical machines and apparatus. Serial Nos. 467,123–4; June 20. Class 21.

Fidelity Chemical Corporation, Houston, Tex. Fertilizers. Serial No. 468,561; June 20. Class 10.

Fidelity Chemical Products Corp., Newark, N. J. Cleaning composition. Serial No. 460,735; June 20. Class 4.

Firestone Industrial Products Company. (See Firestone Tire & Rubber Company, The.)

Firestone Tire & Rubber Company, The, Akron, Ohio. Paints, lacquers, varnishes, etc. Serial No. 468,246; June 20. Class 16.

Firestone Tire & Rubber Company, The, doing business as Firestone Industrial Products Company, Akron, Ohio. Adhesives. Serial Nos. 468,249–50; June 20. Class 5.

Fredriksen, Fred, doing business as Fredriksen Service Co., Chicago, Ill. Safety seals for fire extinguishers. Serial No. 467,029; June 20. Class 25.

Fredriksen Service Co. (See Fredriksen, Fred.)

Georgia Kaolin Company, Elizabeth, N. J. Clay for use in the manufacture of paper, rubber, and ceramics. Serial No. 457,436; June 20. Class 1.

Gibson Wine Company, Cincinnati, Ohio. Wines. Serial No. 468,254; June 20. Class 47.

Glove Corporation, The, Alexandria, Ind. Gloves. Serial No. 469,046; June 20. Class 39.

Gorton, George, Machine Company, Racine, Wis. Electric arc etching machines, etc. Serial No. 463,997; June 20. Class 21.

Great Lakes Button Co. Inc., Brockport, N. Y. Buttons. Serial No. 467,523; June 20. Class 40.

Great Lakes Varnish Works, Inc., Chicago, Ill. Varnish. Serial No. 468,886; June 20. Class 16.

Hahn, Harold V., doing business as Phillips Brush Company, Cleveland, Ohio. Coiffure combs. Serial No. 468,795; June 20. Class 40.

Hartley Wire Die Company, Thomaston, Conn. Cemented dies, wire drawing dies, and carbide wear resistance parts. Serial No. 468,450; June 20. Class 23.

Heyman, W. M., Phoenix, Ariz. Fresh vegetables and melons. Serial No. 457,974; June 20. Class 46.

Hoffman, Rube P., Los Angeles, Calif. Piece goods. Serial No. 468,920; June 20. Class 42.

Horowitz & Son, Inc., New York, N. Y. Watches. Serial No. 468,286; June 20. Class 27.

Horwitz and Duberman, New York, N. Y. Perfume. Serial No. 468,258; June 20. Class 6.

Infilco Incorporated, Chicago, Ill. Filters. Serial No. 470,030; June 20. Class 31.

J N T Mfg. Company Inc., New York, N. Y. Cleaner. Serial No. 466,162; June 20. Class 4.

Jablow, I., & Company, Philadelphia, Pa. Sport shirts, sport coats, polo shirts, etc. Serial No. 469,012; June 20. Class 39.

Jacobson, F., & Sons, Inc. (See Jayson Classics, Inc., assignor.)

Jaeger Watch Company, Inc., New York, N. Y. Timepieces. Serial No. 453,841; June 20. Class 26.

Jayson Classics, Inc., assignor to F. Jacobson & Sons, Inc., New York, N. Y. Ladies' sportswear and play clothes. Serial No. 466,943; June 20. Class 39.

Kaesz, Stefan, doing business as American Zyloptic Co., New York, N. Y. Lenses, spectacle frames and parts therefor. Serial No. 468,757; June 20. Class 26.

Keyes Fibre Company, Waterville, Maine. Molded pulp protective packing sheets and pads. Serial No. 469,402; June 20. Class 50.

Kresge, S. S. Company, Detroit, Mich. Writing tablets. Serial No. 467,695; June 20. Class 37.

Ladyarn Sportwear, New York, N. Y. Ladies' and misses' sweaters and sweater ensembles. Serial No. 469,051; June 20. Class 39.

Lafond, Chocolatier, New York, N. Y. Candy. Serial No. 468,035; June 20. Class 46.

Lafond Chocolatier, New York, N. Y. Candy. Serial No. 469,078; June 20. Class 46.

La Resista Corset Company, The, Bridgeport, Conn. Ladies' corsets, corselets, girdles, and combination foundation under-garments. Serial Nos. 461,464–5; June 20. Class 39.

Laub, George M., New York, N. Y. Paper dress patterns. Serial No. 467,718; June 20. Class 26.

Leron, Inc., New York, N. Y. Towels, wash cloths and bath mats. Serial No. 469,570; June 20. Class 42.

Li-Cut Live Bait Co. (See Bowen, L. R.)

Lilley-Ames Company, The, Columbus, Ohio. Women's and misses' slacks. Serial No. 469,053; June 20. Class 39.

Lite Soap Company. (See Brignall, Guy E.)

M & N Cigar Manufacturers, Inc., Cleveland, Ohio. Cigars. Serial No. 466,263; June 20. Class 17.

Mallinckrodt, L. K., Inc. (See Wood, C. Wilson, assignor.)

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Copper alloy stock. Serial No. 468,618; June 20. Class 14.

Manuel Ontanon Delgado, Anahuac Colony, Mexico City, Mexico. Clothes brushes and whisk brooms. Serial No. 462,876; June 20. Class 29.
Mauricio y Alberto Habif y Cia, Havana, Cuba. Perfume, skin lotion and toilet water. Serial No. 466,899; June 20. Class 6.
Maxwell & Hitchcock, Atlanta, Ga. Metallic timber joint clips. Serial No. 466,203; June 20. Class 13.
McCabe, Montclair, doing business as Montclair Products, Los Angeles, Calif. Brushes. Serial No. 466,095; June 20. Class 29.
Miahati, Inc., New York, N. Y. Perfumes. Serial No. 465,762; June 20. Class 6.
Mid-West Abrasive Company, Detroit, Mich. Coated abrasive papers. Serial No. 469,607; June 20. Class 4.
Mixermobile Manufacturers, Portland, Oreg. Power driven vehicle mounted bulk material handling and loading apparatus. Serial No. 468,715; June 20. Class 23.
Montclair Products. (See McCabe, Montclair.)
Mutual Citrus Products Co. Inc., Anaheim, Calif. Powdered fruit base. Serial No. 458,634; June 20. Class 46.
National Plastic Products Company, Odenton, Md. Curled plastic strip. Serial No. 466,352; June 20. Class 4.
National Plastic Products Company, Odenton, Md. Plastic drawer pulls of synthetic resin. Serial No. 466,354; June 20. Class 13.
National Plastic Products Company, Odenton, Md. Fabrics in the piece. Serial No. 466,357; June 20. Class 42.
National Plywoods Incorporated, Chicago, Ill. Plywood. Serial No. 466,584; June 20. Class 12.
Neff, H. L., doing business as H. L. Neff & Co., Red Lion, Pa. Cigars. Serial No. 468,717; June 20. Class 17.
Neff, H. L., & Co. (See Neff, H. L.)
Neil's Flavor Laboratory, Los Angeles, Calif. Non-alcoholic, maltless beverages. Serial No. 469,089; June 20. Class 45.
New Holland Machine Company, New Holland, Pa. Farm machinery. Serial No. 463,132; June 20. Class 23.
Nuodex Products Co., Inc., Elizabeth, N. J. Metallic salts and soaps in solid, paste and liquid form, etc. Serial Nos. 468,807–8; June 20. Class 6.
Nuodex Products Co., Inc., Elizabeth, N. J. Metallic salts and soaps in solid, paste and liquid form, etc. Serial No. 468,810; June 20. Class 6.
Old Smoky Sales Co., Los Angeles, Calif. Seasonings for meats, poultry, and fish. Serial No. 469,821; June 20. Class 46.
Parfait Powder Puff Co., Inc., Chicago, Ill. Face powder. Serial No. 468,722; June 20. Class 6.
Parfait Powder Puff Co., Inc., Chicago, Ill. Lipstick. Serial No. 468,812; June 20. Class 6.
Peerless Wolfson Company, Chicago, Ill. Handkerchiefs. Serial No. 469,509; June 20. Class 39.
Phillips Brush Company. (See Hahn, Harold V.)
Phillips Roofing Co., Inc., Baltimore, Md. Asbestos asphalt roof cement, asbestos fibre plastic coating. Serial No. 466,743; June 20. Class 12.
Pierce Renewable Fuses, Inc., Buffalo, N. Y. Electric fuses. Serial No. 467,699; June 20. Class 21.
Platt, Arthur I., doing business as Arthur I. Platt & Company, Fairfield, Conn. Wall tool and article holding clips. Serial No. 467,854; June 20. Class 13.
Platt, Arthur I., & Company. (See Platt, Arthur I.)
Pollak, Henry, Inc., New York, N. Y. Braids for millinery. Serial No. 462,855; June 20. Class 40.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. Serial No. 469,510; June 20. Class 4.
Producto Machine Company, The, Bridgeport, Conn. Machine tools and parts therefor. Serial No. 468,332–3; June 20. Class 23.
Pulitzer, Ben., New York, N. Y. Men's neckties. Serial No. 467,673; June 20. Class 39.
Reichhold Chemicals, Inc., Detroit, Mich. Synthetic plastic resins. Serial No. 458,339; June 20. Class 1.
Rex Cutlery Corporation, Irvington, N. J. Scissors and tweezers. Serial Nos. 467,467–8; June 20. Class 23.
Rosenbluth Brothers, New York, N. Y. Curtains. Serial No. 462,889; June 20. Class 42.
Rothstein, Joseph, Philadelphia, Pa. Women's dresses, slack suits, and jackets. Serial No. 469,694; June 20. Class 39.
St. Christopher Wine Corporation, Charlotte, N. C. Wines. Serial No. 467,900; June 20. Class 47.
Saniwax Paper Company, Kalamazoo, Mich. Wrapping paper. Serial No. 462,233; June 20. Class 37.
Saunders Archery Target Co. (See Saunders, Charles A.)
Saunders, Charles A., doing business as Saunders Archery Target Co., Manilla, Iowa. Archery target butts. Serial No. 469,972; June 20. Class 22.
Schramm, August F., Jr., New York, N. Y. Textile fabrics. Serial No. 458,620; June 20. Class 42.
Sherwin-Williams Company, The, Cleveland, Ohio. Wallpaper. Serial No. 462,520; June 20. Class 37.
Siegel Bros. Garment Corp., New York, N. Y. Woolen and worsted fabrics in the piece. Serial No. 468,984; June 20. Class 42.
Sinclair Refining Company, New York, N. Y. Cutting oils. Serial No. 469,704; June 20. Class 15.
Smith Vegetable Company, Phoenix, Ariz. Fresh vegetables. Serial No. 468,090; June 20. Class 46.
Solowey, Meyer, Philadelphia, Pa. Women's and misses' dresses. Serial No. 467,255; June 20. Class 39.
Spear Box Company Incorporated, New York, N. Y. Folding paper and cardboard boxes. Serial No. 468,494; June 20. Class 2.
Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electronic gyro-compasses, electronic gyropilots, electronic direction indicating instruments, etc. Serial No. 461,937; June 20. Class 26.
Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electronic tubes. Serial No. 463,638; June 20. Class 21.
Standard Oil Company of New Jersey, Wilmington, Del. Petrolatum. Serial No. 464,450; June 20. Class 6.
Stein Brothers, New York, N. Y. Men's and boys' suits, coats, trousers, etc. Serial No. 469,447; June 20. Class 39.
Steinam, A., Company, Inc., New York, N. Y. Cotton piece goods, rayon piece goods, etc. Serial No. 468,546; June 20. Class 42.
Stern, I., & Co., Inc., New York, N. Y. Solder strips. Serial No. 467,546; June 20. Class 14.
Tatnall, Edward C., New York, N. Y. Reach extending match or taper holding lighters. Serial No. 465,158; June 20. Class 34.
Two Boys Fruit & Produce, Yakima, Wash. Potatoes, fresh fruits and vegetables. Serial No. 420,435; June 20. Class 46.
Union Aircraft Products Corp., assignor to Union Aircraft Products Corp., New York, N. Y. Metal pipe fittings. Serial No. 461,580; June 20. Class 13.
Veritas Products Company, Inc., New York, N. Y. Vaginal diaphragms. Serial No. 468,767; June 20. Class 44.
Wansco Paper Products Co. Inc., New York, N. Y. Typewriting papers, writing paper, envelopes, etc. Serial Nos. 468,648–9; June 20. Class 37.
Watchemoket Optical Co. Inc., Providence, R. I. Industrial safety goggles. Serial No. 466,816; June 20. Class 26.
Waverly Petroleum Products Company, Philadelphia, Pa. Hand cleaners. Serial No. 465,218; June 20. Class 4.
Western Auto Supply Company, Los Angeles, Calif. All types of fishing tackle. Serial No. 469,741; June 20. Class 22.
Willke Chemical Company, Houston, Tex. Insecticides. Serial No. 468,910; June 20. Class 6.
Wood, C. Wilson, doing business as L. K. Mallinckrodt, assignor to L. K. Mallinckrodt, Inc., Baltimore, Md. Wrapping paper, toilet paper, paper towels, etc. Serial Nos. 467,632–5; June 20. Class 37.
Wood, C. Wilson, doing business as L. K. Mallinckrodt, assignor to L. K. Mallinckrodt, Inc., Baltimore, Md. Wrapping paper and waxed paper. Serial No. 468,314; June 20. Class 37.

LIST OF REGISTRANTS OF TRADE-MARKS

Abegg & Reinhold Co. Inc., Los Angeles, Calif., by change of name to Abegg & Reinhold Co. Ltd. Metal-working tools, woodworking tools, oil-well tools, etc. 182,374; renewed Apr. 8, 1944.
Actina, Inc., New York, N. Y. Sensitized photographic materials of paper, film and glass. 407,729; June 20; Serial No. 467,364; published Apr. 11, 1944. Class 26.
Albert Laboratories, Inc., Chicago, Ill. Medicinal preparations. 407,664; June 20; Serial No. 461,995; published Apr. 4, 1944. Class 6.
Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Ingots, billets, bars, etc. 407,747–8; June 20. Class 14.
Allis-Chalmers Manufacturing Company, Milwaukee and West Allis, Wis. Electrical insulator bonding materials. 407,677; June 20; Serial No. 464,013; published April 11, 1944. Class 21.
American Cellulose & Chemical Manufacturing Company, Ltd., The. (See British Cellulose and Chemical Manufacturing Company Limited, assignor.)
American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y., by change of name to Celanese Corporation of America. Dyestuffs. 189,399; renewed Sept. 16, 1944.
American Milk Products Corporation, New York, N. Y., by change of name to General Milk Company, Inc. Natural sterilized milk. 184,170; renewed May 20, 1944.
Anaconda Copper Mining Company, New York, N. Y., to Anaconda Copper Mining Company, Butte, Mont. Finished commutator segments, copper bars and strips and insulated copper wire. 190,393; renewed Oct. 14, 1944.
Anglo-American Provision, The, Chicago, Ill. Lard. 24,555; re-renewed Apr. 17, 1944.
Anglo-American Provision Company, The, Chicago, Ill. Hog products, including ham. 25,029; re-renewed July 17, 1944.

Anglo-American Provision Company, The, Chicago, Ill. Hog products, including lard. 25,043; re-renewed July 24, 1944.
Armour and Company. (See Stern, Joseph, & Sons, Inc., assignor.)
Art Craft Metal Works. (See Walker, Dallas E.)
Associated Distributors, Chicago, Ill. Lipstick, rouge, face powder, etc. 407,698; June 20; Serial No. 466,033; published Apr. 4, 1944. Class 6.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 407,712; June 20; Serial No. 466,778; published Apr. 11, 1944. Class 15.
B. B. & R. Knight, Inc., Providence, R. I., and New York, N. Y., assignor, by mesne assignments, to Fruit of the Loom, Providence, R. I. Bleached cotton piece goods. 187,083; renewed July 29, 1944.
Bain, Charles, Philadelphia, Pa. Soap compound. 407,711; June 20; Serial No. 466,566; published Apr. 4, 1944. Class 4.
Baltimore Pure Rye Distilling Company, The, Dundalk, Md. Pure rye whiskey. 407,648; June 20; Serial No. 453,870; published Apr. 4, 1944. Class 49.
Beau Brummel Polish Company. (See Graziadei, Leonard, Estate of.)
Bernhard, Arnold, New York, N. Y. Investment survey bulletin and statistical yearbook. 407,676; June 20; Serial No. 463,927; published Apr. 4, 1944. Class 38.
Bernheim Distilling Company, Louisville, Ky. Whiskey. 407,722; June 20; Serial No. 466,400; published Apr. 11, 1944. Class 49.
Blue Swann Mills, Inc., New York, N. Y. Ladies' and children's underwear. 407,727; June 20; Serial No. 467,229; published Apr. 11, 1944. Class 39.
Borland, Charles W., Columbus, Ohio. Medicine for the treatment of stomach disorders. 187,231; renewed July 29, 1944.
Botany Worsted Mills, Passaic, N. J. Woolen piece goods. 407,699–700 June 20; Serial Nos. 466,143–4; published Apr. 4, 1944; Class 42.
Bragg, Paul C., doing business as Live Food Products Co., Burbank, Calif. Seasoning. 407,736; June 20. Class 46.
Brandmeir, Henry A., doing business as Brandmeir Lumber Company, Seattle, Wash. Lumber. 407,659; June 20; Serial No. 460,688; published Apr. 11, 1944. Class 12.
Brandmeir Lumber Company. (See Brandmeir, Henry A.)
Braun & Corwin, Irvington-on-Hudson, N. Y. Cast figurines. 407,746; June 20. Class 50.
Briones & Co., Inc., New York, N. Y. Olive oil. 184,632; renewed May 27, 1944.
Bristol Company, The, Waterbury, Conn. Auxiliary control apparatus for automatic regulators. 407,692; June 20; Serial No. 465,612; published Apr. 11, 1944. Class 26.
Bristol Company, The, Waterbury, Conn. Apparatus for use in pneumatic telemetering systems. 407,693; June 20; Serial No. 465,614; published Apr. 11, 1944. Class 26.
Bristol Company, The, Waterbury, Conn. Thermally-operated electrical apparatus. 407,694; June 20; Serial No. 465,615; published Apr. 11, 1944. Class 21.
British Celanese Limited. (See British Cellulose and Chemical Manufacturing Company Limited.)
British Cellulose and Chemical Manufacturing Company Limited, London, England, now by change of name British Celanese Limited, assignor to The American Cellulose & Chemical Manufacturing Company, Ltd., assignor to Celanese Corporation of America, New York, N. Y. Ladies' knitted underwear. 186,516; renewed July 22, 1944.
California Wines Sales, Inc., Lodi, Calif. Wines. 407,662; June 20; Serial No. 461,710; published Nov. 9, 1943. Class 47.
Calwisa Brandy Company, Lodi, Calif. Brandy. 407,672; June 20; Serial No. 463,063; published Feb. 1, 1944. Class 49.
Caron Corporation, New York, N. Y. Toilet powder. 186,012; renewed July 1, 1944.
Caswell, Geo. W., Co., San Francisco, Calif. Coffee. 189,706–7; renewed Sept. 23, 1944.
Celanese Corporation of America. (See American Cellulose & Chemical Manufacturing Company Limited, The.)
Celanese Corporation of America. (See British Cellulose and Chemical Manufacturing Company Limited, assignor.)
Central Knitwear Mills, Inc., New York, N. Y. Ladies' and misses' sweaters, bathing suits, slacks, etc. 407,646; June 20; Serial No. 432,339; published Apr. 11, 1944. Class 39.
Certified Dry Mat Corporation. (See Kubler, George A., assignor.)
Chandler and Rudd Company, The, Cleveland, Ohio. Cheese and butter. 189,889; renewed Sept. 30, 1944.
Chappel, Earl J., Rockford, Ill. Canned dog food. 407,715; June 20; Serial No. 466,980; published Apr. 11, 1944. Class 46.
Clikloid Company, The, to V. A. McGrew, Marshalltown, Iowa, successor. Surgical dressing in sheet form. 185,651; renewed June 24, 1944.
Coe Laboratories, Inc., Chicago, Ill. Dental prostheses. 407,734; June 20. Class 44.
Cohn-Goldwater Company, assignor to Cohn-Goldwater Manufacturing Co., Los Angeles, Calif. Men's, boys' and women's dress, negligee, and work shirts, nightshirts, pyjamas. 184,979; renewed June 2, 1944.
Cohn-Goldwater Manufacturing Co. (See Cohn-Goldwater Company, assignor.)
Coppus Engineering Corporation, Worcester, Mass. Power-driven blowers and fans. 190,553–4; renewed Oct. 14, 1944.
Cotton Classics. (See Hollub, Harry M.)
Coughlin Manufacturing Company, New York, N. Y. Gold leaf, imitation gold leaf, and silver leaf. 183,776; renewed May 6, 1944.
Croasdale & Deangelis, Haverford Township, Delaware County, Pa. Windshields of transparent material not including glass. 407,649; June 20; Serial No. 455,621; published Feb. 9, 1943. Class 19.
Curtiss-Wright Corporation, New York and Buffalo, N. Y., Columbus, Ohio, St. Louis, Mo., and Louisville, Ky. Airplanes and structural parts therefor. 407,685; June 20; Serial No. 464,778; published Apr. 11, 1944. Class 19.
De Bardeleben Coal Corporation, Birmingham, Ala. Coke. 407,719; June 20; Serial No. 467,092; published Apr. 11, 1944. Class 1.
Diagraph-Bradley Stencil Machine Corporation, St. Louis, Mo. Stencil ink. 407,690; June 20; Serial No. 465,415; published Mar. 28, 1944. Class 11.
Dole Refrigerating Company, Chicago, Ill. Cold plates. 407,743; June 20. Class 31.
Durable Textile Company. (See Twery, Isadore M.)
Eaton, Charles A., Company, Brockton, Mass. Boots and shoes. 407,704–5; June 20; Serial Nos. 466,348–9; published Apr. 4, 1944. Class 39.
Equity Hosiery Mills, to Equity Hosiery Company, New York, N. Y., successor. Hosiery. 189,382; renewed Sept. 16, 1944.
Eureka Specialty Printing Company, Scranton, Pa. Calendars. 407,652; June 20; Serial No. 457,949; published Apr. 4, 1944. Class 38.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. 407,697; June 20; Serial No. 465,900; published Mar. 14, 1944. Class 38.
Faber, A. W., Inc., Newark, N. J. Lead pencils. 407,661; June 20; Serial No. 461,461; published Apr. 11, 1944. Class 37.
Farbefabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, assignor, by mesne assignments, to General Dyestuff Corporation, New York, N. Y. Chemical product. 184,569; renewed May 27, 1944.
Fisher Bros. Paper Company, Fort Wayne, Ind. Pencils and wrapping paper. 184,664; renewed May 27, 1944.
Fletcher Brothers. (See Fletcher Brothers Co., assignor.)
Fletcher Brothers Co., doing business as Fletcher Brothers, assignor to J. R. Fletcher, doing business as Fletcher Brothers, Winston-Salem, N. C. Overalls. 189,396; renewed Sept. 16, 1944.
Fletcher, J. R. (See Fletcher Brothers Co., assignor.)
Ford, Bacon & Davis, Inc., New York, N. Y. Periodical publications. 190,690; renewed Oct. 21, 1944.
Freedman, Leonard, & Sons Ltd., New York, N. Y. Woven or other fabrics. 407,689; June 20; Serial No. 465,289; published Feb. 22, 1944. Class 50.
Fruit of the Loom. (See B. B. & R. Knight, Inc., assignor.)
Fuller, W. P., & Co., San Francisco, Calif. Varnishes and dry, paste, and ready-mixed paints. 190,750–1; renewed Oct. 21, 1944.
General Aniline & Film Corporation. (See Metz, H. A., & Co., Inc., assignor.)
General Dyestuff Corporation. (See Farbefabriken vorm. Friedr. Bayer & Co., assignor.)
General Dyestuff Corporation. (See Metz, H. A., & Co., Inc., assignor.)
General Milk Company, Inc. (See American Milk Products Corporation.)
General Motors Corporation. (See Ternstedt Manufacturing Company, assignor.)
General Radio Company, Cambridge, Mass. Amplifiers, audiofrequency transformers, etc. 190,477; renewed Oct. 4, 1944.
Globe Steel Tubes Co., Milwaukee. Welded metal tubing. 407,667; June 20; Serial No. 462,254; published Nov. 16, 1943. Class 13.
Golden Glint Company, Seattle, Wash. Lotions for skin and hair. 407,723; June 20; Serial No. 466,486; published Apr. 4, 1944. Class 6.
Goldfine, Ceil, doing business as V-Brands, New York, N. Y. Prophylactic rubber articles and sanitary napkins. 407,737; June 20. Class 44.
Graziadei, Leonard, Estate of, doing business as Beau Brummel Polish Company, Worcester, Mass. Shoe polish. 407,713; June 20; Serial No. 466,876; published Apr. 4, 1944. Class 4.
Gulf & West Indies Co., Inc., New York, N. Y. Sponges. 407,657; June 20; Serial No. 460,546; published Apr. 11, 1944. Class 1.
Gulf & West Indies Co., Inc., New York, N. Y. Chamois. 407,658; June 20; Serial No. 460,547; published Apr. 11, 1944. Class 1.

H. L. B. Corporation, New York, N. Y. Men's, women's, boys' and girls' leather sport coats and jackets. 407,696; June 20; Serial No. 465,869; published Apr. 11, 1944. Class 39.
H. & M. Schainman Sportwear, New York, N. Y. Women's and misses' sport jackets, skirts, suits, etc. 407,686; June 20; Serial No. 464,798; published Jan. 25, 1944. Class 39.
Harmon & Reid, Grants, N. Mex. Fresh vegetables. 407,741; June 20. Class 46.
Harper Feed Mills, Inc., Pittsburgh, Pa. Poultry feeds containing corn meal, bran, ground wheat, etc. 407,682; June 20; Serial No. 464,507; published Apr. 11, 1944. Class 46.
Harris, John J., & Co. (See Harris, John J.)
Harris, John J., doing business as John J. Harris & Co., Chicago, Ill. Library paste, photo paste, label paste, etc. 182,929; renewed Apr. 22, 1944.
Hart & Co., assignor to I. Putnam, Inc., Elmira, N. Y. Preparations for holding false teeth in place. 183,824; renewed May 6, 1944.
Hercules Powder Company, Wilmington, Del. Fertilizer compound. 407,680; June 20; Serial No. 464,437; published Apr. 11, 1944. Class 10.
Hermanos, Sola, Buenos Aires, Argentina. Razors, razor blades, safety razors, etc. 407,668; June 20; Serial No. 462,325; published Apr. 4, 1944. Class 23.
Herrmann, Edgar G., Oak Park, Ill. Trade publication. 407,651; June 20; Serial No. 457,830; published Oct. 26, 1943. Class 38.
Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparation. 407,669; June 20; Serial No. 462,415; published Oct. 12, 1943. Class 6.
Hohner, M., Inc., New York, N. Y. Mouth harmonicas. 190,333–4; renewed Oct. 14, 1944.
Hohner, M., Inc., New York, N. Y. Mouth harmonicas. 190,338; renewed Oct. 14, 1944.
Holeproof Hosiery Co., Milwaukee, Wis. Women's underwear. 407,730; June 20; Serial No. 467,399; published Apr. 11, 1944. Class 39.
Hollub, Harry M., doing business as Cotton Classics, New York, N. Y. Ladies', dresses, brunch coats, and nurses' uniforms. 407,726; June 20; Serial No. 467,196; published Apr. 11, 1944. Class 39.
Holophane Company, Inc., New York, N. Y. Glass lamp panels and screens, globes, etc. 407,733; June 20. Class 34.
Home Shift, The, San Francisco, Calif. Section of a magazine. 407,656; June 20; Serial No. 459,369; published Apr. 4, 1944. Class 38.
Indian Arts and Crafts Board, Washington, D. C. Paintings (both oil and water-color). 407,718; June 20; Serial No. 467,083; published Apr. 4, 1944. Class 38.
Inland Steel Company, Chicago, Ill. Re-inforcing steel bars for use in concrete constructions. 407,707; June 20; Serial No. 466,378; published Apr. 11, 1944. Class 12.
Kelley, Anderson W., executor for Joseph K. Nye Estate, doing business as William F. Nye, New Bedford, Mass., to William F. Nye, Inc., Fairhaven, Mass., successor. Lubricating oil. 190,749; renewed Oct. 21, 1944.
Kenney Manufacturing Company, Cranston, R. I. Curtain rods, drapery hardware and window-shade hardware. 190,164; renewed Oct. 7, 1944.
Kiger, C. A., Company, Kansas City, Kans. Precious and semi-precious stones. 407,738; June 20. Class 28.
Krak-Seal Co., Highland Park, N. J. Chemical compound for sealing cracked or leaking blocks, cylinder heads, etc. 407,744; June 20. Class 6.
Kubler, George A., assignor to Certified Dry Mat Corporation, New York, N. Y. Matrix, dry mat, or board. 184,961; renewed June 3, 1944.
Kubler, George A., assignor to Certified Dry Mat Corporation, New York, N. Y. Matrix, dry mat, or board. 185,297; renewed June 10, 1944.
Lentheric Incorporated, New York, N. Y. Perfume. 187,747; renewed Aug. 12, 1944.
Levi, Simon, Co., Ltd., Los Angeles, Calif. Tequila. 407,679; June 20; Serial No. 464,394; published Apr. 11, 1944. Class 49.
Levow, David, New York, N. Y. Skylight gearing. 190,510; renewed Oct. 14, 1944.
Lincoln & Ulmer Inc., New York, N. Y. Cigars, cigarettes and smoking tobacco. 407,717; June 20; Serial No. 467,070; published Apr. 11, 1944. Class 17.
Live Food Products Co. (See Bragg, Paul C.)
Marshall Field & Company, Chicago, Ill. Ladies' hosiery. 183,342; renewed Apr. 29, 1944.
McGrew, V. A. (See Cilkloid Company, The.)
Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparation. 407,716; June 20; Serial No. 467,040; published Apr. 4, 1944. Class 6.
Metz, H. A., & Co., Inc., assignor to General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. 185,818–19; renewed June 24, 1944.
Metz, H. A., & Co., Inc., assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Substances for sensitizing photographic plates. 185,828; renewed June 24, 1944.
Middlebrooke Lancaster, Inc., Brooklyn, N. Y. Permanent wave oil, cream, cleansing cream, etc. 407,708; June 20; Serial No. 466,535; published Apr. 4, 1944. Class 6.
Mildura Winery Proprietary Limited, Merbein, Victoria, Australia. Brandy. 407,660; June 20; Serial No. 460,964; published Dec. 7, 1943. Class 49.
Miller Manufacturing Company, Camden, N. J. Chemicals for repairing cracks in metal, etc. 407,653; June 20; Serial No. 458,369; published Apr. 4, 1944. Class 6.
Modern Trimedge, Inc., Youngstown, Ohio. Metallic and plastic mouldings. 407,735; June 20. Class 12.
Mullins Manufacturing Corporation, Salem and Warren, Ohio. Sinks and combined sinks and cabinets. 407,709; June 20; Serial No. 466,536; published Apr. 11, 1944. Class 13.
N. P. Co. (See Princiotta, Orazio.)
Nantex Manufacturing Co., New York, N. Y. Men's athletic underwear. 407,720; June 20; Serial No. 467,105; published Apr. 4, 1944. Class 39.
National Cigar Corporation, Wimington, Del., Frankfort, Ind., and Cincinnati, Ohio. Cigars. 407,681; June 20; Serial No. 464,488; published Apr. 11, 1944. Class 17.
National Ring Traveler Co., Providence, to National Ring Traveler Co., Pawtucket, R. I. Ring spinning and twisting travelers. 190,595–6; renewed Oct. 14, 1944.
Natural Vision Equipment Corporation, New York, N. Y. Publications, charts, and drawings. 407,695; June 20; Serial No. 465,848; published Apr. 11, 1944. Class 38.
Nestlé & Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland, assignor to Nestlé's Milk Products, Inc., New York, N. Y. Evaporated milk, dry and powdered milk, dry and powdered skimmed milk, etc. 190,133; renewed Oct. 7, 1944.
Nestlé's Milk Products, Inc. (See Nestlé & Anglo-Swiss Condensed Milk Co., assignor.)
Northwest Engineering Company, assignor to Northwest Engineering Company, Green Bay, Wis. Trench excavators, drag-line excavators, hoisting machines, etc. Trench. 189,360; renewed Sept. 16, 1944.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Photographic developer. 190,215; renewed Oct. 7, 1944.
Nuguard Chemicals, Inc., East Paterson, N. J. Repellents for rodents and insects and insecticides, fungicides, etc. 407,706; June 20; Serial No. 466,361; published Apr. 4, 1944. Class 6.
Nye, Joseph K., Estate. (See Kelley, Anderson W., executor.)
Nye, William F. (See Kelley, Anderson W.)
Nye, William F., Inc. (See Kelley, Anderson W.)
Ohio Knife Company, The, Cincinnati, Ohio. Power cutting knives, and sheet metal shearing machines. 407,687; June 20; Serial No. 465,206; published Apr. 4, 1944. Class 23.
Ohio Knife Company, The, Cincinnati, Ohio Machine cutting tools, and other metal cutting machines. 407,688; June 20; Serial No. 465,207; published Apr. 4, 1944. Class 23.
Pantasote Leather Company, The Passaic, N. J. Coated textile fabrics. 407,724; June 20; Serial No. 466,512; published Apr. 11, 1944. Class 50.
Philadelphia Seed Co., Philadelphia, Pa. Bird food. 190,726; renewed Oct. 21, 1944.
Plastergon Wall Board Co., Buffalo, N. Y. Wood-fiber wall board. 190,001–3; renewed Sept. 30, 1944.
Press-On, Inc., New York, N. Y. Applique emblems. 407,702; June 20; Serial No. 466,206; published Apr. 4, 1944. Class 40.
Price, L. B., Mercantile Company, Greenwich, Conn., to The L. B. Price Mercantile Co., St. Louis, Mo. Blankets. 187,985; renewed Aug. 12, 1944.
Princiotta, Orazio, doing business as N. P. Co., Jamaica Plain, Mass. Hair tonic and dandruff remover. 407,647; June 20; Serial No. 449,529; published Apr. 4, 1944. Class 6.
Putnam, I., Inc. (See Hart & Co., assignor.)
Recker, O. R., doing business as O. R. Recker Packing Co., Phoenix, Ariz. Fresh vegetables. 407,731; June 20; Serial No. 467,405; published Apr. 11, 1944. Class 46.
Recker, O. R., Packing Co. (See Recker, O. R.)
Research Drug Co., Inc., New York, N. Y. Skin ointment. 407,703; June 20; Serial No. 466,230; published Apr. 4, 1944. Class 6.
Roanoke Apple Products Co., Roanoke, Va. Vinegar. 189,914; renewed Sept. 30, 1944.
Rosetar Bros., to Watsonville Exchange, Inc., Watsonville, Calif., successor. Fresh apples. 182,411; renewed Apr. 8, 1944.
Rosewal Sportswear Co., New York, N. Y. Children's shirts and blouses. 407,721; June 20; Serial No. 466,385; published Apr. 4, 1944. Class 39.
Rubel, John, Co. (See Rubel, John.)
Rubel, John, doing business as John Rubel Co., New York, N. Y. Brooches, bracelets, necklaces, etc. 407,684; June 20; Serial No. 464,761; published Apr. 11, 1944. Class 28.
Ryt-Oyl Lubricants Company, San Francisco, Calif. Lubricating oils, greases, and compounds, etc. 190,747; renewed Oct. 21, 1944.
Sadacca, Albert V., Ann Arbor, Mich. Cosmetics. 407,650; June 20; Serial No. 457,513; published Apr. 4, 1944. Class 6.
Santa Nella Vineyards. (See Smith, Glenn A.)

Sealed-In Vitamins, Inc., New York, N. Y. Concentrate of vitamins and minerals. 407,663; June 20; Serial No. 461,857; published Apr. 4, 1944. Class 6.
Sears, Roebuck and Co. (See Van Ness, Eleanor, assignor.)
Servel, Inc., Evansville, Ind., and New York, N. Y. Cleaning and polishing compound. 407,678; June 20; Serial No. 464,274; published Apr. 11, 1944. Class 4.
Servel, Inc., Evansville, Ind., and New York, N. Y. Gas water heaters. 407,725; June 20; Serial No. 466,491; published Apr. 11, 1944. Class 34.
Service Bag Co. Inc., New York, N. Y., assignor to Wolf Brothers, Philadelphia, Pa. Merchandise receptacles or envelopes. 189,638; renewed Sept. 23, 1944.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Package consisting of V-mail stationery, writing fluid, and leads. 407,655; June 20; Serial No. 459,086; published June 8, 1943. Class 50.
Sherwin-Williams Company, The, Cleveland, Ohio. Paint. 407,671; June 20; Serial No. 462,931; published Apr. 4, 1944. Class 16.
Simmonds Aerocessories Limited, Brentford, England. Metal nuts, bolts, washers, and clips. 407,654; June 20; Serial No. 458,712; published Apr. 11, 1944. Class 13.
Sitroux Company, Inc., The. (See Sitroux Importing Co. Inc.)
Sitroux Importing Co. Inc, New York, N. Y., by change of name to The Sitroux Company, Inc. Hair nets. 189,869; renewed Sept. 20, 1944.
Smith, Beir & Gormly, assignor to Smith, Gormly Co., Inc., assignor to Smith, Gormly Company, Inc., Rochester, N. Y. Play suits, hosiery, underwear, etc. 190,318; renewed Oct. 14, 1944.
Smith, Glenn A., doing business as Santa Nella Vineyards, Los Angeles, Calif. Wines. 407,665; June 20; Serial No. 462,032; published Apr. 11, 1944. Class 47.
Smith, Glenn A., doing business as Santa Nella Vineyards, Los Angeles, Calif. Brandy. 407,666; June 20; Serial No. 462,033; published Apr. 11, 1944. Class 49.
Smith, Gormly Co., Inc. (See Smith, Beir & Gormly, assignor.)
Smith, Gormly Company, Inc. (See Smith, Beir & Gormly, assignor.)
Smith, Landon P. Inc., Irvington, N. J. Golf tees. 407,683; June 20; Serial No. 464,732; published Apr. 11, 1944. Class 22.
South Bend Bait Company, South Bend, Ind. Fishing reels, fishing rods, artificial fishing baits, etc. 183,114; renewed Apr. 22, 1944.
Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Kraft wrapping paper. 407,739; June 20. Class 37.
Stern, Joseph, & Sons, Inc., New York, N. Y., assignor, by mesne assignments, to Armour and Company, Chicago, Ill. Packaged meats and meat products. 184,240; renewed May 20, 1944.
Street, R. R., & Co., Inc., Chicago, Ill. Water repellent for use on fabrics. 407,673; June 20; Serial No. 463,218; published Apr. 4, 1944. Class 6.
Swartz, William P., Jr., and Company, Roanoke, Va. Soaps, cleaning compounds, rug shampoo, etc. 407,745; June 20. Class 4.
Teller, Lena. (See Teller Optical Company, The, assignor.)
Teller Optical Company, The, assignor to Lena Teller, Providence, R. I. Spectacle frames, eyeglass frames, temples, etc. 183,218; renewed Apr. 22, 1944.
Ternstedt Manufacturing Company, assignor to General Motors Corporation, Detroit, Mich. Vehicle body hardware. 190,696; renewed Oct. 21, 1944.
Transamerica Wine Corp., New York, N. Y. Wines. 407,728; June 20; Serial No. 467,325; published Apr. 11, 1944. Class 47.
Tremco Manufacturing Company, The, Cleveland, Ohio. Paints. 407,701; June 20; Serial No. 466,181; published Apr. 4, 1944. Class 16.
Tremco Manufacturing Company, The, Cleveland, Ohio. Mastic compound. 407,710; June 20; Serial No. 466,559; published Apr. 4, 1944. Class 16.
Twery, Isadore M., doing business as Durable Textile Company, Chicago, Ill. Slipcovers. 407,740; June 20. Class 32.
Upjohn Company, The, Kalamazoo, Mich. Diuretic elixir. 186,943; renewed July 22, 1944.
V-Brands. (See Goldfine, Ceil.)
Van Ness, Eleanor, Baltimore, Md., assignor, by mesne assignments, to Sears, Roebuck and Co., Chicago, Ill. Children's blouses and dresses. 186,923; renewed July 22, 1944.
Vellumoid Company, The, Boston, to The Vellumoid Company, Worcester, Mass. Sheet packing and gaskets. 190,549; renewed Oct. 14, 1944.
Vestal Chemical Company, St. Louis, Mo. Disinfectants, deodorants, insecticides, etc. 190,608; renewed Oct. 14, 1944.
Walker, Dallas E., doing business as Art Craft Metal Works, Tampa, Fla. Metal grille fencing, trellises, and gates. 407,675; June 20; Serial No. 463,717; published Apr. 11, 1944. Class 13.
Warren Clock Company, Ashland, Mass., by change of name to Warren Telechron Company. Electrical motors. 187,400; renewed Aug. 5, 1944.
Warren Telechron Company. (See Warren Clock Company.)
Watsonville Exchange, Inc. (See Rosetar Bros.)
Weather-Seal, Inc., Barberton, Ohio. Combination storm and screen windows and doors. 407,742; June 20. Class 12.
Weindenhoff, Joseph, Inc., Chicago, Ill. Magneto testing and analyzing apparatus and parts thereof. 407,674; June 20; Serial No. 463,306; published Jan. 4, 1944. Class 26.
Western Auto Supply Company, Kansas City, Mo. Asphalt felt roll roofing and shingles. 407,670; June 20; Serial No. 462,896; published Apr. 11, 1944. Class 12.
Williamson, W. W., New Market, Va. Farm products. 190,530; renewed Oct. 14, 1944.
Willys-Overland Motors, Inc., Toledo, Ohio. Internal combustion engines and parts thereof. 407,732; June 20; Serial No. 467,551; published Apr. 4, 1944. Class 23.
Wolf Brothers. (See Service Bag Co. Inc., assignor.)
Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning, cleansing, and detergent material. 407,691; June 20; Serial No. 465,496; published Apr. 4, 1944. Class 4.
Zenith Radio Corporation, Chicago, Ill. Television receiving and amplifying apparatus and parts thereof. 407,714; June 20; Serial No. 466,967; published Apr. 11, 1944. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chamois. Gulf & West Indies Co. 407,658; June 20; Serial No. 460,547; published Apr. 11, 1944.
Coke. De Bardeleben Coal Corporation. 407,719; June 20; Serial No. 467,092; published Apr. 11, 1944.
Sponges. Gulf & West Indies Co. 407,657; June 20; Serial No. 460,546; published Apr. 11, 1944.

CLASS 2

Receptacles or envelopes, Merchandise. Service Bag Co. Inc. 189,638; renewed Sept. 23, 1944.

CLASS 4

Cleaning, cleansing and detergent material. Wyandotte Chemicals Corporation. 407,691; June 20; Serial No. 465,496; published Apr. 4, 1944.
Compound, cleaning and polishing. Servel, Inc. 407,678; June 20; Serial No. 464,274; published Apr. 11, 1944.
Polish, Shoe. L. Graziadei. 407,713; June 20; Serial No. 466,876; published Apr. 4, 1944.
Soap compound. C. Bain. 407,711; June 20; Serial No. 466,566; published Apr. 4, 1944.
Soaps, cleaning compounds, rug shampoo, etc. William P. Swartz, Jr., and Company. 407,745; June 20.

CLASS 5

Paste, photo paste, label paste, etc., Library. J. J. Harris. 182,929; renewed Apr. 22, 1944.

CLASS 6

Chemical compound for sealing cracked or leaking blocks, cylinder heads, etc. Krak-Seal Co. 407,744; June 20.
Chemical product to be used in dyeing and printing. Farbenfabriken vorm. Friedr. Bayer & Co. 184,569; renewed May 27, 1944.
Chemicals for repairing cracks in metal, etc. Miller Manufacturing Company. 407,653; June 20; Serial No. 458,369; published Apr. 4, 1944.
Concentrate of vitamins and minerals. Sealed-In Vitamins, Inc. 407,663; June 20; Serial No. 461,857; published Apr. 4, 1944.
Cosmetics. A. V. Sadacca. 407,650; June 20; Serial No. 457,513; published Apr. 4, 1944.
Disinfectants, deodorants, insecticides, etc. Vestal Chemical Company. 190,608; renewed Oct. 14, 1944.
Dyes and dyestuffs. H. A. Metz & Co. 185,818–9; renewed June 24, 1944.
Dyestuffs. American Cellulose & Chemical Manufacturing Company Limited. 189,399; renewed Sept. 16, 1944.
Elixir, Diuretic. Upjohn Company. 186,943; renewed July 22, 1944.
Lipstick, rouge, face powder, etc. Associated Distributors. 407,698; June 20; Serial No. 466,033; published Apr. 4, 1944.
Lotions for skin and hair. Golden Glint Company. 407,723; June 20; Serial No. 466,486; published Apr. 4, 1944.

Medicinal preparation. Hoffmann-La Roche, Inc. 407,669; June 20; Serial No. 462,415; published Oct. 12, 1943.
Medicinal preparations. Albert Laboratories, Inc. 407,664; June 20; Serial No. 461,995; published Apr. 4, 1944.
Medicine for the treatment of stomach disorders. C. W. Borland. 187,231; renewed July 29, 1944.
Perfume. Lentheric Incorporated. 187,747; renewed Aug. 12, 1944.
Permanent wave oil, cream, cleansing cream, etc. Middlebrooke Lancaster, Inc. 407,708; June 20; Serial No. 466,535; published Apr. 4, 1944.
Pharmaceutical preparation. Mead Johnson & Company. 407,716; June 20; Serial No. 467,040; published Apr. 4, 1944.
Photographic developer. Novocol Chemical Mfg. Co. 190,215; renewed Oct. 7, 1944.
Powder, Toilet. Caron Corporation. 186,012; renewed July 1, 1944.
Repellents for rodents and insects and insecticides, fungicides, etc. Nuguard Chemicals, Inc. 407,706; June 20; Serial No. 466,361; published Apr. 4, 1944.
Skin ointment. Research Drug Co. 407,703; June 20; Serial No. 466,230; published Apr. 4, 1944.
Substances for sensitizing photographic plates. H. A. Metz & Co. 185,828; renewed June 24, 1944.
Tonic and dandruff remover, Hair. O. Princiotta. 407,647; June 20; Serial No. 449,529; published Apr. 4, 1944.
Water repellent for use on fabrics. R. R. Street & Co. 407,673; June 20; Serial No. 463,218; published Apr. 4, 1944.

CLASS 10

Fertilizer compound. Hercules Powder Company. 407,680; June 20; Serial No. 464,437; published Apr. 11, 1944.

CLASS 11

Ink, Stencil. Diagraph-Bradley Stencil Machine Corporation. 407,690; June 20; Serial No. 465,415; published Mar. 28, 1944.

CLASS 12

Bars for use in concrete constructions, Re-inforcing steel Inland Steel Company. 407,707; June 20; Serial No. 466,378; published Apr. 11, 1944.
Lumber. H. A. Brandmeir. 407,659; June 20; Serial No. 460,688; published Apr. 11, 1944.
Metallic and plastic mouldings. Modern Trimedge, Inc. 407,735; June 20.
Roofing and shingles, Asphalt felt roll. Western Auto Supply Company. 407,670; June 20; Serial No. 462,896; published Apr. 11, 1944.
Wall board, Wood-fiber. Plastergon Wall Board Co. 190,001–3; renewed Sept. 30, 1944.
Windows and doors, Combination storm and screen. Weather-Seal, Inc. 407,742; June 20.

CLASS 13

Gearing, Skylight. D. Levow. 190,510; renewed Oct. 14, 1944.
Fencing, trellises, and gates, Metal grille. D. E. Walker. 407,675; June 20; Serial No. 463,717; published Apr. 11, 1944.
Metal nuts, bolts, washers, and clips. Simmonds Aerocessories Limited. 407,654; June 20; Serial No. 458,712; published Apr. 11, 1944.
Rods, drapery hardware, and window-shade hardware, Curtain. Kenney Manufacturing Company. 190,164; renewed Oct. 7, 1944.
Sinks and combined sinks and cabinets. Mullins Manufacturing Corporation. 407,709; June 20; Serial No. 466,536; published Apr. 11, 1944.
Tubing, Welded metal. Globe Steel Tubes Co. 407,667; June 20; Serial No. 462,254; published Nov. 16, 1943.

CLASS 14

Gold leaf, imitation gold leaf, and silver leaf. Coughlin Manufacturing Company. 183,776; renewed May 6, 1944.
Ingots, billets, bars, etc. Allegheny Ludlum Steel Corporation. 407,747–8; June 20.

CLASS 15

Oil, greases, and compounds, etc., Lubricating. Ryt-Oyl Lubricants Company. 190,747; renewed Oct. 21, 1944.
Oil, Lubricating. A. W. Kelley. 190,749; renewed Oct. 21, 1944.
Oils, Lubricating. Atlantic Refining Company. 407,712; June 20; Serial No. 466,778; published Apr. 11, 1944.

CLASS 16

Mastic compound. Tremco Manufacturing Company. 407,710; June 20; Serial No. 466,559; published Apr. 4, 1944.
Paint. Sherwin-Williams Company. 407,671; June 20; Serial No. 462,931; published Apr. 4, 1944.
Paints. Tremco Manufacturing Company. 407,701; June 20; Serial No. 466,181; published Apr. 4, 1944.
Varnishes and dry, paste, and ready-mixed paints. W. P. Fuller & Co. 190,750–1; renewed Oct. 21, 1944.

CLASS 17

Cigars. National Cigar Corporation. 407,681; June 20; Serial No. 464,488; published Apr. 11, 1944.
Cigars, cigarettes and smoking tobacco. Lincoln & Ulmer Inc. 407,717; June 20; Serial No. 467,070; published Apr. 11, 1944.

CLASS 19

Airplanes and structural parts therefor. Curtiss-Wright Corporation. 407,685; June 20; Serial No. 464,778; published Apr. 11, 1944.
Vehicle body hardware. Ternstedt Manufacturing Company. 190,696; renewed Oct. 21, 1944.
Windshields of transparent material not including glass. Croasdale & Deangelis. 407,649; June 20; Serial No. 455,621; published Feb. 9, 1943.

CLASS 21

Amplifiers, audiofrequency transformers, etc. General Radio Company. 190,477; renewed Oct. 14, 1944.
Bonding materials. Electrical insulator. Allis-Chalmers Manufacturing Company. 407,677; June 20; Serial No. 464,013; published Apr. 11, 1944.
Commutator segments, copper bars and strips, and insulated copper wire, Finished. Anaconda Copper Mining Company. 190,393; renewed Oct. 14, 1944.
Motors, Electrical. Warren Clock Company. 187,400; renewed Aug. 5, 1944.
Television receiving and amplifying apparatus and parts thereof. Zenith Radio Corporation. 407,714; June 20; Serial No. 466,967; published Apr. 11, 1944.
Thermally-operated electrical apparatus. Bristol Company. 407,694; June 20; Serial No. 465,615; published Apr. 11, 1944.

CLASS 22

Golf tees. Landon P. Smith, Inc. 407,683; June 20; Serial No. 464,732; published Apr. 11, 1944.
Reels, fishing rods, artificial fishing baits, etc., Fishing. South Bend Bait Company. 183,114; renewed Apr. 22, 1944.

CLASS 23

Cutting tools and other metal cutting machines, Machine. Ohio Knife Company. 407,688; June 20; Serial No. 465,207; published Apr. 4, 1944.
Engines and parts thereof, Internal combustion. Willys-Overland Motors, Inc. 407,732; June 20; Serial No. 467,551; published Apr. 4, 1944.
Excavators, drag-line excavators, hoisting machines, etc., Trench. Northwest Engineering Company. 189,360; renewed Sept. 16, 1944.
Knives, and sheet metal shearing machines, Power cutting. Ohio Knife Company 407,687; June 20; Serial No. 465,206; published Apr. 4, 1944.
Razors, razor blades, safety razors, etc. S. Hermanos. 407,668; June 20; Serial No. 462,325; published Apr. 4, 1944.
Ring spinning and twisting travelers. National Ring Traveler Co. 190,595–6; renewed Oct. 14, 1944.
Tools, woodworking tools, oil-well tools, etc., Metal-working. Abegg & Reinhold Co., Inc. 182,374; renewed Apr. 8, 1944.

CLASS 26

Apparatus for use in pneumatic telemetering systems. Bristol Company. 407,693; June 20; Serial No. 465,614; published Apr. 11, 1944.
Auxiliary control apparatus for automatic regulators. Bristol Company. 407,692; June 20; Serial No. 465,612; published Apr. 11, 1944.
Frames, eyeglass frames, temples, etc., Spectacle. Teller Optical Company. 183,218; renewed Apr. 22, 1944.
Magneto testing and analyzing apparatus and parts thereof. Joseph Weindenhoff, Inc. 407,674; June 20; Serial No. 463,306; published Jan. 4, 1944.
Photographic materials of paper, film and glass, Sensitized. Actina, Inc. 407,729; June 20; Serial No. 467,364; published Apr. 11, 1944.

CLASS 28

Brooches, bracelets, necklaces, etc. J. Rubel. 407,684; June 20; Serial No. 464,761; published Apr. 11, 1944.
Stones, Precious and semi-precious. C. A. Kiger Company. 407,738; June 20.

CLASS 31

Plates, Cold. Dole Refrigerating Company. 407,743; June 20.

CLASS 32

Slipcovers. I. M. Twery. 407,740; June 20.

CLASS 34

Blowers and fans, Power-driven. Coppus Engineering Corporation. 190,553–4; renewed Oct. 14, 1944.
Heaters, Gas water. Servel, Inc. 407,725; June 20; Serial No. 466,491; published Apr. 11, 1944.
Panels and screens, globes, etc., Glass lamp. Holophane Company. 407,733; June 20.

CLASS 35

Packing and gaskets, Sheet. Vellumoid Company. 190,549; renewed Oct. 14, 1944.

CLASS 36

Harmonicas, Mouth. M. Hohner, Inc. 190,333–4; renewed Oct. 14, 1944.
Harmonicas, Mouth. M. Hohner, Inc. 190,338; renewed Oct. 14, 1944.

CLASS 37

Paper, Kraft wrapping. Southern Advance Bag & Paper Co. Inc. 407,739; June 20.
Pencils and wrapping paper. Fisher Bros. Paper Company. 184,664; renewed May 27, 1944.
Pencils, Lead. A. W. Faber, Inc. 407,661; June 20; Serial No. 461,461; published Apr. 11, 1944.

CLASS 38

Bulletin and statistical yearbook, Investment survey. A. Bernhard. 407,676; June 20; Serial No. 463,927; published Apr. 4, 1944.
Calendars. Eureka Specialty Printing Company. 407,652; June 20; Serial No. 457,949; published Apr. 4, 1944.
Magazine column. F–R Publishing Corporation. 407,697; June 20; Serial No. 465,900; published Mar. 14, 1944.
Paintings (both oil and water-color). Indian Arts and Crafts Board. 407,718; June 20; Serial No. 467,083; published Apr. 4, 1944.
Publication, Trade. E. G. Herrmann. 407,651; June 20; Serial No. 457,830; published Oct. 26, 1943.
Publications, charts, and drawings. Natural Vision Equipment. 407,695; June 20; Serial No. 465,848; published Apr. 11, 1944.
Publications, Periodical. Ford, Bacon & Davis, Inc. 190,690; renewed Oct. 21, 1944.
Section of a magazine. Home Shift. 407,656; June 20; Serial No. 459,369; published Apr. 4, 1944.

CLASS 39

Blouses and dresses, Children's. E. Van Ness. 186,923; renewed July 22, 1944.
Boots and shoes. Charles A. Eaton Company. 407,704–5; June 20; Serial Nos. 466,348–9; published Apr. 4, 1944.
Coats and jackets, Men's, women's, boys' and girls' leather sport. H. L. B. Corporation. 407,696; June 20; Serial No. 465,869; published Apr. 11, 1944.
Dresses, brunch coats, and nurses' uniforms, Ladies'. H. M. Hollub. 407,726; June 20; Serial No. 467,196; published Apr. 11, 1944.
Hosiery. Equity Hosiery Mills. 189,382; renewed Sept. 16, 1944.
Hosiery, Ladies'. Marshall Field & Company. 183,342; renewed Apr. 29, 1944.
Jackets, skirts, suits, Women's and misses', etc. H. & M. Schainman Sportwear. 407,686; June 20; Serial No. 464,798; published Jan. 25, 1944.
Nets, Hair. Sitroux Importing Co. Inc. 189,869; renewed Sept. 30, 1944.
Overalls. Fletcher Brothers Co. 189,396; renewed Sept. 16, 1944.
Play suits, hosiery, underwear etc. Smith, Beir & Gormly. 190,318; renewed Oct. 14, 1944.
Shirts and blouses, Children's. Rosewal Sportswear Co. 407,721; June 20; Serial No. 466,385; published Apr. 4, 1944.
Shirts, nightshirts, pyjamas, etc., Men's, boys' and women's dress, negligee, and work. Cohn-Goldwater Company. 184,979; renewed June 3, 1944.
Sweaters, bathing suits, slacks, etc., Ladies' and misses'. Central Knitwear Mills, Inc. 407,646; June 20; Serial No. 432,339; published Apr. 11, 1944.
Underwear, Ladies' and children's. Blue Swann Mills, Inc. 407,727; June 20; Serial No. 467,229; published Apr. 11, 1944.
Underwear, Ladies' knitted. British Cellulose and Chemical Manufacturing Company Limited. 186,516; renewed July 22, 1944.
Underwear, Men's athletic. Nantex Manufacturing Co. 407,720; June 20; Serial No. 467,105; published Apr. 4, 1944.
Underwear, Women's. Holeproof Hosiery Co. 407,730; June 20; Serial No. 467,399; published Apr. 11, 1944.

CLASS 40

Emblems, Applique. Press-On, Inc. 407,702; June 20; Serial No. 466,206; published Apr. 4, 1944.

CLASS 42

Blankets. L. B. Price Mercantile Company. 187,985; renewed Aug. 12, 1944.
Piece goods, Bleached cotton. B. B. & R. Knight, Inc. 187,083; renewed July 29, 1944.
Woolen piece goods. Botany Worsted Mills. 407,699–700; June 20; Serial Nos. 466,143–4; published Apr. 4, 1944.

CLASS 44

Dental prostheses. Coe Laboratories, Inc. 407,734; June 20.
Preparations for holding false teeth in place. Hart & Co. 183,824; renewed May 6, 1944.
Prophylactic rubber articles and sanitary napkins. C. Goldfine. 407,737; June 20.
Surgical dressing in sheet form. Cilkloid Company. 185,651; renewed June 24, 1944.

CLASS 46

Apples, Fresh. Rosetar Bros. 182,411; renewed Apr. 8, 1944.
Bird food. Philadelphia Seed Co. 190,726; renewed Oct. 21, 1944.
Cheese and butter. Chandler and Rudd Company. 189,889; renewed Sept. 30, 1944.
Coffee. Geo. W. Caswell Co. 189,706–7; renewed Sept. 23, 1944.
Dog food, Canned. E. J. Chappel. 407,715; June 20; Serial No. 466,980; published Apr. 11, 1944.
Farm products. W. W. Williamson. 190,530; renewed Oct. 14, 1944.
Hog products, including ham. Anglo-American Provision Company. 25,029; re-renewed July 17, 1944.
Hog products, including lard. Anglo-American Provision Company. 25,043; re-renewed July 24, 1944.
Lard. Anglo-American Provision Company. 24,555; re-renewed Apr. 17, 1944.
Meats and meat products, Packaged. Joseph Stern & Sons, Inc. 184,240; renewed May 20, 1944.
Milk, dry and powdered milk, dry and powdered skimmed milk, etc., Evaporated. Nestlé & Anglo-Swiss Condensed Milk Co. 190,133; renewed Oct. 7, 1944.
Milk, Natural sterilized. American Milk Products Corporation. 184,170; renewed May 20, 1944.
Oil, Olive. Briones & Co., Inc. 184,632; renewed May 27, 1944.
Poultry feeds containing corn meal, bran, ground wheat, etc. Harper Feed Mills, Inc. 407,682; June 20; Serial No. 464,507; published Apr. 11, 1944.
Seasoning. P. C. Bragg. 407,736; June 20.
Vegetables, Fresh. Harmon & Reid. 407,741; June 20.
Vegetables, Fresh. O. R. Recker. 407,731; June 20; Serial No. 467,405; published Apr. 11, 1944.
Vinegar. Roanoke Apple Products Co. 189,914; renewed Sept. 30, 1944.

CLASS 47

Wines. California Wines Sales, Inc. 407,662; June 20; Serial No. 461,710; published Nov. 9, 1943.
Wines. G. A. Smith. 407,665; June 20; Serial No. 462,032; published Apr. 11, 1944.
Wines. Transamerica Wine Corp. 407,728; June 20; Serial No. 467,325; published Apr. 11, 1944.

CLASS 49

Brandy. Calwisa Brandy Company. 407,672; June 20; Serial No. 463,063; published Feb. 1, 1944.
Brandy. Mildura Winery Proprietary Limited. 407,660; June 20; Serial No. 460,964; published Dec. 7, 1943.
Brandy. G. A. Smith. 407,666; June 20; Serial No. 462,033; published Apr. 11, 1944.
Tequila. Simon Levi Co., Ltd. 407,679; June 20; Serial No. 464,394; published Apr. 11, 1944.
Whiskey. Bernheim Distilling Company. 407,722; June 20; Serial No. 466,400; published Apr. 11, 1944.
Whiskey, Pure rye. Baltimore Pure Rye Distilling Company. 407,648; June 20; Serial No. 453,870; published Apr. 4, 1944.

CLASS 50

Cast figurine. Braun & Corwin. 407,746; June 20.
Coated textile fabrics. Pantasote Leather Company. 407,724; June 20; Serial No. 466,512; published Apr. 11, 1944.
Fabrics, Woven or other. Leonard Freedman & Sons Ltd. 407,689; June 20; Serial No. 465,289; published Feb. 22, 1944.
Matrix, dry mat, or board. G. A. Kubler. 184,961; renewed June 3, 1944.
Matrix, dry mat, or board. G. A. Kubler. 185,297; renewed June 10, 1944.
Package consisting of V-mail stationery, writing fluid, and leads. W. A. Sheaffer Pen Company. 407,655; June 20; Serial No. 459,086; published June 8, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adler, Charles, Jr., Baltimore, Md. Signal lamp. Re. 22,497; June 20.

Bank of America National Trust & Savings Association et al., executors. (See Replogle, Daniel B.)

Bullock, Laurie H. (See Replogle, Daniel B.)

Davison Chemical Corporation, The. (See Shoeld, Mark, assignor.)

General Electric Company. (See Hill, Charles H., assignor.)

Hill, Charles H., Drexel Hill, Pa., assignor to General Electric Company. Mounting electrical apparatus. Re. 22,498; June 20.

Lieber, Hugo, deceased, New York, by Lieber Patents Corporation, Elmsford, N. Y., assignee. Bone conduction hearing-aid. Re. 22,499; June 20.

Lieber Patents Corporation. (See Lieber, Hugo, assignor.)

Ohio Citizens Trust Company, The, trustee. (See Replogle, Daniel B., assignor.)

Queen, Harold E., et al., executors. (See Replogle, Daniel B.)

Replogle, Carl S., et al., executors. (See Replogle, Daniel B.)

Replogle, Daniel B., deceased, Berkeley, by Bank of America National Trust & Savings Association, San Francisco, C. S. Replogle, Piedmont, H. E. Queen and L. H. Bullock, Berkeley, Calif., executors; said D. B. Replogle assignor to The Ohio Citizens Trust Company, Toledo, Ohio, as trustee. Detecting indicator for air-method cleaning systems. Re. 22,501; June 20.

Shoeld, Mark, Towson, Md., assignor to The Davison Chemical Corporation. Manufacturing animal feed compositions. Re. 22,500; June 20.

Wood, Clyde W., Pasadena, Calif. Road material mixing machine. Re. 22,502; June 20.

LIST OF DESIGN PATENTEES

Aranoff, Kenneth, L. L. Lavant, and L. W. Arkin, Chicago, Ill. Holder for ration books and tokens or the like. 138,131; June 20.

Arkin, Lester W. (See Aranoff, K., Lavant, and Arkin.)

Baron, Moe, Highland Park, assignor to Victory Toy Company, Chicago, Ill. Toy cannon. 138,112; June 20.

Baron, Moe, Highland Park, assignor to Victory Toy Company, Chicago, Ill. Toy train. 138,113; June 20.

Bruetsch, Joseph J., Detroit, Mich. Drawing compass. 138,129; June 20.

Cogan, Edison, Butte, Mont. Combined flashlight and luminous attachment therefor. 138,120; June 20.

Cohen, Henry B., New York, N. Y., assignor to Sea Emergency Devices. Pulley block. 138,114; June 20.

Cousins, Boyd E., Kansas City, Mo. Toy gun. 138,115; June 20.

Decca Records, Inc. (See Schneider, Leonard W., assignor.)

Fowler, Judith, New York, N. Y. Scarf jacket or similar article. 138,124; June 20.

Funke, Edward, Pelham Manor, N. Y. Holder for narrow fabrics. 138,116; June 20.

Goodin, Albert J., Lewiston, Maine. Bottle carrier. 138,130; June 20.

Gruber, Abe, New York, N. Y. Suit. 138,125; June 20.

Gruber, Abe, New York, N. Y. Coat. 138,126; June 20.

Halpern, Jack, New York, N. Y. Display stand or similar article. 138,122; June 20.

Hitzeman, Henry C., et al. (See Pease, Henry E., assignor.)

Jaffa, William, Minneapolis, Minn. Garment hanger. 138,117; June 20.

Lavant, Lawrence L. (See Aranoff, K., Lavant, and Arkin.)

Lustig, Florence, New York, N. Y. Vestee. 138,127; June 20.

McKee Glass Company. (See Poglein, Louis, assignor.)

Medgyes, Ladislas, assignor to Helena Rubinstein, Inc., New York, N. Y. Box or similar article. 138,121; June 20.

Medgyes, Ladislas, assignor to Helena Rubinstein, Inc., New York, N. Y. Box or similar article. 138,132; June 20.

Nachman, Jack. (See Nachman, Joseph and J.)

Nachman, Joseph and J., Philadelphia, Pa. Apron. 138,128; June 20.

Pease, Henry E., assignor to H. C. Hitzeman, C. B. Winkler, and H. E. Pease, Chicago, Ill. Dart game board. 138,118; June 20.

Poglein, Louis, assignor to McKee Glass Company, Jeannette, Pa. Bottle. 138,123; June 20.

Rubinstein, Helena, Inc. (See Medgyes, Ladislas, assignor.)

Schneider, Leonard W., assignor to Decca Records, Inc., New York, N. Y. Display stand or similar article. 138,119; June 20.

Sea Emergency Devices. (See Cohen, Henry B., assignor.)

Victory Toy Company. (See Baron, Moe, assignor.)

Walker, Joset, New York, N. Y. Dress. 138,133; June 20.

Winkler, Clarence B., et al. (See Pease, Henry E., assignor.)

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TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1944

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Abbott, Charles W., Larchmont, N. Y. Method and apparatus for making nonmetallic sheathed conductors. 2,351,589; June 20.

Abbott, Claude H., Astoria, Oreg. Can-dumping mechanism. 2,351,731; June 20.

Abos, Ralph L. (See Stoody, S. M., and Abos:)

Adams, Harold W. (See Devlin, L. J., Adams, Landgraf, and Glasgow.)

Adams, Walter F., Seagoville, Tex. Liquid fuel heater. 2,352,065; June 20.

Addressograph-Multigraph Corporation. (See Smith, Clyde, assignor.)

Agriculture of the United States, Claude R. Wickard, and his successors in office, as Secretary of. (See Kramer, A. J., assignor.)

Air Reduction Company. (See Anderson, James L., assignor.)

Alden, Herbert W., Detroit, Mich., and B. W. Keese, Oshkosh, Wis., assignors to The Timken-Detroit Axle Company, Detroit, Mich. Drive axle. 2,351,590; June 20.

Alexander, Donald B., et al., trustees. (See Schmitt, Arthur J., assignor.)

Alexander, Peter P., Marblehead, Mass. Coating metal articles. 2,351,798; June 20.

Alien Property Custodian. (See Allerding, Alfred.)

Alien Property Custodian. (See Anschütz, Robert.)

Alien Property Custodian. (See Anschütz, R., and Merz.)

Alien Property Custodian. (See Anschütz, R., and Schmidt.)

Alien Property Custodian. (See Basler, Hermann.)

Alien Property Custodian. (See Braun, Richard.)

Alien Property Custodian. (See Bretiwieser, Heinrich.)

Alien Property Custodian. (See Brun, Oscar C.)

Alien Property Custodian. (See Büttner, Hugo.)

Alien Property Custodian. (See Carnauh, Boruk.)

Alien Property Custodian. (See Deckel, H. C., Maurer, and Stömmer.)

Alien Property Custodian. (See de Kramolin, Ladislas.)

Alien Property Custodian. (See Dreher, Emil.)

Alien Property Custodian. (See Dreyfus, Georges.)

Alien Property Custodian. (See Drossbach, O., Hopff, and Huttner.)

Alien Property Custodian. (See Dupuis, Jules.)

Alien Property Custodian. (See Dyckerhoff, W., and Wittekindt.)

Alien Property Custodian. (See Ebbers, M., Helbig and Mewes.)

Alien Property Custodian. (See Engler, Otto.)

Alien Property Custodian. (See Finzi Contini, Renato.)

Alien Property Custodian. (See Frank, Karl.)

Alien Property Custodian. (See Friz, Adolf.)

Alien Property Custodian. (See Gäbler, Johannes.)

Alien Property Custodian. (See Gernow, Aage.)

Alien Property Custodian. (See Graf, Anton.)

Alien Property Custodian. (See Grivetto, Michele.)

Alien Property Custodian. (See Habraschka, Bernhard.)

Alien Property Custodian. (See Hannöt, Gommaris F.)

Alien Property Custodian. (See Jansen, Max P. J. M.)

Alien Property Custodian. (See Johnsen, Birger.)

Alien Property Custodian. (See Kollmar, Max.)

Alien Property Custodian. (See Koppelmann, Floris.)

Alien Property Custodian. (See Koucký, Josef.)

Alien Property Custodian. (See Kronenberger, A., and Bartelt.)

Alien Property Custodian. (See Küppenbender, Heinz.)

Alien Property Custodian. (See Lamberti, Francesco.)

Alien Property Custodian. (See Lejeune, Emile J. A.)

Alien Property Custodian. (See Loeffler, Johannes.)

Alien Property Custodian. (See Mennesson, Marcel.)

Alien Property Custodian. (See Model, Wilhelm.)

Alien Property Custodian. (See Moschel, W., Forst, and Schmid.)

Alien Property Custodian. (See Müller, Eduard F.)

Alien Property Custodian. (See Nerwin, Hubert.)

Alien Property Custodian. (See Nógrády, Miklós.)

Alien Property Custodian. (See Poinsignon, Jean.)

Alien Property Custodian. (See Popov, Vladimir.)

Alien Property Custodian. (See Pott, August F.)

Alien Property Custodian. (See Rosický, Johann.)

Alien Property Custodian. (See Riedel, Walter.)

Alien Property Custodian. (See Rósa, L., and Zakariás.)

Alien Property Custodian. (See Rott, André.)

Alien Property Custodian. (See Scharpenberg, E., and Bönnhoff.)

Alien Property Custodian. (See Schat, Ane P.)

Alien Property Custodian. (See Scheuing, G., and Walach.)

Alien Property Custodian. (See Schubert, E., and Pierer.)

Alien Property Custodian. (See Schuller, A., and Tritsmans.)

Alien Property Custodian. (See Schüller, Eduard.)

Alien Property Custodian. (See Sebestyén, László.)

Alien Property Custodian. (See Smejkal, Villém.)

Alien Property Custodian. (See Steiner, Otto.)

Alien Property Custodian. (See Steube, Fritz.)

Alien Property Custodian. (See Strübig, Heinrich.)

Alien Property Custodian. (See Strübig, H., and Hass.)

Alien Property Custodian. (See Tauty, René.)

Alien Property Custodian. (See Tölke, Friedrich.)

Alien Property Custodian. (See Ungerer, Fritz.)

Alien Property Custodian. (See van den Berg, Walter.)

Alien Property Custodian. (See von Ardenne, Manfred.)

Alien Property Custodian. (See von den Steinen, Carl.)

Alien Property Custodian. (See von Opel, Fritz.)

Alien Property Custodian. (See von Viditz, Friedrich.)

Alien Property Custodian. (See Wegener, Gustav.)

Alien Property Custodian. (See Wendlandt, R., Hoffmann, and Füldner.)

Alien Property Custodian. (See Westerkamp, Hugo.)

Alien Property Custodian. (See Wilfert, K., and Barényi.)

Alien Property Custodian. (See Woog, Paul.)

Alien Property Custodian. (See Wulff, Siegried.)

Alien Property Custodian. (See Wüsteney, H., and Lolkes.)

Alien Property Custodian. (See Zenz, Wilhelm.)

Alien Property Custodian. (See Zerbe, Carl.)

Allardt, Ernst W., Parma, assignor to The Yoder Company, Cleveland, Ohio. Mechanism for coiling sheet material. 2,351,894; June 20.

Allen, Ellen B. (See Smith, Paul S., assignor.)

Allen, Russell G., Alton, Ill., assignor to Owens-Illinois Glass Company. Mold operating mechanism. 2,351,899; June 20.

Allerding, Alfred, Berlin-Friedrichshagen, Germany; vested in the Alien Property Custodian. Electron tube device for ultra short waves. 2,351,895; June 20.

Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)

Almond, John R., Cleveland, and H. R. Fitz Gerald, Rocky River, assignors to The Midland Steel Products Company, Cleveland, Ohio. Rotary valve. 2,351,732; June 20.

Alvey, Leroy E. (See Bullard, E. P., III, Alvey, and Mussler.)

American Can Company. (See Peterson, Howard B., assignor.)

American Cyanamid Company. (See Dean, R. T., and Hook, assignors.)

American Cyanamid Company. (See Northey, E. H., and Hultquist, assignors.)

American Dairies Incorporated, et al. (See Graham, William R., Jr., assignor.)

American Steel and Wire Company of New Jersey, The. (See Dentzer, C. J., Shurmer, and Vanek, assignors.)

American Viscose Corporation. (See Lodge, Alvin, assignor.)

Anderson, Arvid E., Cornwall, Pa., assignor to Bethlehem Steel Company. Washing of filter bags. 2,351,652; June 20.

Anderson, Axel H. (See Baum, A. F., and Anderson.)

Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Billet scarfing apparatus. 2,351,653; June 20.

Anderson, Rexford O., Tulsa, Okla. Draw works. 2,351,654; June 20.

Anschütz, Robert, Zella-Mehlis, Germany; vested in the Alien Property Custodian. Typewriting-calculating machine. 2,351,896; June 20.

Anschütz, Robert, and A. Merz, Zella-Mehlis, Germany; vested in the Alien Property Custodian. Typewriter-calculating machine. 2,351,897; June 20.

Anschütz, Robert, and F. Schmidt, Zella-Mehlis, Thuringia, Germany; vested in the Alien Property Custodian. Automatic printer lock for typewriting-accounting machines. 2,351,898; June 20.

Apfelbaum, Huna L., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Dispensing container. 2,352,066; June 20.

Armstrong, Adam E., assignor to Armstrong Machine Works, Three Rivers, Mich. Drier control and drainage means. 2,351,733; June 20.

Armstrong Cork Company. (See Elkin, T. W., Jr., and Stouffer, assignors.)

Armstrong Machine Works. (See Armstrong, Adam E., assignor.)

Arnold, Edwin E., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Grooved trolley wire splicer. 2,351,900; June 20.

Asinger, Friedrich. (See Herold, P., Smeykal, Asinger, and Wolf.)

Aske, Charles B., Jr., Detroit, Mich. Wheel trim and securing means therefor. 2,351,655; June 20.

Austin, Bascum O., Wapakoneta, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit controlling apparatus. 2,351,901; June 20.

Austin, Ellsworth W., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa. Bulldozer. 2,351,799; June 20.

Auten, Claude I., Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company. Folding door and support therefor. 2,351,656; June 20.

Automatic Electric Laboratories, Inc. (See Kessler, Frank, assignor.)

Automatic Products Company. (See Johnson, R. W., and Pawelsky, assignors.)

Automatic Pump & Softener Corporation. (See Whitlock, Fred W., assignor.)

Auto Research Corporation. (See Kocher, Edward H., assignor.)

Babb, Benjamin A. (See Hall, Roy F., assignor.)

Bach, Roy O., et al. (See Detjen, Robert L., assignor.)

Bach, Walter J., et al. (See Detjen, Robert L., assignor.)

Backe, John C., Corunna, Mich. Fishing rod. 2,351,734; June 20.

Bake, Louis S., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Quick curing neoprene cement. 2,351,735; June 20.

Baker, Benjamin P. (See Marbury, R. E., Ludwig, and Baker.)

Baker, Benjamin P., Turtle Creek, and H. J. Webb, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,351,903; June 20.

Baker, Rest R., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system for paper making apparatus. 2,351,902; June 20.

Balk, David, assignor to Superba Manufacturing Co., Inc., New York, N. Y. Transmitting mechanism. 2,351,591; June 20.

Ballinger, Jesse O., Batavia, and E. B. Worthington, Maywood, Ill.; said Worthington assignor to said Ballinger. Translator. 2,351,904; June 20.

Barber-Greene Company. (See Barber, Harry H., assignor.)

Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Tamper, screed, and deflector construction for road finishing machines. 2,351,592; June 20.

Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Screed construction for road finishing machines. 2,351,593; June 20.

Barényi, Béla. (See Wilfert, K., and Barényi.)

Barnes, W. F. and John, Company. (See Desenberg, Josef, assignor.)

Barr, Alan D., Tulsa, Okla. Towel. 2,352,067; June 20.

Barrett Bindery Co., The. (See Erickson, E. W., and Brauer, assignors.)

Bartelt, Fritz E. (See Kronenberger, A., and Bartelt.)

Basler, Hermann, Berlin-Dahlem, Germany; vested in the Alien Property Custodian. Distributing device. 2,351,905; June 20.

Bauer, Arthur G., Hempstead, assignor to South Shore Machine & Tool Works, Inc., Seaford, N. Y. Burring tool. 2,351,578; June 20.

Baum, Arthur F., and A. H. Anderson, assignors to Henry Weis Manufacturing Company, Inc., Elkhart, Ind. Hinge construction for swinging doors. 2,351,800; June 20.

Baumann, George F., West Allis, assignor to Pabst Brewing Company, Milwaukee, Wis. Bottle transfer for pasteurizers. 2,351,801; June 20.

Bausch & Lomb Optical Company. (See Benford, James R., assignor.)

Bausch & Lomb Optical Company. (See Eckert, Clarence J., assignor.)

Bausch & Lomb Optical Company. (See Flint, E. B., and Kurtz, assignors.)

Bayes, Alfred L., Kenmore, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Lubricant. 2,351,657; June 20.

Beatty, Elmer W., assignor of one-half to I. W. Millard, Danville, Ill. Finger guard. 2,351,906; June 20.

Beckman, Arnold O., Altadena, assignor to National Technical Laboratories, South Pasadena, Calif. Method and apparatus for proportioning. 2,351,579; June 20.

Beckman, Arnold O., Altadena, assignor to National Technical Laboratories, South Pasadena, Calif. Method and apparatus for proportioning. 2,351,580; June 20.

Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Excavating, loading, and dumping vehicle. 2,352,068; June 20.

Beede, Herbert G., Pawtucket, assignor to Pantex Pressing Machine, Inc., Central Falls, R. I. Apparatus for making colloidal starch suspensions. 2,351,907; June 20.

Beech, Louis, Long Meadow, Mass. High-pressure pump. 2,351,908; June 20.

Beers, George L., Haddonfield, N. J., assignor to Radio Corporation of America. Color television system. 2,351,760; June 20.

Beline, Walter E., Englewood, N. J. Distilling apparatus. 2,352,069; June 20.

Bell Aircraft Corporation. (See Woods, Robert J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bond, Walter L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bostwick, L. G., and King, assignors.)

Bell Telephone Laboratories, Incorporated. (See Davis, Kingsbury H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gray, Frank, assignor.)

Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Joel, Amos E., Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Thurber, Elmer A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Vaughan, Henry E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Wilson, Leon T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Zupa, Frank A., assignor.)

Bench, David E. (See Wintermute, G. J., and Bench.)

Bendix Aviation Corporation. (See Chappell, R. R., and Colt, assignors.)

Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Aviation Corporation. (See Kimball, Vernon R., assignor.)

Bendix Aviation Corporation. (See Noxon, Paul A., assignor.)

Bendix Aviation Corporation. (See Oliver, Wilbur C., 2nd, assignor.)

Benford, James R., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope illuminating device. 2,351,736; June 20.

Benger's Limited. (See Thornley, B. D., and Hilton, assignors.)

Beretish, William H., and T. A. Campbell, assignors to Stewart-Warner Corporation, Chicago, Ill. Lubricating apparatus. 2,351,909; June 20.

Bergin, William M., Granville, and A. L. Simison, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation. Mineral wool treating material. 2,351,802; June 20.

Berne-Allen, Allan, Jr., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of vinyl esters. 2,351,658; June 20.

Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,351,803; June 20.

Best Foods, Inc., The. (See Neal, Ralph H., assignor.)

Bethlehem Steel Company. (See Anderson, Arvid E., assignor.)

Bindschedler, Theodore S., Grosse Pointe, and C. K. Davis, Mount Clemens, assignors, by mesne assignments, to Magnetic Products Corporation, Detroit, Mich. Magnetic testing device. 2,351,595; June 20.

Black, Lawrence F., and C. H. Mellor, Denver, Colo. Electric crucible. 2,351,594; June 20.

Blankenbuehler, John H., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Arc voltage or arc length indicator. 2,351,910; June 20.

Bleher, William C. (See Knowland, T. M., and Bleher.)

Blum, Arthur N., Philadelphia, Pa. Saw. 2,351,737; June 20.

Blum, Arthur N., Philadelphia, Pa. Cutting chain. 2,351,738; June 20.

Blum, Arthur N., Philadelphia, Pa. Chain saw. 2,351,739; June 20.

Blum, Arthur N., Philadelphia, Pa. Chain saw. 2,351,740; June 20.

Blum, Jerome J., assignor to The Fibre Forming Corporation, Olean, N. Y. Container. 2,351,804; June 20.

Bock, Louis H., Huntingdon Valley, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. Stabilization of cellulosic fabrics with oxymethyl quaternary salts. 2,351,581; June 20.

Bock, Louis H., Huntingdon Valley, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. Polyalkylene polyaminomalonamide resins. 2,352,070; June 20.

Bock, Louis H., Huntingdon Valley, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. Aminoalkyl malonamide resins. 2,352,071; June 20.

Bohrer, George P., Union Township, Union County, assignor to Shaw Insulator Company, Irvington, N. J. Transfer molding press. 2,351,582; June 20.

Boissonou, Clifford J., Concord, and W. J. Yates, Martinez, assignors to Shell Development Company, San Francisco, Calif. Insecticidal composition. 2,351,583; June 20.

Bond, Walter L., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Conoscope. 2,352,072; June 20.

Bonnaire, Claud, London, England. Sheet to make blank, printed, or written envelopes and the like. 2,351,805; June 20.

Bönnhoff, Herbert. (See Scharpenberg, E., and Bönnhoff.)

Boonton Molding Company. (See Sayre, Gordon B., assignor.)

Booth, Sheldon M., Chicago, Ill. Mounting tools. 2,351,741; June 20.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Emulsion. 2,351,912; June 20.

Borland, James E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mine hoist control. 2,351,911; June 20.

Boston Woven Hose & Rubber Company. (See Knowland, T. M., and Bieher, assignors.)

Bostwick, Lee G., and J. H. King, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic delay device. 2,351,913; June 20.

Boucher, Charles P., Paterson, and F. A. Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C. Luminescent tube system and apparatus. 2,351,914; June 20.

Boucher, Charles P., Paterson, and F. A. Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washingon, D. C. Luminescent tube system and apparatus. 2,351,915; June 20.

Boucher, Charles P., Paterson, and F. A. Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C. Luminescent tube system and apparatus. 2,352,073; June 20.

Boucher Inventions, Ltd. (See Boucher, C. P., and Kuhl, assignors.)

Bowser, Theron L., and F. H. Slaymaker, assignors to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Three-dimensional crossbar switch system. 2,351,584; June 20.

Brauer, Rudoph E. (See Ericson, E. W., and Brauer.)

Braun, Richard, Stuttgart, Germany; vested in the Alien Property Custodian. Tool with hard metal cutting edge. 2,351,916; June 20.

Breitwieser, Heinrich, Griesheim, near Darmstadt, Germany; vested in the Alien Property Custodian. Device for navigating ships in locks. 2,351,917; June 20.

Brennan, Raymond F., Attleboro, Mass. Article for religious use. 2,351,918; June 20.

Brewster Aeronautical Corporation. (See Brown, D. T., and Layman, assignors.)

Brewster Aeronautical Corporation. (See Yujuico, P. S., and Thurston, assignors.)

Breyer, Frank G., Wilton, Conn., assignor to J. M. Huber, Inc., New York, N. Y. Thermofluid printing ink. 2,351,585; June 20.

Bright, Elvin M., Whitefish Bay, assignor to Plastic Veneering, Inc., Milwaukee, Wis. Coating wooden patterns. 2,351,919; June 20.

Brogden, Ernest M. and R. R., assignors to Duz-Pak Corporation, Savannah, Ga. Merchandise packaging. 2,351,596; June 20.

Brogden, Ronald R. (See Brogden, Ernest M. and R. R.)

Bronstien, Edward L., and J. G. Strandberg, assignors to The United States Bedding Company, St. Paul, Minn. Machine for fabricating upholstery springs. 2,351,659; June 20.

Brown, Dayton T., Manhasset, N. Y., and C. G. Layman, Red Bank, N. J., assignors to Brewster Aeronautical Corporation, Long Island City, N. Y. Aircraft. 2,352,074; June 20.

Brown, Hugh C. (See Short, I., and Brown.)

Brown Instrument Company, The. (See Jones, Harry S., assignor.)

Brown Instrument Company, The. (See Wills, Walter P., assignor.)

Brown, Thomas F. (See Dyer, L. W., and Brown.)

Browne, Harold B. (See Hughes, A. E., Browne, and Roderick.)

Brownstein, Henry J., assignor to Hysan Products Company, Chicago, Ill. Deodorant holder. 2,352,075; June 20.

Brun, Oscar C., Copenhagen, Denmark; vested in the Alien Property Custodian. Apparatus for measuring heat consumption. 2,351,920; June 20.

Buchanan, Michael K., Norfolk, Va. Flexible grid ice tray. 2,351,742; June 20.

Buckeye Traction Ditcher Company, The. (See Van Voorhis, William G., assignor.)

Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)

Bullard Company, The. (See Bullard, E. P., III, Alvey, and Mussler, assignors.)

Bullard, Edward P., III, Fairfield, L. E. Alvey, Bridgeport, and F. H. Mussler, Stratford, Conn., assignors to The Bullard Company. Machine tool. 2,351,921; June 20.

Burbridge, John. (See Jensen, William, assignor.)

Burgwin, Stephen L., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Treatment of silicon-iron alloys. 2,351,922; June 20.

Burlin, Leslie H., Valparaiso, Ind. Receptacle. 2,351,597; June 20.

Bushrod, Charles J., Prestwich, assignor to Magnesium Elektron Limited, London, England. Protection of magnesium and magnesium base alloys against corrosion. 2,352,076; June 20.

Büttner, Hugo, Wuppertal-Vohwinkel, Germany; vested in the Alien Property Custodian. Method and device for manufacturing spring-nets for mattresses, seat cushions, and the like. 2,351,923; June 20.

Cadman, Addi B., Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill. Electromagnetic friction device. 2,351,598; June 20.

California Institute Research Foundation. (See Stever, Horton G., assignor.)

Capewell Manufacturing Company, The. (See Morgan, Porter S., assignor.)

Campbell, Rouel R., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for ornamenting shoe uppers. 2,351,660; June 20.

Campbell, Thomas A. (See Beretish, W. H., and Campbell.)

Campbell, Willard S., Hampshire, Ill., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Cover and can handling device. 2,351,806; June 20.

Carbide and Carbon Chemicals Corporation. (See Bayes, Alfred L., assignor.)

Carborundum Company, The. (See Smith, Robert L., assignor.)

Cardwell, James R. (See Sproul, Donald F., assignor.)

Carnauh, Boruk, Paris, France; vested in the Alien Property Custodian. Disinfecting product and process for its manufacture and application. 2,351,924; June 20.

Carpenter, John C., assignor to Sears, Roebuck and Co., Chicago, Ill. Photographic enlarger. 2,351,599; June 20.

Carter, John W., and A. R. Rowe, McKeesport, Pa., assignors to National Tube Company. Regenerative soaking pit furnace. 2,351,661; June 20.

Caterpillar Tractor Co. (See Eberhard, Harmon S., assignor.)

Celanese Corporation of America. (See Whitehead, W., and Elvin, assignors.)

Central Fibre Products Company Inc. (See Limbert, John K., assignor.)

Champagne Paper Corporation. (See Straus, Harry H., assignor.)

Champion, William J. (See Levenhagen, A. J., and Champion.)

Chappell, Ralph R., Richmond, Va., and R. B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, New York, N. Y. Automatic fuse setting apparatus. 2,351,743; June 20.

Chernow, Michael, New York, N. Y. Jewelry clip. 2,351,925; June 20.

Cherry-Burrell Corporation. (See Campbell, Willard S., assignor.)

Chevigny, Paul G., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. High-frequency vacuum tube oscillator. 2,351,744; June 20.

Children's Hospital, The. (See Sabin, A. B., and Warren, assignors.)

Chown, Samuel R. (See Molins, D. W., Ruau, and Chown.)

Christofel, Donald L., East Cleveland, assignor to The Gabriel Company, Cleveland, Ohio. Shock absorber. 2,351,662; June 20.

Churchward, Martha S., et al. (See Gosch, Winkler C., assignor.)

Ciba Pharmaceutical Products, Incorporated. (See Miescher, K., Fischer, and Heer, assignors.)

Ciba Pharmaceutical Products, Incorporated. (See Ruzicka, L., and Goldberg, assignors.)

Clark, Edgar H., Kew Kardens, N. Y. Translating and recording device. 2,351,663; June 20.

Clark, Fred S., New York, N. Y., assignor to Ryan Jewelry Corporation. Diaper and shirt clasp. 2,352,147; June 20.

Clayton Manufacturing Company. (See Griswald, Donald G., assignor.)

Cleveland Crane & Engineering Company, The. (See Wehr, William G., assignor.)

Clough, Jerome L., Milwaukee, Wis. Coin controlled motion picture apparatus. 2,352,077; June 20.

Coates, Gilbert E., Laurens, Iowa. Hay rake and stacker. 2,351,926; June 20.

Cockerille, Frank O., Albermarle County, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of esters. 2,351,664; June 20.

Coffing, Frederick W., Danville, Ill. Convertible, multiple capacity, hoist chain structure. 2,351,665; June 20.

Cohen, Abraham L., Brooklyn, N. Y. Glass-lifting device. 2,351,666; June 20.

Coleman, Gerald H., and C. L. Moyle, assignors to The Dow Chemical Company, Midland, Mich. Insecticidal composition. 2,352,079; June 20.

Coleman, Gerald H., and C. L. Moyle, assignors to The Dow Chemical Company, Midland, Mich. Insecticidal composition. 2,352,078; June 20.

Coleman, Paul J. (See Gengler, Edwin J., assignor.)

Collings, William R., assignor to The Dow Chemical Company, Midland, Mich. Laminated sound record. 2,351,600; June 20.

Colt, Rutger B. (See Chappell, R. R., and Colt.)

Conmar Products Corporation. (See Ulrich, Frederick, assignor.)

Container Corporation of America. (See Desch, C., and Yomantas, assignors.)

Continental Can Company. (See Punte, William F., assignor.)

Coulson, Silas, Jackson Heights, N. Y. Apparatus for electroplating cylinders. 2,351,586; June 20.

Court, Frank T., assignor to Deere & Company, Moline, Ill. Corn harvester. 2,351,807; June 20.

Craig, Ollison, assignor to Riley Stoker Corporation, Worcester, Mass. Burner. 2,351,928; June 20.

Crowley, John A., Jr., Woodbury, N. J., and E. L. Sinclair, Philadelphia, Pa., assignors to Socony-Vacuum Oil Company, Incorporated. Bin level indicator. 2,352,080; June 20.

Crown Cork & Seal Company. (See Stewart, Robert J., assignor.)

Dabbs, Robert, Pittsburgh, Pa. Skid chain applier. 2,351,601; June 20.

Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)

D'Alello, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Condensation products of an aminotriazine, and aldehyde, and a halogenated amide. 2,351,602; June 20.

Dalmo Victor Co. (See Soule, Arthur H., assignor.)

Darwins Limited. (See Welbury, Stanley G., assignor.)

Davidson, Vernon D., and M. C. Wilson, Corpus Christi, Tex. Inside pipe cutter. 2,351,929; June 20.

Davis, Carl K. (See Bindschedler, T. S., and Davis).

Davis, Ernest W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Lubricating system. 2,351,930; June 20.

Davis, Kingsbury H., Bernardsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission control in two-way signal transmission systems. 2,351,661; June 20.

Dean, Russell T., Stamford, and E. O. Hook, Darien, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of succinic acids. 2,351,667; June 20.

Debs, Victor, New York, N. Y. Device for the three-dimensional representation of buildings and other physical objects. 2,351,931; June 20.

Deckel, Hans C., Munich-Solln., E. Maurer, and F. X. Stömmer, Munich, Germany; vested in the Alien Property Custodian. Shutter. 2,351,932; June 20.

Decker, William W., and C. G. Schnibben, Chicago, Ill. Transferring printed matter. 2,351,933; June 20.

Deere & Company. (See Court, Frank T., assignor.)

De Giers, Clarence A., Forest Hills, and A. Wickesser, St. Albans, assignors to The Liquidometer Corporation, Long Island City, N. Y. Heater control. 2,351,668; June 20.

De Kramolin, Ladislas, Berlin-Kladow, Germany; vested in the Alien Property Custodian. Selectivity apparatus. 2,351,934; June 20.

Dentzer, Carl J., Parma, G. W. Shurmer, Warrensville, and O. J. Vanek, Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey. Spooling apparatus. 2,351,669; June 20.

Derby, John H., Scarsdale, N. Y. Alarm circuits. 2,351,587; June 20.

De Rosa, Louis A., assignor to The National Cash Register Company, Dayton, Ohio. Frequency meter. 2,352,082; June 20.

Desch, Charles, Chicago, and W. Yomantas, Evergreen Park, assignors to Container Corporation of America, Chicago, Ill. Folding and gluing apparatus. 2,351,670; June 20.

Desenberg, Josef, assignor to W. F. and John Barnes Company, Rockford, Ill. Grinding and polishing machine. 2,352,146; June 20.

Detjen, Robert L., St. Louis, assignor, by mesne assignments, to V. R. Stamm, W. J., and R. O. Bach, St. Louis County, doing business as Fixture Products Co., St. Louis, Mo. Mold. 2,352,083; June 20.

Detroit Lubricator Company. (See Russel, Philip S., assignor.)

Devlin, Leo J., Los Angeles, H. W. Adams, Santa Monica, F. Landgraf, Los Angeles, and C. S. Glasgow, West Los Angeles, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Emergency braking device. 2,351,935; June 20.

Di Luglio, Frank, New Haven, Conn. Shirt. 2,352,084; June 20.

Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Reduction in reflection from glass. 2,352,085; June 20.

Ditto, Incorporated. (See Levenhagen, A. J., and Champion, assignors.)

Doehler Die Casting Company. (See Harrison, George, assignor.)

Dohrn, Max, Berlin-Charlottenburg, and O. Laubereau, Berlin-Neukolln, Germany, assignors to Schering Corporation, Bloomfield, N. J. Azo derivatives of sulphones and making the same. 2,351,936; June 20.

Donaldson, Robert R., Pittsburgh, assignor, to J. M. Hopwood, Mount Lebanon, Pa. Flowmeter. 2,351,745; June 20.

Douglas Aircraft Company. (See Devlin, L. J., Adams, Landgraf, and Glasgow, assignors.)

Dow Chemical Company, The. (See Coleman, G. H., and Moyle, assignors.)

Dow Chemical Company, The. (See Collings, William R., assignor.)

Dreher, Emil, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Manufacture of resites. 2,351,937; June 20.

Dreisbach, Charles A., assignor to Standard Radial Blast Corporation, Yonkers, N. Y. Scouring chamber for metal-scouring machines. 2,351,671; June 20.

Dreyfus, Georges, Mountauban, France; vested in the Alien Property Custodian. Parachute belt. 2,351,938; June 20.

Driehaus, Herman W., assignor to Goodman Manufacturing Company, Chicago, Ill. Power transmission device. 2,351,746; June 20.

Drossbach, Otto, H. Hopff, and K. Huttner, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Producing lactams. 2,351,939; June 20.

Drumheller, G. H. Jr., et al. (See Marsh, Jack C., assignor.)

Dryden Rubber Company. (See Kelly, J. H., Jr., and Stern, assignors.)

Du Pont, E. I., de Nemours & Company. (See Bake, Louis S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Berne-Allen, Allan, Jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Cockerille, Frank O., assignor.)

Du Pont, E. I., de Nemours & Company. (See Fox, Arthur L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Schweikher, Ernest W., assignor.)

Dupuis, Jules, Huyssinghen, Belgium; vested in the Alien Property Custodian. Making plated articles. 2,351,940; June 20.

Dus Pak Corporation. (See Brogden, E. M., and R. R., assignors.)

Dutchess Tool Company. (See Seem, Charles B., assignor.)

Dyckerhoff, Walter, Mainz-Amoneburg, and W. Wittekindt, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian. Producing alumina. 2,351,941; June 20.

Dyer, Lloyd W., Wilkinsburg, and T. F. Brown, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Panel board construction. 2,351,942; June 20.

Eaton, George R., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. 2,351,808; June 20.

Eaton Manufacturing Company. (See Wallace, William H., assignor.)

Ebbers, Mainolf, Nordhorn, Grafschaft Bentheim, and A. Helbig and H. Mewes, Berlin, Germany; vested in the Alien Property Custodian. Dental unit. 2,351,943; June 20.

Eberhard, Harmon S., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Final drive housing for combat vehicles. 2,352,086; June 20.

Eckert, Clarence J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical instrument. 2,351,747; June 20.

Edgerton, Harold E., Belmont, Mass. Condenser-discharge electric system. 2,351,603; June 20.

Edwards, William F. M., Esher, assignor to Filter Tips Limited, London, England. Manufacture of cigarettes. 2,351,748; June 20.

Electric Controller & Manufacturing Company, The. (See Wright, David C., assignor.)

Elkin, Thomas W. Jr., Lancaster, and H. C. Stouffer, Manheim Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Shoe and shoe product. 2,352,148; June 20.

Elmer, Walter S., Portland, Oreg. Child holder for car seats. 2,351,749; June 20.

Elvin, William J. (See Whitehead, W., and Elvin.)

Engel, William F., Berea, Ohio. Valve mechanism. 2,351,672; June 20.

Engler, Otto, Lubeck, Germany; vested in the Alien Property Custodian. Magnetic testing method. 2,351,944; June 20.

Ericson, Elmer W., Chicago, and R. E. Brauer, Riverside, assignors to The Barrett Bindery Co., Chicago, Ill. Display device. 2,352,087; June 20.

Erikson, John, De Kalk, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Accordion case. 2,351,673; June 20.

Evans, Harry L., Newport, R. I., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass. Sheet feeding mechanism. 2,352,088; June 20.

Ex-Cell-O Corporation. (See Hoffer, James F., assignor.)

Exner, Donald W., and O. C. Walley, Lima, Ohio., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit controlling apparatus. 2,351,945; June 20.

Fagerlund, Arthur, Brooklyn, N. Y. Windmill control. 2,352,089; June 20.

Fairbanks, Morse & Co. (See Vogel, Edward A., assignor.)

Faller, James, New York, N. Y. Folding chair. 2,352,090; June 20.
Farnham, Myrlon A., et al. (See Gosch, Winkler C., assignor.)
Fawkes, Donald G., Chicago, Ill. Propulsion means for naval torpedoes. 2,351,750; June 20.
Fay, Joseph H., Hempstead, N. Y. Protective mask. 2,351,752; June 20.
Federal Telephone and Radio Corporation. (See Chevigny, Paul G., assignor.)
Fedorchak, William J., Granite City, and A. S. Jackson, Wood River, Ill., assignors to Owens-Illinois Glass Company. Apparatus for gauging glassware. 2,352,091; June 20.
Ferrari, Charles G., Minneapolis, and W. S. Hutchinson, St. Paul, Minn., assignors to General Mills, Inc. Multiple flour bleaching process. 2,351,809; June 20.
Ferrill, Thomas M., Jr., Mineola, N. Y., assignor to National Company, Inc., Malden, Mass. Inductance coil. 2,351,604; June 20.
Fibre Forming Corporation, The. (See Blum, Jerome J., assignor.)
Fields, Charles V. (See Ludwig, L. R., and Fields.)
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Oscillating code transmitter. 2,351,588; June 20.
Filter Tips Limited. (See Edwards, William F. M., assignor.)
Finzi Contini, Renato, Milan, Italy; vested in the Alien Property Custodian. Cross strip insulating structure for concentric cables. 2,351,927; June 20.
Fischer, Werner. (See Miescher, K., Fischer, and Heer.)
Fitz Gerald, Harold R. (See Almond, J. R., and Fitz Gerald.)
Fitzgerald, James J., Pittsburgh, Pa. Game. 2,351,810; June 20.
Fixture Products Co. (See Detjen, Robert L., assignor.)
Flint, Edward F., and H. F. Kurtz, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Photographic apparatus. 2,351,753; June 20.
Flush Hydrant Corp. (See Scott, Carlyle H. and P. H., assignors.)
Ford Motor Company. (See McGowen, Llewellyn P., assignor.)
Foresman, Robert A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Stoker apparatus. 2,352,092; June 20.
Forst, Willi. (See Moschel, W., Forst, and Schmid.)
Fox, Arthur L., Easton, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing sulphonyl chlorides. 2,351,674; June 20.
Frank, Karl, Bad Soden in Taunus, Germany; vested in the Alien Property Custodian. Preparing fritted foundations for the enamelling of metallic articles. 2,351,811; June 20.
Frey, Charles N. (See Gore, H. C., and Frey.)
Friday, Paul D., Portland, Oreg. Packing tray. 2,351,754; June 20.
Friz, Adolf, Stuttgart-Bad Cannstat, Germany; vested in the Alien Property Custodian. Apparatus for joining veneers. 2,351,946; June 20.
Fruin, Charles E., and J. C., Chicago, Ill. Dispenser. 2,351,751; June 20.
Fruin, James C. (See Fruin, Charles E. and J. C.)
Füldner, Hans. (See Wendlandt, R., Hoffmann, and Füldner.)
Gäbler, Johannes, Stuttgart-Unterturkheim, Germany; vested in the Alien Property Custodian. Aerial for motor vehicles. 2,351,947; June 20.
Gabriel Company, The. (See Christofel, Donald L., assignor.)
Gardner-Richardson Company, The. (See Ringler, William A., assignor.)
Gautier, Trevor R., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Strip dispenser and moistening means for same. 2,352,149; June 20.
Gautier, Trevor R., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Tape dispensing apparatus and mostening means therefor. 2,352,150; June 20.
Gay, Paul S., assignor to The Wilcox-Gay Corporation, Charlotte, Mich. Sound recording and reproducing apparatus. 2,351,948; June 20.
General Aniline & Film Corporation. (See Herold, P., Smeykal, Asinger, and Wolf., assignors.)
General Electric Company. (See D'Alello, Gaetano F., assignor.)
General Electric Company. (See Hottenroth, Frederick W., Jr., assignor.)
General Electric Company. (See Karash, W. J., and Lemmers, assignors.)
General Electric Company. (See Morrill, Wayne J., assignor.)
General Electric Company. (See Weaver, Virgil L., assignor.)
General Mills, Inc. (See Ferrari, C. G., and Hutchinson, assignors.)
General Railway Signal Company. (See Field, Oscar S., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Steel Castings Corporation. (See Travilla, James C., Jr., assignor.)
General Steel Castings Corporation. (See Travilla, J. C., Jr., and Jackson, assignors.)
Gengler, Edwin J., Milwaukee, Wis., assignor to P. J. Coleman, Highland Park, Ill. Milking timer. 2,351,675; June 20.
Georgi, Edmund A., assignor to Hercules Powder Company, Wilmington, Del. Heat-treated rosin size. 2,351,949; June 20.
Gernow, Aage, Copenhagen, Denmark; vested in the Alien Property Custodian. Preserving vegetables, fruits, and similar vegetable food by drying and briquetting. 2,351,950; June 20.
Gettelman, Fredrick, Milwaukee, Wis. Road icebreaker. 2,351,755; June 20.
Gibson, Robert C., assignor to Parker Rust Proof Company, Detroit, Mich. Metal treatment. 2,351,605; June 20.
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Glasgow, Charles S. (See Devlin, L. J., Adams. Landgraf, and Glasgow.)
Gleitz, Herbert, assignor to Marquette Metal Products Company, Cleveland, Ohio. Spindle for textile mill use. 2,351,951; June 20.
Gluck, Fred S., New York, N. Y., assignor, by mesne assignments, to Waldorf Knitting Company. Knitting gloves and the like. 2,351,756; June 20.
Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,351,952; June 20.
Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,351,953; June 20.
Gold, Allan R., and C. J. Heinisch, Chicago, Ill. Weight indicating means. 2,351,606; June 20.
Goldberg, Moses W. (See Ruzicka, L., and Goldberg.)
Goodfriend, Irving F. (See Holtzman, John, assignor.)
Goodman Manufacturing Company. (See Driehaus, Herman W., assignor.)
Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Eyelet setting tool. 2,352,093; June 20.
Gore, Herbert C., and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Enzymic process. 2,351,954; June 20.
Gosch, Winkler C., Hamden, assignor of one-half to M. S. Churchward, and one-half to M. A. Farnham, New Haven, Conn. Electrode holder. 2,351,852; June 20.
Graf, Anton, Berlin-Steglitz, Germany; vested in the Alien Property Custodian. Gravity meter. 2,351,955; June 20.
Graham, Wallace S., Lancaster, Ohio. Semi-automatic operating device for garment presses. 2,351,956; June 20.
Graham, William R., Jr., Kansas City, Kans., assignor to American Dairies Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Apparatus for preserving organic materials. 2,351,853; June 20.
Grandjean, Leon H., E. P. Le Vasseur, and S. N. Prats, New Orleans, La. Vertical dehydrator. 2,351,676; June 20.
Grant, Harry C., Jr., New York, N. Y., and A. Manhartsberger, assignors to Specialties Development Corporation, Bloomfield, N. J. Impact actuator. 2,351,607; June 20.
Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,351,757; June 20.
Green, Isaac H. C., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric and making the same. 2,351,758; June 20.
Greenwood, Talma T., Boston, assignor to Superior Manufacturing Company, Fitchburg, Mass. Staple and making the same. 2,351,608; June 20.
Grenot, Leo D. (See Talley, S. K., and Grenot.)
Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Adjustable injector. 2,352,094; June 20.
Grivetto, Michele, Turin, Italy; vested in the Alien Property Custodian. Saddle support for cycles. 2,351,957; June 20.
Grotnes, Carl C., Park Ridge, Ill. Metalworking machine. 2,352,095; June 20.
Grundmann, Gustave L., Westmont, N. J., assignor to Radio Corporation of America. Motor speed control. 2,351,759; June 20.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Package. 2,351,812; June 20.
Gygi, Hans, Wildegg, Switzerland. Plant for treating raw materials in the manufacture of cement and the like. 2,351,677; June 20.
Habraschka, Bernhard, Hamburg, Germany; vested in the Alien Property Custodian. Production of hardenable orthocresol aldehyde condensates. 2,351,958; June 20.
Haensel, Vladimir, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of hydrocarbons. 2,351,609; June 20.
Hall, Robert G., San Francisco, Calif. Recovery of tungsten from its ores. 2,351,678; June 20.
Hall, Roy F., assignor to B. A. Babb, Kansas City, Mo. Sheet feeding apparatus. 2,351,854; June 20.
Halvorson, Halvor O. (See Hills, C. H., and Halvorson.)

Hamburg, William A, U. S. Army, Oklahoma City, Okla. Combined cabinet, desk, and table. 2,351,610; June 20.
Hammond, Thomas A., Minneapolis, Minn. Lifting jack with extendable leg structure. 2,351,611; June 20.
Hanna, John C., assignor to Hanna Engineering Works, Chicago, Ill. Hydraulic accumulator. 2,351,761; June 20.
Hanna Engineering Works. (See Hanna, John C., assignor.)
Hanna, William T., Cincinnati, Ohio. Stoker. 2,351,959; June 20.
Hanna, William T., Cincinnati, Ohio. Coal distributing apparatus for stokers. 2,351,960; June 20.
Hannôt, Gommaris F., Rotterdam, Netherlands; vested in the Alien Property Custodian. Frost resistant microporous product. 2,351,961; June 20.
Hanson-Van Winkle-Munning Company. (See Hogaboom, George B., assignor.)
Harris, Waldo, Lima, Peru. Supporting stand. 2,351,679; June 20.
Harris, Watt E., Houston, Tex. Ceramic bubble cap. 2,351,855; June 20.
Harrison, George, Batavia, assignor to Doehler Die Casting Company, New York, N. Y. Rod-handling machinery. 2,351,962; June 20.
Harshaw Chemical Company, The. (See Hay, John O., assignor.)
Hartman, Clarence F. (See Parry, R. D., and Hartman.)
Harvey, Leo M. (See Morrison, Jess S., assignor.)
Hass, Walter. (See Strübig, H., and Hass.)
Hatton, Mabel H., Beverly Hills, Calif. Brassière garment. 2,351,680; June 20.
Haug, Eugene H., assignor to La Salle National Bank, Chicago, Ill., trustee. Constant current control. 2,351,681; June 20.
Hawley, John F., Riverside, Ill. Printing press. 2,351,612; June 20.
Hay, John O., Cleveland Heights, assignor to The Harshaw Chemical Company, Elyria, Ohio. Separation of copper from other metals. 2,352,096; June 20.
Hayes, Charles T., York House, Worcester, England, assignor to M. P. Winther, trustee, Waukegan, Ill. Electromagnetic apparatus. 2,351,963; June 20.
Heer, Jules. (See Miescher, K., Fischer, and Heer.)
Heinisch, Carl J. (See Gold, A. R., and Heinisch.)
Helbig, Adolf. (See Ebbers, M., Helbig, and Mewes.)
Hemphill Company. (See Green, Isaac H. C., assignor.)
Henderson, Albert, Edgewood, assignor to W. P. Witherow, Pittsburgh, Pa. Panel-wall building construction. 2,351,856; June 20.
Hendry, Norman, London, and J. A. Laird, Coventry, assignors to Joseph Lucas Limited, Birmingham, England. Distributor for high-tension ignition apparatus. 2,351,682; June 20.
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Georgi, Edmund A., assignor.)
Hercules Powder Company. (See Rummelsburg, Alfred L., assignor.)
Herold, Paul, K. Smeykal, F. Asinger, and W. Wolf, Leuna, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Production of organic compounds containing sulphur, chlorine, and oxygen. 2,352,097; June 20.
Hess, Willy, New York, N. Y. Footwear. 2,352,098; June 20.
Hill, Charles F., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Filling compound for insulating conductors. 2,351,964; June 20.
Hills, Claude H., Arlington, Va., and H. O. Halvorson, St. Paul, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Meat process and product. 2,351,614; June 20.
Hilton, Stanley. (See Thornley, B. D., and Hilton.)
Hobdell, George E., Upper Darby, Pa. Tissue filler. 2,352,099; June 20.
Hoffer, James F., assignor to Ex-Cell-O Corporation, Detroit, Mich. Nozzle. 2,351,965; June 20.
Hoffman, Rudolph. (See Mattinson, F. W., and Hoffman.)
Hoffmann, Gerhard. (See Wendlandt, R., Hoffmann, and Füldner.)
Hogaboom, George B., New Britain, Conn., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Nickel depositing bath and method. 2,351,966; June 20.
Holden, William H. T., Woodside, assignor to Bell Telophone Laboratories, Incorporated, New York, N. Y. Selector switch. 2,351,967; June 20.
Holmes, Minot K., Muncie, Ind., assignor to Owens-Illinois Glass Company. Insulator. 2,352,151; June 20.
Holtzman, John, New York, N. Y., assignor of one-half to I. F. Goodfriend. Sharpening device. 2,351,813; June 20.
Holzner, Adolf, Merrick, N. Y. Cyclometer clock. 2,351,814; June 20.
Hook, Edwin O. (See Dean, R. T., and Hook.)
Hoover, Frank M., Youngstown, Ohio. Toy. 2,351,762; June 20.
Hopff, Heinrich. (See Drossbach, O., Hopff, and Huttner.)
Hopkins, David W., Philadelphia, Pa. Three-way valve. 2,351,613; June 20.
Hopwood, John M. (See Donaldson, Robert R., assignor.)
Hornung, Anton N., Los Angeles, Calif. Store shelving display facing. 2,352,100; June 20.
Hottenroth, Frederick W., Jr., Schenectady, N. Y., assignor to General Electric Company. Refrigerator control device. 2,351,968; June 20.
Houdaille-Hershey Corporation. (See Sandberg, Ray A., assignor.)
Houk, Alva L. (See Bock, L. H., and Houk.)
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Highway crossing gate for railroads. 2,351,857; June 20.
Hughes, Ausker E., Wyandotte, H. B. Browne, Trenton, and H. F. Roderick, Grosse Ile, assignors, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Manufacture of calcium carbonate-adhesive coatings. 2,351,683; June 20.
Huber, J. M., Inc. (See Breyer, Frank G., assignor.)
Hull, Carl M., assignor to Standard Oil Company, Chicago, Ill. Preparation of mercaptans. 2,351,763; June 20.
Hultquist, Martin E. (See Northey, E. H., and Hultquist.)
Hunter, Frank B. (See Wood, W. G., and Hunter.)
Hurst, Robert O., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device for electrical apparatus. 2,351,969; June 20.
Hutchinson, Willis S. (See Ferrari, C. G., and Hutchinson.)
Huttner, Karl. (See Drossbach, O., Hopff, and Huttner.)
Hutter, William H., Chicago, Ill. Pilot trainer. 2,352,101; June 20.
Hysan Products Company. (See Brownstein, Henry J., assignor.)
Illinois Tool Works. (See Poupitch, Ougljesa J., assignor.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Ingalls, David, Westfield, N. J., assignor to Titeflex, Inc. Securing clamp. 2,351,858; June 20.
International Mutoscope Corporation. (See Rabkin, W., and Newman, assignors.)
International Standard Electric Corporation. (See Lee, Edwin C., assignor.)
Interstate Vending Machine Company of St. Louis. (See Niewoehner, Fred, assignor.)
Jackson, Albert S. (See Fedorchak, W. J., and Jackson.)
Jackson, Edwin C. (See Travilla, J. C., Jr., and Jackson.)
James, Robert M., Buffalo, N. Y. Building construction. 2,351,615; June 20.
Jansen, Max P. J. M., Amsterdam, Netherlands; vested in the Alien Property Custodian. Separation of yeast from yeast suspensions. 2,351,970; June 20.
Jansson, Sven A., Stockholm, Sweden. Electric-remote control system. 2,351,684; June 20.
Jarrett, Henry U., Palestine, assignor of one-half to W. O. Whiteside, Longview, Tex. Obtaining and measuring gaseous samples. 2,351,764; June 20.
Jeffery, Benjamin A., Clarkston, Mich., assignor of one-half to S. H. Lilly, Toledo, Ohio. Reducing ores and forming sponge metals and alloys. 2,351,765; June 20.
Jeffrey Manufacturing Company, The. (See Lattig, Charles I., assignor.)
Jensen, William, Delavan, assignor to J. Burbridge, Kenosha, Wis. Drill container. 2,351,815; June 20.
Joel, Amos E., Jr., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,351,766; June 20.
Johns, Harry F., Kansas City, Mo., assignor to V. V. Johns. Renewable fuse plug. 2,351,816; June 20.
Johns-Manville Corporation. (See Miles, W. S., and Voigt, assignors.)
Johns, Velma V. (See Johns, Harry F., assignor.)
Johnsen, Birger, Sandnes, near Stavanger, Norway; vested in the Alien Property Custodian. Opening tins and other containers. 2,351,971; June 20.
Johnson, Carl G., Chicago, Ill., assignor to J. P. Seeburg Corporation. Automatic phonograph. 2,351,972; June 20.
Johnson, Frederick B. (See Wahl, A. M., and Johnson.)
Johnson, James P., Shaker Heights, Ohio. Fuel pump. 2,351,817; June 20.
Johnson, John H., Toronto, Ontario, Canada. Sanitary rubber sheet. 2,351,767; June 20.
Johnson, Roy W., and V. R. Pawelsky, assignors to Automatic Products Company, Milwaukee, Wis. Oil and air control mechanism for burners. 2,351,973; June 20.
Johnston, James G., Evanston, Ill., assignor to The Warren Featherbone Co., Three Oaks, Mich. Garment bag. 2,352,102; June 20.
Jones, Cecil E., Lima, Ohio. Controllable truck lock for crawler tractors. 2,351,685; June 20.
Jones, Harry S., Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,352,103; June 20.
Joyce, Inc. (See Joyce, William H., Jr., assignor.)
Joyce, William H., Jr., assignor to Joyce, Inc., Pasadena, Calif. Shoe or similar article. 2,351,818; June 20.

Judell, Julius S., Shorewood, assignor to Milwaukee Flush Valve Company, Milwaukee, Wis. Shower head. 2,351,819; June 20.

Kaiser, Robert A., Flushing Heights, N. Y., assignor to Republic Aviation Corporation. Aircraft canopy. 2,351,859; June 20.

Kaping, Rudolph G., Libertyville, Ill. Building and building block therefor. 2,351,768; June 20.

Kaplan, Saul, Rutherford, assignor to The Richards Chemical Works, Jersey City, N. J. Oxazolidine compounds. 2,352,152; June 20.

Karash, Walter J., Annapolis, Md., and E. Lemmers, Cleveland Heights, Ohio, assignors to General Electric Company. Electric discharge device. 2,351,616; June 20.

Katcher, Morris, New York, N. Y. Steering gear for automobiles and the like. 2,351,617; June 20.

Katz, David, assignor to The Scriptoscope Company, Wilmington, Del. Lecture and projection desk of the scriptoscope type. 2,351,618; June 20.

Keese, Beverly W. (See Alden, H. W., and Keese.)

Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Steel house construction. 2,351,820; June 20.

Kellogg Switchboard and Supply Company. (See Eaton, George R., assignor.)

Kelly, John H., Jr., and M. M. Stern, assignors to Dryden Rubber Company, Chicago, Ill. Rubber composition and making same. 2,351,860; June 20.

Kennedy, James A., Ann Arbor Township, Washtenaw County, Mich. Control system for motor vehicles. 2,352,104; June 20.

Kent, Frederick J., Glen Rock, assignor to Sipp-Eastwood Corporation, Paterson, N. J. Lapping machine. 2,352,105; June 20.

Kesner, Michael L., Chicago, Ill. Furniture construction. 2,352,106; June 20.

Kessler, Frank, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc. Telephone system. 2,352,107; June 20.

Kilborn-Sauer Company, The. (See Sauer, Henry J., assignor.)

Killefer Manufacturing Corporation. (See Mitchell, R. H., and McKay, assignors.)

Kimball, Vernon R., Maywood, assignor to Bendix Aviation Corporation, Bendix, N. J. Gyro erecting mechanism. 2,351,619; June 20.

King, John H. (See Bostwick, L. G., and King.)

Knowland, Thomas M., Belmont, and W. C. Bleher, Boston, assignors to Boston Woven Hose & Rubber Company, Cambridge, Mass. Vulcanizing method and apparatus. 2,351,861; June 20.

Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Hydraulically operated machine tool. 2,351,620; June 20.

Koehring Company. (See Beckwith, Raymond A., assignor.)

Koenig, Bernard R., Westgate Hills, assignor to Prodesco Incorporated, Philadelphia, Pa. Device for measuring thickness of objects. 2,351,770; June 20.

Kohl, Otto A., Cedar Rapids, Iowa. Preventing the spread of disease. 2,351,686; June 20.

Kollmar Max, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Production of silver preparation. 2,351,974; June 20.

Koppelmann, Floris, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian. Apparatus for interrupting alternating currents. 2,351,975; June 20.

Koucký, Josef, Brunn, Bohemia; vested in the Alien Property Custodian. Automatic firearm. 2,351,976; June 20.

Kramer, Albert J., Arlington, Va., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Plotting instrument. 2,351,769; June 20.

Kronenberger, Adam, and F. E. Bartelt, Berlin, Germany; vested in the Alien Property Custodian. Automatic aircraft steering device. 2,351,977; June 20.

Kuhl, Frederick A. (See Boucher, C. P., and Kuhl.)

Küppenbender, Heinz, Dresden, Germany; vested in the Alien Property Custodian. Photographic camera. 2,351,978; June 20.

Kurtz, Henry F. (See Flint, E. F., and Kurtz.)

La-Del Conveyor & Manufacturing Company. (See Troller, Theodor H., assignor.)

Laird, John A. (See Hendry, N., and Laird.)

Lamberti, Francesco, Genoa, Italy; vested in the Alien Property Custodian. Lifesaving and exploring device for submerged submarine vessels. 2,351,979; June 20.

Landgraf, Fred. (See Devlin, L. J., Adams, Landgraf, and Glasgow.)

Lange, Max E., Cleveland Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,351,687; June 20.

LaPlant-Choate Mfg. Co. (See Austin, Ellsworth W., assignor.)

Larson, John V., Chicago, Ill. Hand tool. 2,351,821; June 20.

LaSalle National Bank, trustee. (See Haug, Eugene H., assignor.)

Lattig, Charles I., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer. 2,351,771; June 20.

Lattig, Charles I., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer. 2,351,862; June 20.

Laubereau, Otto. (See Dohrn, M., and Laubereau.)

Lauterbach, Norman E., Newark, N. Y. Display device. 2,351,822; June 20.

LaVine, Louis, Burbank, Calif. Powdered prune compound and making the same. 2,352,108; June 20.

Layman, Charles G. (See Brown, D. T., and Layman.)

Leary, Harry B., Jr., Chevy Chase, Md. Fluid transmission device. 2,352,109; June 20.

Lee, Edwin C., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Extrusion apparatus. 2,351,688; June 20.

Lee, Reuben, Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage stabilizer. 2,351,980; June 20.

Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Pop gun. 2,351,823; June 20.

Lejeune, Emile J. A., Paris, France; vested in the Alien Property Custodian. Device for the manufacture of gas masks. 2,351,981; June 20.

Lemmers, Eugene. (See Karash, W. J., and Lemmers.)

Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical inverter. 2,351,982; June 20.

Leonard, Merrill G., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device having electrical resetting. 2,351,983; June 20.

Leonard, Merrill G., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device for electrical apparatus. 2,351,984; June 20.

Letendre, Milton A., Minneapolis, Minn. Making ring settings. 2,351,689; June 20.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Le Tourneau, R. G., Inc. (See Peterson, O. R., and Stevens, assignors.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Cable operated press. 2,351,824; June 20.

Leufvenius, Karl J. G. (See Sperzel, P. J., and Leufvenius.)

Le Vasseur, Edward P. (See Grandjean, L. H., Le Vasseur, and Prats.)

Levenhagen, Arthur J., and W. J. Champion, assignors to Ditto, Incorporated, Chicago, Ill. Duplicating. 2,351,863; June 20.

Light, George G., Kew Gardens, assignor to The Western Union Telegraph Company, New York, N. Y. Printing telegraph exchange system. 2,351,621; June 20.

Lilly, Scott H. (See Jeffery, Benjamin A., assignor.)

Limbert, John K., Waterloo, assignor to Central Fibre Products Company Inc., Chicago, Ill. Shipping case. 2,351,825; June 20.

Lindell, Sigurd I., and A. Van Ryan, assignors to Schweitzer & Conrad, Inc., Chicago, Ill. Switch construction. 2,351,826; June 20.

Linderman, Garrett B., Jr., Hagerstown, Md. Dust collector. 2,351,864; June 20.

Liquidometer Corporation, The. (See de Giers, C. A., and Wickesser, assignors.)

Lockheed Aircraft Corporation. (See McClain, Thomas H., assignor.)

Lockheed Aircraft Corporation. (See Wood, W. G., and Hunter, assignors.)

Lodge, Alvin, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning machine. 2,351,772; June 20.

Loeffler, Johannes, Berlin-Dahlem, Germany; vested in the Alien Property Custodian. Production of cadmium red. 2,351,985; June 20.

Lolkes, Erich. (See Wüsteney, H., and Lolkes.)

Los Angeles, Chemical Co. (See Wood, Charles D., assignor.)

Lovenston, Hans J., Detroit, Mich. Device for determining angles. 2,351,773; June 20.

Lucas, Joseph, Limited. (See Hendry, N., and Laird, assignors.)

Lucas, Joseph, Limited. (See Lucas, Oliver, assignor.)

Lucas, Oliver, assignor to Joseph Lucas Limited, Birmingham, England. Electric horn. 2,351,690; June 20.

Ludwig, Leon R. (See Marbury, R. E., Ludwig, and Baker.)

Ludwig, Leon R., Forest Hills, and C. V. Fields, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Series capacitor protective device. 2,351,986; June 20.

Lynch Manufacturing Corporation. (See Sandberg, Oscar, assignor.)

Lynn, Clarence, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heat-treating. 2,351,987; June 20.

Magnesium Elektron Limited. (See Bushrod, Charles J., assignor.)

Magnetic Products Corporation. (See Bindschedler, T. S., and Davis, assignors.)

Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Fuel burner system. 2,351,622; June 20.

Manhartsberger, Albert. (See Grant, H. C., Jr., and Manhartsberger.)

Mannion, John F., et al., trustees. (See Schmitt, Arthur J., assignor.)

Mansir, Arthur J., Camden, Ark. Lumber puller. 2,351,691; June 20.

Marbury, Ralph E., and L. R. Ludwig, Wilkinsburg, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Series capacitor protection. 2,351,988; June 20.

Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Series capacitor protection. 2,351,989; June 20.

Marquette Metal Products Company. (See Gleitz, Herbert, assignor.)

Marsh, Jack C., Pittsburgh, assignor to G. L. Meyers and G. H. Drumheller, Jr., Aspinwall, Pa. Surgical pump. 2,351,828; June 20.

Martin Brothers Electric Company, The. (See Martin, Wendell L., assignor.)

Martin, Wendell L., Shaker Heights, assignor to The Martin Brothers Electric Company, Cleveland, Ohio. Oscillating electric motor. 2,351,623; June 20.

Matejcik, Edward J., and W. J. Peppers, Detroit, Mich. Milling machine attachment. 2,352,110; June 20.

Matlock, Harold C., Bridgeport, Conn., assignor to United States Rubber Company, New York, N. Y. Conveying apparatus. 2,351,990; June 20.

Mattinson, Frank W., and R. Hoffman, assignors to Skenandoa Rayon Corporation, Utica, N. Y. Treatment of rayon yarn. 2,351,865; June 20.

Maurer, Eduard. (See Deckel, H. C., Maurer, and Stömmer.)

Mavity, Julian M., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,351,624; June 20.

McAllister, Joseph S., Ann Arbor, Mich. Cutting tool. 2,351,827; June 20.

McClain, Thomas H., Altadena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Transparent closure and mounting. 2,351,991; June 20.

McGowen, Llewellyn P., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Plastic injection machine. 2,351,774; June 20.

McKay, William R. (See Mitchell, R. H., and McKay.)

McKnight, J. C., et al. (See Prather, A. P., and Russell, assignors.)

McMurry, Paul E., assignor of forty per cent to A. F. Walter, St. Joseph, Mo. Gate valve. 2,351,775; June 20.

Mellor, Clarence H. (See Black, L. F., and Mellor.)

Mennesson, Marcel, Nice-Mount Boron, France; vested in the Alien Property Custodian. Auxiliary device adapted to drive light vehicles. 2,351,992; June 20.

Merz, August. (See Anschütz, R., and Merz.)

Mewes, Hans. (See Ebbers, M., Helbig, and Mewes.)

Meyer, Harvey E., Kansas City, assignor to Whitaker Battery Supply Company, North Kansas City, Mo. Battery hanger. 2,352,111; June 20.

Meyers, G. L., et al. (See Marsh, Jack C., assignor.)

Michigan Tool Company. (See Selbold, Paul F., assignor.)

Midland Steel Products Company, The. (See Almond, J. R., and Fitz Gerald, assignors.)

Miescher, Karl, Riehen, Switzerland, W. Fischer, Summit, N. J., and J. Heer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Glucosides and making the same. 2,351,625; June 20.

Miles, William S., Hastings-on-Hudson, and P. A. Voigt, Bellerose Manor, assignors to Johns-Manville Corporation, New York, N. Y. Building construction. 2,351,993; June 20.

Miles, William S., Hastings-on-Hudson, and P. A. Voigt, Bellerose Manor, assignors to Johns-Manville Corporation, New York, N. Y. Wall structure and making the same. 2,351,994; June 20.

Millard, Irwin W. (See Beatty, Elmer W., assignor.)

Miller, Isador, New York, N. Y. Cellulose ester plastics. 2,351,866; June 20.

Miller, John A., De Kalb, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Apparatus for producing high density plywood tubing. 2,351,692; June 20.

Milner, Nugent, Dearborn, Mich., assignor, by mesne assignments, to himself and S. A. Milner. Vehicle construction. 2,351,829; June 20.

Milner, Sarah A. (See Milner, Nugent, assignor.)

Milwaukee Flush Valve Company. (See Judell, Julius S., assignor.)

Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)

Minnesota Mining & Manufacturing Company. (See Sohl, W. E., and Stephens, assignors.)

Mirel, Arthur G., New York, N. Y. Duplicate cutting machine. 2,351,776; June 20.

Mitchell, Rollie H., Huntington Park, and W. R. McKay, Compton, assignors to Killefer Manufacturing Corporation, Los Angeles, Calif. Ground working implement. 2,351,830; June 20.

Model, Wilhelm, Stuttgart-Feuerbach, Germany; vested in the Alien Property Custodian. Apparatus for processing materials. 2,351,995; June 20.

Molins, Desmond W., F. F. Ruau, and S. R. Chown, assignors to Molins Machine Company Limited, Deptford, London, England. Collecting mechanism for rod-shaped articles. 2,351,693; June 20.

Molins, Desmond W., and F. F. Ruau, Deptford, London, assignors to Molins Machine Company Limited, London, England. Receptacle. 2,351,867; June 20.

Molins Machine Company Limited. (See Molins, D. W., and Ruau, assignors.)

Molins Machine Company Limited. (See Molins, D. W., Ruau, and Chown, assignors.)

Monarch Machine and Tool Company, The. (See Wintermute, G. J., and Bench, assignors.)

Morgan Construction Company. (See Morgan, Myles, assignor.)

Morgan, Myles, assignor to Morgan Construction Company, Worcester, Mass. Shear. 2,351,868; June 20.

Morgan, Porter S., Weston, assignor to The Capewell Manufacturing Company, Hartford, Conn. Coupling. 2,351,996; June 20.

Mörner, Hans G., New York, N. Y. Lifesaving suit. 2,351,777; June 20.

Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine drive. 2,351,997; June 20.

Morrison, Jess S., Southgate, assignor to L. M. Harvey, La Canada, Calif. Automatic control for aircraft, etc. 2,351,694; June 20.

Moschel, Wilhelm, and W. Forst, Bitterfeld, and W. Schmid, Stassfort, Germany; vested in the Alien Property Custodian. Producing magnesium oxide. 2,351,998; June 20.

Mossberg, Harold F., assignor to O. F. Mossberg & Sons, Inc., New Haven, Conn. Trap gun. 2,351,869; June 20.

Mossberg, O. F., & Sons, Inc. (See Mossberg, Harold F., assignor.)

Motor Products Corporation. (See Kellogg, Homer G., assignor.)

Moulding, Thomas G., Toledo, Ohio. Seat adjusting device. 2,351,778; June 20.

Moyle, Clarence L. (See Coleman, G. H., and Moyle.)

Muecke, Edward, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine looper mechanism. 2,351,831; June 20.

Müller, Eduard F., Leipzig, Germany; vested in the Alien Property Custodian. Electric feeler control for machine tools. 2,351,626; June 20.

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor and magazine. 2,351,627; June 20.

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Magazine safety razor. 2,352,112; June 20.

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor magazine. 2,352,113; June 20.

Murray, Howard J., New York, N. Y. Automatic change speed power transmission mechanism. 2,351,628; June 20.

Muskat, Delbert, et al. (See Muskat, Louis R., assignor.)

Muskat, Edna C., et al. (See Muskat, Louis R., assignor.)

Muskat, L. R., et al. (See Muskat, Louis R., assignor.)

Muskat, Louis R., Oak Park, assignor, by mesne assignments, to L. R., P., D., N. L., and E. C. Muskat, collectively, doing business as Triangle Package Machinery Co., Chicago, Ill. Automatic weighing device. 2,352,114; June 20.

Muskat, Nina L., et al. (See Muskat, Louis R., assignor.)

Muskat, Peter, et al. (See Muskat, Louis R., assignor.)

Mussler, Frank H. (See Bullard, E. P., III, Alvey, and Mussler.)

Nashua Gummed and Coated Paper Company. (See Gautier, Trevor R., assignor.)

National Company. (See Ferrill, Thomas M., Jr., assignor.)

National Cash Register Company, The. (See de Rosa, Louis A., assignor.)

National Supply Company, The. (See Young, Forrest J., assignor.)

National Technical Laboratories. (See Beckman, Arnold O., assignor.)

National Tube Company. (See Carter, J. W., and Rowe, assignors.)

National Tube Company. (See Nielsen, Peer D., assignor.)

National Tube Company. (See Sanders, Elmer N., assignor.)

National Tube Company. (See Sattele, L. F., and Ziegler, assignors.)

Neal, Ralph H., Jersey City, N. J., assignor, by mesne assignments, to The Best Foods, Inc., New York, N. Y. Deodorized oil. 2,351,832; June 20.

Nerwin, Hubert, Dresden, Germany; vested in the Alien Property Custodian. Roll-film camera. 2,351,999; June 20.

Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Combined ball mill and drier. 2,351,870; June 20.

Newman, Frank. (See Rabkin, W., and Newman.)

Newman, Max M., New York, N. Y. Device for turning the tubular forms of necktles. 2,352,115; June 20.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Multizone air conditioning system. 2,351,695; June 20.

New York Air Brake Company. (See Vroman, Erwin C., assignor.)

Nichols, Wallace H., Port Washington, N. Y., assignor to Rodic Rubber Corporation, Garwood, N. J. Stencil and stencil backing. 2,351,696; June 20.

Nielsen, Peer D., Lorain, Ohio, assignor to National Tube Company. Atomizer. 2,351,697; June 20.

Niewoehner, Fred, New York, N. Y., assignor to Interstate Vending Machine Company of St. Louis, St. Louis, Mo. Vending machine. 2,351,779; June 20.

Nógrády, Miklós, Budapest, Hungary; vested in the Alien Property Custodian. Apparatus for rifle practice. 2,352,000; June 20.

Noonan, Vincent W., La Salle, Ill. Roof and wall construction. 2,352,116; June 20.

Northey, Elmore H., and M. E. Hultquist, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. N(alkyl, β-4-morpholyalkyl)aminoalkanol esters. 2,351,833; June 20.

Noxon, Paul A., Tenafly, assignor to Bendix Aviation Corporation, Bendix, N. J. Rate-of-turn meter. 2,351,629; June 20.

Nystrom, Karl F., Milwaukee, Wis. Reclining seat for passenger vehicles. 2,351,698; June 20.

O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electricity conductor unit. 2,351,630; June 20.

O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electricity conductor unit. 2,351,631; June 20.

O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Polarized outlet section for electric wiring systems. 2,351,632; June 20.

Oliver, Wilbur C., 2nd, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Control valve for brakes. 2,352,001; June 20.

Olsen, Anders C., Forest Hills, N. Y. Panel fastening element. 2,352,002; June 20.

Osborne, Wiley W. (See Parry, R. D., and Hartman, assignors.)

Owens-Corning Fiberglas Corporation. (See Bergin, W. M., and Simison, assignors.)

Owens-Illinois Glass Company. (See Allen, Russell G., assignor.)

Owens-Illinois Glass Company. (See Fedorchak, W. J., and Jackson, assignors.)

Owens-Illinois Glass Company. (See Holmes, Minot K., assignor.)

Pabst Brewing Company. (See Baumann, George F., assignor.)

Pacific Manifolding Book Company. (See Stone, William G., assignor.)

Packard Motor Car Company. (See Best, Frank C., assignor.)

Packard Motor Car Company. (See Tegethoff, August J., assignor.)

Paillard, E., et Cie S. A. (See Prezioso, Giuseppe, assignor.)

Palmrose, George V., Longview, assignor to Weyerhaeuser Timber Company, Tacoma, Wash. Absorbing sulphur dioxide. 2,351,780; June 20.

Pantex Pressing Machine, Inc. (See Beede, Herbert G., assignor.)

Parker Appliance Company, The. (See Parker, Arthur L., assignor.)

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,351,871; June 20.

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Hydraulic press. 2,351,872; June 20.

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Relief valve. 2,351,873; June 20.

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Relief valve for fuel tanks. 2,351,874; June 20.

Parker Rust Proof Company. (See Gibson, Robert C., assignor.)

Parry, Robert D., Cincinnati, and C. F. Hartman, Silverton, assignors of one-third to W. W. Osborne, Cincinnati, Ohio. Aircraft windshield scraper. 2,351,699; June 20.

Pasternack, Joseph, New York, N. Y. Jack. 2,352,117; June 20.

Patent Button Company, The. (See Peterson, Frederick H., assignor.)

Patey, William B., Winona, assignor to R. D. Sanders, Jackson, Miss. Multiple needle tufting machine. 2,352,153; June 20.

Patterson, Velt C., assignor to York Corporation, York, Pa. Refrigeration. 2,351,700; June 20.

Pawelsky, Vernon R. (See Johnson, R. W., and Pawelsky.)

Payne, John W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treating process. 2,351,875; June 20.

Pegg, Edward H. R. (See Yost, I. A., and Pegg.)

Peppers, William J. (See Matejcik, E. J., and Peppers.)

Perfex Corporation. (See Malone, Homer E., assignor.)

Perkins, Cecil J., Lynchburg, Va. Process and apparatus for spot-dyeing skeins. 2,351,701; June 20.

Permutit Company, The. (See Pick, Eric, assignor.)

Peterson, Frederick H., Watertown, assignor to The Patent Button Company, Waterbury, Conn. Machine for inspecting and sorting translucent moulded plastic buttons and the like. 2,351,702; June 20.

Peterson, Howard B., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Closing machine. 2,351,633; June 20.

Peterson, Oscar R., and F. H. Stevens, Peoria, Ill., assignors to R. G. Le Tourneau, Inc., Stockton, Calif. Fluid pressure controlled clutch. 2,351,876; June 20.

Peterson, Richard, Waupaca, Wis. Staple extractor. 2,351,703; June 20.

Phillips, Chandler A., Blackwell, Okla. Photoflash photography camera. 2,351,834; June 20.

Phillips, Willard D., and R. A. Van Fossen, Chicago, Ill. Cover for degreaser cabinets. 2,351,704; June 20.

Pick, Eric, assignor to The Permutit Company, New York, N. Y. Water treating apparatus. 2,351,835; June 20.

Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)

Pierer, Heinz. (See Schubert, E., and Pierer.)

Place Process Inc. (See Place, Robert, assignor.)

Place, Robert, Boston, Mass., assignor to Place Process Inc., Glen Cove, N. Y. Producing animated cartoons. 2,351,634; June 20.

Plastic Veneering, Inc. (See Bright, Elvin M., assignor.)

Poinsignon, Jean, Clermont-Ferrand, France; vested in the Alien Property Custodian. Device for supplying gaseous mixtures to internal combustion engines. 2,352,003; June 20.

Polaroid Corporation. (See Young, Clinton J. T., assignor.)

Pollard, Willard L., Evanston, Ill. Hydroplanetary transmission. 2,352,004; June 20.

Popov, Vladimir, Prague, Bohemia; vested in the Alien Property Custodian. Weighing apparatus. 2,352,005; June 20.

Popper, Otto, Johannesburg, Transvaal, Union of South Africa. Vaginal pack device. 2,351,836; June 20.

Pott, August F., Zella-Mehlis, Germany; vested in the Alien Property Custodian. Printing-calculating machine. 2,352,006; June 20.

Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Washer strip and method and apparatus for producing same. 2,352,118; June 20.

Prall, Gustav, New York, N. Y. Screw driver. 2,351,705; June 20.

Prather, Asa P., and R. Russell, assignors of four-eighteenths to O. P. Prather, three-eighteenths to J. C. McKnight, and three-eighteenths to T. K. Shuff, Georgetown, Ky. Fire bomb. 2,351,635; June 20.

Prather, Otho P., et al. (See Prather, A. P., and Russell, assignors.)

Prats, Sidney N. (See Grandjean, L. H., Le Vasseur, and Prats.)

Prezioso, Giuseppe, assignor to E. Paillard et Cie S. A., Yverdon, Switzerland. Escapement mechanism for typewriters. 2,351,837; June 20.

Prodesco Incorporated. (See Koenig, Bernard R., assignor.)

Protex Products Company. (See Schwartzman, Leonce, assignor.)

Punte, William F., Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Tape dispensing container. 2,351,781; June 20.

Punte, William F., Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Spool and container therefor. 2,351,782; June 20.

Punte, William F., Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Sheet metal tablet box. 2,351,783; June 20.

Putt, Harlie O., Elkhart, Ind. Electro-hydraulic solenoid. 2,352,119; June 20.

Quaker Oats Company, The, et al. (See Graham, William R., Jr., assignor.)

Rabkin, William, Kew Gardens, and F. Newman, New York, assignors to International Mutoscope Corporation, Long Island City, N. Y. Framed photographic plate. 2,351,877; June 20.

Radio Corporation of America. (See Beers, George L., assignor.)

Radio Corporation of America. (See Dimmick, Glenn L., assignor.)

Radio Corporation of America. (See Grundmann, Gustave L., assignor.)

Rappl, Anton, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner control. 2,352,120; June 20.

Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Work support. 2,351,709; June 20.

Readeker, William C., Chicago, Ill. Collapsible carrier for bottles and the like. 2,352,121; June 20.

Reiber, Albert H., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,351,636; June 20.

Reiber, Albert H., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,352,155; June 20.

Reiber, Albert H., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,351,784; June 20.

Reiber, Albert H., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,351,785; June 20.

Rempe Company. (See Vogel, Arthur G., assignor.)

Republic Aviation Corporation. (See Kaiser, Robert A., assignor.)

Revere Camera Company. (See Sperry, Philmore F., assignor.)

Richards Chemical Works, The. (See Kaplan, Saul, assignor.)

Richardson, De Soto E., Wenatchee, Wash. Cutter and comminutor for fruits and vegetables. 2,352,122; June 20.

Rickert, Roy M., Oakland, Calif. Welder's hood. 2,352,007; June 20.

Riedel, Walter, Dresden, Germany; vested in the Alien Property Custodian. Motion-picture camera. 2,352,008; June 20.

Riley Stoker Corporation. (See Craig, Ollison, assignor.)

Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Bottle carrier. 2,352,123; June 20.

Robbins, Vernon E., Berkeley, Calif. Metalworking device. 2,352,009; June 20.

Robbins, Vernon E., Oakland, Calif. Heated scraper. 2,352,010; June 20.

Robinson, Thomas, New York, N. Y. Apparatus for treating plastic material in a controlled atmosphere. 2,351,706; June 20.

Roderick, Howard F. (See Hughes, A. E., Browne, and Roderick.)

Rodic Rubber Corporation. (See Nichols, Wallace H., assignor.)

Röhm & Haas Company. (See Bock, L. H., and Houk, assignors.)

Rósa, László, and I. Zakariás, Budapest, Hungary; vested in the Alien Property Custodian. Device for functional tests of organs of living bodies. 2,352,011; June 20.

Rosický, Johann, Moderschan, near Prague, Bohemia and Moravia; vested in the Alien Property Custodian. Sulphanilamide addition compound. 2,352,012; June 20.

Roth, Ervin, New York, N. Y. Knife guard. 2,352,013; June 20.

Rott, André, Berchem-Antwerp, Belgium; vested in the Alien Property Custodian. Photomechanical printing process and printing material for carrying out the same. 2,352,014; June 20.

Rouprich, James W., San Francisco, Calif. Automatic electric self-posting timer. 2,351,707; June 20.

Rowe, Andrew R. (See Carter, J. W., and Rowe.)

Ruau, Félix F. (See Molins, D. W., and Ruau.)

Ruau, Félix F. (See Molins, D. W., Ruau, and Chown.)

Rubissow, George A., New York, N. Y. Centrifuge. 2,351,708; June 20.

Rudolph Wurlitzer Company, The. (See Erikson, John, assignor.)

Rudolph Wurlitzer Company, The. (See Miller, John A., assignor.)

Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Terpene resin. 2,351,786; June 20.

Ruprecht, Louis. (See Sheldon, William M., assignor.)

Russel, Philip S., assignor to Detroit Lubricator Company, Detroit, Mich. Controlling means. 2,351,878; June 20.

Russell, Ralph. (See Prather, A. P., and Russell.)

Ruzicka, Leopold, and M. W. Goldberg, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Tetracyclic ketones. 2,351,637; June 20.

Ryan Jewelry Corporation. (See Clark, Fred S., assignor.)

Sabin, Albert B., and J. Warren, assignors to The Children's Hospital, Cincinnati, Ohio. Therapeutic gold compound. 2,352,124; June 20.

Sager, Elmer H., Chicago, Ill. Slicing device. 2,352,125; June 20.

Saladin, Lawrence J., assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Article-conveying mechanism. 2,351,838; June 20.

Sandberg, Oscar, assignor to Lynch Manufacturing Corporation, Defiance, Ohio. Kickout device for wrapping machines. 2,351,879; June 20.

Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever. 2,351,638; June 20.

Sanders, Elmer N., Mount Lebanon, Pa., assignor to National Tube Company. Cold-drawing pipes and tubes. 2,351,710; June 20.

Sanders, Robert D. (See Patey, William B., assignor.)

Sasgen, Michael J., Chicago, Ill. Door holder. 2,352,015; June 20.

Sasgen, Michael J., Chicago, Ill. Door holder. 2,352,016; June 20.

Sassano, John H., Union, N. J. Scraper. 2,351,711; June 20.

Sattele, Louis F., and A. H. Ziegler, McKeesport, Pa., assignors to National Tube Company. Screen. 2,351,712; June 20.

Sauer, Henry J., assignor to The Kilborn-Sauer Company, Fairfield, Conn. Thermometer mounting for rear-vision automobile mirrors. 2,351,880; June 20.

Saylor-Beall Manufacturing Co. (See Stahl, Rodolphe, assignor.)

Sayre, Gordon B., Brooklyn, N. Y., assignor to Boonton Molding Company, Boonton, N. J. Molding. 2,351,713; June 20.

Scharpenberg, Ewald, and H. Bönnhoff, Wetter, Ruhr, Germany; vested in the Alien Property Custodian. Grab for hoisting loads. 2,352,017; June 20.

Schat, Ane P., Utrecht, Netherlands; vested in the Alien Property Custodian. Ship's davit of the gravity type. 2,352,018; June 20.

Schering Corporation. (See Dohrn, M., and Laubereau, assignors.)

Scheuing, Georg, and B. Walach, Ingelheim-on-the-Rhine, Germany; vested in the Alien Property Custodian. Production of analgetically active tetrahydronaphthols. 2,352,020; June 20.

Schmid, Walther. (See Moschel, W., Forst, and Schmid.)

Schmidt, Fritz. (See Anschütz, R., and Schmidt.)

Schmitt, Arthur J., Chicago, Ill., assignor to D. B. Alexander, C. V. Wisner, Jr., and J. F. Mannion, trustees of The Arthur J. Schmitt Foundation. Mounting means. 2,352,126; June 20.

Schmitt, Arthur J., Foundation, The. (See Schmitt, Arthur J., assignor.)

Schnibben, Charles G. (See Decker, W. W., and Schnibben.)

Schott, Donald E., Flushing, assignor to Thomas C. Wilson, Inc., Long Island City, N. Y. Tube cleaning apparatus. 2,352,019; June 20.

Schottland, Edward, Forest Hills, assignor of one-half to R. Schottland, Jackson Heights, N. Y. Grinding machine. 2,351,881; June 20.

Schottland, Robert. (See Schottland, Edward, assignor.)

Schubert, Ernst, Jonsdorf, near Zittau, and H. Pierer, Zittau, Germany; vested in the Alien Property Custodian. Detergent composition. 2,352,021; June 20.

Schuller, Aladar, Antwerp, and R. G. Tritsmans, Mortsel, near Antwerp, Belgium; vested in the Alien Property Custodian. Stabilizing cellulose esters. 2,352,022; June 20.

Schüller, Eduard, Berlin-Johannisthal, Germany; vested in the Alien Property Custodian. Sound reproducer. 2,352,023; June 20.

Schwartzman, Leonce, Baltimore, Md., assignor to Protex Products Company, Inc., Jersey City, N. J. Garment bag. 2,351,882; June 20.

Schweikher, Ernest W., Shaker Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electroplating. 2,351,639; June 20.

Schweitzer & Conrad, Inc. (See Lindell, S. I., and Van Ryan, assignors.)

Scott, Carlyle H., Forest Hills, and P. H. Scott, Flushing, assignors to Flush Hydrant Corp., Corona, N. Y. Flush type fire hydrant and highway construction therefor. 2,351,640; June 20.

Scott, Paul H. (See Scott, Carlyle H. and P. H.)

Scriptoscope Company, The. (See Katz, David, assignor.)

Searle, G. D., & Co. (See Speer, John H., assignor.)

Sears, Roebuck and Co. (See Carpenter, John C., assignor.)

Sebestyén, László, Budapest, Hungary; vested in the Alien Property Custodian. Antioscillation suspension for beds and the like. 2,352,024; June 20.

Seeburg, J. P., Corporation. (See Johnson, Carl G., assignor.)

Seem, Charles B., assignor to Dutchess Tool Company, Inc., Beacon, N. Y. Dough divider. 2,351,839; June 20.

Seem, Charles B., assignor to Dutchess Tool Company, Inc., Beacon, N. Y. Dough divider. 2,351,840; June 20.

Seem, Charles B., Beacon, N. Y., assignor to Dutchess Tool Company, Inc. Dough divider and rounder. 2,351,841; June 20.

Seguy, Jean D., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,352,025; June 20.

Seibold, Paul F., Newport, assignor to Michigan Tool Company, Detroit, Mich. Gear grinding machine. 2,351,842; June 20.

Shaw Insulator Company. (See Bohrer, George P., assignor.)

Sheldon, William M., Elizabeth, assignor to Louis Ruprecht, Montclair, N. J. Pulverizing mill rotor. 2,352,127; June 20.

Shell Development Company. (See Boissonou, C. J., and Yates, assignors.)

Shell Development Company. (See Steadman, Horace V., assignor.)

Shell Development Company. (See Talley, S. K., and Grenot, assignors.)

Shikles, Horace E. Jr., Kansas City, Mo. One-piece suit. 2,352,128; June 20.

Shonnard, Harold W., Montclair, N. J. Freight transfer apparatus. 2,352,129; June 20.

Short, Ira, Prospect Park, and H. C. Brown, Philadelphia, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lubrication apparatus. 2,352,130; June 20.

Shuff, Thomas K., et al. (See Prather, A. P., and Russell, assignors.)
Shurmer, Guy W. (See Dentzer, C. J., Shurmer, and Vanek.)
Sim, Gordon, assignor to Teletype Corporation, Chicago, Ill. Tape directing device. 2,351,714; June 20.
Simison, Allen L. (See Bergin, W. M., and Simison.)
Sinclair, Edward L. (See Crowley, J. A., Jr., and Sinclair.)
Singer Manufacturing Company, The. (See Muecke, Edward, assignor.)
Singer Manufacturing Company, The. (See Turner, Edgar P., assignor.)
Sipp-Eastwood Corporation. (See Kent, Frederick J., assignor.)
Sitney, Massey, Berkeley, Calif. Smoker's pipe. 2,351,883; June 20.
Skenandoa Rayon Corporation. (See Mattinson, F. W., and Hoffman, assignors.)
Slaymaker, Frank H. (See Bowser, T. L., and Slaymaker.)
Smeykal, Karl. (See Herold, P., Smeykal, Asinger, and Wolf.)
Smejkal, Vilém, Prerau, Moravia; vested in the Alien Property Custodian. Bright optical system for color photography. 2,352,026; June 20.
Smillie, John F., San Diego, Calif. Navigation instrument. 2,351,884; June 20.
Smith, Clyde, Hopkinsville, Ky., assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Calculating and printing machine. 2,352,027; June 20.
Smith, Elmer H., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn. Torch tip. 2,351,787; June 20.
Smith, Lee I., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Treating phenols. 2,351,715; June 20.
Smith, Paul S., Rockford, Ill., assignor, by mesne assignments, to E. B. Allen, Birmingham, Mich. Strip-feeding mechanism. 2,352,131; June 20.
Smith, Robert L., assignor to The Carborundum Company, Niagara Falls, N. Y. Coating composition and making. 2,351,716; June 20.
Smith, Vernon R., Lindsay, Calif. Stuffing fruit and product. 2,351,788; June 20.
Smith Welding Equipment Corporation. (See Smith, Elmer H., assignor.)
Socony-Vacuum Oil Company. (See Crowley, J. A. Jr., and Sinclair, assignors.)
Socony-Vacuum Oil Company. (See Payne, John W., assignor.)
Soff, Le Roy D., Forest Hills, N. Y. Decoration or ornamentation of surfaces. 2,351,717; June 20.
Sohl, William E., and H. N. Stephens, White Bear Lake, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Cementitious material. 2,351,641; June 20.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Making scraper blades. 2,352,028; June 20.
Sommerfeld, Adolf, Cowley, England. Method and apparatus for molding toy building elements. 2,351,885; June 20.
Soule, Arthur H., assignor to Dalmo Victor Co., San Francisco, Calif. Awning type window operator. 2,352,029; June 20.
South Shore Machine & Tool Works, Inc. (See Bauer, Arthur G., assignor.)
Southwell, Charles E., Milmont Park, Pa. Double-acting planer head. 2,352,132; June 20.
Speakman, John B., Far Headingley, Leeds, England. Treatment of fibers or fibrous materials containing keratin. 2,351,718; June 20.
Specialties Development Corporation. (See Grant, H. C., Jr., and Manhartsberger, assignors.)
Speer, John H., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Nitrate esters of xanthine derivatives and making them. 2,351,843; June 20.
Speer, John H., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Chlorocaffeine nitrate and nitrite and making them. 2,351,844; June 20.
Sperry, Helen B., executrix. (See Sperry, Philmore F.)
Sperry, Philmore F., deceased, Chicago, Ill.; H. B. Sperry, executrix of the estate of said Sperry, assignor to Revere Camera Company. Film actuating means. 2,351,886; June 20.
Sperzel, Peter J., and K. J. G. Leufvenius, assignors to Sperzel Sanitary Seat Company, Minneapolis, Minn. Toilet seat. 2,352,133; June 20.
Sperzel Sanitary Seat Company. (See Sperzel, P. J., and Leufvenius, assignors.)
Sproul, Donald F., assignor to J. R. Cardwell, Chicago, Ill. Bolster spring unit. 2,352,030; June 20.
Stahl, Rodolphe, assignor to Saylor-Beall Manufacturing Co., Detroit, Mich. Line marker. 2,351,719; June 20.
Stamm, Vincil R., et al. (See Detjen, Robert L., assignor.)
Standard Brands Incorporated. (See Gore, H. C., and Frey, assignors.)
Standard Oil Company. (See Hull, Carl M., assignor.)
Standard Oil Company. (See Voorhees, Vanderveer, assignor.)
Standard Radial Blast Corporation. (See Dreisbach, Charles A., assignor.)
Starret, Howard A., U. S. Army. Underground piping. 2,351,642; June 20.
Steadman, Horace V., Wichita Falls, Tex., assignor to Shell Development Company, San Francisco, Calif. Power actuated spider and slips. 2,351,887; June 20.
Steiner, Otto, Berlin-Spandau, Germany; vested in the Alien Property Custodian. Telegraph transmitter. 2,352,031; June 20.
Stephens, Henry N. (See Sohl, W. E., and Stephens.)
Stern, Milton M. (See Kelly, J. H., Jr., and Stern.)
Steube, Fritz, Leipzig, Germany; vested in the Alien Property Custodian. Production of sound records. 2,352,032; June 20.
Stevens, Fred H. (See Peterson, O. R., and Stevens.)
Stever, Horton G., Arlington, Mass., assignor to California Institute Research Foundation, Pasadena, Calif. Directional geiger counter. 2,351,845; June 20.
Stewart, Robert J., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Detector mechanism for capping machines. 2,351,888; June 20.
Stewart, Walter H., Passaic, N. J. Pipe cleaning ash tray. 2,352,033; June 20.
Stewart-Warner Corporation. (See Beretish, W. H., and Campbell, assignors.)
Stewart-Warner Corporation. (See Davis, Ernest W., assignor.)
Stömmer, Franz X. (See Deckel, H. C., Maurer, and stömmer.)
Stone, William J., Washington, D. C., assignor to Pacific Manifolding Book Company, Inc., Emeryville, Calif. Manifolding assembly. 2,352,134; June 20.
Stoody Company. (See Stoody, S. M., and Abos, assignors.)
Stoody, Shelley M., and R. L. Abos, assignors to Stoody Company, Whittier, Calif. Mold for centrifugal casting. 2,351,720; June 20.
Stouffer, Henry C. (See Elkin, T. W., Jr., and Stouffer.)
Strandberg, Joel G. (See Bronstien, E. L., and Strandberg.)
Straus, Frieda, Chicago, Ill. Collapsible cradle blotter. 2,352,034; June 20.
Straus, Harry H., Asheville, N. C., assignor to Champagne Paper Corporation. Cigarette paper booklet. 2,351,643; June 20.
Streit, Aron, Inc. (See Streit, Irving, assignor.)
Streit, Irving, New York, N. Y., assignor to Aron Streit, Inc. Baking oven. 2,352,135; June 20.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Bowser, T. L., and Slaymaker, assignors.)
Strübig, Heinrich, Teltow, Germany; vested in the Alien Property Custodian. Producing television images. 2,351,889; June 20.
Strübig, Heinrich, Teltow, and W. Hass, Kleinmachnow, near Berlin, Germany; vested in the Alien Property Custodian. Luminescent material. 2,352,035; June 20.
Superba Manufacturing Co. (See Balk, David, assignor.)
Superior Manufacturing Company. (See Greenwood, Talma T., assignor.)
Surrey, Alexander R., Albany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Preparing d-ribose-2-nitro-4,5-dimethylanilide. 2,351,721; June 20.
Swenson, Arthur R., Fanwood, assignor to Western Electric Company, Incorporated, New York, N. Y. Welding apparatus. 2,351,722; June 20.
Swim, Lowell C., and C. H. Williams, Modesto, Calif. Elevating bed vehicle. 2,351,846; June 20.
Talley, Samuel K., Berkeley, and L. D. Grenot, Oakland, assignors to Shell Development Company, San Francisco, Calif. Corrosion testing element. 2,351,644; June 20.
Tauty, René, Clichy, France; vested in the Alien Property Custodian. Device for absorbing shocks, especially for parachutes. 2,352,036; June 20.
Tegethoff, August J., assignor to Packard Motor Car Company, Detroit, Mich. Striping instrument. 2,351,847; June 20.
Teletype Corporation. (See Reiber, Albert H., assignor.)
Teletype Corporation. (See Sim, Gordon, assignor.)
Teletype Corporation. (See Wack, James E., assignor.)
Ten Eyck, Andrew G., Detroit, Mich. Speed regulator. 2,352,136; June 20.
Tennessee Coal, Iron and Railroad Company. (See Auten, Claude I., assignor.)
Thompson, George H., Oakland, Calif. Welding stinger. 2,351,789; June 20.
Thornley, Basil D. and S. Hilton, Wilmslow, assignors to Benger's Limited, Holmes Chapel, Cheshire, England. Manufacture of rennet. 2,352,037; June 20.
Thurber, Elmer A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron emitting element. 2,352,137; June 20.
Thurston, David B. (See Yujuico, P. S., and Thurston.)
Timken-Detroit Axle Company, The. (See Alden, H. W., and Keese, assignors.)
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Snap clamp. 2,351,790; June 20.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Titeflex, Inc. (See Ingalls, David, assignor.)

Tölke, Friedrich, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Resilient tubular body. 2,352,038; June 20.
Torrence, Walter S., New York, N. Y. Fishing reel. 2,352,138; June 20.
Trantin, Jacob, Jr., Youngstown, Ohio. Alloy. 2,351,791; June 20.
Travilla, James C., Jr., Swarthmore, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Railway vehicle structure. 2,352,039; June 20.
Travilla, James C., Jr., Philadelphia, Pa., and E. C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Railway vehicle and brake assembly. 2,352,139; June 20.
Triangle Package Machinery Co., et al. (See Muskat, Louis R., assignor.)
Trico Products Corporation. (See Rappl, Anton, assignor.)
Tritsmans, Remi-Gustaaf. (See Schuller, A., and Tritsmans.)
Troller, Theodor H., Akron, assignor to La-Del Conveyor & Manufacturing Company, New Philadelphia, Ohio. Adjustable fan blade construction. 2,351,645; June 20.
Trott, Arthur J., Greensburg, Pa., assignor to Walworth Patents Inc., Boston, Mass. Power-operated valve. 2,352,140; June 20.
Turner, Edgar P., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Ball-bearing construction. 2,351,890; June 20.
Ulrich, Frederick, assignor to Conmar Products Corporation, Bayonne, N. J. Die roll and making the same. 2,352,141; June 20.
Ungerer, Fritz, Pforzheim, Germany; vested in the Alien Property Custodian. Straightening machine for sheet metal plates. 2,352,040; June 20.
United Shoe Machinery Corporation. (See Campbell, Rouel R., assignor.)
United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United States Automatic Box Machinery Co. (See Evans, Harry L., assignor.)
United States Bedding Company, The. (See Bronstien, E. L., and Strandberg, assignors.)
United States Rubber Company. (See Matlock, Harold C., assignor.)
Universal Oil Products Company. (See Haensel, Vladimir, assignor.)
Universal Oil Products Company. (See Mavity, Julian M., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
University of Minnesota, Regents of the. (See Hills, C. H., and Halvorson, assignors.)
University of Minnesota, Regents of the. (See Smith, Lee I., assignor.)
Van den Berg, Walter, Cologne-Mulheim, Germany; vested in the Alien Property Custodian. Piston structure. 2,352,041; June 20.
Vander Linde, Egbert, assignor to The Yoder Company, Cleveland, Ohio. Apparatus for coiling sheet material. 2,352,042; June 20.
Vanek, Otto J. (See Dentzer, C. J., Shurmer, and Vanek.)
Van Fossen, Ralph A. (See Phillips, W. D., and Van Fossen.)
Van Ryan, Anthony. (See Lindell, S. I., and Van Ryan.)
Van Vleck, Horace R., Upper Montclair, N. J. Power take-off mechanism. 2,351,646; June 20.
Van Voorhis, William G., Columbus, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Depth indicator for wheel type trenchers. 2,351,792; June 20.
Vaughan, Henry E., Valley Stream, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,352,142; June 20.
Victor Metal Products Corporation. (See Apfelbaum, Huna L., assignor.)
Vogel, Arthur G., assignor to Rempe Company, Chicago, Ill. Fin mast antennae. 2,351,723; June 20.
Vogel, Edward A., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Breaker timing. 2,351,848; June 20.
Voigt, Paul A. (See Miles, W. S., and Voigt.)
Von Ardenne, Manfred, Berlin-Lichterfelde, Germany; vested in the Alien Property Custodian. Diaphragm for electron optical apparatus. 2,352,043; June 20.
Von den Steinen, Carl, Hamburg, Germany; vested in the Alien Property Custodian. Device for varying the stability of marine craft. 2,352,044; June 20.
Von Opel, Fritz, Miami, Fla.; vested in the Alien Property Custodian. Fastening device. 2,352,045; June 20.
Von Viditz, Friedrich, Vienna, Germany; vested in the Alien Property Custodian. Producing bakers' ware by means of the fermentation of yeast dough. 2,352,046; June 20.
Voorhees, Vanderveer, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Conversion of hydrocarbon oils with catalysts. 2,351,793; June 20.
Vroman, Erwin C., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,351,724; June 20.
Wack, James E., assignor to Teletype Corporation, Chicago, Ill. Apparatus mounting arrangement. 2,351,725; June 20.
Wahl, Arthur M., Wilkinsburg, and F. B. Johnson, Clairton, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Flexible valve seat construction. 2,352,047; June 20.
Walach, Bruno. (See Scheuing, G., and Walach.)
Waldorf Knitting Company. (See Gluck, Fred S., assignor.)
Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)
Wales, Nathaniel B., Southampton, Long Island, N. Y. Track for track-laying vehicles. 2,351,647; June 20.
Wallace, James M., Braddock, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,352,048; June 20.
Wallace, William H., Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Coil spring. 2,351,726; June 20.
Walley, Omar C. (See Exner, D. W., and Walley.)
Walter, Albert F. (See McMurry, Paul E., assignor.)
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Treatment of animal tissue. 2,352,154; June 20.
Walworth Patents Inc. (See Trott, Arthur J., assignor.)
Warner Electric Brake Manufacturing Company. (See Cadman, Addi B., assignor.)
Warner & Swasey Company, The. (See Lange, Max E., assignor.)
Warren Featherbone Co., The. (See Johnston, James G., assignor.)
Warren, Joel. (See Sabin, A. B., and Warren.)
Weaver, Virgil L., Lynnfield, Mass., assignor to General Electric Company. Shock mounted instrument. 2,352,049; June 20.
Webb, Herbert J. (See Baker, B. P., and Webb.)
Wegener, Gustav, Berlin, Germany; vested in the Alien Property Custodian. Synchronizing arrangement. 2,352,050; June 20.
Wehr, William G., assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Carrier for overhead conveyer systems. 2,351,727; June 20.
Weis, Henry, Manufacturing Company. (See Baum, A. F., and Anderson, assignors.)
Weisbaum, Jack, Cincinnati, Ohio. Decoy airplane. 2,351,891; June 20.
Welbury, Stanley G., assignor to Darwins Limited, Sheffield, England. Lathe and lathe tool. 2,351,892; June 20.
Weller, Charles J., Coulee City, Wash. Ventilator. 2,351,794; June 20.
Wells, Harold D., Glens Falls, N. Y. Continuous beater and pulp selector. 2,351,728; June 20.
Wells, Ida M. (See Wells, Sheldon H. and I. M.)
Wells, Sheldon H. and I. M., Los Angeles, Calif. Shampoo pillow. 2,351,849; June 20.
Wendlandt, Rudolf, G. Hoffmann, and H. Füldner, Piesteritz, near Halle, Germany; vested in the Alien Property Custodian. Azotizing calcium carbide and carbide mixtures. 2,352,051; June 20.
Westerkamp, Hugo, Cologne-Poll, Germany; vested in the Alien Property Custodian. Producing sound band matrices. 2,352,052; June 20.
Western Electric Company. (See Swenson, Arthur R., assignor.)
Western Union Telegraph Company, The. (See Light, George G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Arnold, Edwin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baker, B. P., and Webb, assignors.)
Westinghouse Electric & Manufacturing Company. (See Baker, Rest R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Blankenbuehler, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Borland, James E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Burgwin, Stephen L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dyer, L. W., and Brown, assignors.)
Westinghouse Electric & Manufacturing Company. (See Exner, D. W., and Walley, assignors.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hill, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hurst, Robert O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lee, Reuben, assignor.)
Westinghouse Electric & Manufacturing Company. (See Lenehan, Bernard E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Leonard, Merrill G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ludwig, L. R., and Fields, assignors.)
Westinghouse Electric & Manufacturing Company. (See Lynn, Clarence, assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, R. E., Ludwig, and Baker, assignors.)

Westinghouse Electric & Manufacturing Company. (See Short, I., and Brown, assignors.)
Westinghouse Electric & Manufacturing Company. (See Wahl, A. M., and Johnson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Wallace, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Yost, I. A., and Pegg, assignors.)
Weyerhaeuser Timber Company. (See Palmrose, George V., assignor.)
Whitaker Battery Supply Company. (See Meyer, Harvey E., assignor.)
Whitehead, William, Rye, N. Y., and W. J. Elvin, Cumberland, Md., assignors to Celanese Corporation of America. Tinting mechanism. 2,351,729; June 20.
Whiteside, W. O. (See Jarrett, Henry U., assignor.)
Whitlock, Fred W., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Hydrogen ion exchange apparatus. 2,351,648; June 20.
Wickesser, Arthur. (See de Giers, C. A., and Wickesser.)
Wiggins, John H., Chicago, Ill. Inverted siphon drain for tank roofs. 2,351,850; June 20.
Wilcox-Gay Corporation, The. (See Gay, Paul S., assignor.)
Wilfert, Karl, Sindelfingen, and B. Barényi, Boblingen, Germany; vested in the Alien Property Custodian. Springing of motor cars. 2,352,053; June 20.
Wilfert, Karl, Sindelfingen, and B. Barényi, Vaihingen-Rohr, Germany; vested in the Alien Property Custodian. Movable connection of a vehicle body with the chassis or an axle aggregate. 2,352,054; June 20.
Williams, Claud H. (See Swim, L. C., and Williams.)
Wills, Walter P., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,352,143; June 20.
Wilson, Leon T., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Thermally controlled resistor. 2,352,056; June 20.
Wilson, Milo C. (See Davidson, V. D., and Wilson.)
Wilson, Thomas C., Inc. (See Schott, Donald E., assignor.)
Wingert, Paul, Montpelier, Ohio. Safety by-pass for stoves and furnaces. 2,352,057; June 20.
Wintermute, George J., and D. E. Bench, Dayton, assignors to The Monarch Machine and Tool Company, Sidney, Ohio. Method and apparatus for controlling the operation of lathes. 2,351,649; June 20.
Winther, Martin P., trustee. (See Hayes, Charles T., assignor.)
Winthrop Chemical Company. (See Surrey, Alexander R., assignor.)
Wisner, Carl V., Jr., et al., trustees. (See Schmitt, Arthur J., assignor.)
Witherow, William P. (See Henderson, Albert, assignor.)
Witt, Earney W., Windsor, Victoria, Australia. Apparatus for making the carcasses of rubber tires. 2,352,055; June 20.
Wittekindt, Wilhelm. (See Dyckerhoff, W., and Wittekindt).
Wolf, Wilhelm. (See Herold, P., Smeykal, Asinger, and Wolf.)
Wood, Charles D., Huntington Park, assignor to Los Angeles Chemical Co., Los Angeles, Calif. Treating complex lead-zinc ores. 2,351,795; June 20.
Wood, Wilbur G., Glendale, and F. B. Hunter, Tujunga, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Automatic temperature control. 2,352,058; June 20.
Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Wing slot closure member. 2,352,144; June 20.
Woog, Paul, Paris, France; vested in the Alien Property Custodian. Treatment of hydrocarbons. 2,352,059; June 20.
Worthington, Edward B. (See Ballinger, J. O., and Worthington.)
Wright, Cletus P., Cleveland, Ohio. Preinsulated pipe hanger unit. 2,352,145; June 20.
Wright, David C., Euclid, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Motor control system. 2,351,796; June 20.
Wrigley, Wm., Jr., Company. (See Saladin, Lawrence J., assignor.)
Wulff, Siegfried, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian. Wheel suspension for vehicles. 2,351,650; June 20.
Wulff, Siegfried, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian. Independent wheel suspension. 2,351,651; June 6.
Wüsteney, Herbert, Berlin-Wilmersdorf, and E. Lolkes, Berlin-Staaken, Germany; vested in the Alien Property Custodian. Telegraphic receiving perforator. 2,352,060; June 20.
Wyandotte Chemicals Corporation. (See Hughes, A. E., Browne, and Roderick, assignors.)
Yates, Wallace J. (See Boissonou, C. J., and Yates.)
Yoder Company, The. (See Allardt, Ernst W., assignor.)
Yoder Company, The. (See Vander Linde, Egbert, assignor.)
Yomantas, Walter. (See Desch, C., and Yomantas.)
York Corporation. (See Patterson, Velt C., assignor.)
Yost, Irvine A., and E. H. R. Pegg, Lakewood, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Self-cleaning electrical precipitator. 2,352,061; June 20.
Young, Clinton J. T., assignor to Polaroid Corporation, Cambridge, Mass. Antiglare device. 2,351,797; June 20.
Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Draw works. 2,351,851; June 20.
Yujuico, Pedro S., Great Neck, and D. B. Thurston, Jamaica, assignors to Brewster Aeronautical Corporation, Long Island City, N. Y. Aircraft. 2,351,893; June 20.
Zakariás, Imre. (See Rósa, L., and Zakariás.)
Zap, Edward F., Los Angeles, Calif. Upper surface flap. 2,352,062; June 20.
Zenz, Wilhelm, Wuppertal-Elberfeld, Germany; vested in the Alien Property Custodian. Hydraulic shock absorber. 2,352,063; June 20.
Zerbe, Carl, Hamburg, Germany; vested in the Alien Property Custodian. Refining mineral oil. 2,352,064; June 20.
Ziegler, August H. (See Sattele, L. F., and Ziegler.)
Zupa, Frank A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,351,730; June 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Animal feed compositions, Manufacturing. M. Shoeld. Re. 22,500; June 20.
Electrical apparatus, Mounting. C. H. Hill. Re. 22,498; June 20.
Hearing-aid, Bone conduction. H. Lieber. Re. 22,499; June 20.
Indicator for air-method cleaning systems, Detecting. D. B. Replogle. Re. 22,501; June 20.
Mixing machine, Road material. C. W. Wood. Re. 22,502; June 20.
Signal lamp. C. Adler, Jr. Re. 22,497; June 20.

LIST OF DESIGN INVENTIONS

Apron. J. and J. Nachman. 138,128; June 20.
Block, Pulley. H. B. Cohen. 138,114; June 20.
Bottle. L. Poglein. 138,123; June 20.
Bottle carrier. A. J. Goodin. 138,130; June 20.
Box or similar article. L. Medgyes. 138,121; June 20.
Box or similar article. L. Medgyes. 138,132; June 20.
Coat. A. Gruber. 138,126; June 20.
Compass, Drawing. J. J. Bruetsch. 138,129; June 20.
Dart game board. H. E. Pease. 138,118; June 20.
Dress. J. Walker. 138,133; June 20.
Flashlight and luminous attachment therefor, Combined. E. Cogan. 138,120; June 20.
Hanger, Garment. W. Jaffa. 138,117; June 20.
Holder for narrow fabrics. E. Funke. 138,116; June 20.
Holder for ration books and tokens or the like. K. Aranoff, L. L. Lavant, and L. W. Arkin. 138,131; June 20.
Jacket or similar article, Scarf. J. Fowler. 138,124; June 20.
Stand or similar article, Display. L. W. Schneider. 138,119; June 20.
Stand or similar article, Display. J. Halpern. 138,122; June 20.
Suit. A. Gruber. 138,125; June 20.
Toy cannon. M. Baron. 138,112; June 20.
Toy gun. B. E. Cousins. 138,115; June 20.
Toy train. M. Baron. 138,113; June 20.
Vestee. F. Lustig. 138,127; June 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accordion case. J. Erikson. 2,351,673; June 20.
Accumulator, Hydraulic. J. C. Hanna. 2,351,761; June 20.
Acoustic delay device. L. G. Bostwick and J. H. King. 2,351,913; June 20.
Aerial for motor vehicles. J. Gäbler. 2,351,947; June 20.
Air brake. E. C. Vroman. 2,351,724; June 20.
Aircraft. D. T. Brown and C. G. Layman. 2,352,074; June 20.
Aircraft. P. S. Yujuico and D. B. Thurston. 2,351,893; June 20.
Aircraft canopy. R. A. Kaiser. 2,351,859; June 20.
Aircraft steering device, Automatic. A. Kronenberger and F. E. Bartelt. 2,351,977; June 20.
Aircraft windshield scraper. R. D. Parry and C. F. Hartman. 2,351,699; June 20.
Airplane, Decoy. J. Weisbaum. 2,351,891; June 20.
Alarm circuits. J. H. Derby. 2,351,587; June 20.
Alloy. J. Trantin, Jr. 2,351,791; June 20.
Alumina, Producing. W. Dyckerhoff and W. Wittekindt. 2,351,941; June 20.
Analgetically active tetrahydronaphthols, Production of. G. Scheuing and B. Walach. 2,352,020; June 20.
Animal tissue, Treatment of. C. T. Walter. 2,352,154; June 20.
Antiglare device. C. J. T. Young. 2,351,797; June 20.
Apparatus for coiling sheet material. E. Vander Linde. 2,352,042; June 20.
Apparatus for electroplating cylinders. S. Coulson. 2,351,586; June 20.
Apparatus for interrupting alternating currents. F. Koppelmann. 2,351,975; June 20.
Apparatus for joining veneers. A. Friz. 2,351,946; June 20.
Apparatus for making the carcasses of rubber tires. E. W. Witt. 2,352,055; June 20.
Apparatus for measuring heat consumption. O. C. Brun. 2,351,920; June 20.
Apparatus for preserving organic materials. W. R. Graham, Jr. 2,351,853; June 20.
Apparatus for processing materials. W. Model. 2,351,995; June 20.
Apparatus for producing high density plywood tubing. J. A. Miller. 2,351,692; June 20.
Apparatus for rifle practice. M. Nógrády. 2,352,000; June 20.
Apparatus for treating plastic material in a controlled atmosphere. T. Robinson. 2,351,706; June 20.
Apparatus mounting arrangement. J. E. Wack. 2,351,725; June 20.
Arc voltage or arc length indicator. J. H. Blankenbuehler. 2,351,910; June 20.
Article-conveying mechanism. L. J. Saladin. 2,351,838; June 20.
Article for religious use. R. F. Brennan. 2,351,918; June 20.
Ash tray, Pipe cleaning. W. H. Stewart. 2,352,033; June 20.
Atomizer. P. D. Nielsen. 2,351,697; June 20.
Automatic change speed power transmission mechanism. H. J. Murray. 2,351,628; June 20.
Automatic phonograph. C. G. Johnson. 2,351,972; June 20.
Automatic temperature control. W. G. Wood and F. B. Hunter. 2,352,058; June 20.
Automatic weighing device. L. R. Muskat. 2,352,114; June 20.
Auxiliary device adapted to drive light vehicles. M. Mennesson. 2,351,992; June 20.
Axle, Drive. H. W. Alden and B. W. Keese. 2,351,590; June 20.
Azo derivatives of sulphones and making the same. M. Dohrn and O. Laubereau. 2,351,936; June 20.
Bag: *See*—
  Garment bag.
Baker's ware by means of the fermentation of yeast dough, Producing. F. von Viditz. 2,352,046; June 20.
Baking oven. I. Streit. 2,352,135; June 20.
Ball-bearing construction. E. P. Turner. 2,351,890; June 20.
Ball mill and drier, Combined. R. C. Newhouse. 2,351,870; June 20.
Battery hanger. H. E. Meyer. 2,352,111; June 20.
Beater and pulp selector, Continuous. H. D. Wells. 2,351,728; June 20.
Belt, Parachute. G. Dreyfus. 2,351,938; June 20.
Billet scarfing apparatus. J. L. Anderson. 2,351,653; June 20.
Bin level indicator. J. A. Crowley, Jr., and E. L. Sinclair. 2,352,080; June 20.
Bleaching process, Multiple flour. C. G. Ferrari and W. S. Hutchinson. 2,351,809; June 20.
Blotter, Collapsible cradle. F. Straus. 2,352,034; June 20.
Bolster spring unit. D. F. Sproul. 2,352,030; June 20.
Bottle carrier. W. A. Ringler. 2,352,123; June 20.
Bottle transfer for pasteurizers. G. F. Baumann. 2,351,801; June 20.
Box: *See*—
  Sheet metal tablet box.
Brake: *See*—
  Air brake.
Brake. R. A. Goepfrich. 2,351,952–3; June 20.
Brake lever. R. A. Sandberg. 2,351,638; June 20.
Breaker timing. E. A. Vogel. 2,351,848; June 20.
Building and building block therefor. R. G. Kaping. 2,351,768; June 20.
Building construction. R. M. James. 2,351,615; June 20.
Building construction. W. S. Miles and P. A. Voigt. 2,351,993; June 20.
Bulldozer. E. W. Austin. 2,351,799; June 20.
Burner. O. Craig. 2,351,928; June 20.
Burring tool. A. G. Bauer. 2,351,578; June 20.
Cabinet, desk and table, Combined. W. A. Hamberg. 2,351,610; June 20.
Cable operated press. R. G. Le Tourneau. 2,351,824; June 20.
Cadmium red, Production of. J. Loeffler. 2,351,985; June 20.
Calcium carbide and carbide mixtures, Azotizing. R. Wendlandt, G. Hoffmann, and H. Füldner. 2,352,051; June 20.
Calcium carbonate-adhesive coatings, Manufacture of. A. E. Hughes, H. B. Browne, and H. F. Roderick. 2,351,683; June 20.
Calculating and printing machine. C. Smith. 2,352,027; June 20.
Camera, Motion-picture. W. Riedel. 2,352,008; June 20.
Camera, Photoflash photography. C. A. Phillips. 2,351,834; June 20.
Camera, Roll film. H. Nerwin. 2,351,999; June 20.
Can-dumping mechanism. C. H. Abbott. 2,351,731; June 20.
Cap: *See*—
  Ceramic bubble cap.
Capacitor protection, Series. R. E. Marbury. 2,351,989; June 20.
Capacitor protection, Series. R. E. Marbury, L. R. Ludwig, and B. P. Baker. 2,351,988; June 20.
Capping machines, Detector mechanism for. R. J. Stewart. 2,351,888; June 20.
Carrier: *See*—
  Bottle carrier.
Carrier for bottles and the like, Collapsible. W. C. Readeker. 2,352,121. June 20.
Carrier for overhead conveyer systems. W. G. Wehr. 2,351,727; June 20.
Cartoons, Producing animated. R. Place. 2,351,634; June 20.
Case: *See*—
  Accordion case. Shipping case.
Cellulose ester plastics. I. Miller. 2,351,866; June 20.
Cellulose esters, Stabilizing. A. Schuller and R.-G. Tritsmans. 2,352,022; June 20.
Cement and the like, Plant for treating raw materials in the manufacture of. H. Gygi. 2,351,677; June 20.
Cement, Quick curing neoprene. L. S. Bake. 2,351,735; June 20.
Cementitious material. W. E. Sohl and H. N. Stephens. 2,351,641; June 20.
Centrifuge. G. A. Rubissow. 2,351,708; June 20.
Ceramic bubble cap. W. E. Harris. 2,351,855; June 20.
Chain: *See*—
  Cutting chain.
Chair: *See*—
  Folding chair.
Chlorocaffeine nitrate and nitrite and making them. J. H. Speer. 2,351,844; June 20.
Cigarette paper booklet. H. H. Straus. 2,351,643; June 20.

Cigarettes, Manufacture of. W. F. M. Edwards. 2,351,748; June 20.
Circuit controlling apparatus. B. O. Austin. 2,351,901; June 20.
Circuit controlling apparatus. D. W. Exner and O. C. Walley. 2,351,945; June 20.
Circuit interrupter. B. P. Baker and H. J. Webb. 2,351,903; June 20.
Circuit interrupter. J. M. Wallace. 2,352,048; June 20.
Clamp: *See*—
  Securing clamp. Snap clamp.
Clasp, Diaper and shirt. F. S. Clark. 2,352,147; June 20.
Clip: *See*—
  Jewelry clip.
Clock, Cyclometer. A. Holzner. 2,351,814; June 20.
Closing machine. H. B. Peterson. 2,351,633; June 20.
Closure and mounting, Transparent. T. H. McClain. 2,351,991; June 20.
Clutch: *See*—
  Fluid pressure controlled clutch.
Coal distributing apparatus for stokers. W. T. Hanna. 2,351,960; June 20.
Coating composition and making. R. L. Smith. 2,351,716; June 20.
Code transmitter, Oscillating. O. S. Field. 2,351,588; June 20.
Coil spring. W. H. Wallace. 2,351,726; June 20.
Coin controlled motion picture apparatus. J. L. Clough. 2,352,077; June 20.
Collecting mechanism for rod-shaped articles. D. W. Mölins. F. F. Ruau, and S. R. Chown. 2,351,693; June 20.
Colloidal starch suspensions, Apparatus for making. H. G. Beede. 2,351,907; June 20.
Condensation products of an aminotriazine, and aldehyde, and a halogenated amide. G. F. D'Alelio. 2,351,602; June 20.
Condenser-discharge electric system. H. E. Edgerton. 2,351,603; June 20.
Conoscope. W. L. Bond. 2,352,072; June 20.
Constant current control. E. H. Haug. 2,351,681; June 20.
Container: *See*—
  Dispensing container. Tape dispensing container.
  Drill container.
Container. J. J. Blum. 2,351,804; June 20.
Control and drainage means, Drier. A. E. Armstrong. 2,351,733; June 20.
Control apparatus. W. P. Wills. 2,352,143; June 20.
Control for aircraft, etc., Automatic. J. S. Morrison. 2,351,694; June 20.
Control system for motor vehicles. J. A. Kennedy. 2,352,104; June 20.
Control system for paper making apparatus. R. R. Baker. 2,351,902; June 20.
Control valve for brakes. W. C. Oliver, 2nd. 2,352,001; June 20.
Controlling means. P. S. Russel. 2,351,878; June 20.
Conveyer. C. I. Lattig. 2,351,771; June 20.
Conveyer. C. I. Lattig. 2,351,862; June 20.
Conveying apparatus. H. C. Matlock. 2,351,990; June 20.
Copper from other metals, Separation of. J. O. Hay. 2,352,096; June 20.
Corn harvester. F. T. Court. 2,351,807; June 20.
Corrosion testing element. S. K. Talley and L. D. Grenot. 2,351,644; June 20.
Coupling. P. S. Morgan. 2,351,996; June 20.
Cross strip insulating structure for concentric cables. R. Finzi Contini. 2,351,927; June 20.
Cutter: *See*—
  Inside pipe cutter.
Cutter and comminutor for fruits and vegetables. D. E. Richardson. 2,352,122; June 20.
Cutting chain. A. N. Blum. 2,351,738; June 20.
Cutting machine, Duplicate. A. G. Mirel. 2,351,776; June 20.
Cutting tool. J. S. McAllister. 2,351,827; June 20.
d-ribose-2-nitro 4,5-dimethylanilide, Preparing. A. R. Surrey. 2,351,721; June 20.
Davit of the gravity type, Ship's. A. P. Schat. 2,352,018; June 20.
Decoration or ornamentation of surfaces. Le R. D. Soff. 2,351,717; June 20.
Degreaser cabinets, Cover for. W. D. Phillips and R. A. Van Fossen. 2,351,704; June 20.
Dehydrator, Vertical. L. H. Grandjean, E. P. Le Vasseur, and S. N. Prats. 2,351,676; June 20.
Dental unit. M. Ebbers, A. Helbig, and H. Mewes. 2,351,943; June 20.
Deodorant holder. H. J. Brownstein. 2,352,075; June 20.
Detergent composition. E. Schubert and H. Pierer. 2,352,021; June 20.
Device for absorbing shocks, especially for parachutes. R. Tauty. 2,352,036; June 20.
Device for determining angles. H. J. Lovenston. 2,351,773; June 20.
Device for functional tests of organs of living bodies. L. Rósa and I. Zakarias. 2,352,011; June 20.
Device for measuring thickness of objects. B. R. Koenig. 2,351,770; June 20.
Device for navigating ships in locks. H. Breitwieser. 2,351,917; June 20.
Device for supplying gaseous mixtures to internal combustion engines. J. Poinsignon. 2,352,003; June 20.
Device for the manufacture of gas masks. E. J. A. Lejeune. 2,351,981; June 20.
Device for the three-dimensional representation of buildings and other physical objects. V. Debs. 2,351,931; June 20.
Device for turning the tubular forms of neckties. M. M. Newman. 2,352,115; June 20.
Device for varying the stability of marine craft. C. von den Steinen. 2,352,044; June 20.
Diaphragms for electron optical apparatus. M. von Ardenne. 2,352,043; June 20.
Die roll and making the same. F. Ulrich. 2,352,141; June 20.
Discharge device, Electron. F. Gray. 2,351,757; June 20.
Disinfecting product and process for its manufacture and application. B. Carnauh. 2,351,924; June 20.
Dispenser. C. E. and J. C. Fruin. 2,351,751; June 20.
Dispensing container. H. L. Apfelbaum. 2,352,066; June 20.
Display device. E. W. Ericson and R. E. Brauer. 2,352,087; June 20.
Display device. N. E. Lauterbach. 2,351,822; June 20.
Distributing device. H. Basler. 2,351,905; June 20.
Distributor for high-tension ignition apparatus. N. Hendry and J. A. Laird. 2,351,682; June 20.
Door and support therefor, Folding. C. I. Auten. 2,351,656; June 20.
Door holder. M. J. Sasgen. 2,352,015–6; June 20.
Dough divider. C. B. Seem. 2,351,839–40; June 20.
Dough divider and rounder. C. B. Seem. 2,351,841; June 20.
Draw works. R. O. Anderson. 2,351,654; June 20.
Draw works. F. J. Young. 2,351,851; June 20.
Drill container. W. Jensen. 2,351,815; June 20.
Drilling apparatus. W. E. Beline. 2,352,069; June 20.
Duplicating. A. J. Levenhagen and W. J. Champion. 2,351,863; June 20.
Dust collector. G. B. Linderman, Jr. 2,351,864; June 20.
Electric crucible. L. F. Black and C. H. Mellor. 2,351,594; June 20.
Electric discharge device. W. J. Karash and E. Lemmers. 2,351,616; June 20.
Electric feeler control for machine tools. E. F. Müller. 2,351,626; June 20.
Electric horn. O. Lucas. 2,351,690; June 20.
Electric remote-control system. S. A. Jansson. 2,351,684; June 20.
Electrical precipitator, Self-cleaning. I. A. Yost and E. H. R. Pegg. 2,352,061; June 20.
Electricity conductor unit. J. F. O'Brien. 2,351,630; June 20.
Electricity conductor unit. J. F. O'Brien. 2,351,631; June 20.
Electrode holder. W. C. Gosch. 2,351,852; June 20.
Electrohydraulic solenoid. H. O. Putt. 2,352,119; June 20.
Electromagnetic apparatus. C. T. Hayes. 2,351,963; June 20.
Electromagnetic friction device. A. B. Cadman. 2,351,598; June 20.
Electron emitting element. E. A. Thurber. 2,352,137; June 20.
Electron tube device for ultra short waves. A. Allerding. 2,351,895; June 20.
Electroplating. E. W. Schweikher. 2,351,639; June 20.
Elevating bed vehicle. L. C. Swim and C. H. Williams. 2,351,846; June 20.
Emergency brake device. L. J. Devlin, H. W. Adams, F. Landgraf, and C. S. Glasgow. 2,351,935; June 20.
Emulsion. J. N. Borglin. 2,351,912; June 20.
Enzymic process. H. C. Gore and C. N. Frey. 2,351,954; June 20.
Escapement mechanism for typewriters. G. Prezioso. 2,351,837; June 20.
Esters, Manufacture of. F. O. Cockerille. 2,351,664; June 20.
Excavating, loading and dumping vehicle. R. A. Beckwith. 2,352,068; June 20.
Extrusion apparatus. E. C. Lee. 2,351,688; June 20.
Eyelet setting tool. S. L. Gookin. 2,352,093; June 20.
Fabric and making the same, Knitted. I. H. C. Green. 2,351,758; June 20.
Fan blade construction, Adjustable. T. H. Troller. 2,351,645; June 20.
Fastening device. F. von Opel. 2,352,045; June 20.
Fibers or fibrous material containing keratin, Treatment of. J. B. Speakman. 2,351,718; June 20.
Filling compound for insulating conductors. C. F. Hill. 2,351,964; June 20.
Film actuating means. P. F. Sperry. 2,351,886; June 20.
Filter bags, Washing of. A. E. Anderson. 2,351,652; June 20.
Fin mast antennae. A. G. Vogel. 2,351,723; June 20.
Finger guard. E. W. Beatty. 2,351,906; June 20.
Firearm, Automatic. J. Koucky. 2,351,976; June 20.
Fire bomb. A. P. Prather and R. Russell. 2,351,635; June 20.
Fire hydrant and highway construction therefor, Flush type. C. H. and P. H. Scott. 2,351,640; June 20.
Fishing reel. W. S. Torrence. 2,352,138; June 20.

Fishing rod. J. C. Backe. 2,351,734; June 20.
Flap, Upper surface. E. F. Zap. 2,352,062; June 20.
Flowmeter. R. R. Donaldson. 2,351,745; June 20.
Fluid pressure controlled clutch. O. R. Peterson and F. H. Stevens. 2,351,876; June 20.
Fluid transmission device. H. B. Leary, Jr. 2,352,109; June 20.
Folding and gluing apparatus. C. Desch and W. Yomanas. 2,351,670; June 20.
Folding chair. J. Faller. 2,352,090; June 20.
Footwear. W. Hess. 2,352,098; June 20.
Freight transfer apparatus. H. W. Shonnard. 2,352,129; June 20.
Frequency meter. L. A. de Rosa. 2,352,082; June 20.
Fritted foundations for the enamelling of metallic articles, Preparing. K. Frank. 2,351,811; June 20.
Frost resistant microporous product. G. F. Hannot. 2,351,961; June 20.
Fruit and product, Method of stuffing. V. R. Smith. 2,351,788; June 20.
Fuel burner system. H. E. Malone. 2,351,622; June 20.
Fuel pump. J. P. Johnson. 2,351,817; June 20.
Furniture construction. M. L. Kesner. 2,352,106; June 20.
Game. J. J. Fitzgerald. 2,351,810; June 20.
Garment bag. L. Schwartzman. 2,351,882; June 20.
Garment bag. J. G. Johnston. 2,352,102; June 20.
Garment, Brassière. M. H. Hatton. 2,351,680; June 20.
Gate valve. P. E. McMurry. 2,351,775; June 20.
Gear for automobiles and the like, Steering. M. Katcher. 2,351,617; June 20.
Gear grinding machine. P. F. Seibold. 2,351,842; June 20.
Geiger counter, Directional. H. G. Stever. 2,351,845; June 20.
Glass-lifting device. A. L. Cohen. 2,351,666; June 20.
Glassware, Apparatus for gauging. W. J. Fedorchak and A. S. Jackson. 2,352,091; June 20.
Gloves and the like, Knitting. F. S. Gluck. 2,351,756; June 20.
Glucosides and making the same. K. Miescher, W. Fischer and J. Heer. 2,351,625; June 20.
Grab for hoisting loads. E. Scharpenberg and H. Bönnhoff. 2,352,017; June 20.
Gravity meter. A. Graf. 2,351,955; June 20.
Grinding and polishing machine. J. Desenberg. 2,352,146; June 20.
Grinding machine. E. Schottland. 2,351,881; June 20.
Guard, Knife. E. Roth. 2,352,013; June 20.
Gyro erecting mechanism. V. R. Kimball. 2,351,619; June 20.
Hand tool. J. V. Larson. 2,351,821; June 20.
Handling device, Cover and can. W. S. Campbell. 2,351,806; June 20.
Hanger: *See*—
Battery hanger.
Hay rake and stacker. G. E. Coates. 2,351,926; June 20.
Heat-treating. C. Lynn. 2,351,987; June 20.
Heater: *See*—
Liquid fuel heater.
Heater control. C. A. de Giers and A. Wickesser. 2,351,668; June 20.
High-pressure pump. L. Beeh. 2,351,908; June 20.
Highway crossing gate for railroads. W. K. Howe. 2,351,857; June 20.
Hinge construction for swinging doors. A. F. Baum and A. H. Anderson. 2,351,800; June 20.
Hoist chain structure, Convertible, multiple capacity. F. W. Coffing. 2,351,665; June 20.
Holder: *See*—
Deodorant holder. Electrode holder.
Door holder.
Holder for car seats, Child. W. S. Elmer. 2,351,749; June 20.
Housing for combat vehicles, Final drive. H. S. Eberhard. 2,352,086; June 20.
Hydraulic press. A. L. Parker. 2,351,872; June 20.
Hydraulic shock absorber. W. Zenz. 2,352,063; June 20.
Hydrocarbon oils, Conversion of. J. D. Seguy. 2,352,025; June 20.
Hydrocarbons, Alkylation of. V. Haensel. 2,351,609; June 20.
Hydrocarbons, Treatment of. J. M. Mavity. 2,351,624; June 20.
Hydrocarbons, Treatment of. P. Woog. 2,352,059; June 20.
Hydrogen ion exchange apparatus. F. W. Whitlock. 2,351,648; June 20.
Hydroplanetary transmission. W. L. Pollard. 2,352,004; June 20.
Ice tray, Flexible grid. M. K. Buchanan. 2,351,742; June 20.
Icebreaker, Road. F. Gettelman. 2,351,755; June 20.
Illuminating device, Microscope. J. R. Benford. 2,351,736; June 20.
Impact actuator. H. C. Grant, Jr., and A. Manhartsberger. 2,351,607; June 20.
Implement, Ground working. R. H. Mitchell and W. R. McKay. 2,351,830; June 20.
Indicator: *See*—
Bin level indicator.
Inductance coil. T. M. Ferrill, Jr. 2,351,604; June 20.
Ink, Thermofluid printing. F. G. Breyer. 2,351,585; June 20.
Injector, Adjustable. D. G. Griswold. 2,352,094; June 20.
Insecticidal composition. C. J. Boissonou and W. J. Yates. 2,351,583; June 20.
Insecticidal composition. G. H. Coleman and C. L. Moyle. 2,352,078–9; June 20.
Inside pipe cutter. V. D. Davidson and M. C. Wilson. 2,351,929; June 20.
Insulator. M. K. Holmes. 2,352,151; June 20.
Inverter, Electrical. B. E. Lenehan. 2,351,982; June 20.
Jack. J. Pasternack. 2,352,117; June 20.
Jewelry clip. M. Chernow. 2,351,925; June 20.
Kickout device for wrapping machines. O. Sandberg. 2,351,879; June 20.
Lactams, Producing. O. Drossbach, H. Hopff, and K. Huttner. 2,351,939; June 20.
Laminated sound record. W. R. Collings. 2,351,600; June 20.
Lapping machine. F. J. Kent. 2,352,105; June 20.
Lathe and lathe tool. S. Welbury. 2,351,892; June 20.
Lathes, Method of and apparatus for controlling the operation of. G. J. Wintermute and D. E. Bench. 2,351,649; June 20.
Lecture and projection desk of the scriptoscope type. D. Katz. 2,351,618; June 20.
Lifesaving and exploring device for submerged submarine vessels. F. Lamberti. 2,351,979; June 20.
Lifesaving suit. H. G. Mörner. 2,351,777; June 20.
Lifting jack with extendable leg structure. T. A. Hammond. 2,351,611; June 20.
Line marker. R. Stahl. 2,351,719; June 20.
Liquid fuel heater. W. F. Adams. 2,352,065; June 20.
Lock for typewriting accounting machines, Automatic printer. R. Anschütz and F. Schmidt. 2,351,898; June 20.
Lubricant. A. L. Bayes. 2,351,657; June 20.
Lubricating apparatus. W. H. Beretish and T. A. Campbell. 2,351,909; June 20.
Lubricating system. E. W. Davis. 2,351,930; June 20.
Lubrication apparatus. I. Short and H. C. Brown. 2,352,130; June 20.
Lumber puller. A. J. Mansir. 2,351,691; June 20.
Luminescent material. H. Strübig and W. Hass. 2,352,035; June 20.
Luminescent tube system and apparatus. C. P. Boucher and F. A. Kuhl. 2,351,914–15; June 20.
Machine drive, Dynamoelectric. W. J. Morrill. 2,351,997; June 20.
Machine tool. E. P. Bullard, III, L. E. Alvey, and F. H. Mussler. 2,351,921; June 20.
Machine tool. M. E. Lange. 2,351,687; June 20.
Machine tool, Hydraulically operated. E. H. Kocher. 2,351,620; June 20.
Magazine, Safety razor. J. Muros. 2,352,113; June 20.
Magnesium and magnesium base alloys against corrosion, Protection of. C. J. Bushrod. 2,352,076; June 20.
Magnesium oxide, Producing. W. Moschel, W. Frost, and W. Schmid. 2,351,998; June 20.
Magnetic testing device. T. S. Bindschedler and C. K. Davis. 2,351,595; June 20.
Magnetic testing method. O. Engler. 2,351,944; June 20.
Manifolding assembly. W. G. Stone. 2,352,134; June 20.
Mask, Protective. J. H. Fay. 2,351,752; June 20.
Means and method for preventing the spread of disease. O. A. Kohl. 2,351,686; June 20.
Measuring and control apparatus. H. S. Jones. 2,352,103; June 20.
Meat process and product. C. H. Hills and H. O. Halvorson. 2,351,614; June 20.
Mechanism for coiling sheet material. E. W. Allardt. 2,351,894; June 20.
Mercaptans, Preparation of. C. M. Hull. 2,351,763; June 20.
Merchandise packaging. E. M. Brogden and R. R. Brogden. 2,351,596; June 20.
Metal articles, Coating. P. P. Alexander. 2,351,798; June 20.
Metal-scouring machines, Scoring chamber for. C. A. Dreisbach. 2,351,671; June 20.
Metal treatment. R. C. Gibson. 2,351,605; June 20.
Metalworking device. V. E. Robbins. 2,352,009; June 20.
Metalworking machine. C. C. Grotnes. 2,352,095; June 20.
Meter: *See*—
Frequency meter. Gravity meter.
Meter, Rate-of-turn. P. A. Noxon. 2,351,629; June 20.
Method and apparatus for proportioning. A. O. Beckman. 2,351,579; June 20.
Method and apparatus for proportioning. A. O. Beckman. 2,351,580; June 20.
Milling machine attachment. E. J. Matejcik and W. J. Peppers. 2,352,110; June 20.
Mine hoist control. J. E. Borland. 2,351,911; June 20.
Mold. R. L. Detjen. 2,352,083; June 20.
Mold for centrifugal casting. S. M. Stoody and R. L. Abos. 2,351,720; June 20.
Mold operating mechanism. R. G. Allen. 2,351,899; June 20.
Molding. C. B. Sayre. 2,351,713; June 20.

Motor: *See*—
Oscillating electric motor.
Motor control system. D. C. Wright. 2,351,796; June 20.
Motor cars, Springing of. K. Wilfert and B. Barényi. 2,352,053; June 20.
Motor speed control. G. L. Grundmann. 2,351,759; June 20.
Motor vehicle. F. C. Best. 2,351,803; June 20.
Mounting for rear-vision automobile mirrors, Thermometer. H. J. Sauer. 2,351,880; June 20.
Mounting means. A. J. Schmitt. 2,352,126; June 20.
Mounting tools. S. M. Booth. 2,351,741; June 20.
Multizone air conditioning system. A. B. Newton. 2,351,695; June 20.
N(alkyl, β-4-morpholylalkyl) amino-alkanol esters. E. H. Northey and M. E. Hultquist. 2,351,833; June 20.
Navigation instrument. J. F. Smillie. 2,351,884; June 20.
Needle tufting machine, Multiple. W. B. Patey. 2,352,153; June 20.
Nickel depositing bath and method. O. B. Hogaboom. 2,351,966; June 20.
Nitrate esters xanthine derivatives and making them. J. H. Speer. 2,351,843; June 20.
Nonmetallic sheathed conductor, Method and apparatus for making. C. W. Abbott. 2,351,589; June 20.
Nozzle. J. F. Hoffer. 2,351,965; June 20.
Oil and air control mechanism for burners. R. W. Johnson and V. R. Pawelsky. 2,351,973; June 20.
Oil, Deodorized. R. H. Neal. 2,351,832; June 20.
Oil, Refining mineral. C. Zerbe. 2,352,064; June 20.
Oils with catalysts, Conversion of hydrocarbon. V. Voorhees. 2,351,793; June 20.
Operating device for garment presses, Semiautomatic. W. S. Graham. 2,351,956; June 20.
Optical instrument. C. J. Eckert. 2,351,747; June 20.
Optical system for color photography, Bright. V. Smejkal. 2,352,026; June 20.
Ores, Treating complex lead-zinc. C. D. Wood. 2,351,795; June 20.
Organic compounds containing sulphur, chlorine, and oxygen, Production of. P. Herold, K. Smeykal, F. Asinger and W. Wolf. 2,352,097; June 20.
Orthocresol aldehyde condensates, Production of hardenable. B. Habraschka. 2,351,958; June 20.
Oscillating electric motor. W. L. Martin. 2,351,623; June 20.
Oscillator, High-frequency vacuum tube. P. G. Chevigny. 2,351,744; June 20.
Oxazolidine compounds. S. Kaplan. 2,352,152; June 20.
Package. R. Guyer. 2,351,812; June 20.
Panel fastening element. A. C. Olsen. 2,352,002; June 20.
Panel-board construction. L. W. Dyer and T. F. Brown. 2,351,942; June 20.
Panel-wall building construction. A. Henderson. 2,351,856; June 20.
Phenols, Treating. L. I. Smith. 2,351,715; June 20.
Photographic apparatus. E. F. Flint and H. F. Kurtz. 2,351,753; June 20.
Photographic camera. H. Küppenbender. 2,351,978; June 20.
Photographic enlarger. J. C. Carpenter. 2,351,599; June 20.
Photographic plate, Framed. W. Rabkin and F. Newman. 2,351,877; June 20.
Pilot trainer. W. H. Hutter. 2,352,101; June 20.
Pipe hanger unit, Pre-insulated. C. P. Wright. 2,352,145; June 20.
Pipe, Smoker's. M. Sitney. 2,351,883; June 20.
Pipes and tubes, Cold-drawing. E. N. Sanders. 2,351,710; June 20.
Piston structure. W. van den Berg. 2,352,041; June 20.
Planer head, Double-acting. C. E. Southwell. 2,352,132; June 20.
Plastic buttons and the like, Machine for inspecting and sorting translucent moulded. F. H. Peterson. 2,351,702; June 20.
Plastic injection machine. L. P. McGowen. 2,351,774; June 20.
Plated articles, Making. J. Dupuis. 2,351,940; June 20.
Plotting instrument. A. J. Kramer. 2,351,769; June 20.
Plug: *See*—
Removable fuse plug.
Polarized outlet section for electric wiring systems. J. F. O'Brien. 2,351,632; June 20.
Popgun. C. F. Lefever. 2,351,823; June 20.
Power actuated spider and slips. H. V. Steadman. 2,351,887; June 20.
Power-operated valve. A. J. Trott. 2,352,140; June 20.
Power take-off mechanism. H. R. Van Vleck. 2,351,646; June 20.
Power transmission device. H. W. Driehaus. 2,351,746; June 20.
Press: *See*—
Cable operated press. Printing press.
Hydraulic press. Transfer molding press.
Printed matter, Transferring. W. W. Decker and C. G. Schnibben. 2,351,933; June 20.
Printed or written envelopes and the like, Sheet to make blank. C. Bonnaire. 2,351,805; June 20.
Printing-calculating machine. A. F. Pott. 2,352,006; June 20.
Printing press. J. F. Hawley. 2,361,612; June 20.
Printing process and printing material for carrying out the same, Photomechanical. A. Rott. 2,352,014; June 20.
Printing telegraph apparatus. A. H. Reiber. 2,351,636; June 20.
Printing telegraph apparatus. A. H. Reiber. 2,351,784; June 20.
Printing telegraph apparatus. A. H. Reiber. 2,351,785; June 20.
Printing telegraph apparatus. A. H. Reiber. 2,352,155; June 20.
Printing telegraph exchange system. G. G. Light. 2,351,621; June 20.
Propulsion means for naval torpedoes. D. G. Fawkes. 2,351,750; June 20.
Protective device for electrical apparatus. R. O. Hurst. 2,351,969; June 20.
Protective device for electrical apparatus. M. G. Leonard. 2,351,984; June 20.
Protective device having electrical resetting. M. G. Leonard. 2,351,983; June 20.
Protective device, Series capacitor. L. R. Ludwig and C. V. Fields. 2,351,986; June 20.
Prune compound and making the same, Powdered. L. LaVine. 2,352,108; June 20.
Pump: *See*—
Fuel pump. Surgical pump.
High pressure pump.
Railway vehicle and brake assembly. J. C. Travilla, Jr., and E. C. Jackson. 2,352,139; June 20.
Railway vehicle structure. J. C. Travilla, Jr. 2,352,039; June 20.
Rayon yarn, Treatment of. F. W. Mattinson and R. Hoffman. 2,351,865; June 20.
Razor, Magazine safety. J. Muros. 2,352,112; June 20.
Receptacle. L. H. Burlin. 2,351,597; June 20.
Receptacle. D. W. Molins and F. F. Ruau. 2,351,867.
Reclining seat for passenger vehicles. K. F. Nystrom. 2,351,698; June 20.
Reel: *See*—
Fishing reel.
Reflection from glass, Reduction in. G. L. Dimmick. 2,352,085; June 20.
Refrigeration. V. C. Patterson. 2,351,700; June 20.
Refrigerator control device. F. W. Hottenroth, Jr. 2,351,968; June 20.
Regenerative soaking pit furnace. J. W. Carter and A. R. Rowe. 2,351,661; June 20.
Regulator: *See*—
Speed regulator.
Relay. F. A. Zupa. 2,351,730; June 20.
Relief valve. A. L. Parker. 2,351,873; June 20.
Relief valve for fuel tanks. A. L. Parker. 2,351,874; June 20.
Removable fuse plug. H. F. Johns. 2,351,816; June 20.
Rennet, Manufacture of. B. D. Thornley and S. Hilton. 2,352,037; June 20.
Reproducer, Sound. E. Schüller. 2,352,023; June 20.
Resins, Aminoalkyl malonamide. L. H. Bock and A. L. Houk. 2,352,071; June 20.
Resins, Polyalkylene polyaminomalonamide. L. H. Bock and A. L. Houk. 2,352,070; June 20.
Resistor, Thermally controlled. L. T. Wilson. 2,352,056; June 20.
Resites, Manufacture of. E. Dreher. 2,351,937; June 20.
Ring settings, Making. M. A. Letendre. 2,351,689; June 20.
Rod: *See*—
Fishing rod.
Rod-handling machinery. G. Harrison. 2,351,962; June 20.
Roof and wall construction. V. W. Noonan. 2,352,116; June 20.
Rosin size, Heat-treated. E. A. Georgi. 2,351,949; June 20.
Rotary valve. J. R. Almond and H. R. Fitz Gerald. 2,351,732; June 20.
Rotor, Pulverizing mill. W. M. Sheldon. 2,352,127; June 20.
Rubber composition and making same. J. H. Kelly, Jr., and M. M. Stern. 2,351,860; June 20.
Rubber sheet, Sanitary. J. H. Johnson. 2,351,767; June 20.
Saddle-support for cycles. M. Grivetto. 2,351,957; June 20.
Safety razor and magazine. J. Muros. 2,351,627; June 20.
Samples, Obtaining and measuring gaseous. H. U. Jarrett. 2,351,764; June 20.
Saw. A. N. Blum. 2,351,737; June 20.
Saw, Chain. A. N. Blum. 2,351,739–40; June 20.
Scraper. J. H. Sassano. 2,351,711; June 20.
Scraper blades, Making. H. E. Somes. 2,352,028; June 20.
Scraper, Heated. V. E. Robbins. 2,352,010; June 20.
Screed construction for road finishing machines. H. H. Barber. 2,351,593; June 20.
Screen. L. F. Sattele and A. H. Ziegler. 2,351,712; June 20.

Screw driver. G. Prall. 2,351,705; June 20.
Seat adjusting device. T. G. Moulding. 2,351,778; June 20.
Seat construction, Flexible valve. A. M. Wahl and F. B. Johnson. 2,352,047; June 20.
Securing clamp. D. Ingalls. 2,351,858; June 20.
Selectivity apparatus. L. de Kramolin. 2,351,934; June 20.
Selector switch. W. H. T. Holden. 2,351,967; June 20.
Setting apparatus, Automatic fuse. R. R. Chappell and R. B. Colt. 2,351,743; June 20.
Sewing machine looper mechanism. E. Muecke. 2,351,831; June 20.
Shampoo pillow. S. H. and I. M. Wells. 2,351,849; June 20.
Sharpening device. J. Holtzman. 2,351,813; June 20.
Shear. M. Morgan. 2,351,868; June 20.
Sheet feeding apparatus. R. F. Hall. 2,351,854; June 20.
Sheet feeding mechanism. H. L. Evans. 2,352,088; June 20.
Sheet metal tablet box. W. F. Punte. 2,351,783; June 20.
Shipping case. J. K. Limbert. 2,351,825; June 20.
Shirt. F. Di Iuglio. 2,352,084; June 20.
Shock absorber. D. L. Christofel. 2,351,662; June 20.
Shock mounted instrument. V. L. Weaver. 2,352,049; June 20.
Shoe and shoe product. T. W. Elkin, Jr. and H. C. Stouffer. 2,352,148; June 20.
Shoe or similar article. W. H. Joyce, Jr. 2,351,818; June 20.
Shoe uppers, Machine for ornamenting. R. R. Campbell. 2,351,660; June 20.
Shower head. J. S. Judell. 2,351,819; June 20.
Shutter. H. C. Deckel, E. Maurer and F. X. Stömmer. 2,351,932; June 20.
Signaling system. H. E. Vaughan. 2,352,142; June 20.
Silicon-iron alloys, Treatment of. S. L. Burgwin. 2,351,922; June 20.
Silver preparation, Production of. M. Kollmar. 2,351,974; June 20.
Siphon drain for tank roofs, Inverted. J. H. Wiggins. 2,351,850; June 20.
Skeins, Process and apparatus for spot-dyeing. C. J. Perkins. 2,351,701; June 20.
Skid chain applier. R. Dabbs. 2,351,601; June 20.
Slicing device. E. H. Sager. 2,352,125; June 20.
Snap clamp. G. A. Tinnerman. 2,351,790; June 20.
Sound band matrices, Producing. H. Westerkamp. 2,352,052; June 20.
Sound recording and reproducing apparatus. P. S. Gay. 2,351,948; June 20.
Sound records, Production of. F. Steube. 2,352,032; June 20.
Speed regulator. A. G. Ten Eyck. 2,352,136; June 20.
Spindle for textile mill use. H. Gleitz. 2,351,951; June 20.
Spinning machine. A. Lodge. 2,351,772; June 20.
Sponge metals and alloys, Reducing ores and forming. B. A. Jeffery. 2,351,765; June 20.
Spool and container therefor. W. F. Punte. 2,351,782; June 20.
Spooling apparatus. C. J. Dentzer, G. W. Shurmer, and O. J. Vanek. 2,351,669; June 20.
Spring nets for mattresses, seat-cushions and the like, Method and device for manufacturing. H. Huttner. 2,351,923; June 20.
Stabilization of cellulosic fabrics with oxymethyl quaternary salts. L. H. Bock and A. L. Houk. 2,351,581; June 20.
Stand: *See*—
  Supporting stand.
Staple and making the same. T. T. Greenwood. 2,351,608; June 20.
Staple extractor. R. Peterson. 2,351,703; June 20.
Steel house construction. H. G. Kellogg. 2,351,820; June 20.
Stencil and stencil backing. W. H. Nichols. 2,351,696; June 20.
Stoker. W. T. Hanna. 2,351,959; June 20.
Stoker apparatus. R. A. Foresman. 2,352,092; June 20.
Store shelving display facing. A. N. Hornung. 2,352,100; June 20.
Stoves and furnaces, Safety by-pass for. P. Wingert. 2,352,057; June 20.
Straightening machine for sheet metal plates. F. Ungerer. 2,352,040; June 20.
Strip dispenser and moistening means for same. T. R. Gautier. 2,352,149; June 20.
Strip-feeding mechanism. P. S. Smith. 2,352,131; June 20.
Striping instrument. A. J. Tegethoff. 2,351,847; June 20.
Succinic acids, Production of. R. T. Dean and E. O. Hook. 2,351,667; June 20.
Suit, One-piece. H. E. Shikles, Jr. 2,352,128; June 20.
Sulphanilamide addition compound. J. Rosicky. 2,352,012; June 20.
Sulphonyl chlorides, Producing. A. L. Fox. 2,351,674; June 20.
Sulphur dioxide, Absorbing. G. V. Palmrose. 2,351,780; June 20.
Support: *See*—
  Work support.
Supporting stand. W. Harris. 2,351,679; June 20.
Surgical pump. J. C. Marsh. 2,351,828; June 20.
Suspension for beds and the like, Antioscillation. L. Sebestyen. 2,352,024; June 20.
Switch: *See*—
  Selector switch.
Switch construction. S. I. Lindell and A. Van Ryan. 2,351,826; June 20.
Switch system, Three-dimensional crossbar. T. L. Bowser and F. H. Slaymaker. 2,351,584; June 20.
Synchronizing arrangement. G. Wegener. 2,352,050; June 20.
Tamper, screed and deflector construction for road finishing machines. H. H. Barber. 2,351,592; June 20.
Tape directing device. G. Sim. 2,351,714; June 20.
Tape dispensing apparatus and moistening means therefor. T. R. Gautier. 2,352,150; June 20.
Tape dispensing container. W. F. Punte. 2,351,781; June 20.
Telegraph transmitter. O. Steiner. 2,352,031; June 20.
Telegraphic receiving perforator. H. Wüsteney and E. Löikes. 2,352,060; June 20.
Telephone system. A. E. Joel, Jr. 2,351,766; June 20.
Telephone system. F. Kessler. 2,352,107; June 20.
Telephone system, Automatic. G. R. Eaton. 2,351,808; June 20.
Television images, Producing. H. Strubig. 2,351,889; June 20.
Television system, Color. G. L. Beers. 2,351,760; June 20.
Terpene resin. A. L. Rummelsburg. 2,351,786; June 20.
Tetracyclic ketones. L. Ruzicka and M. W. Goldberg. 2,351,637; June 20.
Therapeutic gold compound. A. B. Sabin and J. Warren. 2,352,124; June 20.
Three-way valve. D. W. Hopkins. 2,351,613; June 20.
Timer, Automatic electric self-posting. J. W. Rouprich. 2,351,707; June 20.
Timer, Milking. E. J. Gengler. 2,351,675; June 20.
Tins and other containers, Opening. B. Johnsen. 2,351,971; June 20.
Tinting mechanism. W. Whitehead and W. J. Elvin. 2,351,729; June 20.
Tissue filler. G. E. Hobdell. 2,352,099; June 20.
Toilet seat. P. J. Sperzel and K. J. G. Leufvenius. 2,352,133; June 20.
Tool: *See*—
  Burring tool. **Hand tool.**
  Cutting tool. Lathe and lathe tool.
  Eyelet setting tool. Machine tool.
Tool with hard metal cutting edge. R. Braun. 2,351,916; June 20.
Torch tip. E. H. Smith. 2,351,787; June 20.
Towel. A. D. Barr. 2,352,067; June 20.
Toy. F. M. Hoover. 2,351,762; June 20.
Toy building elements, Method and apparatus for molding. A. Sommerfeld. 2,351,885; June 20.
Track for track-laying vehicles. N. B. Wales. 2,351,647; June 20.
Transfer molding press. G. P. Bohrer. 2,351,582; June 20.
Translating and recording device. E. H. Clark. 2,351,663; June 20.
Translator. J. O. Ballinger and E. B. Worthington. 2,351,904; June 20.
Transmission control in two-way signal transmission systems. K. H. Davis. 2,352,081; June 20.
Transmitting mechanism. D. Balk. 2,351,591; June 20.
Trap gun. H. F. Mossberg. 2,351,869; June 20.
Tray, Packing. R. D. Friday. 2,351,754; June 20.
Treating process. J. W. Payne. 2,351,875; June 20.
Truck lock for crawler tractors, Controllable. C. E. Jones. 2,351,685; June 20.
Tube cleaning apparatus. D. E. Schott. 2,352,019; June 20.
Tube system and apparatus, Luminescent. C. P. Boucher and F. A. Kuhl. 2,352,073; June 20.
Tubular bodies, Resilient. F. Tölke. 2,352,038; June 20.
Tungsten from its ores, Recovery of. R. G. Hall. 2,351,678; June 20.
Typewriter-calculating machine. R. Anschutz and A. Merz. 2,351,897; June 20.
Typewriting-calculating machine. R. Anschutz. 2,351,896; June 20.
Underground piping. H. A. Starret. 2,351,642; June 20.
Upholstery springs, Machine for fabricating. E. L. Bronstien and J. G. Strandberg. 2,351,659; June 20.
Vaginal pack device. O. Popper. 2,351,836; June 20.
Valve: *See*—
  Gate valve. Rotary valve.
  Power-operated valve. Three-way valve.
  Relief valve.
Valve assembly. A. L. Parker. 2,351,871; June 20.
Valve mechanism. W. F. Engel. 2,351,672; June 20.
Vegetables, fruits, and similar vegetable food by drying and briquetting, Preserving. A. Gernow. 2,351,950; June 20.

Vehicle: *See*—
  Elevating bed vehicle. Motor vehicle.
  Excavating, loading, and dumping vehicle.
Vehicle body with a chassis or an axle aggregate, Movable connection of a. K. Wilfert and B. Barényi. 2,352,054; June 20.
Vehicle construction. N. Milner. 2,351,829; June 20.
Vending machine. F. Niewoehner. 2,351,779; June 20.
Ventilator. C. J. Weller. 2,351,794; June 20.
Vinyl esters, Stabilization of. A. Berne-Allen, Jr. 2,351,658; June 20.
Voltage stabilizer. R. Lee. 2,351,980; June 20.
Vulcanizing method and apparatus. T. M. Knowland and W. C. Bleher. 2,351,861; June 20.
Wall structure and making the same. W. S. Miles and P. A. Voigt. 2,351,994; June 20.
Washer strip and method and apparatus for producing same. O. J. Poupitch. 2,352,118; June 20.
Water treating apparatus. E. Pick. 2,351,835; June 20.
Weighing apparatus. V. Popov. 2,352,005; June 20.
Weight indicating means. A. R. Gold and C. J. Heinisch. 2,351,606; June 20.
Welder's head. R. M. Rickert. 2,352,007; June 20.
Welding apparatus. A. R. Swenson. 2,351,722; June 20.
Welding stinger. G. H. Thompson. 2,351,789; June 20.
Wheel suspension for vehicles. S. Wulff. 2,351,650; June 20.
Wheel suspension, Independent. S. Wulff. 2,351,651; June 20.
Wheel trim and securing means therefor. C. B. Aske, Jr. 2,351,655; June 20.
Wheel type trenchers, Depth indicator for. W. G. Van Voorhis. 2,351,792; June 20.
Windmill control. A. Fagerlund. 2,352,089; June 20.
Windshield cleaner control. A. Rappl. 2,352,120; June 20.
Window operator, Awning type. A. H. Soule. 2,352,029; June 20.
Wing slot closure member. R. J. Woods. 2,352,144; June 20.
Wire splicer, Grooved trolley. E. E. Arnold. 2,341,900; June 20.
Wooden patterns, Coating. E. M. Bright. 2,351,919; June 20.
Wool treating material, Mineral. W. M. Bergin and A. L. Simison. 2,351,802; June 20.
Work support. E. J. Ray. 2,351,709; June 20.
Yeast from yeast suspensions, Separation of. M. P. J. M. Jansen. 2,351,970; June 20.

CLASSIFICATION OF PATENTS

ISSUED JUNE 20, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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233: 2,351,890
309— 4: 2,352,041
312— 94: 2,351,779
192: 2,351,597
315— 39: 2,351,895
121: 2,351,915
228: 2,352,073
230: 2,351,603
257: 2,351,914
282: 2,351,616
334: 2,351,682

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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2,351,616: 315— 282
2,351,679: 189— 34
2,351,682: 315— 334
2,351,686: 21— 2
2,351,693: 226— 5

2,351,696: 117— 35.5
2,351,699: 15—250.4
2,351,711: 30—136.5
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2,352,052: 18— 48.5
2,352,059: 196— 28
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2,352,082: 175— 183
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16: Des.138,124
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U. S. GOVERNMENT PRINTING OFFICE: 1944

THE

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Patents	436—No.	2,352,156 to No.	2,352,591, inclusive.
Designs	43—No.	138,134 to No.	138,176, inclusive.
Total	680		

Disclaimers

2,282,153.—*Benjamin P. Baker*, Turtle Creek, and *Andrew H. Bakken*, Edgewood, Pa. CIRCUIT INTERRUPTER. Patent dated May 5, 1942. Disclaimer filed May 27, 1944, by the assignee, *Westinghouse Electric & Manufacturing Company*.

Hereby enters this disclaimer to claims 11, 12, 13, and 14 of said specification.

2,324,409.—*Rollo Marple*, Jackson, Mich. LATCH. Patent dated July 13, 1943. Disclaimer filed June 7, 1944, by the assignee, *Hancock Manufacturing Company*.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

Reservation Clauses Not Permitted

RULE 44. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

Drawings

RULE 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

RULE 52—EXTRACT

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Notice—Attorney's Address

Many letters are being returned to this office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Condition of Applications Under Examination at Close of Business June 10, 1944

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,040; Trade-Mark Division, 1,688. Oldest new case, June 30, 1943; oldest amended, Aug. 2, 1943.)
(The dates given are 1943 except where † indicates 1944)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting action	Oldest amended application awaiting action	No. of applications awaiting action
1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	†Jan. 24	Dec. 10	434
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Nov. 30	Dec. 4	603
3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Nov. 13	Oct. 12	957
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 28	Oct. 11	490
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Oct. 1	Oct. 2	1,147
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 18	Dec. 28	1,142
7. JARBOE, C. G., Optics, Photography	†Jan. 15	†Jan. 28	752
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Jan. 27	Nov. 10	496
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	†Jan. 5	Dec. 27	687
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Feb. 14	†Feb. 2	267
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Sept. 24	Sept. 15	1,064
13. DONNELLY, A. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning.	†Jan. 10	Dec. 31	563
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Feb. 4	†Jan. 29	643
15. HENKIN, BENJ., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Plastics	†Jan. 7	†Jan. 4	748
16. SPENCER, C. J., Telegraphy; Telephony	†Jan. 5	†Jan. 5	585
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Oct. 7	Oct. 4	513
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 7	Aug. 2	871
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Dec. 10	Dec. 6	529
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	†Feb. 1	Nov. 18	345
21. THOMPSON, T. J., Textiles	Dec. 31	Nov. 29	433
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Oct. 22	Oct. 22	1,083
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 19	Aug. 4	177
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Jan. 3	†Jan. 5	524
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Nov. 2	Dec. 2	729
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 14	Sept. 10	921
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 24	Sept. 24	497
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders, Pistons.	Sept. 16	Sept. 3	745
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 24	Dec. 23	688
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Sept. 20	Sept. 20	1,051
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 30	Dec. 31	1,052
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 24	Nov. 26	631
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	†Jan. 26	†Jan. 20	639
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	†Jan. 3	†Jan. 7	575
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	†Feb. 10	†Feb. 17	498
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 24	†Jan. 26	442
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 4	Oct. 22	745
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Oct. 20	Oct. 14	503
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 23	Dec. 24	669
40. DRUMMOND, E. J., Receptacles (part); Packages	†Jan. 22	†Jan. 27	605
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 6	Sept. 21	424
42. MARANS, H., Electric Signaling	†Jan. 24	†Feb. 5	320
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Nov. 24	Nov. 27	738
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 1	Oct. 4	414
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 27	Nov. 24	1,038
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Nov. 2	Nov. 2	479
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	†Jan. 27	Dec. 9	599
48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters	Nov. 13	Nov. 11	805
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 24	Dec. 9	655
50. LEVIN, SAMUEL, Synthetic Resins; Rubber (part)	Dec. 3	Dec. 3	1,377
51. CROCKER, A. W., Radiant Energy, Multiplex Telephony, Modulators	Oct. 27	Oct. 27	1,399
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits; Ornamentation.	Nov. 20	Nov. 29	786
53. PECK, M. K., Label Fasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	†Feb. 7	Nov. 10	433
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	June 30	Aug. 10	815
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Sept. 29	Oct. 4	630
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Nov. 16	Nov. 22	749
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 20	Oct. 12	771
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 25	Dec. 14	649
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds	Oct. 16	Oct. 16	1,372
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 30	Sept. 30	837
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	†Jan. 6	Dec. 20	460
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Jan. 5	Dec. 7	881
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Oils and Fats	Sept. 1	Oct. 6	953
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	†Jan. 15	†Jan. 15	1,016
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Aug. 24	Aug. 20	879
TRADE-MARKS: RICHMOND, F. A.	†Apr. 3	†May 3	1,688
DESIGNS: KALUPY, H. H.	†May 3	†May 17	518

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE REED

No. 4,826. Decided March 6, 1944

[141 F.(2d) 512]

PATENTABILITY—OIL HEATER.

Claims to an oil heater *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Leech & Radue (*Mr. Francis B. Leech* of counsel) for Reed.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

All the claims (19 to 23 inclusive and 25 and 26) of appellant's application for a patent relating to a steam generator were rejected by the Primary Examiner of the United States Patent Office. Upon appeal to the Board of Appeals, the Examiner's decision was affirmed upon the grounds stated by the Examiner, and from the decision of the Board the applicant has appealed to this court.

Claim 19 is illustrative of the subject-matter involved and reads:

19. In an oil heater of the type comprising a furnace chamber, means to burn a fuel therein, radiantly heated tubes in said chamber, means to circulate oil through said tubes for the pyrolytic conversion thereof, a convection chamber through which the products of combustion pass from the furnace chamber, a multiple-series coil therein, the combination of means to introduce relatively cold water into one end of said coil, means to introduce additional warmer water into an intermediate part of said coil, means to remove a water-steam mixture which is preponderantly water from the other end of said coil, and means to maintain the water proportion in said coil, said warmer water introducing means including a recirculation pump.

The references relied upon are: French patent, 786,653, September 7, 1935; Wallis, 1,945,581, February 6, 1934; Bailey et al., 2,170,345, August 22, 1939.

Appellant's alleged invention involves the production of steam from the waste heat generated in connection with oil refineries. In doing this, he provides a boiler which is stated to be "of the once-through type in the convection bank of an oil heater" and it is provided with a positive water-flow control "so that the discharge is substantially wet, whereby precipitation of solids in the boiler tubes is prevented."

Appellant states that the principal feature of his invention is providing a wet coil in the convection bank of the oil heater and operating it at such a rate that the tubes are adapted to heat the water without completely vaporizing it.

In view of our conclusion, we think it is important to recite the following from appellant's brief:

It is not claimed that this improvement is of basic character or that it has revolutionized the art. It is a simple invention, in a crowded field, that has proved profitable for the refiner to adopt.

Claim 19 was rejected by the Primary Examiner on the patent to Wallis in view of the French patent and the patent to Bailey et al.

The Wallis device is a steam generating system used for the same purpose as that of appellant—the utilization of waste heat in connection with the treatment of oil. Without describing the Wallis structure, it is sufficient to say that it shows substantially all that appellant shows except the particulars which are hereinafter mentioned. Wallis uses a thermo-syphon to cause the circulation of water through the drum, and the tubes are kept continuously wet.

Bailey et al. show a liquid level control system in a steam generator, and they use a pump in the same relation as Wallis uses the thermo-syphon. They recognized the importance of keeping the tubes wet and so state in their specification.

The French patent was cited by the Examiner for the reason that it discloses the use of a pump to return the hot water and accomplish the same purpose as the thermo-syphon system of Wallis.

It will be seen from the foregoing that appellant's idea of saving waste heat made in connection with an oil refinery and utilizing it to make steam for running pumps and the like is old in the art. Appellant, desiring a fast and efficient circulation of the water in order to accomplish the purposes stated, used a pump where Wallis used a thermo-syphon. This was plainly suggested to him by the Bailey et al. and French patents. Wallis taught the importance of keeping the pipes wet and thus avoid incrustation. It is thus seen that every idea of appellant's application which he stresses as of most importance is separately shown in the prior art, and the question occurs as to whether or not the combining of these ideas into a structure such as appellant has produced amounted to invention.

Appellant states that with the exception of Wallis, the art is "non-analogous"; that Wallis is inoperative; that Wallis is a "paper patent"; and that appellant's device has gone into successful commercial use. There is nothing in this record that sustains the view that Wallis is a paper patent and inoperative. There is, to say the least, a very meager showing on the question as to "commercial success" as that term is ordinarily understood in patent law. If it were shown to be a fact that Wallis was inoperative and that it was a paper patent, it would not be, under the circumstances at bar, a controlling consideration. If we were in doubt as to the correctness of the holding of the Board with respect to the appealed claims, we might consider proper evidence relating to commercial success in the operation of appellant's device; but in any event, we find little if anything in the instant record pertinent on that particular question. We cannot agree with appellant that any of the references is in a non-analogous art.

It seems that what appellant has done is nothing more than that which one skilled in the art would do under similar circumstances. If he wanted to

utilize waste heat in an oil refinery, by consulting Wallis he could have confirmed his views as to the advisability not only of adopting this system but of keeping the pipes wet. As a skilled mechanic, he might have concluded that the thermosyphon system for circulating water was less advantageous than the pump of Bailey et al. or of the French patent, so he used the pump. We see nothing inventive over the prior art cited in the structure defined by appellant's claim 19.

The other claims, it seems, all necessarily depend for patentability upon the patentable status of claim 19. The limitations in the remaining claims are clearly not sufficient to make them patentable if claim 19 is rejected for the reasons hereinbefore stated. The limitations of said claims relied upon by appellant are set out and fully discussed in the decisions below. We find no reason for separately stating them and discussing the matter at length. We agree with the conclusion reached by the tribunals below as to the patentable status of all the claims on appeal.

The decision of the Board of Appeals is affirmed.
Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE HASS ET AL.

No. 4,819. Decided February 7, 1944

[141 F.(2d) 122]

1. PATENTABILITY—INVENTION—HOMOLOGOUS SERIES.
"It is well understood by chemists that the members of a homologous series of chemical compounds possess the same principal characteristics; that generally the chemical and physical properties of the individual members vary gradually from member to member; and that knowledge of the properties and chemical behavior of one of the members of the series suggests to the chemist the properties and chemical behavior of the other members of the series."

2. SAME—SAME—SAME.
"We are of opinion that the tribunals of the Patent Office were right in holding that, in order to be patentable, novel members of a homologous series of chemical compounds must possess some unobvious or unexpected beneficial properties not possessed by a homologous compound disclosed in the prior art."

3. CLAIMS—"MARKUSH" TYPE.
"The tribunals of the Patent Office concurred in holding that as one of the homologues of the group claimed in claim 1 was old in the art and was expressly excluded from the claim, and as it was not shown that the group claimed possessed any material or significant properties or utility different from that possessed by the excluded homologue, claim 1 was not a proper Markush type of claim. That holding is in conformity with the holding of the Commissioner of Patents in Ex parte Burke [1934 C. D. 5, 441 O. G. 509], which holding we approve."

4. PATENTABILITY—NITROOLEFINS.
All the claims of appellants' application relating to nitroolefins *Held* to have been properly rejected.

APPEAL from the Patent Office. Affirmed.

Mr. Henry C. Parker (*Mr. John Boyle, Jr.*, of counsel) for Hass et al.

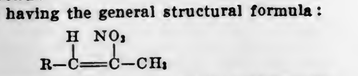
Mr. W. W. Cochran for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 1, 2, and 3) in appellants' application for a patent for an alleged invention relating to new and useful nitroolefins.

The claims read:

1. Nitroolefins having the general structural formula:



wherein R is a member of the group consisting of hydrogen and an alkyl group having in excess of one carbon atom.
2. 2-Nitropropene.
3. 2-Nitro-2-hexene.

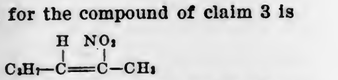
The references cited in the record and relied upon by the Primary Examiner are:

Beilstein's "Handbuch" (4th ed. 1918), vol. I, page 213;
Beilstein's "Handbuch" (4th ed. 1918), vol. V, page 483;
Weiland, "Ber. deutsch. Chem. Ges.," vol. 52, pages 899 to 902 (1919);
Henry, "Chem. Centralblatt," 1897, I, page 741;
Angeli et al. "Chem. Centralblatt," 1910, II, page 732;
Kanao, "Chem. Abstracts," vol. 22, pages 1588–1589 (1928);
Schmidt, "Chem. Abstracts," vol. 23, page 372 (1929).

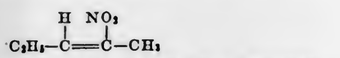
It appears from the record and the briefs of counsel that claim 1 covers a series of chemical compounds, including the compounds covered by claims 2 and 3; that the formula for the compound of claim 2 is



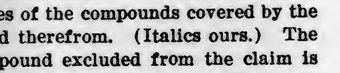
that the formula for the compound of claim 3 is



that one of the other members of the series of compounds covered by claim 1, referred to in the Examiner's decision as "2-nitro-2-pentene," has the formula



and that as claim 1 recites that "R is a member of the group consisting of hydrogen and an *alkyl group having in excess of one carbon atom*," one of the homologues of the compounds covered by the claim is excluded therefrom. (Italics ours.) The homologous compound excluded from the claim is referred to by the Primary Examiner as "2-nitro-2-butene" and has the formula



In rejecting claim 1, the Primary Examiner, in his original statement to the Board of Appeals, among other things, said:

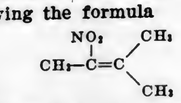
Claim 1 is rejected as reciting an improper artificial genus.

* * * * * * *

That the exclusion of 2-nitro-2-butene is arbitrary appears on the face of the claim. The exclusion is necessary because this compound is old, being disclosed in the Angeli et al reference relied on (by the name "mononitrodimethylethylene", cf. the formulae). The artificial class represented by the definitions of R is thus in substance all of the members of a natural class except one old member. Claim 1 is further rejected as being unpatentable over Angeli et al.

Claim 1 was also rejected on the reference Beilstein's "Handbuch," vol. I, the Examiner stating

that that reference disclosed "nitro-trimethylethylene," having the formula



which is an isomer of the compound 2-nitro-2-pentene, hereinbefore referred to and covered by claim 1.

Claim 2 was rejected on the Angeli et al. reference, the Examiner stating that the claim was—

drawn to 2-nitro-propene, the *next lower homologue* to the compound disclosed by Angeli et al., is rejected on the same reference; no material, significant difference in properties or utility is shown to distinguish the claimed compound from the *next adjacent homologue disclosed in the reference.* (Italics not quoted.)

Claim 3 was rejected as not reading on the elected species, no generic claim having been allowed.

Claims 1 and 2 were also rejected by the Examiner on the Weiland reference. In rejecting those claims, the Examiner also cited the reference Beilstein's "Handbuch" (4th ed. 1918), vol. V, page 483, as well as the references Henry, Kanao, and Schmidt. The Board of Appeals, however, in affirming the Examiner's decision, relied solely upon the references Angeli et al. and Beilstein's "Handbuch" (4th ed. 1918), vol. I, page 213, reversed the Examiner's rejection so far as the Weiland reference was concerned, and, as we understand the Board's decision, also held that the references Beilstein's "Handbuch" (4th ed. 1918), vol. V, Henry, Kanao, and Schmidt were not pertinent. Accordingly, the only references referred to by counsel for the parties which need be considered here are Angeli et al. and Beilstein's "Handbuch" vol. I.

It will be observed that as appellants deliberately excluded from claim 1 one of the homologues (2-nitro-2-butene) of the compounds claimed therein, and as that compound was old, being disclosed in the Angeli et al. reference, the Primary Examiner held that the claim was not a proper Markush form of claim, and was, therefore, unpatentable.

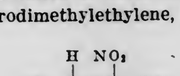
In concluding his original statement to the Board, the Primary Examiner stated that appellants had not shown that the claimed compounds possessed any unobvious properties and utility, and that they relied

solely on the fact that the compounds in the artificial group, *as it is drawn*, are new. Even if the group were a proper one, it is submitted that novelty alone is not a necessary indication of patentability. *Invention* is a necessary requirement. Where closely related homologues and isomers are known, no invention is seen in preparing additional members of a known class of compounds, even though the additional members are specifically new. Applicants have not shown that there is anything unobvious about so much as a single one of the claimed compounds. (Italics quoted.)

The Solicitor for the Patent Office states in his brief, in substance, that had claim 1 not been limited to an "alkyl group *having in excess of one carbon atom*," it would have been a generic claim and would have covered a series of compounds, including the compound 2-nitro-2-butene, and as that compound was old, being disclosed in the Angeli et al. reference, the claim would have been unpatentable (italics not quoted); that as appellants have deliberately excluded that compound, the claim is proper only in the event it be held that the excluded compound "is so distinct in properties from the other members of the class that it is inoperative for the purposes desired." In support of his contention, the Solicitor cites the case of *Ex parte Burke*, 1934 C. D. 5, 441 O. G. 509, wherein it was stated, *inter alia*:

If, on examination of a generic Markush type claim, it be found that the applicant has included one or more members known to be old in the art for the same purpose as in the applicant's invention, the group in its entirety must fail of recognition in exactly the same manner as would have been the case had the group of elements of the claim been identified by a single term. In such contingency, a formula of lesser scope may be invoked, provided that the remaining members of the group have a common quality which is distinctive from the characteristic of the major group and which itself imparts patentable merit to the subgroup over the generic group.

The Solicitor further states in his brief that as appellants have failed to establish that the compound mononitrodimethylethylene, having the formula



disclosed in the Angeli et al. reference, which is homologous to the compounds covered by claim 1, differs so in properties from the members of the claimed group that it is inoperative for the purposes desired, the claim is unpatentable.

Subsequent to the Examiner's statement to the Board of Appeals, counsel for appellants filed two affidavits which are of record. One by one of the joint applicants (Henry B. Hass), and the other by Harry V. Wann, head of the Romance Language Department at Indiana State Teachers College, Terre Haute, Ind.

The Wann affidavit includes a translation of the original article by Angeli et al., presumably the basis of the disclosure in the Angeli et al. reference of the compound mononitrodimethylethylene.

The affidavit of Hass pertains to the reference Beilstein's "Handbuch" vol. I. It is stated in the affidavit that the reference cited was based upon a disclosure by one Haitinger in Monatshefte für Chemie, 2, 290 (1881); that the affiant obtained a copy of the original Haitinger article; and that the article failed in many important particulars to supply the necessary information which would enable him or anyone skilled in organic chemistry to produce the compound nitro-trimethyl-ethylene, which is a 2-nitro-2-pentene, isomeric with the normal 2-nitro-2-pentene covered by claim 1. The affiant further states, however, that one H. W. Jacobson, a skilled organic chemist, had, under affiant's supervision, prepared the compound referred to in the reference by another method. He concluded, therefore, that Haitinger had not, in fact, produced the compound referred to in the reference.

Upon the filing of the aforesaid affidavits, the Board of Appeals remanded the cause to the Examiner for reconsideration.

Thereafter, in his statement to the Board, the Primary Examiner said, among other things, that the translation incorporated in the affidavit of

Wann named, described, or identified the compound mononitrodimethylethylene, disclosed in the Angeli et al. reference; that the reference was cited for the purpose of showing that the compound was old; and that no process claims were involved in the case. The Examiner reported somewhat fully regarding the Hass affidavit, his conclusion being that the statements contained therein were insufficient to negative the adequacy of the disclosure in Beilstein's "Handbuch" vol. I, of the compound nitro-trimethyl-ethylene, the isomer of the compound (2-nitro-2-pentene) covered by claim 1.

The Board, in its decision affirming the Examiner's rejection of claims 1 and 2 on the Angeli et al. reference, and the further rejection of claim 1 on Beilstein's "Handbuch" vol. I, held that the Angeli et al. reference disclosed the compound 2-nitro-2-butene, one of the homologues of the compounds covered by claims 1 and 2, and that the reference Beilstein's "Handbuch" vol. I, disclosed the compound nitro-trimethyl-ethylene, the isomer of the compound (2-nitro-2-pentene) covered by claim 1. In so holding, the Board, among other things said:

> The Examiner has rejected claim 1 as reciting an improper artificial genus because in the Markush group, although R may be hydrogen, it may not be an alkyl group having one carbon atom but it may be an alkyl group having two or more carbon atoms. In view of the radical difference between a hydrogen atom and alkyl groups, we believe, in any event, applicants should make the showing required by the Examiner why R is so defined as to exclude at R an alkyl group of one carbon atom.
>
> On this record we assume that applicants anticipated the rejection made by the Examiner on prior art and drew their broad claim accordingly. Applicants by this device cannot avoid the result imposed by *Ex parte Burke*, 1934 C. D., 5, which is the failure of the entire group. In any event, applicants have made no showing that the Examiner is wrong in his rejection and their contention, that merely because a group in a compound is new the compound is patentable, is without definite support in law.
>
> That members of a homologous series should differ among themselves is obviously to be expected and such difference would not alone result in patentability for the compound.

It is contended here by counsel for appellants, among other things, that the formula for the compound mononitrodimethylethylene (2-nitro-2-butene), disclosed in the Angeli et al. reference, was written by the authors of the original article, to which reference was had in the Wann affidavit, "either in advance of making" the compound "or at least in advance of properly identifying it."

We are not in agreement with those views. The affidavit of Wann, which includes the translation hereinbefore referred to, shows on its face that the compound mononitrodimethylethylene (2-nitro-2-butene) was first made by the authors of the article and then identified by them both by name and by formula. Furthermore, although one of the applicants, Henry B. Hass, presented an affidavit in this case relative to the reference Beilstein's "Handbuch" vol. I, one of the references relied upon by the Board, there is nothing in his affidavit or elsewhere in the record to indicate that the compound disclosed in the Angeli et al. reference was not properly made and identified, or that the group of compounds covered by claim 1, which claim, as hereinbefore noted, also covers the 2-nitropropene compound of claim 2, possessed any property, quality, or utility which differed unexpectedly from the properties, qualities, and utility of the homologous compound mononitrodimethylethylene (2-nitro-2-butene), disclosed in the Angeli et al. reference. It is unnecessary, therefore, that we discuss the disclosure contained in Beilstein's "Handbuch" vol. I, or its application to the issues here presented.

It is further argued by counsel for appellants that appellants ought not to be required, in order to sustain the patentability of claims 1 and 2, to establish that the compounds covered by those claims possess some unexpected or unobvious property or utility not possessed by the homologous compound disclosed in the Angeli et al. reference, and that claims to novel chemical compounds should be held to be patentable, regardless of the prior art, because such compounds tend substantially to promote the progress of science and useful arts.

[1] It is well understood by chemists that the members of a homologous series of chemical compounds possess the same principal characteristics; that generally the chemical and physical properties of the individual members vary gradually from member to member; and that knowledge of the properties and chemical behavior of one of the members of the series suggests to the chemist the properties and chemical behavior of the other members of the series. See Holleman & Walker, Textbook of Organic Chemistry, 5th ed. 1920, pp. 41, 42, and Paul Karrer, Organic Chemistry, 1938, p. 23. That appellants were aware of those facts is evidenced by the disclosure in their involved application. They describe only two members of the claimed series, but claim all of the members of the series except the one disclosed in the Angeli et al. reference. Apparently, appellants were of opinion that as they had produced and described two members of the homologous series covered by claim 1, it would not involve invention to produce the other members of the series covered by that claim.

[2] We are of opinion that the tribunals of the Patent Office were right in holding that, in order to be patentable, novel members of a homologous series of chemical compounds must possess some unobvious or unexpected beneficial properties not possessed by a homologous compound disclosed in the prior art.

It is elementary that novelty alone is not sufficient to impart patentability to a claim. Invention must be present. See *Thompson* v. *Boisselier*, 114 U. S. 1, 31 O. G. 377; *In re Lincoln et al.*, 29 C. C. P. A. (Patents) 942, 126 F.(2d) 477, 53 U. S. P. Q. 40, 43, 541 O. G. 668; *Cuno Engineering Corp.* v. *Automatic Devices Corp.*, 314 U. S. 84, 51 U. S. P. Q. 272, 534 O. G. 699.

With reference to claim 1 being, as it is argued, a proper Markush type of claim, counsel for appellants states in his brief that—

> Previous to the present decision of the Board, Markush type claims had been held "improper" only when they *included* members not generally recognized as possessing a common general quality or characteristic. Now the Board hopes to extend this doctrine to the case where an excluded member, whether old or new, likewise makes the claims "improper". (Italics quoted.)

[3] As hereinbefore stated, the tribunals of the Patent Office concurred in holding that as one of the homologues of the group claimed in claim 1 was old in the art and was expressly excluded from the claim, and as it was not shown that the group claimed possessed any material or significant properties or utility different from that possessed by the excluded homologue, claim 1 was not a proper Markush type of claim. That holding is in conformity with the holding of the Commissioner of Patents in *Ex parte Burke*, supra, which holding we approve.

Counsel for appellants argues, however, that the decision of the Board in the instant case is contrary to the decisions of the Patent Office tribunals in the cases of *Ex parte Dean*, 38 U. S. P. Q. 499, *Ex parte Shelton*, 49 U. S. P. Q. 36, and *Ex parte Frey et al.*, 53 U. S. P. Q. 391.

In the case of *Ex parte Dean*, supra, it was held that an applicant might omit one member of a chemical group in a Markush type of claim, provided that member might properly have been included therein and was not disclosed in the prior art. It appears that in that case the original claims included beryllium, and the claims were rejected on prior art. The reference was overcome, however, by the applicant by an affidavit under rule 75 of the Rules of Practice in the United States Patent Office. The applicant, nevertheless, omitted beryllium from the claims on appeal. The Examiners in Chief held that under the related circumstances the applicant had a right to voluntarily omit beryllium from the claims, and that the decision in *Ex parte Burke*, supra, was not intended to apply to the related facts.

In the case of *Ex parte Shelton*, supra, neither of the claims quoted is a Markush type of claim. It appears from the decision in that case that the composition claimed was a derivative of ephedrine; that appellant's claimed composition was of the "levo" type; that it was an improvement over ephedrine for the treatment of certain diseases; that the application as originally filed also disclosed a product of the "racemic" type, which was also claimed to be an improvement over ephedrine and was the equivalent of the "levo" type. The opinion recites that it was discovered that the racemic compound was old in the art, and that appellant admitted that he was not entitled to repatent the old composition, but claimed that he was entitled to a patent for the new product and a method of making the same, which method and product could not be predicted from the known characteristics of the prior art material. The Examiners in Chief allowed claims to the new material and to the method of making the same. The case, obviously, has no application to the issues here presented.

It appears from the decision in the case of *Ex parte Frey et al.*, supra, that one of the joint applicants (Frey) was a joint applicant for a patent previously granted to a common assignee. The claims involved in the Frey case, supra, were of the Markush type and excluded, among other things, silver nitrate. The applicants were precluded from including silver nitrate in the claims there involved because of the patent previously issued which covered that substance. In their decision allowing the claims, the Examiners in Chief stated, among other things, that the involved application and the patent issued to the common assignee disclosed a comprehensive investigation of the particular subject matter there involved, and that

> "Having obtained partial protection in the already-granted patent, we see no reason why the remaining discoveries involved in the investigation would not be protected in a second patent, granted on a copending application, if a clear line of division is mantained."

Whatever might be said as to the correctness of the decision in the Frey case, supra, the distinction between that case and the case at bar is that in that case the question involved was considered by the Board to be one of double patenting, whereas that issue is not here involved.

For a further discussion of the Markush type of claim, see *In re Swenson et al.*, 30 C. C. P. A. (Patents) 764, 132 F.(2d) 336, 548 O. G. 413.

[4] We are of opinion that the tribunals of the Patent Office were right in rejecting the appealed claims. Accordingly, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE HASS ET AL.

No. 4,821. Decided February 7, 1944

[141 F.(2d) 130]

PATENTABILITY—1-CHLORO-1-NITROBUTANE.

Appellants having failed to establish that their claimed compound, "1-chloro-1-nitrobutane," has any unexpected or unobvious beneficial properties not possessed by the homologous compound, "1-chlornitripropane," disclosed in a prior art reference, *Held* that, on the record presented, the appealed claim was properly rejected.

APPEAL from the Patent Office. Affirmed.

Mr. Henry C. Parker (*Mr. John Boyle, Jr.*, of counsel) for Hass et al.

Mr. W. W. Cochran for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting the single claim (claim 1) in appellants' application for a patent for an alleged invention relating to new and useful improvements in "chloronitroalkane."

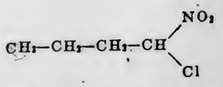
The claim is for a nitro-chloro compound. It reads:

> 1. 1-Chloro-1-nitrobutane.

The references are:

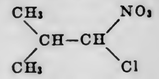
> Zublin, "Ber. deutsch. chem. Ges.," vol. 10, p. 2,085 (1877);
> Henry, "Chem. Centralblatt," 1898 1, p. 193;
> Shaw, "Chem. Centralblatt," 1898 1, p. 439.

The formula for a normal 1-chloro-1-nitrobutane is:



There is some controversy as to the scope of the appealed claim.

It was the view of the tribunals of the Patent Office that the term "butane" is, as stated by the Primary Examiner, "considered generic to both isomers normal and iso," and that the claim reads on the disclosure in the Shaw reference of "1-chloro-1-nitro derivative of isobutane" having the formula



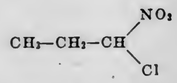
In his statement to the Board of Appeals, the Primary Examiner stated that if appellants' alleged invention was intended to be limited to the normal 1-chloro-1-nitrobutane the claim should be amended to read "1-chloro-1-nitro-n-butane."

Counsel for appellants takes exception to the holdings of the tribunals of the Patent Office as to the scope of the appealed claim, and cites authorities in support of his contention that the claim does not read on the disclosure in the Shaw reference.

Owing to the views we hold as to the other issues in the case, the question of the breadth of the appealed claim is not of vital importance. Accordingly, that issue need not be discussed.

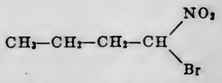
The tribunals of the Patent Office also concurred in holding that even if it be assumed that the appealed claim covered only the normal 1-chloro-1-nitrobutane it was not patentable over the isomer of that compound, which was disclosed in the Shaw reference.

The claim was also held to be unpatentable in view of the Henry reference which discloses the chemical compound "1-chlornitripropane," the formula for which, as stated by the Primary Examiner, is:



That that compound is an adjacent lower homologue to the compound covered by the appealed claim is not questioned.

The claim was also rejected by the tribunals of the Patent Office in view of the Zublin reference, which discloses, according to the Primary Examiner, "1-bromo-1-nitro-butane," the formula for which is:



The Primary Examiner stated that the compound disclosed in the Zublin reference differed from the compound of the claim on appeal "in that the halogen substituent is bromine, rather than chlorine. Bromine and chlorine are members of the same family and as a general proposition, compounds otherwise similar and differing only with respect to the halogen substituent are closely related in properties," and that "It is not shown that the instant case is an exception." The Examiner further stated, in which statement the Board of Appeals concurred, that—

> ordinarily a compound is not patentable over its isomer or over its next adjacent homologue. Organic chemistry is a systematic science, and it is well recognized that in a series of organic chemical compounds the properties of the individual members change by degrees in ascending or descending the series, or in passing from one form to a structural isomeric form. The Examiner recognizes that in certain instances, where the difference in properties is unexpected, the new isomer or new homologue may be patentable; but applicants have demonstrated no reason for excepting the instant case from the operation of the general rule.

Subsequent to the Examiner's statement to the Board of Appeals, appellants filed an affidavit of one Arthur W. Campbell, a chemist employed in the Chemical Research Department of Commercial Solvents Corporation, wherein it is stated that the affiant was engaged in rubber research including "the compounding of rubber, rubber cement formulation, and various" processes "for the treatment of latex"; and that the affiant discovered the compound 1-chloro-1-nitrobutane, the compound of the appealed claim, "to possess valuable properties both as a heat-sensitizing agent for latex, and as a gel inhibitor for heat-vulcanizing rubber cements." Certain experiments performed by the affiant, and the results obtained therefrom, are also set forth in the affidavit.

Thereafter, the case was remanded to the Examiner for further consideration.

In his supplemental statement to the Board, the Examiner stated that the appealed claim "relates to a single compound 1 chloro-1-nitrobutane"; that the compound of the appealed claim was not patentable over the related compounds hereinbefore referred to, due to the absence of properties or qualities distinguishing it from the class to which it belongs; and that, although the affidavit purports to show that the claimed compound possessed utility, the claim was not rejected for lack of utility.

The Board of Appeals concurred in the views expressed by the Primary Examiner in his original statement.

No reference is made in the Board's decision to the affidavit of record, or to the Examiner's statement with regard thereto.

No question is raised here as to the disclosures in the references, or as to their relationship to the compound of the appealed claim, except as to the scope of the claim, as hereinbefore stated.

It is contended here by counsel for appellants, as it was in the cases of *In re Henry B. Hass and Alfred G. Susie* (Patent Appeal No. 4819), 31 C. C. P. A. (Patents) —, 141 F.(2d) 122, and *In re Henry R. Hass* and *Alfred G. Susie* (Patent Appeal No. 4820), 31 C. C. P. A. (Patents —, 141 F.(2d) 127 (companion appeals, decided concurrently herewith), that novelty alone is sufficient to lead patentability to claims for new chemical compounds, and it is stated in the brief of counsel that decisions

of the tribunals of the Patent Office requiring an applicant for a patent for a new chemical compound or for a novel series of chemical compounds to prove that such compounds possess some unexpected properties or utility not possessed by prior art isomers or prior art adjacent homologues are unfair. As an example of such unfairness, counsel states that, subsequent to the filing of the application in the instant case, appellants discovered that, in addition to being useful as an organic solvent and as a valuable intermediate for use in organic synthesis as stated in their application, the claimed compound also had utility as a heat-sensitizing agent for latex and as an anti-gelling agent for latex as appears from the affidavit of record.

It is stated in appellants' application that the compound of the appealed claim is useful as an organic solvent and as a valuable intermediate for use in organic synthesis; that "Other uses of this compound will be apparent to those skilled in the art"; that the data disclosed in the application "were obtained from a single preparation" of the claimed compound; and that appellants do not wish to limit their application "to a compound having the exact properties listed."

With regard to the facts set forth in the affidavit, and the claims of counsel for appellants relative thereto, it is sufficient to say that there is nothing of record to indicate that the prior art compounds do not possess the same properties as the compound here involved, or that they would not be useful for the same purposes as the involved compound.

Appellants having failed to establish that the involved compound has any unexpected or unobvious beneficial properties not possessed by the homologous compound disclosed in the Henry reference, we are of opinion, for the reasons stated in our decisions in the *Hass* and *Susie* cases, supra, that, on the record presented, the appealed claim was properly rejected by the tribunals of the Patent Office. It is unnecessary, therefore, that we discuss the closely related compounds disclosed in the Zublin and Shaw references.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MILNE

No. 4,827. Decided February 7, 1944

[140 F.(2d) 1003]

1. PATENTABILITY—PAPER-MAKING.
   A claim to the combination with a paper-making machine of a pulp flow distributor *Held* unpatentable over appellant's own British patent, in view of a patent to one Baxter, since it would be obvious to one skilled in the art to modify the structure of appellant's British patent by including therein the baffle and adjustable means disclosed by Baxter; following the decision of the court in *In re Goepfrich*, 30 C. C. P. A. (Patents) 1181, 136 F.(2d) 918, 556 O. G. 529, and refusing to follow the decision of the Commissioner in *Ex parte Gee*, 261 O. G. 800, 1919 C. D. 49.

2. SAME—SAME—COMBINATION OF REFERENCES.
   "The only question is whether one skilled in the art, familiar with appellant's British patent, upon examining the Baxter patent would, without the exercise of the inventive faculty, determine that the addition of Baxter's baffle would be an improvement upon the structure disclosed by the British patent. That is the only consideration required to determine patentability where references are combined."

3. SAME—SAME—SAME.
   In regard to appellant's contention that, before references may be combined to negative patentability, one or more of the references must teach the combination claimed *Held* that "if appellant's contention should be sustained, then it would never be necessary to combine references to negative patentability, for if one of the references must teach the combination claimed that reference would be a complete anticipation of the invention and there would be no occasion to combine references."

APPEAL from the Patent Office. Affirmed.

Mr. Walter C. Ross for Milne.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

LENROOT, *J.:*

Appellant, on October 31, 1939, filed in the United States Patent Office an application for a patent for "Pulp Flow Distributors for Paper-Making and Board-Making Machines."

Claim 18, being the only claim here involved, was rejected by the Primary Examiner on the ground of unpatentability over the cited prior art. Upon appeal the rejection was affirmed by the Board of Appeals.

Said claim 18 reads as follows:

> 18. The combination with a paper-making machine of a unitary flow-distributor construction comprising, a box having bottom, outer, inner, and side walls and provided with an inlet in its lower side, said outer and inner walls being in upwardly converging relation but their upper ends being spaced apart, the upper end of said outer wall being in a plane above that of the upper end of said inner wall, a plurality of spaced baffles disposed within the box and extending laterally between said outer and inner walls, the upper marginal edges of said baffles being spaced from one another so as to provide a plurality of side-by-side outlets leading to said space between the upper ends of said inner and outer walls, a relatively-fixed board member extending substantially horizontally towards said machine from said inner wall and disposed adjacent said upper end thereof, a baffle extending towards said machine from said outer wall and disposed adjacent said upper end thereof, said baffle being in converging relation with respect to said board member having its free end spaced from the free end of the board member to provide a positively horizontally-directed outlet, and adjustable means associated with the baffle whereby the size of said outlet may be controlled.

The references cited are: Austrian Patent 70,796, June 1, 1915; Wood, 1,866,607, July 12, 1932; Bell-Irving et al., 1,909,150, May 16, 1933; Milne, (British), 469,203, July 21, 1937; Baxter, 2,156,445, May 2, 1939; Milne, 2,205,693, June 25, 1940.

Appellant's alleged invention is described in the decision of the Examiner as follows:

> Applicant's alleged invention is drawn to a flow distributing box containing spaced baffles which extend laterally between the inner and outer walls. A relatively fixed board extends substantially horizontally from the flow box and co-operates with an adjustable baffle to form an adjustable outlet at or near the forming wire.
>
> Claim 18 is drawn to a flow box with an inlet near the bottom. The side walls converge upwardly and between these side walls are a plurality of baffles spaced so that their upper ends form a plurality of outlets. From the upper edge of the inner side wall a horizontal board extends toward the machine. A baffle extends from adjacent the upper edge of the outer wall and converges with the horizontal board. Its free end has adjustable means associated with it so that the size of the outlet between the board and adjustable means may be controlled.

Appellant's British patent, 469,203, discloses a paper-making machine which includes all of the

elements of the claim before us, except the latter portion thereof reading:

> * * * a baffle extending towards said machine from said outer wall and disposed adjacent said upper end thereof, said baffle being in converging relation with respect to said board member having its free end spaced from the free end of the board member to provide a positively horizontally-directed outlet, and adjustable means associated with the baffle whereby the size of said outlet may be controlled.

The patent to Baxter relates to a paper-making machine and discloses a baffle and adjustable means associated therewith similar to the last above quoted element of claim 18, and having substantially the same function.

The claim before us was rejected by the Examiner upon said British patent to appellant, in view of the patent to Baxter. In his statement on appeal he said:

> * * * Putting the well known baffle and adjustable means disclosed by Baxter on the flow box and horizontal board of Milne is considered an obvious means of making the apparatus a closed pressure outlet system which is in common use. * * *

The Examiner further rejected the claim as unpatentable over appellant's said British patent, in view of the other art of record. However, as we are of the opinion that the rejection upon appellant's said British patent, in view of the Baxter patent, was correct, it is unnecessary for us to consider the other references.

The Board of Appeals affirmed the decision of the Examiner stating:

> We agree with the Examiner that there is no invention in view of Baxter in adding to the Milne structure of the type stated in the last seven lines of the claim. The Austrian patent and Wood show an outlet similar to Baxter.

From this decision of the Board, this appeal was taken.

[1] The only question before us is whether it would be obvious to one skilled in the art to modify the structure of appellant's British patent by including therein the baffle and adjustable means disclosed by Baxter.

We have no doubt that the Patent Office tribunals came to the right conclusion. It seems clear to us that one skilled in the art with appellant's British Patent 469,203, and the Baxter patent before him, would readily, without exercise of the inventive faculty, produce the structure embraced in the claim before us.

Appellant contends that references may not properly be combined unless the cited art teaches how to combine the cited structures, and in support of this contention cites the case of *Ex parte Gee*, 261 O. G. 800 (C. D. 1919, p. 49).

This was a decision of a Commissioner of Patents which supports appellant's contention, but the decision has never been followed by this court or by any other court so far as we are aware. It is true that the teachings of a patent may lead one skilled in the art away from an invention in controversy, in which case such teaching may be considered as bearing upon the availability of a reference, but such is not the case here.

[2] The only question is whether one skilled in the art, familiar with appellant's British patent, upon examining the Baxter patent would, without the exercise of the inventive faculty, determine that the addition of Baxter's baffle would be an improvement upon the structure disclosed by the British patent. That is the only consideration required to determine patentability where references are combined.

In the case of *In re Goepfrich*, 30 C. C. P. A. (Patents) 1181, 136 F.(2d) 918, 556 O. G. 529, the same contention was made that, before references may be combined to negative patentability, one or more of the references must teach the combination claimed.

We rejected this contention and, in our opinion, said:

> In the consideration of references, the question is, could one skilled in the art with the references before him make the combination of elements here claimed without exercise of the inventive faculty, and that is the only question before us on this appeal.

[3] If appellant's contention should be sustained, then it would never be necessary to combine references to negative patentability, for if one of the references must teach the combination claimed that reference would be a complete anticipation of the invention and there would be no occasion to combine references.

Finding no error in the decision appealed from, it is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE KAASE ET AL.

No. 4,860. Decided February 7, 1944

[140 F.(2d) 1016]

1. PATENTABILITY—ANTICIPATION.
   Claims of the "Markush" type, drawn to a process for impregnating textile material with a substance selected from a group consisting of isocyanates and isothiocyanates, each containing an aliphatic radical of at least ten carbon atoms, and to a textile material so impregnated, and presented in an application filed by appellants on July 29, 1938, disclosing the use of both the isocyanates and the isothiocyanates *Held* properly rejected upon a British patent issued February 8, 1937, having a similar disclosure, notwithstanding the filing by appellants on April 28, 1936, of a copending application disclosing the use of isocyanates; applying the rule of *In re Steenbock*, 23 C. C. P. A. 1244, 83 F.(2d) 912, 473 O. G. 495.
2. SAME—REJECTION BASED ON INTERFERENCE.
   The appealed claims also *Held* properly rejected as unpatentable over the issue of an interference, which appellants lost, defining a process for "impregnating a cellulose textile material with an isothiocyanate of the formula RNCS in which R is an aliphatic hydrocarbon radical containing more than ten carbon atoms."
3. INTERFERENCE—ABANDONMENT OF CONTEST.
   The dissolution of an interference involving the application filed by appellants on July 29, 1938, and an application of H. and H., and in which claim 33, on appeal, was the issue, following the filing of an abandonment of the contest by H. and H., *Held* not equivalent to an award of priority to appellants.
4. SAME—SAME.
   "It is elementary that the dissolution of an interference is not equivalent to an award of priority of invention. Appellants secured nothing as a result of the decision but were left in the same situation as if no interference had been declared."

APPEAL from the Patent Office. Affirmed.

Mr. James B. L. Orme for Kaase et al.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 22, 23, and 33 of appellants' application for a patent filed on July 29, 1938. The claims read as follows:

> 22. A process for treating textile material which comprises impregnating the material with a compound having the formula R.N=C=Y where R is an aliphatic radical containing at least ten carbon atoms and Y stands for a member of a group consisting of O and S, and heating the impregnated material to render the same water-repellent.
>
> 23. A textile material heated with a compound having the formula R.N=C=Y where R is an aliphatic radical containing at least ten carbon atoms and Y stands for a member of a group consisting of O and S, said material being water-repellent.
>
> 33. A process which comprises impregnating a textile material with a substance selected from the group consisting of:—an isocyanate and a isothiocyanate, each containing an aliphatic radical of at least ten carbon atoms, and heating the impregnated material until the material becomes water-repellent.

Each of the process claims above quoted embraces the treatment of textile material rendering it water-repellent by impregnating it with a material selected from a group consisting of isocyanates and isothiocyanates having an aliphatic radical containing at least 10 carbon atoms.

In the claims the letter O signifies isocyanates and the letter S signifies isothiocyanates.

Several claims were allowed relating to the use of isocyanates. As will be observed, the claims are of the Markush type. They were rejected upon two grounds:

1. That they are unpatentable over the British Patent 461,179, issued February 8, 1937.

2. That they are unpatentable over the issue of an interference, No. 76,387, in which appellants were the losing party.

It is conceded that the British patent discloses the subject matter of the claims, but appellants contend that the record shows that they had completed the invention prior to the date of the British patent, and that therefore it is not a proper reference.

Appellants' application states that it is a continuation, in part, of their then copending applications, Serial No. 76,738, filed April 28, 1936, and Serial No. 196,622, filed March 18, 1938. This last named application does not appear in the record, but it does appear that on December 1, 1942, a patent was issued on their application filed on April 28, 1936. This patent relates to the use of isocyanates in the involved process.

It is appellants' contention that they are entitled to the date of their application of April 28, 1936, upon which patent was issued, for constructive reduction to practice of the invention and that date being earlier than the date of the British patent, said British patent is not a valid reference.

With respect to the rejection upon the issue of the interference, No. 76,387, it is appellants' contention that such rejection was improper for the reasons hereinafter stated.

Appellants' instant application discloses the use of both isocyanates and isothiocyanates in carrying out their process. As hereinbefore indicated, appellants' application of April 28, 1936, discloses the use of isocyanates, but no mention is made therein of the use of isothiocyanates.

It appears from the record that appellants' instant application had been involved in two interferences, Nos. 76,387 and 78,586.

The parties to interference No. 76,387 were appellants, William E. Hanford and Donald F. Holmes, their application being filed on October 8, 1937, and a third party, Alfred Eckelmann.

Two counts were involved in this interference. Count 1 reads as follows:

> Count 1. A process which comprises impregnating a cellulose textile material with an isothiocyanate of the formula RNCS in which R is an aliphatic hydrocarbon radical containing more than ten carbon atoms, and heating the impregnated material until the material becomes water-repellent.

It appears that the party Eckelmann abandoned the contest. Appellants, being the junior party, were placed under an order to show cause why judgment should not be rendered against them, the earliest date of invention alleged by them in their preliminary statement being subsequent to the filing date of the party Hanford and Holmes.

On December 31, 1940, the Examiner of Interferences rendered a decision adverse to appellants which reads as follows:

> Whereas Kaase and Waltmann, a junior party, have failed to make any showing why judgment on the record should not be entered against them, in view of the fact that the only date alleged in their preliminary statement which might be availed of by them is subsequent to the filing dates of Hanford and Holmes, a junior party, and Eckelmann, the senior party, and whereas the time allowed for such showing has expired, pursuant to the order of February 3, 1939, it is hereby adjudged that Walther Kaase and Ernst Waltmann are not the first inventor of the subject matter in issue.
>
> As there is no question of priority on which appeal could be taken, no limit of appeal is set.

It thus appears that appellants were the losing party in this interference.

Interference No. 78,586 was between appellants' instant application and the application of Hanford and Holmes involved in interference No. 76,387.

The sole count corresponded to claim 33 of the application before us.

It appears from the record that Hanford and Holmes filed an abandonment of the contest and the interference was dissolved.

Appellants' application, filed April 28, 1936, was involved in two interferences, Nos. 78,386 and 78,587, with the same application of the party Hanford and Holmes that was involved in interferences Nos. 76,387 and 78,586.

In these interferences the use of isothiocyanates was not involved and the issue was as to which of the parties was the prior inventor of the use of isocyanates. It appears that in both interferences, the party Hanford and Holmes conceded to appellants' priority of invention in the use of isocyanates, and decisions were rendered in each case awarding priority of invention to appellants.

Pursuant to the foregoing proceedings on December 1, 1942, a patent was issued to appellants, as hereinbefore stated, for a process involving the use

of isocyanates only. On June 2, 1942, a patent was issued to the interference party, Hanford and Holmes, for a process of impregnating cellulose fabrics with an alkyl isothiocyanate. The patent discloses the use of both isothiocyanates and isocyanates, but the claims are limited to the use of isothiocyanates.

It thus appears that as a result of said interferences appellants have a patent for the use of isocyanates in impregnating textile material, and Hanford and Holmes have a patent for the use of isothiocyanates in impregnating cellulose materials.

We will first consider the rejection of the claims on the British patent.

It is conceded that the British patent discloses the subject matter of the claims, that is, the use of both isocyanates and isothiocyanates. Appellants, however, contend that since their application of April 28, 1936, discloses the use of isocyanates, and antedates the British patent, said patent is not a valid reference. With respect to this contention the Examiner, in his statement on appeal, said:

> Applicants' position is stated on page 8 of paper No. 11 as follows: "The present application, although filed after the said date of the British patent, is a continuation-in-part of copending application Serial No. 76,738, filed April 28, 1936, which also supports fully the claims mentioned *so far as isocyanates are concerned.* The present application gives support not only for isocyanates, but also for isothiocyanates . . . In view of the fact that applicants are the first inventors of the isocyanates . . . it is believed that they are the inventors of this Markush group" (italics added). Presumably by "inventors" in the last line "first inventors" is meant.
>
> This position is considered untenable in view of *In re Steenbock*, 1936 C. D. 594, wherein the court held in effect that a prior parent application disclosing one species could not be utilized to overcome an intervening reference for the purpose of securing generic claims in a later filed application.

The Board of Appeals in its decision did not refer to the case of *In re Steenbock*, 23 C. C. P. A. (Patents) 1244, 83 F.(2d) 912, 473 O. G. 495, (1936 C. D. 594), relied upon by the Examiner, but stated:

> Applicants' position is that since their parent application discloses the use of isocyanates and antedates the British patent, they are the first inventors of the group which includes isothiocyanates citing Ufer et al. *v.* Williams, 79 Fed.(2d) 892 and Kyrides *v.* Andersen, 121 Fed.(2d) 514. These cases were interference cases where the date of invention of the one substance was the earliest date of invention for all of the substances.
>
> In the present case, the British patent which discloses both types of cyanates, indicates prior invention by some one other than applicants of the isothiocyanates. Hence, we do not consider applicants' position as tenable where it appears on the face of the record that applicants are not the first inventors of the isothiocyanates.

We agree with the Examiner that our decision in the case of *In re Steenbock*, supra, is controlling here. The questions decided there are the same questions which, on this branch of the case are involved here. In that case Steenbock filed an application disclosing the treatment of yeast, a fungus material, through irradiation by ultra-violet rays. He later filed an application for the treatment of yeast and of fungus material generally. This last application was rejected by the Examiner upon the following references:

> Steenbock (Br.), 236,197, November 12, 1926.
>
> Journal of Biological Chemistry, vol. 63, February, 1925, pages 25–26, entitled "Antirachitic Activation by Light."
>
> Soc. Chem. & Ind. Journal, vol. 46 (1927), pages 1202 and 1203, entitled "Scientific Research in Relation to Actionotherapy."

Each of the references disclosed the treatment of yeast by irradiation of ultra-violet rays. The Steenbock reference was appellant's British patent. Appellant was permitted to file an affidavit under rule 75 of the Rules of the United States Patent Office showing that he had completed the invention prior to the dates of the references. If he was confined to the date of his last application each of the references was a statutory bar against the allowance of the claims, but if he had disclosed the invention in an earlier application filed within the statutory limit, no statutory bar existed.

In earlier applications filed December 27, 1926, the treatment of yeast was disclosed but not the treatment of fungus material generally.

The Board of Appeals, in its decision in that case, said:

> Claims 3, 4, 5, and 6 are broader in their scope, since they cover the activation of a fungus material. In the present application applicant alleges to have discovered that any fungus material can be activated. These claims have also been rejected on the British patent and the publications. No disclosure has been made of activating fungus material in general either in applicant's prior patent No. 1,680,818, or in the two applications filed December 27, 1926. In one of these applications, No. 157,430, an amendment was made on March 22, 1928, which stated that yeast is an example of a fungus. This, of course, cannot be relied upon by applicant to obtain an effective United States filing date for the activation of fungus, in general, prior to the filing date of the present application. Hence, as to these broad claims, both of the publications are statutory bars, and applicant's British application is also a statutory bar as a two year publication.

The foregoing quotation appears in our opinion in said case. The similarity between that case and the one at bar is obvious. There, as here, a generic claim was presented and reliance was had for a date of invention based upon the disclosure in an earlier application of only one species of the invention.

In our opinion in the Steenbock case, supra, after quoting from the decision of the Board of Appeals, we said:

> As we understand it, the Board of Appeals held that, although appellant was entitled to claim all subject-matter in the involved application disclosed but not claimed in his copending applications, that is the process of subjecting yeast, a fungus material, to irradiation by ultra-violet rays for a sufficient period of time "to effect antirachitic activation in substantial degree," he was not entitled to claim the process as applied broadly to fungus material, because there was no disclosure of such a process in his copending applications, and, also, for the reason that each of the references which disclosed such a process was published more than two years prior to the filing of the involved application.
>
> The principle is well established in chemical cases, and in cases involving compositions of matter, that the disclosure of a species in a cited reference is sufficient to prevent a later applicant from obtaining generic claims, although the disclosure in an application of a species may not be a sufficient basis for a generic claim. See *In re Ellis*, 37 App. D. C. 203; *In re Dosselman*, 37 App. D. C. 211; *In re Langmuir*, 20 C. C. P. A. (Patents) 733, 62 F.(2d) 93; *In re Walker*, 21 C. C. P. A. (Patents) 1121, 1127, 70 F.(2d) 1008; *In re Burk*, 22 C. C. P. A. (Patents) 857, 74 F.(2d) 547.
>
> Although appellant's involved application was originally alleged to be a true division of his application No. 157,430, filed December 27, 1926, which matured into Patent No. 1,871,136, August 9, 1932, there was no disclosure in that application of the involved process as applied to fungus material generally—the process there disclosed being limited, so far as fungus material is concerned, to yeast. Accordingly, although described as a true division of his original application, appellant, by an amendment to the involved application, dated December 7, 1933, substituting the language "continuation in part" for the word "division," conceded that it was not a true division, and that his original disclosure was limited to a process involving yeast only.
>
> Applying the rule hereinbefore stated, it is perfectly clear that appellant is not entitled to the broad claims here on appeal.

[1] There is no distinction in principle between the case at bar and the Steenbock case. That case has been cited by us with approval in the following cases: *In re Söll;* 25 C. C. P. A. (Patents) 1309, 97 F.(2d) 623, 497, O. G. 546, *Kyrides* v. *Andersen et al.*, 28 C. C. P. A. (Patents) 1336, 121 F.(2d) 514, 532 O. G. 6, and *In re Prutton*, 28 C. C. P. A. (Patents) 1343, 121 F.(2d) 524, 533 O. G. 755.

Appellants attempt to distinguish the Steenbock case from the case at bar in two respects:

1. Their brief states that in Steenbock's second application only yeast was described, but was claimed broadly as fungus. In this appellants are in error. In our opinion in the Steenbock case we quoted from the decision of the Board of Appeals, as hereinbefore stated, which quotation contains the statement that in his application there directly involved he alleged that he discovered that any fungus material could be activated.

2. Appellants stress as a distinction between the two cases that in the Steenbock case it was held that the references constituted a statutory bar, while in the case at bar no such condition exists. It is surprising that counsel did not observe that in the Steenbock case the appellant there had filed an affidavit under rule 75 hereinbefore noted, alleging that his invention antedated the references. Had it not been for this affidavit there would have been no occasion to refer to a statutory bar except with relation to Steenbock's British patent, for the ordinary rule respecting a reference published before appellant's filing date would have been applicable.

Therefore, contrary to the contention of appellants, our decision in the Steenbock case is applicable to the case at bar in every particular.

Appellants rely upon our decisions in the cases of *Ufer and Niemann* v. *Williams*, 23 C. C. P. A. (Patents) 797, 79 F.(2d) 892, 464 O. G. 237, and *Kyrides* v. *Andersen et al.*, 28 C. C. P. A. (Patents) 1336, 121 F.(2d) 514, 532 O. G. 6, in support of their contention that they are entitled to the date of April 28, 1936, for the completion of their invention and hence the British patent is not a proper reference.

Both of these cases were interference proceedings and, of course, no question of patentability was there involved.

In the case of *Ufer and Niemann* v. *Williams*, supra, a Markush type of claim was involved, the count calling for the utilization of a compound of metal "from the group consisting of chromium, vanadium, potassium and aluminum." We held that upon the evidence appellee was the first to conceive the invention in so far as it related to the use of compounds of chromium, aluminum, and potassium, but there was no evidence that appellee had ever used vanadium in the involved process. Appellants relied upon their German patent antedating appellee's application which disclosed the use of a compound of potassium and a compound of vanadium.

The question was which, if either, of the parties were entitled to an award of priority.

In affirming the decision of the Board of Appeals, holding that appellee was entitled to an award of priority, we held that, according to the record, long before either of the parties entered the field it was known through what was entitled the "Medsforth publication" that a compound of vanadium was an equivalent of compounds of chromium and aluminum in carrying out the there involved process. In our opinion we said:

> Appellants contended before the Patent Office tribunals, and as we understand their brief they here contend, that the said Medsforth publication is a complete anticipation of the invention defined in the counts here involved. Whether that be true or not we may not here determine, for that is a question of the patentability of the counts with which we are not here concerned; but we are of the opinion that said Medsforth publication warrants a finding that, before the filing date of appellants' German application, it would be known to one skilled in the art, having knowledge of the use of chromium and aluminum in the process here involved, that a compound of vanadium was an equivalent of compounds of chromium and aluminum in carrying out said process.
>
> We are of the opinion that the Board of Appeals did not err in holding that appellee was the first to reduce to practice the invention involved in the counts in issue, and therefore its decision, affirming the decision of the Examiner awarding priority of invention to appellee, should be affirmed by us.

In the case at bar there is not a scintilla of proof that prior to the issue of the British patent it was known to one skilled in the art that an isothiocyanate was an equivalent of an isocyanate in carrying out the process here involved.

It is, therefore, clear that there is nothing in our opinion in the case of *Ufer and Niemann* v. *Williams*, supra, that is inconsistent with our opinion in the Steenbock case.

The case of *Kyrides* v. *Andersen et al.*, supra, involved the question of priority of invention of the subject matter of a count reading as follows:

> 2. A composition embodying a cellulose derivative and containing as a plasticizer an alkyl acetonyl phthalate.

It appears that Kyrides filed an early application disclosing the use of acetonyl ethyl phthalate, which is one of the alkyl acetonyl phthalates. The Patent Office tribunals had held that the disclosure by Kyrides of only one species of the alkyl acetonyl phthalates was not sufficient to entitle him to an award of priority of the invention defined in the count. In reversing the decision of the Board of Appeals in that case we said:

> The issue presented in this appeal is not whether appellant is entitled to a patent for a composition embodying a cellulose derivative and containing as plasticizers the subgeneric class of alkyl acetonyl phthalates, but rather whether having constructively reduced to practice a composition embodying a cellulose derivative and containing as a plasticizer an alkyl acetonyl phthalate (acetonyl ethyl phthalate, one of the members of the subgeneric class) long prior to appellees' constructive reduction to practice, appellant is entitled to an award of priority of invention.
>
> Certainly it cannot be held that appellees were the first to conceive and constructively reduce to practice a composition embodying a cellulose derivative and containing as a plasticizer all of the alkyl acetonyl phthalates when it clearly appears from the record that appellant was the first to reduce to practice a composition embodying a cellulose derivative and containing as a plasticizer one of the alkyl acetonyl phthalates.
>
> * * * * * * *
>
> As hereinbefore noted, the involved count calls for a composition embodying a cellulose derivative and containing as a plasticizer an alkyl acetonyl phthalate. Accordingly, it is sufficiently broad to include any one of the subgeneric class of the alkyl acetonyl phthalates.

In our opinion in said case, we cited the Steenbock case and with respect to it said:

> In the case of *In re Steenbock*, 23 C. C. P. A. (Patents) 1244, 83 F.(2d) 912, referred to by the Board in its de-

cision, we said: "The principle is well established in chemical cases, and in cases involving compositions of matter, that the disclosure of a species in a cited reference is sufficient to prevent a later applicant from obtaining generic claims, although the disclosure in an application of a species may not be sufficient basis for a generic claim. See *In re Ellis*, 37 App. D. C. 203; *In re Dosselman*, 37 App. D. C. 211; *In re Langmuir*, 20 C. C. P. A. (Patents) 733, 62 F.(2d) 93; *In re Walker*, 21 C. C. P. A. (Patents) 1121, 1127, 70 F.(2d) 1008; *In re Burk*, 22 C. C. P. A. (Patents) 857, 74 F.(2d) 547." And, applying the rule therein announced, the court held that appellant was not entitled to a patent for a process relating to fungus material generally, in view of the fact that his original disclosure was limited to a process involving yeast only.

In the case at bar it definitely appears that appellants were not the first inventors of the involved process using as an element thereof isothiocyanates.

It thus appears that neither of the cases relied upon by appellants supports their contention, and there is no conflict between our decision therein and our decision in the Steenbock case.

[2] In view of all the foregoing, it is not necessary for us to consider the second ground of rejection of the involved claims, viz., that they are not patentable over the issue of interference No. 76,387, in which it was held that appellants were not the first inventors of the use of isothiocyanates in the involved process. We think it proper to say, however, that we are in full accord with the holdings of the Patent Office tribunals that the claims are not patentable over the issue of said interference.

[3][4] It is appellants' contention that inasmuch as in interference No. 78,586 claim 33 now before us was the sole issue in that interference and Hanford and Holmes abandoned the contest, the dissolution of the interference was equivalent to an award of priority to appellants.

It is elementary that the dissolution of an interference is not equivalent to an award of priority of invention. Appellants secured nothing as a result of the decision but were left in the same situation as if no interference had been declared. The fact that Hanford and Holmes, by abandoning the contest, relinquished any right to the claim of the interference, did not in any way affect their right to a patent upon the use in the process of isothiocyanates.

What appellants are here seeking is to regain what they lost in interference No. 76,387. In the patent issued to Hanford and Holmes as a result of the decision in that interference, the public is taught that isothiocyanates may be used in the involved process.

Now appellants seek to dominate the patent to Hanford and Holmes by claiming as an element of their process the use of isothiocyanates, although it has been determined that appellants were not the first inventors of such use.

It is true that the patent to Hanford and Holmes relates only to the use of isothiocyanates in connection with cellulose fabrics, while appellants' process relates to textile materials generally, including cellulose material, but appellants' application shows that the process is equally applicable to both kinds of material.

However, it is unnecessary to pursue the discussion further, for we are clear, as hereinbefore indicated, that the involved claims were properly rejected upon the British patent.

The decision appealed from is affirmed.

Affirmed.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MAY, 1944

VOLUNTEER PORTLAND CEMENT COMPANY *v.* THE CELOTEX CORPORATION, Opposition No. 22,162.

In a decision rendered May 1, 1944 (166 Ms. Dec. 484, 61 U. S. P. Q. 379), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Volunteer Portland Cement Company, of Knoxville, Tenn., to the application of The Celotex Corporation, of Chicago, Ill., for registration of the letter "V" as a trade-mark for a long line of building construction materials, including plasters, Keen cement, and various asphalt-treated products. The mark has been in use for approximately two years.

The opposition was based upon a trade-mark registered to opposer for Portland cement on September 24, 1929, consisting of two concentric circles with a capital "V" inscribed therein, superimposed upon which appears the word "Volunteer."

It was held that the goods of the parties possess the same descriptive properties. After noting that the letter "V" is the most prominent part of opposer's mark, or at least that it is a very conspicuous feature of the mark and that it is the sole feature of applicant's mark, it was further held that confusion between the two, applied as they are to closely related merchandise, is not so unlikely as to be free from doubt; and any doubt upon the question must be resolved in opposer's favor.

EX PARTE VICTORIO Y ESTEBAN DE LORENZI, LTDA., Serial No. 462,220.

In a decision rendered May 2, 1944 (166 Ms. Dec. 486, 61 U. S. P. Q. 381), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Victorio Y Esteban de Lorenzi, Ltda., of Buenos Aires, Argentina, a mark under the provisions of the act of March 19, 1920.

Applicant's mark is the word "California," with the word "argentina," in much smaller letters, centered beneath, and appropriated to cheese. The Examiner refused registration on the ground that this mark is confusingly similar to a mark previously registered for butter, which is likewise dominated by the word "California."

It was held that butter and cheese are closely related merchandise of the same descriptive properties, and that their concurrent sale under trade-marks so similar as those here involved would inevitably lead to confusion.

EX PARTE THE NAVAL UNIFORM SERVICE, INC., Serial No. 457,794.

In a decision rendered May 2, 1944 (166 Ms. Dec. 485, 61 U. S. P. Q. 380), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks declining to register to The Naval Uniform Service, Inc., of New York, N. Y., the notation "Naval Uniform Service," displayed in association with a design, as a trade-mark for men's outer garments, consisting of coats, pants, trousers, overcoats and topcoats. The Examiner refused registration on the ground that the mark presents words which are descriptive of the goods and inherently incapable of functioning as a trade-mark.

It was held that the words are purely descriptive of the character of applicant's goods and since the words dominate the mark, the mark as a whole is nonregistrable under the act of 1905, since it seems clear beyond argument that any dealer engaged in the manufacture of uniforms and overcoats for naval men may so inform its customers in the words of applicant's mark, and that the use of these words would fail to indicate origin in any particular concern.

C. E. JAMIESON & CO. *v.* DRUG SPECIALTIES INC., Opposition No. 22,284.

In a decision rendered May 3, 1944 (166 Ms. Dec. 487, 61 U. S. P. Q. 381), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of C. E. Jamieson & Co., of Detroit, Mich., to the application of Drug Specialties Inc., of Los Angeles, Calif., for registration of the notation "Levo-Bel" as a trade-mark for "a nervine sedative and antispasmodic." Opposer relied upon its ownership of the trade-mark "LevenoL," previously registered for "a preparation for the treatment of intestinal autointoxication and constipation."

After noting that the goods of both parties are medicinal preparations, and to that extent possess the same descriptive properties, it was held that they differ widely in their essential characteristics; they are used for entirely unrelated purposes; and, of course, they are noncompetitive.

It was further held that since the trade-marks "LevenoL" and "Levo-Bel" bear some resemblance in appearance and in sound, their concurrent use on the same or similar merchandise would doubtless cause confusion but obviously they are not identical; so that when considered in connection with the differences in goods, the differences between these marks are sufficient to insure against any reasonable likelihood that the public will be confused or purchasers deceived.

THE BLACK AND DECKER MANUFACTURING COMPANY *v.* AVIATION MANUFACTURING CORPORATION (THE AVIATION CORPORATION, ASSIGNEE, SUBSTITUTED), Opposition No. 21,292.

In a decision rendered May 12, 1944 (166 Ms. Dec. 490, 61 U. S. P. Q. 377), *First Assistant Commissioner Frazer* denied a petition for rehearing of his decision (562 O. G. 701, 61 U. S. P. Q. 377) of April 11, 1944. Counsel for opposer, The Black and Decker Manufacturing Company, having called attention to certain misstatements of fact that were inadvertently made in the decision, the decision was corrected in accordance with the request of opposer's counsel, but no change was made in the judgment rendered.

INDUSTRIAL UNDERGARMENT CORPORATION *v.* RICE-STIX DRY GOODS COMPANY, Opposition No. 22,026.

In a decision rendered May 15, 1944 (166 Ms. Dec. 492, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Industrial Undergarment Corporation, of New York, N. Y., to the application of Rice-Stix Dry Goods Company, of St. Louis, Mo., for registration of the word "Stardom," claimed to have been used since March 30, 1942, as a trade-mark for "printed cotton percales."

Opposer relied upon its prior use of the word "Stardust," and its registration on October 28, 1941, of that word in association with a design, as a trade-mark for "slips."

In response to applicant's contention that piece goods and finished garments do not possess the same descriptive properties, it was held that a housewife may reasonably be expected to assume that the material she purchases to make a wash dress has the same origin as her ready-made slip, if both bear the same or confusingly similar trade-marks.

It was further held that although the marks used by the parties contain differences, notably in appearance and meaning, nevertheless the notations "Stardom" and "Stardust" are so nearly alike that the concurrent use of the marks upon goods of the same descriptive properties would be reasonably likely to cause confusion in the trade and to deceive purchasers; at least the question of probable confusion is not free from doubt, and any doubt in that regard must be resolved in opposer's favor.

MCKESSON & ROBBINS, INCORPORATED, *v.* PARFUM L'ORLE, INC., Opposition No. 22,194.

In a decision rendered May 16, 1944 (166 Ms. Dec. 495, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of McKesson & Robbins, Incorporated, of New York, N. Y., to the application of Parfum L'Orle, Inc., also of New York, N. Y., for registration of the word "Lorodo" as a trade-mark for "a deodorant in solid form," applicant claiming to have used this mark since June 22, 1942.

Opposer relied upon its ownership of the trade-mark "Yodora," registered August 28, 1928, for "deodorant."

Notwithstanding applicant's argument to the contrary, it was held that the Examiner of Interferences rightly ruled that the marks of the parties are too nearly alike to be used on substantially identical merchandise of the character here involved without reasonable likelihood of confusion.

ROTARY INTERNATIONAL *v.* HENRY E. FREDERICKS, Opposition No. 21,435.

In a decision rendered May 16, 1944 (166 Ms. Dec. 496, — U. S. P. Q. —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences, who had dismissed the opposition of Rotary International, of Chicago, Ill., to the application of Henry E. Frederick, also of Chicago, Ill., for registration of the notation "Ro-Tray," with the disclaimer of the word "Tray," as a trade-mark for a "combination cigarette dispenser and ash tray," the application having been filed under the provisions of the act of February 20, 1905.

The opposition was predicated upon the alleged fact that applicant's mark is merely an appropriation of opposer's name, and is thus forbidden registration by the express terms of the statute.

Citing a case, it was held that it is clear from the instant record that "Rotary" is merely the name of opposer.

After noting that applicant's mark and opposer's name are not so nearly alike in appearance as were the words under consideration in a cited case, it was held that clearly they are, when pronounced, "practically identical in sound."

It was held that the opposition should be sustained.

EX PARTE FOSTER L. TALGE (DOING BUSINESS AS RIVAL MANUFACTURING COMPANY), Serial No. 439,734.

In a decision rendered May 18, 1944 (166 Ms. Dec. 497, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks, refusing to register to Foster L. Talge (doing business as Rival Manufacturing Company), of Kansas City, Mo., the notation "Juice-Master" as a trade-mark for "fruit juice extractors," the descriptive word "Juice" being disclaimed and use being claimed of the mark since December 30, 1940. Registration was refused in view of the trade-mark "Mixmaster," registered to another for the same goods on August 20, 1935.

Agreeing with applicant's contention that the marks as a whole must be considered, including those portions which may be descriptive or have been disclaimed, it was held that the word "master" is the dominant feature of each mark, that in applicant's mark the word "Juice," standing alone, is obviously devoid of trade-mark significance with

respect to applicant's goods; so that purchasers are necessarily more likely to remember the word "Master" as indicating origin, and that the goods of the application and those of the reference being identical, it thus seems reasonably probable that the concurrent use of the two marks would lead to confusion.

In response to applicant's argument that there is a large number of registered trade-marks in which the word "master" appears in combination with other words, so that this word "has long since become public property," it was held that, assuming that to be true, the addition of applicant's mark to the list would not remedy the situation; rather, it would further add to the existing confusion.

SWEETS LABORATORIES, INC., *v.* LEXEY B. ELLIS, JR. (THE PROCTER & GAMBLE COMPANY, RENEWANT), Cancellation No. 4,298.

In a decision rendered May 25, 1944 (166 Ms. Dec. 499, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences granting the promptly filed motion to amend the petition for cancellation, filed by Sweets Laboratories, Inc., New York, N. Y., and reinstating the proceeding, where a motion to dismiss filed by The Procter & Gamble Company, of Memphis, Tenn., had been granted because the petition was fatally defective, and the amendment inserted a paragraph containing the missing allegations with respect to the similarity of the marks and the descriptive properties of the goods.

It was held that respondent may plead to the petition as amended, either by motion or by answer, precisely as though the petition had been filed anew, and its time for so doing would be reset by the Examiner of Interferences.

KELLOGG COMPANY *v.* ALFRED PRICE (DOING AS FOUNTAIN SERVICE COMPANY), Opposition No. 22,276.

In a decision rendered May 26, 1944 (166 Ms. Dec. 500, — U. S. P. Q. —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had dismissed the opposition filed by Kellogg Company, of Battle Creek, Mich., to the application of Alfred Price (doing business as Fountain Service Company), of New York, N. Y., for registration of the notation "Hi-Pep" as a trade-mark for "nonalcoholic maltless beverages," the Examiner of Interferences having further adjudged that the applicant is entitled to the registration for which he has made application.

The opposition was based upon the ownership of twelve registrations of the word "Pep," alone, or in combination with other features, and prior use of the word "Pep" on unfermented grape juice.

As to the use on grape juice, it was held that opposer has forfeited any right to relief under the statute because of lack of satisfactory explanation of the deceptive practice of falsely and persistently indicating on opposer's labels that the mark is registered for such goods.

As to the twelve registrations, it was held that eleven were properly disregarded by the Examiner of Interferences.

It was held that the registration of the word "Pep" for "a coffee-like beverage," granted under the act of February 20, 1905, on an application filed some two years' prior to applicant's first use of the "Hi-Pep" mark, may be regarded as a statutory bar to the opposed application, resolving doubts somewhat liberally in opposer's favor, since, broadly speaking, a coffee-like beverage, is, of course, a nonalcoholic maltless beverage, although this conclusion would have been reached with considerable reluctance were it not for the further conclusion that the application must be rejected in any event.

The word "Pep" in applicant's mark was held by the Examiner of Trade-Marks to be descriptive of the goods, and was promptly disclaimed by applicant. It was held that if the word "Pep" is descriptive of applicant's goods, it seems clear beyond question that the expression "Hi-Pep" is at least equally so, and that the mark as a whole is merely descriptive of the character or quality of such goods, and is forbidden registration by the express terms of the statute.

NUTRITION RESEARCH LABORATORIES *v.* JOHN WYETH AND BROTHER, INCORPORATED (BY CHANGE OF NAME, WYETH INCORPORATED), Cancellation No. 3,991.

In a decision rendered May 30, 1944 (166 Ms. Dec. 504, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the petition of Nutrition Research Laboratories, of Philadelphia, Pa., to cancel trade-mark registration No. 358,654, issued July 19, 1938, under the provisions of the act of February 20, 1905, to John Wyeth and Brother, Incorporated (by change of name, Wyeth Incorporated), of Chicago, Illinois.

Respondent's mark is the word "Bewon," and the goods to which it is appropriated are described in the registration as "a medicinal preparation containing vitamin B_1 for use as a tonic and an appetite stimulator." The petition to cancel is predicated upon the alleged descriptiveness of the mark as applied to respondent's goods.

It was held that "B_1" and "Bewon" are identical in sound, so that it is impossible to pronounce respondent's mark without naming the essential component of its goods, and that the mark is thus descriptive.

Although respondent insisted that petitioner had failed to prove itself injured by the registration, it was held that petitioner, like respondent, is a manufacturer of vitamin preparations, and has the right in common with others to the unrestricted use of all words or symbols that properly describe its merchandise, that "B_1" is such a symbol; and because of its identity in sound with the respondent's mark, the registration of the latter is a potential threat to petitioner's security in the use of that symbol.

After noting that petitioner applied for registration of the word "Bezon" as a trade-mark for a "natural vitamin B complex concentrate," and its application was opposed by respondent on the ground that the mark sought to be registered was confusingly similar to respondent's registered mark here in issue, the opposition having been sustained by the Examiner of Interferences, these facts having been pleaded in the petition to cancel, it was held that these facts are established by the record and no further proof of injury was necessary.

JOHN WYETH AND BROTHER, INCORPORATED (BY CHANGE OF NAME, WYETH INCORPORATED) *v.* NUTRITION RESEARCH LABORATORIES, INC. (NUTRITION RESEARCH LABORATORIES, ASSIGNEE, SUBSTITUTED), Opposition No. 20,314.

In a decision rendered May 30, 1944 (166 Ms. Dec. 503, — U. S. P. Q. —), *First Assistant Commissioner Frazer* dismissed without prejudice an appeal from the action of the Examiner of Interferences sustaining the opposition of John Wyeth and Brother, Incorporated (by change of name, Wyeth Incorporated), of Chicago, Ill., to the application of Nutrition Research Laboratories, Inc. (Nutrition Research Laboratories, Assignee, Substituted), of Philadelphia, Pa., for registration of a trade-mark, on the ground that said mark was confusingly similar to a mark previously registered to opposer and pleaded in the notice of opposition.

On December 12, 1941, an appeal to the Commissioner was taken from the decision of the Examiner of Interferences. On January 15, 1942, applicant filed a petition to cancel the registration upon which opposer had relied; and on April 3, 1942, applicant filed a motion in the opposition proceeding that the appeal be suspended pending a decision by the Examiner of Interferences in the cancelation proceeding. That motion was granted on April 22, 1942. On September 24, 1943, the Examiner of Interferences sustained the petition to cancel; and in due course an appeal was taken from that decision. Thereupon applicant filed a motion, which was granted, that the appeal in the opposition proceeding be set for hearing; and the two cases were argued on the same day.

Having affirmed the decision of the Examiner of Interferences in the cancelation proceeding in a decision concurrently rendered, no opinion was expressed as to whether or not the resulting cancelation of opposer's registration will require a different disposition of the opposition proceeding than that from which the instant appeal was taken, and the cause was remanded to the Examiner of Interferences, whose jurisdiction was restored for the purpose of taking such further action, by way of reopening or otherwise, as he may deem appropriate.

C. E. LANGFIELD *v.* GREAT STUFF PRODUCTS COMPANY, INC., Opposition No. 22,152.

In a decision rendered May 31, 1944 (166 Ms. Dec. 506, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of C. E. Langfield, of Northville, Mich., to the application of Great Stuff Products Company, Inc., of West New York, N. J., for registration of the word "Solvo" as a trade-mark for merchandise described in the application as "hand cleaner." Opposer relied upon his trade-mark "Solvite," previously registered for a dry-cleaning soap.

Notwithstanding applicant's argument that the goods are not of the same descriptive properties, and that the marks are sufficiently different to warrant registration, it was held that the goods are of the same descriptive properties, and that the marks are confusingly similar; at least, there is considerable doubt as to applicant's right to the proposed registration; and such doubt must be resolved in opposer's favor.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 27, 1944

[VOL. 563. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 460,772. HAROLD J. SEARER, doing business as Akron Linen Products Company, Akron, Ohio. Filed May 20, 1943.

Chemiflex

FOR SYNTHETIC RUBBER.
Claims use since May 1, 1942.

Ser. No. 460,917. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed May 26, 1943.

CARVOCAST

FOR ART GOODS IN THE FORM OF BLOCKS FROM WHICH STATUETTES AND OTHER ARTICLES MAY BE CARVED AND IN THE FORM OF A POWDER TO BE USED FOR CASTING STATUETTES AND OTHER ARTICLES.
Claims use since Feb. 24, 1943.

Ser. No. 469,072. AGICIDE LABORATORIES, INC., Racine, Wis. Filed Apr. 6, 1944.

AGISHEL

FOR NUTSHELL AND FRUIT PIT FLOUR, AS A PARTIALLY PREPARED PIGMENT FOR PAINT, CARRIER FOR INSECTICIDES, AND OTHER DIVERGENT INDUSTRIAL USES.
Claims use since Feb. 6, 1942.

CLASS 2

RECEPTACLES

Ser. No. 465,339. KEYES FIBRE COMPANY, Waterville, Maine. Filed Nov. 27, 1943.

KYS

FOR MOLDED PULP PLATES, DISHES, TRAYS, AND CUPS AND RESIN-BEARING FIBROUS ARTICLES—NAMELY, PLATES, DISHES, TRAYS AND CUPS.
Claims use to molded pulp plates, dishes, trays, and cups, since Oct. 16, 1936; and to resin-bearing fibrous articles—namely, plates, dishes, trays, and cups, since Mar. 22, 1940.

Ser. No. 468,589. ASSOCIATED DISTRIBUTORS, Chicago, Ill. Filed Mar. 24, 1944.

TABU

FOR VANITY CASES, COMPACTS AND LIPSTICK CASES MADE OF BASE METALS AND PLASTIC COMPOSITIONS AND SOLD IN TRADE EMPTY.
Claims use since Dec. 10, 1932.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 468,591. HENRI BENDEL, INC., New York, N. Y. Filed Mar. 24, 1944. Under 10-year proviso.

Henri Bendel

FOR PURSES, HAND BAGS, WALLETS, AND LEATHER COSMETIC BAGS.
Claims use since January 1895.

Ser. No. 469,052. THE LIFTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 5, 1944.

Lif-Tex

FOR BRIEF CASES.
Claims use since Mar. 29, 1944.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 464,840. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Nov. 8, 1943.

B. W. C.

FOR CLEANING, CLEANSING AND DETERGENT MATERIAL HAVING INCIDENTAL WATER-SOFTENING PROPERTIES.
Claims use since Aug. 3, 1939.

Ser. No. 464,842. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Nov. 8, 1943.

F-100

FOR CLEANING, CLEANSING AND DETERGENT MATERIAL, PARTICULARLY ADAPTED FOR FLOORS, WALLS OF BUILDINGS, BUT NOT LIMITED THERETO.
Claims use since May 31, 1939.

Ser. No. 464,844. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Nov. 8, 1943.

S. I. FLAKES

The word "Flakes" is disclaimed apart from the mark.
FOR CLEANING, CLEANSING AND DETERGENT MATERIAL, PARTICULARLY ADAPTED FOR WASHING BOTTLES, BUT NOT LIMITED THERETO.
Claims use since about July 21, 1938; and in association with the word "Alkali" instead of the word "Flakes" from about June 8, 1931, up to about July 21, 1938.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 462,166. IMPERIAL CHEMICAL INDUSTRIES, LIMITED, London, England. Filed July 19, 1943.

ALKATHENE

FOR POLYMERISED ETHYLENE (POLYTHENE) BEING SOLID CHEMICAL SUBSTANCES OF HIGH MOLECULAR WEIGHT USED IN INDUSTRY OR MANUFACTURES.
Claims use since Feb. 1, 1942.

Ser. No. 466,138. ASSOCIATED DISTRIBUTORS, Chicago, Ill. Filed Dec. 29, 1943.

CINEMA CAKE MAKEUP

No claim is made to the words "Cake Makeup" alone.
FOR LIPSTICK, ROUGE, FACE POWDER, COLD CREAM, FACIAL MAKE-UP, HAND LOTION, COLOGNE, TOILET WATER, BRILLIANTINE, SHAMPOO, NAIL POLISH, AND PERFUMES.
Claims use since June 13, 1934.

Ser. No. 466,721. JULIUS BLACKMAN CORPORATION, doing business as Supreme Pharmaceutical Company, New York, N. Y. Filed Jan. 20, 1944.

Be · Plus

The letter "V" and the word "Be" are disclaimed apart from the mark.
FOR VITAMIN TABLETS, CAPSULES AND PILLS.
Claims use since Aug. 28, 1941.

Ser. No. 467,055. VITAMINS, INC., Chicago, Ill. Filed Jan. 31, 1944.

VI-THERA

FOR VITAMINS A, C, AND D FOR THERAPEUTIC PURPOSES.
Claims use since Sept. 29, 1943.

Ser. No. 467,440. SONYA TASLER, Tucson, Ariz. Filed Feb. 15, 1944.

Sonya

FOR DEODORANT POWDER.
Claims use since Feb. 15, 1943.

Ser. No. 467,479. WILLIAM R. WARNER & Co. INC., Wilmington, Del., and New York, N. Y. Filed Feb. 16, 1944.

UTILIN

FOR AMINO ACID PREPARATIONS FOR USE IN THE TREATMENT OF NUTRITIONAL DISORDERS.
Claims use since Feb. 5, 1944.

Ser. No. 467,746. ATTAPULGUS CLAY COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed Feb. 25, 1944.

ClāOH

FOR ADSORBENT MATERIALS OF THE TYPES KNOWN AS PREPARED FULLER'S EARTH, BENTONITE, BAUXITE, AND THE LIKE.
Claims use since Dec. 23, 1943.

Ser. No. 467,910. AR-EX COSMETICS INC., Chicago, Ill. Filed Mar. 2, 1944.

AR-EX
chap cream

The words "Chap Cream" and the prescription symbol are disclaimed apart from the mark.
FOR COSMETIC HAND CREAM.
Claims use since Feb. 5, 1944.

Ser. No. 468,275. THE ARMAND COMPANY, Des Moines, Iowa. Filed Mar. 14, 1944.

TEEN AND TWENTY

FOR FACE POWDER.
Claims use since Feb. 19, 1944.

Ser. No. 468,588. ASSOCIATED DISTRIBUTORS, Chicago, Ill. Filed Mar. 24, 1944.

POWDER AID

No claim is made to the word "Powder" alone.
FOR LIPSTICK, ROUGE, ANTI-PERSPIRANT, DEODORANT, EYELASH AND EYEBROW MASCARA, CREAMS FOR THE HANDS AND FACE, FACE POWDER, COLD CREAM, FACIAL MAKE-UP, HAND LOTION, BODY LOTION, LEG MAKE-UP, COLOGNE, TOILET WATER, BRILLIANTINE, SHAMPOO, NAIL POLISH, NAIL POLISH REMOVER, NAIL LACQUER, NAIL WHITE, NAIL OIL, NAIL BALM, NAIL SALVE, CUTICLE REMOVER AND PERFUMES.
Claims use since Jan. 8, 1941.

Ser. No. 468,765. SPECIFIC PHARMACEUTICALS, INC., New York, N. Y. Filed Mar. 28, 1944.

INTRABIS

FOR BISMUTH INJECTION FOR USE IN THE TREATMENT OF SYPHILIS.
Claims use since Jan. 15, 1944.

Ser. No. 468,766. JESSIE TROOP, Chicago, Ill. Filed Mar. 28, 1944.

GOLDEN LILY HAIR PREPARATION

The words "Hair Preparation" are disclaimed apart from the mark.
FOR HAIR PREPARATION.
Claims use since Sept. 1, 1939.

Ser. No. 468,771. BAILEY, PRIHODA & Co., doing business as D'Sapeer Co., Kalamazoo, Mich. Filed Mar. 29, 1944.

D'SAPEER

FOR DEODORANT FOR CLOTHING AND THE HOME.
Claims use since Oct. 19, 1943.

Ser. No. 468,889. THE KELLEY ISLAND LIME AND TRANSPORT COMPANY, Cleveland, Ohio. Filed Mar. 31, 1944.

MAG-SPRAY

Applicant disclaims the word "Spray" apart from the mark.
FOR AGRICULTURAL LIME FOR SPRAYING AND DUSTING.
Claims use since Mar. 17, 1944.

Ser. No. 468,925. THE NATIONAL MINERAL COMPANY, Chicago, Ill. Filed Apr. 1, 1944.

Naminco

FOR MACHINELESS HAIR WAVING SOLUTION AND CROQUIGNOLE HAIR WAVING SOLUTION.
Claims use since July 10, 1939.

Ser. No. 468,940. HENRI BENDEL, INC., New York, N. Y. Filed Apr. 3, 1944.

pert

FOR HAND AND FACE LOTIONS, FACE AND BATH POWDER, BATH OIL, BATH SALTS, SACHET, ROUGE AND LIPSTICK.
Claims use since Aug. 16, 1943.

Ser. No. 468,941. HENRI BENDEL, INC., New York, N. Y. Filed Apr. 3, 1944.

vixen

FOR HAND AND FACE LOTIONS, FACE AND BATH POWDER, BATH OIL, BATH SALTS, SACHET, ROUGE AND LIPSTICK.
Claims use since Aug. 16, 1943.

Ser. No. 468,951. CENTRAL CHEMICAL CORPORATION, Everett, Pa., and Hagerstown, Md. Filed Apr. 3, 1944.

PRO-TEX

FOR INSECTICIDE AND FUNGICIDE.
Claims use since May 1937.

Ser. No. 468,952. CENTRAL CHEMICAL CORPORATION, Everett, Pa., and Hagerstown, Md. Filed Apr. 3, 1944.

SOYTEX

FOR INSECTICIDE AND FUNGICIDE.
Claims use since May 1942.

Ser. No. 469,133. RYCO LABORATORIES, INC., New York, N. Y. Filed Apr. 7, 1944.

ALLOPAD

FOR MEDICATED SURGICAL GAUZE.
Claims use since Mar. 14, 1944.

Ser. No. 469,169. RESEARCH DRUG CO. INC., New York, N. Y. Filed Apr. 8, 1944.

TOLERGEN

FOR PREPARATION TO BE USED INTERNALLY FOR THE TREATMENT OF ALLERGIES.
Claims use since Mar. 1, 1944.

Ser. No. 469,177. THE WELLA CORPORATION, New York, N. Y. Filed Apr. 8, 1944.

BEAUTILOX

FOR PERMANENT WAVE SOLUTION.
Claims use since Feb. 26, 1944.

Ser. No. 469,315. TRI-PIRIN CORPORATION, New York, N. Y. Filed Apr. 13, 1944.

TRI-PIRIN

FOR ASPIRIN PREPARATION.
Claims use since Feb. 4, 1944.

Ser. No. 469,330. FIRST TEXAS CHEMICAL MANUFACTURING CO., Dallas, Tex. Filed Apr. 14, 1944.

NEOVICAPS

FOR VITAMIN PREPARATION.
Claims use since Mar. 27, 1944.

Ser. No. 469,358. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed Apr. 15, 1944.

Genocel

FOR ESTROGENIC HORMONE PREPARATION.
Claims use since Mar. 16, 1944.

Ser. No. 469,369. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y. Filed Apr. 15, 1944.

SYLSIZE

FOR CHEMICAL COMPOUNDS FOR IMPREGNATING, COATING, AND PRINTING TEXTILES AND PAPERS.
Claims use since Mar. 31, 1944.

CLASS 10

FERTILIZERS

Ser. No. 469,016. THE PACIFIC LUMBER COMPANY, San Francisco, Calif. Filed Apr. 4, 1944.

Palco

FOR SOIL LIGHTENER AND MULCH COMPRISING COMMINUTED PLANT FIBER FOR USE LIKE PEAT MOSS.
Claims use since Mar. 2, 1944.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 462,258. DAVID M. LORENZ, Kansas City, Kans. Filed July 23, 1943.

SCRAP-TRAP

The term "Scrap" is disclaimed apart from the mark.
FOR STANDS FOR SUPPORTING BAGS TO RECEIVE WASTE MATERIALS.
Claims use since July 10, 1943.

Ser. No. 464,565. CECO STEEL PRODUCTS CORPORATION, Omaha, Nebr. Filed Nov. 1, 1943.

Ceco

FOR METAL SCREEN CLOTH, HARDWARE CLOTH, WINDOW LIFTS, HINGES AND ADJUSTERS, METAL FENCE POSTS, NAILS, AND METAL FENCING.
Claims use on metal fence posts, nails and metal fencing since 1927; and on metal screen cloth, hardware cloth, window lifts, hinges and adjusters since 1935.

CLASS 15

OILS AND GREASES

Ser. No. 460,131. ALOX CORPORATION, Niagara Falls, N. Y. Filed Apr. 24, 1943.

ALOX

FOR OIL COMPOSITION FOR THE PRESERVATION AND LUBRICATION OF FIREARMS, FIREARM PARTS AND FIREARM ACCESSORIES.
Claims use since Feb. 1, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 464,019. HARRY DARBY, doing business as Harry Darby, Manufacturer, Kansas City, Kans. Filed Oct. 9, 1943.

COWBOY BRAND

No claim is made to the word "Brand" apart from the mark.
FOR MOTOR BOATS, BARGES, BUOYS, INDUSTRIAL RAIL CARS, PONTOONS, AND STEEL TRUCK BODIES.
Claims use since Sept. 25, 1943.

Ser. No. 465,736. HARRY DARBY, doing business as Harry Darby, Manufacturer, Kansas City, Kans. Filed Dec. 13, 1943.

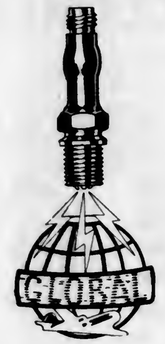
PRAIRIE SCHOONER

FOR MOTOR BOATS, BARGES, BUOYS, AND PONTOONS.
Claims use since Nov. 16, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 465,211. DELBERT E. REPLOGLE, doing business as Global Spark Plug Co., Paterson, N. J. Filed Nov. 22, 1943.



The lining is intended to indicate speed. The representation of the goods is disclaimed except as shown.
FOR SPARK PLUGS.
Claims use since Oct. 26, 1943.

Ser. No. 469,483. WINTHROP'S VACUUM CLEANER CORP., Paterson, N. J. Filed Apr. 19, 1944.

Life - Time

FOR ELECTRIC VACUUM CLEANERS AND ATTACHMENTS THEREFOR, SUCH AS FLEXIBLE HOSE, BRUSHES, MOTH-PROOFING, SPRAYING AND POLISHING EQUIPMENT.
Claims use since Jan. 5, 1944.

Ser. No. 469,551. WELLS MANUFACTURING CORPORATION, Fond du Lac, Wis. Filed Apr. 21, 1944.



FOR MAGNETO SERVICE PARTS COMPRISING MAGNETO WINDINGS OF ALL TYPES, MAGNETO CONDENSERS, MAGNETO CONTACT POINTS, MAGNETO DISTRIBUTOR PLATES, MAGNETO DISTRIBUTOR ROTORS, MAGNETO DISTRIBUTOR DISCS, AND SMALL MAGNETO SERVICE PARTS.
Claims use since Mar. 8, 1944.

Ser. No. 469,576. PRESS WIRELESS, INC., Chicago, Ill. Filed Apr. 22, 1944.



FOR RADIO TRANSMITTERS.
Claims use since Apr. 13, 1944.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 467,750. GEORGE S. CARRINGTON CO., Chicago, Ill. Filed Feb. 25, 1944.

The JEEP Board

The word "Board" is disclaimed apart from the mark shown.
FOR CERTAIN BOARD GAME PLAYED WITH PEGS.
Claims use since Apr. 1, 1943.

Ser. No. 467,968. EMARD PACKING COMPANY, Seattle, Wash. Filed Mar. 4, 1944.

REEL McCOY

No claim is made to the word "McCoy" apart from the mark.
FOR SALMON EGGS FOR USE BY FISHERMEN AS BAIT FOR FISH.
Claims use since Jan. 10, 1944.

Ser. No. 468,104. BINKY BABY PRODUCTS COMPANY, New York, N. Y. Filed Mar. 9, 1944.

Binkytoy

FOR TOY ANIMALS, TOY WAGONS, TOY ARMY TANKS, TOY CARTS, TOY AUTOMOBILES, TOY AIRPLANES, MOUNTING ANIMAL FIGURES—NAMELY, ELEPHANTS, HORSES, AND DOGS, FLOATING TOYS—NAMELY, TOY BOATS AND TOY BALLOONS, TEETHING TOYS—NAMELY, RATTLES AND DOLLS, TOY RATTLES, DOLLS, STUFFED ANIMAL TOYS.
Claims use since January 1939.

Ser. No. 469,407. LARRY LOWY, Rockaway Park, New York, N. Y. Filed Apr. 17, 1944.

SEE-⊙-PHONE

FOR COMBINED PHONOGRAPH AND MOTION PICTURE TOY.
Claims use since Nov. 5, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 467,458. J. DANIEL MCCARTY, doing business as Aviation Equipment Manufacturing Company, Washington, D. C. Filed Feb. 16, 1944.

AV-EQUIP

FOR AIRCRAFT SERVICING EQUIPMENT AND PARTS THEREOF COMPRISING ENGINE CHANGING CRANES, FUSELAGE JACKS, WING JACKS, CRANK TURNING BARS, ENGINE HANDLING EYES, SWIVEL ENGINE HANDLING EYES, AND OTHER ENGINE LIFTING EQUIPMENT.
Claims use since Dec. 1, 1943.

Ser. No. 468,790. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Mar. 29, 1944.

JILET

FOR SAFETY RAZORS AND SAFETY RAZOR BLADES.
Claims use since Mar. 21, 1944.

Ser. No. 468,798. HI-WAY SERVICE CORPORATION, Milwaukee, Wis. Filed Mar. 29, 1944.

BULLCLAM SHOVEL

No claim is made to the word "Shovel" apart from the mark.
FOR SHOVEL ATTACHMENT FOR TRUCKS AND TRACTORS.
Claims use since Aug. 8, 1941.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 460,287. THE J. R. CLARK COMPANY, Minneapolis, Minn. Filed Apr. 30, 1943.

RID-JID

FOR IRONING TABLES.
Claims use since February 1918.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 463,604. PITTSBURGH EQUITABLE METER COMPANY, Pittsburgh, Pa. Filed Sept. 23, 1943.

STREEEMLINE

FOR WATER METERS.
Claims use since Nov. 12, 1941.

Ser. No. 466,429. THE CITY ENGINEERING COMPANY, Dayton, Ohio. Filed Jan. 10, 1944.

CEC

FOR GAGES OF THE NON-ADJUSTABLE TYPE SUCH AS PLAIN SNAP GAGES, PLUG GAGES, FEELER OR PLUNGER GAGES, LOCATING GAGES, PROFILE GAGES, AND RING GAGES.
Claims use since November 1943.

Ser. No. 466,945. LOOK, INC., Des Moines, Iowa. Filed Jan. 28, 1944.

WORLD SPOTLIGHT

FOR MOTION PICTURE FILMS, SOUND FILMS, COMBINED SOUND AND MOTION PICTURE FILMS, FILM MAGAZINES AND MOTION PICTURE FILMS FOR USE IN CONNECTION WITH SYNCHRONIZED APPARATUS FOR SIMULTANEOUSLY REPRODUCING COORDINATED LIGHT AND SOUND EFFECT.
Claims use since Oct. 7, 1943.

Ser. No. 469,594. FORD MOTOR COMPANY, Dearborn, Mich. Filed Apr. 24, 1944.

"JO"—BLOCKS

The word "Blocks" is disclaimed apart from the mark.
FOR PRECISION GAGE BLOCKS.
Claims use since Mar. 22, 1944.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 467,102. PHILIP MEDNICK, Brooklyn, N. Y. Filed Feb. 2, 1944.

ACQUA

FOR BRUSHES FOR AUTOMOBILE WASHING AND CLEANING.
Claims use since Jan. 1, 1944.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 469,109. H. A. ASTLETT & CO., New York, N. Y. Filed Apr. 7, 1944.

ASTLAMAR

FOR REFRIGERATORS.
Claims use since December 1943.

Ser. No. 469,183. ARMALY SPONGE & CHAMOIS CO. INC., Detroit, Mich. Filed Apr. 10, 1944.

SI-PAD

No claim is made to the word "Pad" apart from the mark.
FOR SISAL PAD FILTERS.
Claims use since January 1943.

Ser. No. 469,884. AIR DEVICES, INC., New York, N. Y. Filed May 3, 1944.

PERMO-AIRE

No claim is made to the word "Aire" apart from the mark.
FOR AIR FILTERS.
Claims use since May 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 466,356. NATIONAL PLASTIC PRODUCTS COMPANY, Odenton, Md. Filed Jan. 6, 1944.



FOR DINING ROOM FURNITURE, BED ROOM FURNITURE, OFFICE FURNITURE, KITCHEN FURNITURE AND UPHOLSTERED FURNITURE COVERED WITH PLASTIC WOVEN FABRIC AND PLASTIC SHEETING.
Claims use since July 1941.

Ser. No. 469,890. BRODY MFG. CO., NOT INC., Chicago, Ill. Filed May 3, 1944.

BABYKIN

FOR PILLOWS.
Claims use since April 1938.

CLASS 33

GLASSWARE

Ser. No. 466,697. IMPERIAL GLASS CORPORATION, Bellaire, Ohio. Filed Jan. 19, 1944.

PERSONALIZED

FOR GLASSWARE FOR TABLE AND CULINARY PURPOSES.
Claims use since Dec. 6, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 460,175. DEMOCRAT PRINTING & LITHOGRAPHING COMPANY, Little Rock, Ark. Filed Apr. 26, 1943.



FOR INVOICES, STATEMENTS, LEDGER LEAVES AND PARTIALLY PRINTED LABELS.
Claims use since Jan. 1, 1943.

Ser. No. 467,990. WHITING-PLOVER PAPER COMPANY, Stevens Point, Wis. Filed Mar. 4, 1944.

Permanized
COLD SPRINGS

Applicant is the owner of Reg. No. 326,758. No claim is made to the words "Cold Springs" apart from the mark.
FOR BOND PAPER, LEDGER PAPER AND ONION SKIN PAPER.
Claims use since Feb. 1, 1944.

Ser. No. 469,111. H. A. ASTLETT & CO., New York, N. Y. Filed Apr. 7, 1944.

ASTLAMAR

FOR TOILET TISSUE, PAPER NAPKINS, PAPER TOWELS, TISSUE PAPER, FACIAL TISSUE, BOND PAPER, AND WRAPPING PAPER.
Claims use since December 1943.

Ser. No. 469,292. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Apr. 12, 1944.

WESCOTE

FOR WALL PAPER.
Claims use since Mar. 27, 1944.

Ser. No. 469,405. LAVERNE ORIGINALS, New York, N. Y. Filed Apr. 17, 1944.

[redacted]

FOR WALL PAPERS.
Claims use since 1929.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 452,852. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed May 7, 1942.



No claim is made to the words "Famous Stories" apart from the mark.
FOR BI-MONTHLY ILLUSTRATED STORY MAGAZINE.
Claims use since Mar. 17, 1942.

CLASS 39

CLOTHING

Ser. No. 457,095. LORD JEFF KNITTING COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 28, 1942.



The representation of the boy is fanciful.
FOR SWEATERS FOR MEN, WOMEN, BOYS, AND GIRLS, MUFFLERS AND COTTON BASQUE SHIRTS.
Claims use since November 1941.

Ser. No. 457,824. DURENE ASSOCIATION OF AMERICA, New York, N. Y. Filed Jan. 9, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

DURENE

FOR WEARING APPAREL FOR MEN, WOMEN, AND CHILDREN — NAMELY, UNDERWEAR, HOSIERY, MUFFLERS, SWEATERS, KNITTED SUITS, TEAM UNIFORMS, SWIMMING SUITS, SPORT COATS, SWEATSHIRTS, POLO SHIRTS, DRESSING GOWNS AND PAJAMAS; WOMEN'S AND CHILDREN'S DRESSES, SUN SUITS, ROMPERS AND OVERALLS; CHILDREN'S SLEEPERS, TEXTILE DIAPERS; FOUNDATION GARMENTS; AND COTTON GLOVES.
Claims use on underwear, hosiery and polo shirts since Jan. 2, 1930; on swimming suits since June 15, 1930; on dresses since Aug. 15, 1930; on sun suits since June 1, 1931; on knitted suits, sport coats, sweaters, sweatshirts, rompers, mufflers and gloves since Aug. 5, 1931; on dressing gowns, pajamas, sleepers and diapers since Aug. 17, 1931; on foundation garments since Apr. 1, 1932; on overalls since May 1, 1935; and on team uniforms since Feb. 1, 1939.

Ser. No. 466,862. SALFAIR, New York, N. Y. Filed Jan. 25, 1944.

GAYTOPPER

FOR LADIES' AND MISSES' HATS.
Claims use since Jan. 10, 1942.

Ser. No. 468,682. LESTER PINCUS SHOE CORP., New York, N. Y. Filed Mar. 25, 1944.

Cord-eez

No claim is made to the word "Cord" apart from the mark.
FOR SHOES HAVING FABRIC UPPERS AND CORD SOLES.
Claims use since Feb. 1, 1944.

Ser. No. 468,801. LYDIA, New York, N. Y. Filed Mar. 29, 1944.

Lydia

FOR LADIES' AND MISSES' HATS.
Claims use since January 1929.

Ser. No. 468,919. HEYWOOD BOOT & SHOE CO., Worcester, Mass. Filed Apr. 1, 1944.



The words "Pro Merito" are disclaimed apart from the mark.
FOR LEATHER BOOTS AND SHOES.
Claims use since Mar. 17, 1944.

Ser. No. 469,140. L. ABELSON & SON, New York, N. Y. Filed Apr. 8, 1944.

Jumiapaca

FOR OVERCOATS, TOPCOATS, AND FINGERTIP COATS FOR BOYS AND GIRLS.
Claims use since Mar. 31, 1944.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 464,690. CRAIG MANUFACTURING COMPANY, INC., New York, N. Y. Filed Nov. 4, 1943.

Constant Comfort

The word "Comfort" is disclaimed apart from the mark.
FOR COMFORTS.
Claims use since Nov. 1, 1943.

Ser. No. 467,263. ATLANTA WOOLEN MILLS, Atlanta, Ga. Filed Feb. 8, 1944.

Tarahall

FOR WOOLEN PIECE GOODS.
Claims use since Dec. 18, 1943.

Ser. No. 467,653. EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 22, 1944.

CROCHERE

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.
Claims use since Sept. 15, 1931.

Ser. No. 467,656. EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 22, 1944.

NINGAH

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON AND PROTEIN FIBRES.
Claims use since Jan. 28, 1936.

Ser. No. 468,071. EVERFAST FABRICS, INC., New York, N. Y. Filed Mar. 8, 1944.

WILLOWEVE

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON AND PROTEIN FIBRES.
Claims use since Oct. 9, 1928.

Ser. No. 468,851. PEDIGREE FABRICS, INC., New York, N. Y. Filed Mar. 30, 1944.

Pedicrest

FOR RAYON PIECE GOODS.
Claims use since February 1938.

Ser. No. 469,614. SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 24, 1944.

WINTERIZED

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since July 22, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 468,106. BINKY BABY PRODUCTS COMPANY, New York, N. Y. Filed Mar. 9, 1944.

Binkytoy

FOR TEETHING RINGS, PACIFIERS, AND NIPPLES.
Claims use since January 1939.

Ser. No. 468,927. THE NATIONAL MINERAL COMPANY, Chicago, Ill. Filed Apr. 1, 1944.

NAMINCO

FOR HAIR WAVING EQUIPMENT—NAMELY, SPACERS ADAPTED FOR USE WITH THE HEATERS OF PERMANENT HAIR WAVING MACHINES, AND PERMANENT HAIR WAVING PADS.
Claims use since June 2, 1940.

Ser. No. 469,287. B. H. STAUFFER RESEARCH LABORATORY, Los Angeles, Calif.. Filed Apr. 12, 1944.

RITH-MATIC

FOR AUTOMATIC BODY ALIGNMENT TABLES USED FOR THERAPEUTIC PURPOSES.
Claims use since November, 1938.

Ser. No. 469,432. COSMOS DENTAL PRODUCTS, INC., New York, N. Y. Filed Apr. 18, 1944.

SEALX

FOR FAST DRYING LIQUID FILM ACRYLIC INVESTMENT SEPARATION.
Claims use since Apr. 1, 1944.

Ser. No. 469,790. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Apr. 28, 1944.

PLASTI-PEDIC

FOR ARCH SUPPORTS.
Claims use since Apr. 18, 1944.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 461,400. WHITE ROCK MINERAL SPRINGS COMPANY, New York, N. Y. Filed June 14, 1943.

SAZ-ROCK

FOR SARSAPARILLA.
Claims use since Apr. 19, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 455,708. PAUL A. MOSESIAN & SONS, INC., Fresno, Calif. Filed Sept. 23, 1942.



The applicant is the owner of registrations No. 254,556, dated March 26, 1929, No. 392,192, dated Dec. 16, 1941, and No. 355,192, dated Mar. 8, 1938. No claim is made to the name "California" or to the map apart from the mark.
FOR FRESH GRAPES, FRESH DECIDUOUS FRUITS, FRESH MELONS, AND DRIED FRUITS.
Claims use since Aug. 10, 1925.

Ser. No. 461,084. WHIZ FISH PRODUCTS COMPANY, Seattle, Wash. Filed June 1, 1943.

Golden Mist

FOR FISH AND FISH PRODUCTS—NAMELY, CANNED FISH.
Claims use since 1939.

Ser. No. 467,391. CALIFORNIA IMPORTING CO., Los Angeles, Calif. Filed Feb. 14, 1944.



No claim is made to the name "Bari" apart from the mark. The portrait is that of "San Nicola" the patron saint of the town of Bari in Italy.
FOR SALAD OIL.
Claims use since Apr. 26, 1943.

Ser. No. 468,997. BEACON IMPORTING CO., Boston, Mass. Filed Apr. 4, 1944.

SEA-PET

Applicant disclaims the notation "Sea" separately from the mark.
FOR CANNED FISH.
Claims use since Mar. 27, 1944.

Ser. No. 469,208. MIM'S DOG FOOD COMPANY, Los Angeles, Calif. Filed Apr. 10, 1944.

MIM'S



FOR DOG FOOD.
Claims use since August 1942.

Ser. No. 469,381. CENTRAL SOYA COMPANY, INC., Fort Wayne, Ind. Filed Apr. 17, 1944.

PRO-SOY

Applicant disclaims the word "Soy" apart from the mark.
FOR COARSE SIZE DEFATTED SOY FLOUR.
Claims use since Mar. 20, 1944.

Ser. No. 469,590. GUSTAVE W. CARLSON, doing business as Super-Gleeps Company, Superior, Wis. Filed Apr. 24, 1944.

GLEEPS
popped! CORNFECTION

The words "Popped Cornfection" are disclaimed apart from the mark.
FOR CARAMELIZED POP CORN.
Claims use since Apr. 2, 1944.

Ser. No. 469,739. CHARLES BANKS STOUT, doing business as Higginsville Flour Mill, Memphis, Tenn. Filed Apr. 27, 1944.

THREADS of GOLD

FOR WHEAT FLOUR.
Claims use since 1916.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 27, 1944

407,749. DEODORANTS FOR PERSONAL USE IN CREAM AND LIQUID FORM CUSTOMARILY APPLIED TO THE HUMAN SKIN. FAREL DESTIN, INC., New York, N. Y.
Filed July 17, 1940. Serial No. 434,061. PUBLISHED NOVEMBER 9, 1943. Class 6.

407,750. NON-ALCOHOLIC MALTLESS BEVERAGE AND COMPOUND FOR MAKING THE SAME. J. C. ENO (U. S.), LIMITED, Bloomfield, N. J.
Filed March 10, 1941. Serial No. 441,393. PUBLISHED APRIL 11, 1944. Class 45.

407,751. OPTICAL FRAMES. WARD MANUFACTURING CO., INC., North Arlington, N. J.
Filed February 12, 1942. Serial No. 450,926; PUBLISHED JULY 21, 1942. Class 26.

407,752. ANTISEPTIC DENTIFRICE FOR PROFESSIONAL AND HOME USE. BOXYGEN LABORATORIES LIMITED, Toronto, Ontario, Canada.
Filed March 4, 1942. Serial No. 451,403. PUBLISHED AUGUST 25, 1942. Class 6.

407,753. DISPLAY BINS, DISPLAY CABINETS, DISPLAY CASES, DISPLAY COUNTERS, DISPLAY SHELVES, DISPLAY STANDS AND DISPLAY TRAYS, HAT STANDS AND SHOE RACKS OF WOOD, METAL, OR COMPOSITION. JOSEPH H. MEYER BROS., Brooklyn, N. Y., assignor to Duranol Products, Inc., Brooklyn, N. Y., a corporation of New York.
Filed July 25, 1942. Serial No. 454,509. PUBLISHED APRIL 18, 1944. Class 32.

407,754. FERROUS AND A NON-FERROUS ALLOY. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y.
Filed October 1, 1942. Serial No. 455,893. PUBLISHED APRIL 4, 1944. Class 14.

407,755. TOILET PREPARATIONS — NAMELY, TOILET WATER, SACHET, TALCUM POWDER, AND PERFUME. LARKIN STORE CORPORATION, Buffalo, N. Y.
Filed October 21, 1942. Serial No. 456,311. PUBLISHED APRIL 11, 1944. Class 6.

407,756. PIECE TEXTILE FABRICS CONTAINING ASBESTOS AND FIBROUS GLASS. THE DUPLAN CORPORATION, New York, N. Y., assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware.
Filed January 28, 1943. Serial No. 458,206. PUBLISHED APRIL 18, 1944. Class 42.

407,757. TERRESTRIAL GLOBES, TERRESTRIAL GLOBE SUPPORTS OR BASES, AND PARTS THEREOF. RAND MCNALLY & COMPANY, Chicago, Ill.
Filed February 8, 1943. Serial No. 458,404. PUBLISHED APRIL 18, 1944. Class 26.

407,758. TERRESTRIAL GLOBES, TERRESTRIAL GLOBE SUPPORTS OR BASES, AND PARTS THEREOF. RAND MCNALLY & COMPANY, Chicago, Ill.
Filed February 8, 1943. Serial No. 458,405. PUBLISHED APRIL 18, 1944. Class 26.

407,759. NUTRITIVE TONIC CONTAINING VITAMINS AND MINERALS. C. E. JAMIESON & Co., Detroit, Mich.
Filed March 15, 1943. Serial No. 459,118. PUBLISHED JUNE 1, 1943. Class 6.

407,760. CORN PADS, CALLOUS AND BUNION PADS, CORN FILES, BUNION PROTECTORS AND SHIELDS, MOLESKIN COATED WITH ADHESIVE FOR APPLICATION TO THE FEET TO PREVENT ABRASION, ETC. FOREST CITY PRODUCTS, INC., Cleveland, Ohio.
Filed March 31, 1943. Serial No. 459,540. PUBLISHED APRIL 18, 1944. Class 44.

407,761. LADIES' COATS, LADIES' SUITS. LOUIS HELLER, New York, N. Y.
Filed April 13, 1943. Serial No. 459,835. PUBLISHED JUNE 15, 1943. Class 39.

407,762. PRODUCTS IN WHICH TUNGSTEN IS A PRINCIPAL INGREDIENT—NAMELY, TUNGSTEN ELECTRICAL CONTACTS, TUNGSTEN SEAL RODS FOR VACUUM AND GAS-FILLED TUBES, ELECTRICAL WIRES OF TUNGSTEN, AND PERMANENT ELECTRODES FOR WELDING. CLEVELAND TUNGSTEN, INC., Cleveland, Ohio.
Filed May 27, 1943. Serial No. 460,951. PUBLISHED APRIL 18, 1944. Class 21.

407,763. ACTION TOYS MADE OF WOOD AND REPRESENTING VARIOUS ANIMALS, BIRDS, FISH, AND INSECTS AND DESIGNED FOR THE AMUSEMENT OF CHILDREN. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed June 24, 1943. Serial No. 461,629. PUBLISHED APRIL 18, 1944. Class 22.

407,764. PIECE GOODS COMPOSED WHOLLY OR IN PART OF COTTON, RAYON, OR MIXTURES THEREOF. MEADTEX FABRICS CO., New York, N. Y.
Filed July 2, 1943. Serial No. 461,823. PUBLISHED OCTOBER 19, 1943. Class 42.

407,765. SEINE TWINE. EMPIRE TWINE AND YARN CO. INC., New York, N. Y.
Filed July 20, 1943. Serial No. 462,180. PUBLISHED APRIL 18, 1944. Class 7.

407,766. BODY POWDER, TALC, SACHET, BATH SALTS, FACE POWDER, ROUGE PARFAIT, LIPSTICK, EYE SHADOW, BEAUTY CAKE, SPECIAL CLEANSING CREAM, SPECIAL SKIN CREAM, ROSE CREAM MASK, AND MAKEUP BASE. RICHARD HUDNUT, New York, N. Y.
Filed July 27, 1943. Serial No. 462,342. PUBLISHED APRIL 11, 1944. Class 6.

407,767. MEDICAL PREPARATION, AN OINTMENT OF COD LIVER OIL AND VITAMINS WITH PHENOL FOR USE IN THE TREATMENT OF BURNS AND INDOLENT ULCERS. PHYSICIANS & HOSPITALS SUPPLY COMPANY, INC., doing business as Ulmer Pharmacal Company, Minneapolis, Minn.
Filed August 7, 1943. Serial No. 462,594. PUBLISHED JANUARY 4, 1944. Class 6.

407,768. METALLIC PRODUCT POSSESSING THE PROPERTIES OF BOTH FERROUS AND NON-FERROUS METALS, AND METAL ALLOYS. ADOLPH CHANOSKY, Fort Worth, Tex.
Filed August 19, 1943. Serial No. 462,846. PUBLISHED APRIL 4, 1944. Class 14.

407,769. COTTON PIECE GOODS. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed September 10, 1943. Serial No. 463,331. PUBLISHED APRIL 18, 1944. Class 42.

407,770. DENTAL ALLOYS. GAWMAL INC., New York, N. Y.
Filed September 20, 1943. Serial No. 463,515. PUBLISHED APRIL 18, 1944. Class 44.

407,771. PAPER BAGS. SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass. Filed October 6, 1943. Serial No. 463,945. PUBLISHED APRIL 18, 1944. Class 2.

407,772. PHONOGRAPH RECORDS. DECCA RECORDS, INC., New York, N. Y. Filed October 8, 1943. Serial No. 463,991. PUBLISHED NOVEMBER 23, 1943. Class 36.

407,773. FABRICS IN THE PIECE MADE OF RAYON AND ARTIFICIAL SILK. N. ERLANGER, BLUMGART & CO. INC., New York, N. Y. Filed October 19, 1943. Serial No. 464,249. PUBLISHED APRIL 18, 1944. Class 42.

407,774. SPECIALLY DESIGNED AUTOCLAVES, VALVES, FITTINGS, TUBING, CHAMBERS, PUMPS, COMPRESSORS, HEAT EXCHANGERS, RECEIVERS, ETC. AMERICAN INSTRUMENT COMPANY, Silver Spring, Md. Filed October 28, 1943. Serial No. 464,462. PUBLISHED APRIL 18, 1944. Class 26.

407,775. ELECTRICAL APPARATUS FOR MEASURING DISTANCE AND DETERMINING DIRECTION BY ELECTROMAGNETIC WAVES. SUBMARINE SIGNAL COMPANY, Boston, Mass. Filed October 29, 1943. Serial No. 464,523. PUBLISHED APRIL 18, 1944. Class 26.

407,776. FOAM BATH, LIPSTICKS, TOILET WATER, PERFUME, FACE POWDER, LEG LOTION, LIQUID LOTION. ALLIED TOILETRIES, INC., Philadelphia, Pa. Filed November 8, 1943. Serial No. 464,804. PUBLISHED APRIL 11, 1944. Class 6.

407,777. TESTING APPARATUS FOR TESTING HERMETIC SEALS, AND X-RAY APPARATUS FOR INDUSTRIAL INSPECTION AND TESTING AND LABORATORY EXPERIMENTATION. NORTH AMERICAN PHILIPS COMPANY, INC., Dobbs Ferry, N. Y. Filed November 12, 1943. Serial No. 464,950. PUBLISHED APRIL 18, 1944. Class 26.

407,778. APPARATUS FOR TESTING INSULATING COATINGS. DICK E. STEARNS, Shreveport, La. Filed November 13, 1943. Serial No. 464,982. PUBLISHED APRIL 18, 1944. Class 26.

407,779. PREPARATIONS FOR DISSOLVING AND REMOVING RUST AND FOR RUST PREVENTION. ROSE SCHALLER, doing business as Machinery Supplies Comp., New York, N. Y. Filed November 25, 1943. Serial No. 465,298. PUBLISHED APRIL 11, 1944. Class 6.

407,780. WATER SOFTENER. FRANKLIN E. EVERSON, doing business as F. E. Everson, New York, N. Y. Filed November 25, 1943. Serial No. 465,288. PUBLISHED APRIL 11, 1944. Class 6.

407,781. EYE SHIELDS AND SINUS COMPRESSORS. MARY M. QUERING, Chicago, Ill. Filed November 29, 1943. Serial No. 465,369. PUBLISHED APRIL 18, 1944. Class 44.

407,782. FEED FOR ANIMALS—NAMELY, FEED FOR DOGS, FEED FOR CATTLE, FEED FOR SWINE, FEED FOR TURKEYS, FEED FOR POULTRY, FEED FOR RABBITS, FEED FOR FOXES, FEED FOR GOATS, AND FEED FOR SHEEP. GENERAL MILLS, INC., Minneapolis, Minn. Filed December 7, 1943. Serial No. 465,599. PUBLISHED APRIL 18, 1944. Class 46.

407,783. INSTRUMENTS FOR EXAMINING METALS BY ELECTRICAL IMPULSES. ALLEN B. DU MONT LABORATORIES, INC., Passaic, N. J. Filed December 13, 1943. Serial No. 465,740. PUBLISHED APRIL 18, 1944. Class 26.

407,784. INSECTICIDES, AND SPECIFICALLY ANT POISON. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed December 13, 1943. Serial No. 465,743. PUBLISHED APRIL 11, 1944. Class 6.

407,785. TOY MACHINE GUNS. LEON A. SPIELMAN, Philadelphia, Pa. Filed December 14, 1943. Serial No. 465,765. PUBLISHED APRIL 18, 1944. Class 22.

407,786. ELECTRIC MOTORS. STAR ELECTRIC MOTOR COMPANY, Bloomfield, N. J. Filed December 22, 1943. Serial No. 465,993. PUBLISHED APRIL 18, 1944. Class 21.

407,787. TOY KAZOOS. ISADORE DASHEVSKY, doing business as Beverly Novelty Co., Philadelphia, Pa. Filed December 23, 1943. Serial No. 466,007. PUBLISHED APRIL 18, 1944. Class 22.

407,788. CORD PULLEYS, AWNING BLOCKS, ANCHOR TRIP HOOKS, OVERHAULING WEIGHTS, FLAGPOLE SOCKETS, SHAFT TAIL NUTS, ETC. DURKEE MARINE PRODUCTS CORPORATION, Grasmere, Staten Island, N. Y. Filed December 27, 1943. Serial No. 466,074. PUBLISHED APRIL 18, 1944. Class 13.

407,789. BEAUTY AND TOILET PREPARATIONS FOR THE CARE, EMBELLISHMENT AND PRESERVATION AND TO ENHANCE THE ATTRACTIVENESS AND IMPROVE THE APPEARANCE AND CONTRIBUTE TO THE CLEANLINESS, COMFORT AND HYGIENE OF THE PERSON, ETC. GABY, INC., Philadelphia, Pa. Filed December 30, 1943. Serial No. 466,198. PUBLISHED APRIL 11, 1944. Class 6.

407,790. SOYA BEAN SAUCE FOR SEASONING FOOD. GEORGE YONEO TADANO, doing business as Showa Shoyu Brewing Co., Glendale, Ariz. Filed January 4, 1944. Serial No. 466,315. PUBLISHED APRIL 18, 1944. Class 46.

407,791. LIPSTICK AND ROUGES. FAREL DESTIN, INC., New York, N. Y. Filed January 7, 1944. Serial No. 466,375. PUBLISHED APRIL 11, 1944. Class 6.

407,792. TREATED WOOD POLES FOR THE SUPPORT OF POWER LINES AND COMMUNICATION LINES. PAGE & HILL CO., Minneapolis, Minn. Filed January 8, 1944. Serial No. 466,414. PUBLISHED APRIL 18, 1944. Class 12.

407,793. LIQUID ASPHALT AND ASBESTOS ROOF COATING. CENTRAL CHEMICAL CORPORATION OF MARYLAND, Hagerstown, Md. Filed January 10, 1944. Serial No. 466,428. PUBLISHED APRIL 18, 1944. Class 12.

407,794. HORSE AND MULE FEED. ALLIED MILLS, INC., Chicago, Ill. Filed January 11, 1944. Serial No. 466,473. PUBLISHED APRIL 18, 1944. Class 46.

407,795. REINFORCING STEEL BARS FOR USE IN CONCRETE CONSTRUCTION. INLAND STEEL COMPANY, Chicago, Ill. Filed January 13, 1944. Serial No. 466,532. PUBLISHED APRIL 18, 1944. Class 12.

407,796. COFFEE EXTRACT. BAKER IMPORTING COMPANY, Minneapolis, Minn. Filed January 17, 1944, Serial No. 466,635. PUBLISHED APRIL 18, 1944. Class 46.

407,797. LIPSTICK, ROUGE, ANTI-PERSPIRANT, DEODORANT, EYELASH AND EYEBROW MASCARA, CREAMS FOR THE HANDS AND FACE, FACE POWDER, ETC. ASSOCIATED DISTRIBUTORS, Chicago, Ill. Filed January 20, 1944. Serial No. 466,716. PUBLISHED APRIL 11, 1944. Class 6.

407,798. LIPSTICK, ROUGE, ANTI-PERSPIRANT, DEODORANT, EYELASH AND EYEBROW MASCARA, CREAMS FOR THE HANDS AND FACE, FACE POWDER, ETC. ASSOCIATED DISTRIBUTORS, Chicago, Ill. Filed January 20, 1944. Serial No. 466,717. PUBLISHED APRIL 11, 1944. Class 6.

407,799. SPRING WASHERS. PHILADELPHIA STEEL AND WIRE CORPORATION, Philadelphia, Pa. Filed January 20, 1944. Serial No. 466,741. PUBLISHED APRIL 18, 1944. Class 13.

407,800. SPRING WASHERS. PHILADELPHIA STEEL AND WIRE CORPORATION, Philadelphia, Pa. Filed January 20, 1944. Serial No. 466,742. PUBLISHED APRIL 18, 1944. Class 13.

407,801. WOOLEN AND WORSTED FABRICS IN THE PIECE. ISIDORE SMITH, New York, N. Y. Filed January 20, 1944. Serial No. 466,748. PUBLISHED APRIL 18, 1944. Class 42.

407,802. WOMEN'S AND MISSES' TEXTILE APRONS. L. NACHMAN & SONS, Philadelphia, Pa. Filed January 21, 1944. Serial No. 466,766. PUBLISHED APRIL 18, 1944. Class 39.

407,803. FOOTBALLS, BASKET BALLS, STRIKING BAGS, BOXING GLOVES AND BASEBALL GLOVES. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed January 22, 1944. Serial No. 466,792. PUBLISHED APRIL 18, 1944. Class 22.

407,804. LEATHER GOODS—NAMELY, BILLFOLDS, POCKETBOOKS, KEYCASES, PORTFOLIOS, BRIEF CASES, AND PICTURE FOLDERS. BERNARD BAHR, doing business as Rodeo Leather Goods Co., Los Angeles, Calif. Filed January 24, 1944. Serial No. 466,823. PUBLISHED APRIL 18, 1944. Class 3.

407,805. OLIVES PACKED IN TIN OR GLASS. ACME OLIVE COMPANY, INC., Los Angeles, Calif. Filed January 26, 1944. Serial No. 466,872. PUBLISHED APRIL 18, 1944. Class 46.

407,806. TOY MINIATURE U. S. ARMY "JEEP" CONSTRUCTION KITS. EDGAR W. CLUTE, doing business as West-Craft Manufacturing Company, Chicago, Ill. Filed January 26, 1944. Serial No. 466,875. PUBLISHED APRIL 18, 1944. Class 22.

407,807. CANNED FRUITS AND VEGETABLES. FACKLER, LANGFORD & TAYLOR, Meansville, Ga. Filed January 26, 1944. Serial No. 466,877. PUBLISHED APRIL 18, 1944. Class 46.

407,808. ACRYLIC MATERIALS FOR FORMING DENTURE LINERS. H. D. JUSTI & SON, INC., Philadelphia, Pa. Filed January 27, 1944. Serial No. 466,915. PUBLISHED APRIL 18, 1944. Class 44.

407,809. SILK AND RAYON FABRICS IN THE PIECE. ROTH FABRICS CORPORATION, New York, N. Y. Filed January 27, 1944. Serial No. 466,934. PUBLISHED APRIL 11, 1944. Class 42.

407,810. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y. Filed January 28, 1944. Serial No. 466,940. PUBLISHED APRIL 11, 1944. Class 6.

407,811. CHEMOTHERAPEUTIC AGENT FOR USE IN THE TREATMENT OF BACTERIAL INFECTIONS. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed January 31, 1944. Serial No. 467,046. PUBLISHED APRIL 11, 1944. Class 6.

407,812. COTTON PIECE GOODS, RAYON PIECE GOODS, AND PIECE GOODS MADE OF COTTON, RAYON AND WOOL. CLARENCE S. BROWN & CO., INC., New York, N. Y. Filed February 2, 1944. Serial No. 467,086. PUBLISHED APRIL 18, 1944. Class 42.

407,813. COTTON PLAIDS AND CHECKS IN THE PIECE OR IN CUT LENGTHS; COTTON SHEETINGS, SHEETS, PILLOW CASES AND BOLSTER CASES; PIECE GOODS OF COTTON, AND MIXTURES OF RAYON AND COTTON USED AS SUITING OR TROUSERING MATERIALS. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed February 4, 1944. Serial No. 467,171. PUBLISHED APRIL 18, 1944. Class 42.

407,814. SHEETING, SHEETS, AND PILLOW CASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed February 4, 1944. Serial No. 467,172. PUBLISHED APRIL 18, 1944. Class 42.

407,815. WOOL YARNS FOR ART NEEDLEWORK. BERNHARD ULMANN CO. INC., New York, N. Y. Filed February 5, 1944. Serial No. 467,181. PUBLISHED APRIL 18, 1944. Class 43.

407,816. CABINETS FOR RADIOS, CABINETS FOR COMBINATION RADIOS AND PHONOGRAPHS, CABINETS FOR RECORD PLAYERS AND CABINETS FOR PHONOGRAPH RECORDS. ADMIRAL CORPORATION, Chicago, Ill. Filed February 7, 1944. Serial No. 467,218. PUBLISHED APRIL 18, 1944. Class 32.

407,817. FREEZER STORAGE CABINETS, AND PARTS THEREOF. AIR COMFORT CORPORATION, Chicago, Ill. Filed February 7, 1944. Serial No. 467,220. PUBLISHED APRIL 18, 1944. Class 31.

407,818. DENTAL MATERIALS OF METHACRYLATE COMPOSITION USED IN MAKING PROSTHETIC RESTORATIONS, ARTIFICIAL TEETH, INLAYS, JACKET CROWNS, FACINGS, AND VENEERS, AND TUBE TEETH. CORALITE DENTAL PRODUCTS COMPANY, Chicago, Ill. Filed February 9, 1944. Serial No. 467,289. PUBLISHED APRIL 18, 1944. Class 44.

407,819. STUFFED DOLLS AND TOY ANIMALS. IDEAL NOVELTY & TOY CO., Long Island City, N. Y. Filed February 11, 1944. Serial No. 467,342. PUBLISHED APRIL 18, 1944. Class 22.

407,820. TYPEWRITER RIBBON. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio. Filed February 14, 1944. Serial No. 467,390. PUBLISHED APRIL 18, 1944. Class 11.

407,821. FRESH VEGETABLES. SELF & JANCIK, Pharr, Tex. Filed February 14, 1944. Serial No. 467,407. PUBLISHED APRIL 18, 1944. Class 46.

407,822. YARNS. MARGO A. BUCKLEY, New York, N. Y. Filed February 15, 1944. Serial No. 467,426. PUBLISHED APRIL 18, 1944. Class 43.

407,823. HANDBAGS AND HAVERSACKS. PHELPS ASSOCIATES, New York, N. Y. Filed February 16, 1944. Serial No. 467,465. PUBLISHED APRIL 18, 1944. Class 3.

407,824. LADIES' RAINCOATS. SPATZ BROS., INC., New York, N. Y. Filed February 18, 1944. Serial No. 467,544. PUBLISHED APRIL 18, 1944. Class 39.

407,825. FRESH VEGETABLES—NAMELY, LETTUCE. J. L. THOMPSON, doing business as J. L. Thompson Company, Somerton and Yuma, Ariz. Filed February 21, 1944. Serial No. 467,626. PUBLISHED APRIL 18, 1944. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

407,826. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOVADEL-AGENE CORPORATION, Belleville, N. J. Filed Mar. 3, 1941. Serial No. 441,173.

"N-RICHMENT-A"

FOR FLOUR-ENRICHING COMPOSITIONS SUCH AS CONCENTRATED COMPOSITIONS OF HEALTH-PROMOTING CHEMICAL CONTENT INCLUDING VITAMIN CONTENT, TO BE EMBODIED IN SMALL QUANTITIES IN FARINACEOUS MATERIAL.
Claims use since Feb. 13, 1941.

407,827. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. F. HEBARD & Co., Chicago, Ill. Filed Mar. 2, 1942. Serial No. 451,342.

SHOP MULE

FOR INDUSTRIAL TRACTORS.
Claims use since 1917.

407,828. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRIANGLE GRAIN COMPANY, LTD., Bellflower, Calif. Filed Apr. 14, 1942. Serial No. 452,338.

HI-FAT Dairy Feed

FOR DAIRY FEED.
Claims use since 1936.

407,829. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSENSTEIN BROS., Paterson, N. J. Filed Jan. 18, 1943. Serial No. 457,994.

Bra Shee

FOR PIECE GOODS OF RAYON AND COTTON AND MIXTURES THEREOF.
Claims use since Sept. 1, 1942.

407,830. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PAUL DEAN ARNOLD, Port Chester, N. Y. Filed Jan. 26, 1943. Serial No. 458,169.

ARNOLD SLICINGUIDE

FOR COMBINED BREAD SUPPORTING AND SLICING BOARD.
Claims use since Jan. 21, 1943.

407,831. (CLASS 39. CLOTHING.) JOE KORET, doing business as Koret of California, San Francisco, Calif. Filed Mar. 8, 1943. Serial No. 458,966.

SWURLSKIRT

FOR GIRLS' AND WOMEN'S SKIRTS.
Claims use since Oct. 10, 1942.

407,832. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WAWAK COMPANY INC., Chicago, Ill. Filed Apr. 3, 1943. Serial No. 459,612.

O-So-Cool

FOR PIECE GOODS—NAMELY, WOOLEN, WORSTED, AND MOHAIR SUMMER SUITING.
Claims use since 1928.

407,833. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WAWAK COMPANY INC., Chicago, Ill. Filed Apr. 3, 1943. Serial No. 459,615.

Verilite

FOR PIECE GOODS—NAMELY, WOOLEN, WORSTED SUMMER SUITING.
Claims use since July 1, 1930.

407,834. (CLASS 39. CLOTHING.) SMART MAID COAT CO. INC., New York, N. Y. Filed Apr. 26, 1943. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 460,199.

Marabou FLEECE

FOR GIRLS' AND MISSES' COATS.
Claims use since April 1937.

407,835. (CLASS 38. PRINTS AND PUBLICATIONS.) CALDWELL-CLEMENTS, INC., New York, N. Y. Filed Apr. 28, 1943. Serial No. 460,233.

RADAR

FOR A PUBLICATION PUBLISHED FROM TIME TO TIME.
Claims use since Apr. 24, 1943.

407,836. (CLASS 39. CLOTHING.) THE MABLEY AND CAREW COMPANY, Cincinnati, Ohio. Filed Apr. 30, 1943. Serial No. 460,307.

Carew Classic

FOR WOMEN'S COATS, WOMEN'S SUITS, WOMEN'S SPORTSWEAR—NAMELY, BLOUSES, OUTER SHIRTS, SWEATERS, SLACKS, SLACK SUITS, AND OUTER SKIRTS, BLOUSES, AND DRESSES.
Claims use since Aug. 1, 1942.

407,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PINAUD INCORPORATED, New York, N. Y. Filed May 3, 1943. Serial No. 460,388.

BEAUTYSKIN

FOR TOILET WATER.
Claims use since Mar. 25, 1943.

407,838. (CLASS 39. CLOTHING.) GARFIELD & ROSEN, Boston, Mass. Filed May 14, 1943. Serial No. 460,615.

PRISCILLA DEAN

FOR SHOES AND SLIPPERS, OF LEATHER, RUBBER, FABRIC, FIBRE, OR COMBINATIONS THEREOF.
Claims use since Apr. 15, 1943.

407,839. (CLASS 39. CLOTHING.) TRABULSI TEXTILE CO., New York, N. Y. Filed June 8, 1943. Serial No. 461,234.

McDonough

FOR MUFFLERS, SCARFS, AND MEN'S NECKTIES.
Claims use since Mar. 12, 1943.

407,840. (CLASS 38. PRINTS AND PUBLICATIONS.) THE MASONIC SERVICE ASSOCIATION OF THE UNITED STATES, Washington, D. C. Filed May 8, 1943. Serial No. 460,504.

ARMY AND NAVY MASONIC SERVICE CENTER

FOR A BULLETIN ISSUED MONTHLY OF PARTICULAR INTEREST TO MASONIC BODIES.
Claims use since May 1, 1943.

407,841. (CLASS 39. CLOTHING.) MELTON HAT COMPANY, Bethel, Conn. Filed June 14, 1943. Serial No. 461,380.

ART IN HATS
MELTON

FOR MEN'S HATS.
Claims use since Jan. 1, 1916.

407,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J. R. WATKINS COMPANY, Winona, Minn. Filed June 21, 1943. Serial No. 461,582.

Mary King
LEG TINT

FOR LEG MAKE-UP.
Claims use since Apr. 22, 1943.

407,843. (CLASS 39. CLOTHING.) MORTON KANDEL, doing business as Pembrooke Lingerie Company, New York, N. Y. Filed June 29, 1943. Serial No. 461,746.

Lady Pembrooke

FOR MISSES' AND LADIES' UNDERWEAR—NAMELY, SLIPS AND NIGHTGOWNS.
Claims use since May 1, 1943.

407,844. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CRESCENT TRUCK COMPANY, Lebanon, Pa. Filed July 28, 1943. Serial No. 462,361.

LO-LIF-TOER

FOR MOTOR SHOP TRUCKS.
Claims use since May 1, 1942.

407,845. (CLASS 47. WINES.) LUCIEN ARDIN, INC., New York, N. Y. Filed Aug. 14, 1943. Serial No. 462,740.

Ardin Scintillant

FOR WINES.
Claims use since 1905.

407,846. (CLASS 39. CLOTHING.) BERKSHIRE KNITTING MILLS, Wyomissing, Pa. Filed Aug. 14, 1943. Serial No. 462,744.

Faultless

FOR HOSIERY.
Claims use since May 8, 1922.

407,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES H. C. VAN PELT, doing business as Coope Products Company, Winter Park, Fla. Filed Aug. 21, 1943. Serial No. 462,937.

SherBase

FOR PACKAGED CITRUS FRUIT PRODUCT FOR FLAVORING IN MAKING ICES, SHERBETS, AND ICE CREAM.
Claims use since February 1943.

407,848. (CLASS 39. CLOTHING.) FIELDS CLOTHES, INC., Asheville, N. C. Filed Sept. 23, 1943. Serial No. 463,597.



Mountaineer Homespun

FOR LADIES' DRESSES AND LADIES' AND MEN'S SUITS, TROUSERS AND COATS.
Claims use since February 1941.

407,849. (CLASS 39. CLOTHING.) ABRAHAM JAFFIN, New York, N. Y. Filed Dec. 15, 1943. Serial No. 465,777.

Molla Kaye

FOR LADIES' UNDERWEAR, KNOWN AS LADIES' NIGHTGOWN, SLIPS, PANTIES.
Claims use since January 1942.

407,850. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KEM MANUFACTURING CO., INC., New York, N. Y. Filed Jan. 1, 1944. Serial No. 466,261.

Pre-fitted

FOR ELECTRICAL PARTS FOR AUTOMOBILES—NAMELY, CONDENSERS AND CONDENSER PARTS, DISTRIBUTORS AND DISTRIBUTOR PARTS, STARTERS AND STARTER PARTS, GENERATORS AND GENERATOR PARTS, CONDUCTOR WIRES AND TERMINALS, IGNITION SWITCHES, PARTS AND CABLES, IGNITION COILS, AUTOMOBILE HORNS AND PARTS, IGNITION LOCKS, MAGNETO PARTS, VOLTAGE CURRENT CONTROL REGULATORS, SPARK PLUG CONNECTORS, DIMMER SWITCHES, STARTER SWITCHES, AND TIMING DEVICES FOR TIMING DISTRIBUTORS.
Claims use since January 1938.

407,851. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN-HALL-MARX CO., New York, N. Y. Filed Jan. 13, 1944. Serial No. 466,526.

SWISSDOWN

FOR PIECE GOODS OF COTTON, RAYON AND/OR SILK, OR COMBINATIONS THEREOF.
Claims use since July 10, 1942.

407,852. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) REBAJES, INC., New York, N. Y. Filed Jan. 15, 1944. Serial No. 466,622.

REBAJES

FOR JEWELRY FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES.
Claims use since Jan. 5, 1932.

407,853. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NO-FLAME CHEMICAL CORPORATION, Los Angeles, Calif. Filed Jan. 29, 1944. Serial No. 467,004.



The drawing is lined for red.
FOR PREPARED CHEMICALS USED IN IMPREGNATING MATERIALS FOR USE AS A FIRE EXTINGUISHER OR AS A DUST RETARDANT.
Claims use since Mar. 1, 1943.

407,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS & LAWRENCE CO., Dobbs Ferry, N. Y. Filed Jan. 31, 1944. Serial No. 467,023.



FOR REMEDY FOR COUGHS.
Claims use since June 1, 1906.

407,855. (CLASS 39. CLOTHING.) HARRIMAN HOSIERY MILLS, Harriman, Tenn. Filed Feb. 4, 1944. Serial No. 467,154.

MOLDED TO SHAPE — WITHOUT SEAM

FOR HOSIERY.
Claims use since May 15, 1941.

407,856. (CLASS 39. CLOTHING.) CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Feb. 12, 1944. Serial No. 467,367.

HUMBERT

FOR COLLARS.
Claims use since 1910.

407,857. (CLASS 39. CLOTHING.) THE NEW MODE INFANTS WEAR CO. INC., New York, N. Y. Filed Feb. 12, 1944. Serial No. 467,374.



The picture is fanciful.
FOR BABY BUNTINGS, SLEEPING BAGS, ROBES AND VESTEES.
Claims use since November 1940.

407,858. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. W. BAKER LINEN COMPANY, New York, N. Y. Filed Feb. 21, 1944. Serial No. 467,587.

SANDOW

FOR BATH TOWELS.
Claims use since 1933.

407,859. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) R. U. DELAPENHA & CO. INC., New York, N. Y. Filed Feb. 21, 1944. Serial No. 467,598.

Henry M. F. Hatherly

FOR BRANDY.
Claims use since Apr. 25, 1943.

407,860. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) DUGGAN'S, LIMITED, Brooklyn, N. Y. Filed Feb. 22, 1944. Serial No. 467,650.

DUGGAN'S



The drawing is lined for red and gold.
FOR WHISKEY.
Claims use since May 12, 1934.

407,861. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 22, 1944. Serial No. 467,661.

SANDRINGHAM

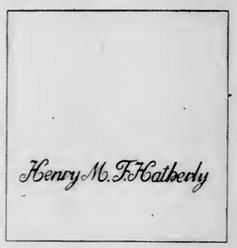
FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.
Claims use since Nov. 4, 1941.

407,862. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERFAST FABRICS, INC., New York, N. Y. Filed Feb. 25, 1944. Serial No. 467,754.

EVERFASHIONABLE

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, SPUN RAYON, AND PROTEIN FIBRES.
Claims use since June 2, 1936.

407,863. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) R. U. DELAPENHA & Co. INC., New York, N. Y. Filed Mar. 6, 1944. Serial No. 468,003.



FOR BRANDY.
Claims use since Apr. 25, 1943.

407,864. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALDON RUG MILLS, Philadelphia, Pa. Filed Mar. 10, 1944. Serial No. 468,131.

Beauty tred

FOR RUGS AND CARPETS.
Claims use since Mar. 1, 1941.

407,865. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BEN-HUR PRODUCTS, INC., New York, N. Y. Filed Mar. 20, 1944. Serial No. 468,429.

Sure-GRIP

FOR COMBS AND BARRETTES.
Claims use since November 1932.

407,866. (CLASS 37. PAPER AND STATIONERY.) WANSCO PAPER PRODUCTS CO. INC., New York, N. Y. Filed Mar. 24, 1944. Serial No. 468,650.

MACCABEE BOND

FOR TYPEWRITING PAPER, WRITING PAPER, ENVELOPES, PRINTING PAPERS, LITHOGRAPHING PAPER, PAPETERIES, AND WRITING TABLETS.
Claims use since Sept. 27, 1934.

407,867. (CLASS 47. WINES.) BEAULIEU VINEYARD, Rutherford and San Francisco, Calif. Filed Mar. 27, 1944. Serial No. 468,691.

BEAUMONT

FOR WINES.
Claims use since August 1942.

407,868. (CLASS 39. CLOTHING.) SIEGEL BROS. GARMENT CORP., New York, N. Y. Filed Apr. 3, 1944. Serial No. 468,990.

TOTTENHAM

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since Apr. 1, 1936.

407,869. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) HARRINGTON & RICHARDSON ARMS COMPANY, Worcester, Mass. Filed Apr. 10, 1944. Serial No. 469,198.

H. & R. REISING

FOR RIFLES AND SUBMACHINE GUNS.
Claims use since Jan. 2, 1941.

407,870. (CLASS 38. PRINTS AND PUBLICATIONS.) FORT WAYNE PRINTING COMPANY, INC., Fort Wayne, Ind. Filed Apr. 17, 1944. Serial No. 469,393.

PROFFESOR LEARS
WEATHER FORECAST

FOR CALENDARS.
Claims use since November 1926.

407,871. (CLASS 38. PRINTS AND PUBLICATIONS.) FORT WAYNE PRINTING COMPANY, INC., Fort Wayne, Ind. Filed Apr. 17, 1944. Serial No. 469,394.

WILDING FAMILY
ACCOUNT

FOR CALENDARS.
Claims use since April 1927.

407,872. (CLASS 39. CLOTHING.) R. L. JAMES AND SON, Marion, N. C. Filed Apr. 20, 1944. Serial No. 469,501.



FOR MEN'S HOSIERY.
Claims use since Nov. 1, 1942.

407,873. (CLASS 47. WINES.) CHATEAU MONTELENA, INC., Calistoga, Calif. Filed Apr. 26, 1944. Serial No. 469,672.



FOR WINES.
Claims use since July 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

25,141. **LIQUID GRANITE.** VARNISH FOR WOOD FLOORS. Registered August 14, 1894. BERRY BROTHERS, LIMITED. Re-renewed August 14, 1944, to Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan, assignee.

182,046. **TORK.** CLOCKS FOR OPERATING ELECTRIC SWITCHES. Registered April 1, 1924. TORK COMPANY, INC., New York, N. Y. Renewed April 1, 1944, to The Tork Clock Company, Inc., Mount Vernon, N. Y., a corporation of New York, assignee.

182,922. **OX FIBRE.** BRUSHES FOR SCRUBBING, DUSTING, SWEEPING, AND CLEANING, INCLUDING HOUSEHOLD BRUSHES, HORSE BRUSHES, HAIR BRUSHES, AND HAND AND NAIL BRUSHES. Registered April 22, 1924. Ox FIBRE BRUSH COMPANY, New York, N. Y., and Frederick, Md. Renewed April 22, 1944, to Ox Fibre Brush Company, Inc., Frederick, Md., a corporation of Delaware, assignee.

182,923. **"OX" AND DRAWING.** BRUSHES FOR SCRUBBING, DUSTING, SWEEPING, AND CLEANING, INCLUDING HOUSEHOLD BRUSHES, HORSE BRUSHES, HAIR BRUSHES, AND HAND AND NAIL BRUSHES, AND ALSO FOR BROOMS. Registered April 22, 1924. Ox FIBRE BRUSH COMPANY, New York, N. Y., and Frederick, Md. Renewed April 22, 1944, to Ox Fibre Brush Company, Inc., Frederick, Md., a corporation of Delaware, assignee.

183,410. **TORK.** ELECTRICAL OR ELECTRICALLY-OPERATED SWITCHES. Registered April 29, 1924. TORK COMPANY, INC., New York, N. Y. Renewed April 29, 1944, to The Tork Clock Company, Inc., Mount Vernon, N. Y., a corporation of New York, assignee.

183,430. **"GOODMAN'S" AND DRAWING.** ALIMENTARY PASTE PRODUCTS AND MATZOTHS. Registered April 29, 1924. A. GOODMAN & SONS, INC., New York, N. Y., a corporation of New York. Renewed April 29, 1944.

184,204. **OLD HICKORY.** MIMEOGRAPH PRINT PAPER, ANTIQUE PAPER, WHICH IS PRINT PAPER HAVING A DEAD FINISH, AND BULKING BOOK PAPER, SUCH AS PRINT PAPER USED FOR NOVELS AND LIKE BOOKS. Registered May 20, 1924. THE MEAD SALES COMPANY, Dayton, Ohio, a corporation of Ohio. Renewed May 20, 1944.

184,218. **PILDORAS CANARIO.** LAXATIVE PILLS. Registered May 20, 1924. MELLEGE S. ASBELL, doing business as Romero Drug Company, El Paso, Tex. Renewed May 20, 1944.

184,864. **REPRESENTATION OF A GREEN RECTANGLE.** FERTILIZER. Registered June 3, 1924. THE KNOXVILLE FERTILIZER COMPANY, Knoxville, Tenn., a corporation of Tennessee. Renewed June 3, 1944.

185,167. **THE ANGELUS.** GAS WATER HEATERS. Registered June 10, 1924. BASTIAN-MORLEY CO. Renewed June 10, 1944, to Bastian-Morley Co., Inc., La Porte, Ind., a corporation of Indiana, by change of name.

185,274. **"HULL" AND DESIGN.** FOOD-FLAVORING EXTRACTS. Registered June 10, 1924. ALFRED S. HULL. Renewed June 10, 1944, to Kate L. Hull, Burlington, Vt., successor.

185,331. **"GREEN STRAND" AND DRAWING.** WIRE ROPE OF ALL SIZES. Registered June 10, 1924. WATERBURY COMPANY, Jersey City, N. J., and New York, N. Y. Renewed June 10, 1944, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York, assignee by mesne assignments.

185,375. **HYLASTIC.** STEEL. Registered June 17, 1924. AMERICAN STEEL FOUNDRIES, Chicago, Ill., a corporation of New Jersey. Renewed June 17, 1944.

185,761. **"DOWNEE" AND DRAWING.** KNITTED SWEATERS, KNITTED SCARFS, KNITTED TIES, OF SILK FIBER, CAMEL'S HAIR, MOHAIR, CHIFFON, AND JERSEY CLOTH. Registered June 24, 1924. WOLFSIE KNITTING MILLS, INC., New York, N. Y. Renewed June 24, 1944, to Irving Wolfsie, New Rochelle and New York, N. Y., successor.

185,792. **ROOFINSUL.** HEAT-INSULATING FELT FOR USE IN MAKING BUILT-UP ROOFING. Registered June 24, 1924. JOHNS-MANVILLE INCORPORATED. Renewed June 24, 1944, to Johns-Manville Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

186,048. **HALOWAX.** CHLORINATED ORGANIC COMPOUNDS IN THE FORM OF OILS AND WAXLIKE SUBSTANCES, USED FOR INSULATING, FIREPROOFING, SOLVENT, AND OTHER PURPOSES. Registered July 1, 1924. HALOWAX CORPORATION. Renewed July 1, 1944, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

186,307. **"S" AND DESIGN.** JOURNAL BOXES FOR RAILWAY VEHICLES, TRUCK SIDE FRAMES, DRAFT-RIGGING PARTS—NAMELY, YOKES, CHEEK PLATES, BACK STOPS, AND DRAFT KEYS. Registered July 8, 1924. THE T. H. SYMINGTON COMPANY, New York and Rochester, N. Y. Renewed July 8, 1944, to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland, assignee by mesne assignments.

186,429. **"LEONORA" AND DRAWING.** WHEAT FLOUR. Registered July 8, 1924. HANOVER STAR MILLING COMPANY, Germantown, Ill., a corporation of Illinois. Renewed July 8, 1944.

186,436. **"QUEEN ROSE" AND DRAWING.** WHEAT FLOUR. Registered July 8, 1924. HANOVER STAR MILLING COMPANY, Germantown, Ill., a corporation of Illinois. Renewed July 8, 1944.

186,449. **"KNICKERCHIEF" AND DRAWING.** HANDKERCHIEFS. Registered July 8, 1924. NEW YORK HANDKERCHIEF MANUFACTURING Co., Chicago, Ill., a corporation of Illinois. Renewed July 8, 1944.

186,461. **COAL DUST "TWINS".** COAL. Registered July 8, 1924. THE UNITED COAL & DOCK COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed July 8, 1944.

186,728. **"FAIRFACTS" AND DESIGN.** BATHROOM FIXTURES COMPRISING SOAP HOLDERS, TUMBLER HOLDERS, SPONGE HOLDERS, GRAB RAILS, PAPER HOLDERS, TOOTHBRUSH HOLDERS, BATHROOM SEATS, CLOTHING HOOKS, STROP HOOKS, SHELVES, TOWEL RACKS, COMBINED GRAB RAILS AND SOAP HOLDERS, AND RECESSED WALL RECEPTACLES FOR BATHROOM APPLIANCES. Registered July 22, 1924. THE FAIRFACTS COMPANY, INC., New York, N. Y. Renewed July 22, 1944, to The Fairfacts Company, Inc., New York, N. Y., and Trenton, N. J., a corporation of New York.

186,802. **HENRI-ETTE.** CANDY AND CANDY BARS. Registered July 22, 1924. THE CURTISS CANDY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 22, 1944.

187,248. **TOM-TOMS.** CANDY. Registered July 29, 1924. THE METRO CHOCOLATE CO., INC., Brooklyn, N. Y., a corporation of New York. Renewed July 29, 1944.

187,410. **ETHYL MOTOR FUEL COMPONENT.** Registered August 5, 1924. GENERAL MOTORS CHEMICAL COMPANY, Moraine City, near Dayton, Ohio. Renewed August 5, 1944, to Ethyl Corporation, New York, N. Y., a corporation of Delaware, assignee.

187,429. **KING.** GALVANIZED, ENAMELED, AND JAPAN WARE—NAMELY, ASH CANS, GARBAGE CANS, GARBAGE PAILS, REFUSE PAILS, WATER PAILS, WASHTUBS, WASTE-PAPER BASKETS, OILY-WASTE CANS, CEMENT PAILS, REFRIGERATOR PANS. Registered August 5, 1924. THE CINCINNATI GALVANIZING COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed August 5, 1944.

187,893. **GAL-AMBER.** PIPES AND CIGAR AND CIGARETTE HOLDERS. Registered August 12, 1924. DASCO IMPORT CO., INC. Renewed August 12, 1944, to D. A. Schulte, Inc., New York, N. Y., a corporation of New York, assignee.

188,407. **NACO.** LEATHER. Registered August 26, 1924. A. C. LAWRENCE LEATHER COMPANY, Boston, Mass. Renewed August 26, 1944, to A. C. Lawrence Leather Company, Peabody, Mass., a corporation of Maine.

188,495. **POLAR.** CANDY. Registered August 26, 1924. THE CURTISS CANDY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 26, 1944.

188,590. **S.** ELASTIC VEHICLE TIRES COMPOSED WHOLLY OR IN PART OF RUBBER, AUTO TIRE FLAPS, RELINERS, STRAP-ON BOOTS, ADJUSTABLE BLOW-OUT PATCHES, VALVE PATCHES, CAMEL BACK, REPAIR KITS FOR TIRES AND TUBES, AND INNER TUBES FOR PNEUMATIC TIRES. Registered September 2, 1924. SEIBERLING RUBBER COMPANY, Akron, Ohio, a corporation of Delaware. Renewed September 2, 1944.

188,741. **TOUJOURS MOI.** PERFUMES. Registered September 2, 1924. JAY-THORPE, INC. Renewed September 2, 1944, to Parfums Corday, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

188,931. **"CONDUFORM" AND DRAWING.** RUBBER TUBING. Registered September 9, 1924. METROPOLITAN DEVICE CORPORATION. Renewed September 9, 1944, to Metropolitan Device Corporation, Brooklyn, N. Y., a corporation of New York, assignee.

189,317. **CIRCUS.** HOSIERY. Registered September 16, 1924. CHIPMAN KNITTING MILLS, Easton, Pa. Renewed September 16, 1944, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York, assignee.

189,337. **"LA CROSSE RUBBER MILLS COMPANY" AND DRAWING.** SHOES AND BOOTS MADE ENTIRELY OR PARTLY OF RUBBER. Registered September 16, 1924. LA CROSSE RUBBER MILLS CO., La Crosse, Wis., a corporation of Wisconsin. Renewed September 16, 1944.

189,840. **BELFLOR.** INLAID LINOLEUM. Registered September 30, 1924. THE NAIRN LINOLEUM COMPANY. Renewed September 30, 1944, to Congoleum-Nairn Inc., Kearny, N. J., a corporation of New York, assignee.

189,907. **REPRESENTATION OF A PRIZE CUP, ETC.** COTTON PIECE GOODS. Registered September 30, 1924. AMERICAN BLEACHED GOODS COMPANY, INC. Renewed September 30, 1944, to American Bleached Goods Company, Inc., New York, N. Y., a corporation of Delaware, assignee.

190,016. **METAL BAND HOSE.** HOSIERY. Registered September 30, 1924. CHIPMAN KNITTING MILLS, Easton, Pa. Renewed September 30, 1944, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York, assignee.

190,125. **EBCO.** URINALS, CLOSETS, VENTILATED CLOSETS, DRINKING FOUNTAINS, LAVATORIES, WASH SINKS, SHOWERS, SHOWER COMPARTMENTS, STEEL CLOSETS, KITCHEN SINKS, WATER COOLERS, CLOSET SEATS, CLOSET BOWLS, LAUNDRY TRAYS, AND CLOSET FLUSH VALVES. Registered October 7, 1924. THE D. A. EBINGER SANITARY MFG. CO. Renewed October 7, 1944, to Ebco Manufacturing Company, Columbus, Ohio, a firm, assignee by mesne assignments.

190,256. **BAND-O-SILVER HOSE.** HOSIERY. Registered October 7, 1924. CHIPMAN KNITTING MILLS, Easton, Pa. Renewed October 7, 1944, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York, assignee.

190,361. **THE AMERICAN FIELD.** WEEKLY MAGAZINE. Registered October 14, 1924. THE AMERICAN FIELD PUBLISHING CO., Chicago, Ill., a corporation of Illinois. Renewed October 14, 1944.

190,422. **"DE WITT'S" AND DRAWING.** LAXATIVE COLD TABLETS, HEADACHE TABLETS, CATARRHAL CREAM, ANTISEPTIC FOOT TABLETS, WHITE PINE AND TAR COUGH SIRUP, LAXATIVE FRUITY SIRUP, VAPORIZING BALM. Registered October 14, 1924. E. C. DEWITT & CO. INC., Chicago, Ill., a corporation of New York. Renewed October 14, 1944.

190,445. **HIPOLIME.** POLISHING AND BUFFING COMPOUND FOR USE ON METALS, RUBBER AND CELLULOID. Registered October 14, 1924. E. REED BURNS MFG. CORP., Brooklyn, N. Y., Chicago, Ill., and Cleveland, Ohio. Renewed October 14, 1944, to E. Reed Burns Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York.

190,517. **FILLEX.** ABSORBENT PADS OR SHEETS FOR INFANTS' DIAPERS. Registered October 14, 1924. CELLUCOTTON PRODUCTS COMPANY, Neenah, Wis. Renewed October 14, 1944, to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

190,584. **VITREO.** TABLE TOPS, CHEMICAL PANS (FOR EVAPORATING, DRYING, ETC.), WASHTUB COVERS, BRICK PALLETS, ENAMELED SIGNS, STEAM-TABLE PANS AND COVERS, ENAMELED SERVING TRAYS, ENAMELED RESTAURANT FITTINGS, ENAMELED SCALE PANS, AND ENAMELED COOKING UTENSILS. Registered October 14, 1924. VITREOUS ENAMELING COMPANY. Renewed October 14, 1944, to Vitreous Steel Products Co., Cleveland, Ohio, a corporation of Delaware, assignee.

190,587. **MURDOCK.** HYDRANTS, STREET WASHERS, DRINKING FOUNTAINS, STATIONARY FILLERS FOR AUTOMOBILE RADIATORS, RAILWAY WATER-SERVICE BOX, HORSE-WATERING FONTS, AND BUBBLER HEADS. Registered October 14, 1924. THE MURDOCK MFG. & SUPPLY COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed October 14, 1944.

190,667. **ALUMINAIRE.** LIGHTING FIXTURES—VIZ, CEILING FIXTURES, PENDENT FIXTURES, CANDLE FIXTURES, WALL BRACKETS; AND TABLE LAMPS AND TORCHÈRES. Registered October 21, 1924. SEATTLE LIGHTING FIXTURE CO., Seattle, Wash., a corporation of Washington. Renewed October 21, 1944.

190,675. **"PONSELL INTERNATIONAL" AND DRAWING.** ELECTRICALLY-OPERATED FLOOR SCRUBBING, POLISHING, SCRAPING, AND GRINDING MACHINES. Registered October 21, 1924. PONSELL FLOOR MACHINE COMPANY, New York, N. Y., a corporation of New York. Renewed October 21, 1944.

190,687. **REPRESENTATION OF A WOMAN ON A BROOM, ETC.** INCANDESCENT ELECTRIC BULBS. Registered October 21, 1924. TULITE AUTO BULB COMPANY, New York, N. Y. Renewed October 21, 1944, to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware, assignee.

190,695. **"ANHEUSER-BUSCH" AND DESIGN.** CORN SUGAR. Registered October 21, 1924. ANHEUSER-BUSCH, INC. Renewed October 21, 1944, to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri, assignee.

190,738. **TRIPLE X X X.** ALFALFA MEAL. Registered October 21, 1924. THE DENVER ALFALFA MILLING & PRODUCTS CO., Lamar, Colo., a corporation of Colorado. Renewed October 21, 1944.

190,746. **"KEPOLAC" AND DRAWING.** PROTECTIVE LIQUID CHEMICAL IN THE NATURE OF A PAINT FOR METAL, STONE, CEMENT, AND WOOD. Registered October 21, 1924. THE KEPEC COMPANY. Renewed October 21, 1944, to Kepec Chemical Corporation, Milwaukee, Wis., a corporation of Wisconsin, by change of name.

190,832. **PHOENIX.** METAL LATH. Registered October 28, 1924. THE GOLDSMITH METAL LATH COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed October 28, 1944.

190,839. **BLUE FRONT.** CERTAIN NAMED CANNED FRUITS AND FRUIT PRESERVES, CANNED VEGETABLES, CANNED SEA FOOD, CANNED MEATS, CANNED SOUPS, RELISHES, SPICES, FLOUR AND CEREALS; CANNED MINCEMEAT AND PLUM PUDDING, MEXICAN CHILIS, SALAD DRESSING, VINEGAR, CONDENSED MILK, COFFEE, TEA, AND OTHER CERTAIN NAMED FOOD PRODUCTS. Registered October 28, 1924. ROYAL BLUE STORES, INC., Chicago, Ill., a corporation of Illinois. Renewed October 28, 1944.

190,853. **TUFSTA.** SHEET FABRIC USED FOR MAKING STAYS AND OTHER INSIDE PARTS OF BOOTS AND SHOES, AND FOR OTHER PURPOSES. Registered October 28, 1924. RESPRO INC., Providence, R. I. Renewed October 28, 1944, to Respro Inc., Cranston, R. I., a corporation of Rhode Island.

190,858. **"RESPRO" AND DRAWING.** MANUFACTURED OR SUBSTITUTE LEATHER. Registered October 28, 1924. RESPRO INC., Providence, R. I. Renewed October 28, 1944, to Respro Inc., Cranston, R. I., a corporation of Rhode Island.

190,867. **REPRESENTATION OF A RED AND BLUE OVAL DESIGN.** TABLE TOPS, CHEMICAL PANS (FOR EVAPORATING, DRYING, ETC.), WASHTUB COVERS, BRICK PALLETS, ENAMELED SIGNS, STEAM-TABLE PANS AND COVERS, ENAMELED SERVING TRAYS, ENAMELED RESTAURANT FITTINGS, ENAMELED SCALE PANS, AND ENAMELED COOKING UTENSILS. Registered October 28, 1924. VITREOUS ENAMELING COMPANY. Renewed October 28, 1944, to Vitreous Steel Products Co., Cleveland, Ohio, a corporation of Delaware, assignee.

190,868. **ADAMANT.** REFRACTORY BRICKS AND HIGH-TEMPERATURE CEMENT. Registered October 28, 1924. LEONARD B. BOTFIELD, doing business as Botfield Refractories Company. Renewed October 28, 1944, to Botfield Refractories Company, Philadelphia, Pa., a corporation of Delaware, assignee.

190,889. **HUMIDIATOR.** RADIATOR COVERS, FOR HEATING RADIATORS. Registered October 28, 1924. ART METAL PRODUCTS COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 28, 1944.

190,897. **JOMAR.** COFFEE. Registered October 28, 1924. JOSEPH MARTINSON. Renewed October 28, 1944, to Jos. Martinson & Co., New York, N. Y., a partnership, successor.

190,902. **SENORITA.** FRESH CITROUS FRUITS—NAMELY, FRESH ORANGES AND FRESH LEMONS. Registered October 28, 1924. TAPO CITRUS ASSOCIATION, Santa Susana, Calif. Renewed October 28, 1944, to Tapo Citrus Association, Simi, Calif., a corporation of California.

190,945. **FLOWER BEAUTY.** CANDY. Registered October 28, 1924. LOFT, INCORPORATED, New York, N. Y. Renewed October 28, 1944, to Loft Candy Corporation, Long Island City, N. Y., a corporation of New York, assignee.

190,959. **FESTIVAL.** FRESH CITROUS FRUITS. Registered October 28, 1924. JOHNSTON FRUIT COMPANY, Santa Barbara, Calif., a corporation of California. Renewed October 28, 1944.

190,977. **"WESTON DODSON & CO. INC." AND DRAWING.** COAL. Registered October 28, 1924. WESTON DODSON & CO., INC., Bethlehem, Pa., a corporation of Pennsylvania. Renewed October 28, 1944.

191,011. **PLATINUM-AMERICA.** FABRIC AND LEATHER GLOVES. Registered October 28, 1924. WIMELBACHER & RICE. Renewed October 28, 1944, to Newton J. Rice, doing business as Wimelbacher & Rice, New York, N. Y., assignee.

191,028. **BORDO.** CORSETS AND GIRDLES. Registered October 28, 1924. FRANCO CORSET CO., INC. Renewed October 28, 1944, to Franco Corset Company, New York, N. Y., a firm, assignee.

191,033. **TUG-O-WAR.** SUITS AND COATS. Registered October 28, 1924. SWEET-ORR & CO., INC., Wappingers Falls and New York, N. Y., a corporation of New York. Renewed October 28, 1944.

191,041. **WULSHU.** SHOES AND SLIPPERS OF LEATHER WITH A FLEECED LINING. Registered October 28, 1924. JOHNSTOWN WOOL SHOE CO., Johnstown, N. Y., a firm. Renewed October 28, 1944.

REISSUES

JUNE 27, 1944

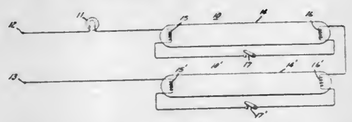
22,503

CIRCUIT FOR ELECTRIC DISCHARGE DEVICES

John H. Campbell, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Original No. 2,266,619, dated December 16, 1941, Serial No. 298,082, October 5, 1939. Application for reissue August 27, 1942, Serial No. 456,381

9 Claims. (Cl. 315—100)



1. In combination, a plurality of gaseous electric discharge devices having therein spaced electrodes, one electrode at least in each device being thermionic and adapted to be heated by the passage of current therethrough prior to the starting of the device, ballasting means having a positive nonlinear resistance temperature characteristic and having low heat inertia, means connecting said devices and ballasting means in a series circuit, and a time delay starting switch for each of said devices each switch being connected across one of said devices and in series with the thermionic electrode thereof, and means for causing said switches to open successively.

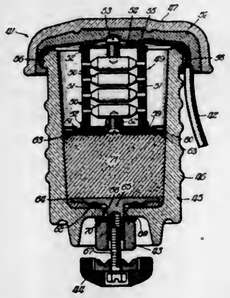
22,504

LIGHTNING ARRESTER

Ralph H. Earle, Wauwatosa, and Alwin G. Steinmayer, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis., a corporation of Delaware

Original No. 2,165,964, dated July 11, 1939, Serial No. 72,734, April 4, 1936, which is a continuation of Serial No. 716,244, March 19, 1934. Application for reissue January 17, 1944, Serial No. 518,656

3 Claims. (Cl. 175—30)



1. In a lightning arrester for an alternating current power transmission line operating at a power frequency of 60 cycles or less, in combination, a spark gap assembly, a pair of spaced apart electrodes, a mass of electric valve material interposed therebetween, said spark gap assembly being connected in series circuit relation with said electrodes and valve material and the combination being disposed to be connected between said line and ground, and a glass housing having relatively thick walls surrounding said spark gap assembly and said valve material which permits light rays emanating from the interior thereof to be visible from substantially any point around the lightning arrester and which permits a visual inspection to determine the existence of any variations from the normal condition thereof.

2. The lightning arrester of claim 1 further characterized by the glass housing being made of a heat resistant type of glass material having a very low coefficient of expansion and a high melting point.

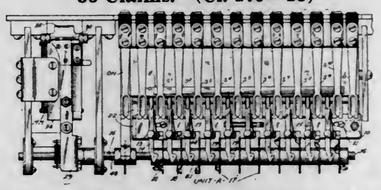
22,505

AUTOMATIC TELEPHONE SYSTEM

George R. Eaton, Antioch, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois

Original No. 2,321,588, dated June 15, 1943, Serial No. 400,031, June 27, 1941. Application for reissue October 14, 1943, Serial No. 506,298

33 Claims. (Cl. 179—18)



1. In a telephone system, a group of lines, a plrality of circuit controllers, sets of contacts in each circuit controller, each line terminating in contacts of a set of contacts in each of said circuit controllers, mechanism and circuits for controlling said circuit controllers whereby any idle one of said circuit controllers may be actuated automatically upon initiation of a call on one of said lines to seize the calling line, and means for transmitting directive impulses to said controlling mechanism, said circuits and mechanism being operative under control of said impulses to cause any idle one of said circuit controllers to establish connection to the line corresponding to the number of impulses transmitted.

22,506

ELECTRICAL DISCHARGE DEVICE

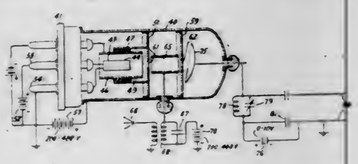
William C. Hahn, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Original No. 2,220.839, dated November 5, 1940, Serial No. 153,602, July 14, 1937. Application for reissue August 27, 1942, Serial No. 456,380

21 Claims. (Cl. 250—27)

1. In combination, a discharge device including a thermionic cathode for developing an electron beam of substantially constant average intensity, a pair of spaced diaphragms arranged transverse

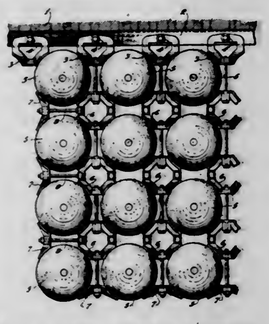
to the beam path, such diaphragms being provided with openings to permit passage of the beam therethrough and being normally maintained at a fixed potential with respect to the cathode, an electrode arranged within the space bounded by the diaphragms for controlling the potential level of an intermediate region of such space, means including a source of control potential effective during the use of the device to raise and lower the potential of the control electrode at such a rate that individual electrons traversing the space are similarly affected in velocity as they approach and recede from the said intermediate region, and means including a utilization circuit for effectively abstracting energy at alternating potentials from the beam after its issuance from the modulating space.



22,507
CYLINDER RACK

Henry Ernest Heigis, Nutley, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey

Original No. 2,288,622, dated July 7, 1942, Serial No. 345,710, July 16, 1940. Application for reissue June 17, 1943, Serial No. 491,194
11 Claims. (Cl. 211—75)

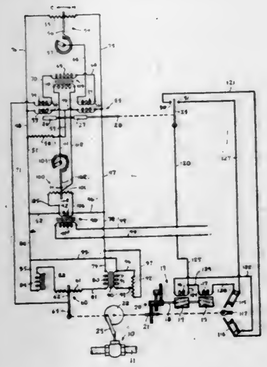


5. A rack assembly for the support of a group of upright cylindrical objects arranged in rows of width and depth, comprising a base member; retaining means detachably secured to said base member for accommodating the objects adjacent said base member; spacer means between adjacent width rows providing retainers for the objects in the adjacent width rows; connecting links removably tying said retaining means to said spacer means; end retaining means at the outside width row for accommodating the objects in the outside width row; and connecting links removably tying said last mentioned retaining means to said spacer means.

22,508
MOTOR CONTROL SYSTEM

Robert J. Kutzler and Le Roy A. Griffith, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Original No. 2,273,275, dated February 17, 1942, Serial No. 305,406, November 20, 1939. Application for reissue June 25, 1942, Serial No. 448,418
28 Claims. (Cl. 172—239)



22. In a motor control system, a motor, power supply means including a first transformer secondary winding, controlling means for said motor including a control circuit comprising a variable controlling impedance and said winding, a substantially constant impedance having at least a portion thereof connected in said circuit, said controlling means being effective to cause said motor to operate in a manner dependent upon the voltage across a portion of said control circuit including both said variable controlling impedance and at least said portion of said constant impedance, a second transformer secondary winding, and means normally effectively shunting said constant impedance but responsive to a condition indicative of a need for a change in the ultimate controlling effect of said variable impedance to apply a potential derived from said second winding across said constant impedance.

PLANT PATENTS

GRANTED JUNE 27, 1944

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

630
APRICOT TREE

William I. Bowers, Yakima County, Wash.

Application September 28, 1943, Serial No. 504,158
1 Claim. (Cl. 47—62)

The new and useful variety of apricot tree, substantially as herein shown and described, characterized by its vigorous growth and its prolific production of good-sized "blocky" or oval fruit with an early ripening season, smooth and highly colored skin, and flesh of sweet distinctive flavor, fine texture and deep yellow color.

631
ROSE PLANT

Walter E. Lammerts, West Los Angeles, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application December 15, 1943, Serial No. 514,408
1 Claim. (Cl. 47—61)

A new and distinct variety of Rose plant characterized as to novelty by its habit of bushy growth, disease resistance, the beauty of its long pointed buds and high centered newly opened flowers, and the color and intense sweet fragrance of these flowers, substantially as shown and described.

632
ROSE PLANT

Walter E. Lammerts, West Los Angeles, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application January 4, 1944, Serial No. 516,957
1 Claim. (Cl. 47—61)

A new and distinct variety of Rose plant characterized as to novelty by its habits of growth, fragrance and two-tone color of the flower and its fading characteristic, very double petalage, shape and size of the buds, shape and texture of the plant foliage, and disease resistance, substantially as shown and described.

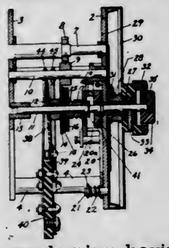
PATENTS

GRANTED JUNE 27, 1944

2,352,156
TIMING MECHANISM

Carl Ludwig Anderson, Moline, Ill., assignor to Eagle Signal Corporation, Moline, Ill., a corporation of Massachusetts

Application July 31, 1941, Serial No. 404,847
8 Claims. (Cl. 161—1)

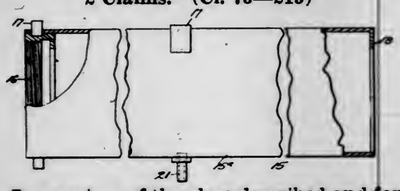


1. In a timing mechanism having a supporting framework, a time-interval indicating dial supported thereby, a terminal supporting panel supported by said framework, a set of load circuit terminals mounted thereon, a set of power circuit terminals also mounted on said panel, means for indicating, in cooperation with said dial, duration of a time interval in or out of circuit, sets of circuit controlling contacts mounted on said panel and connected with said terminals, and a synchronous motor for governing the operation of said circuit contacts; the combination of a rotary reciprocable shaft supported by said framework, a clutch on said shaft, one part of said clutch being rigidly connected to said shaft and the shaft and one clutch part being manually movable together, rotatively and longitudinally, an actuator for said contacts carried by said framework, said actuator being functionally associated with said shaft to be actuated thereby when the shaft is moved longitudinally, whereby to close one set of contacts and open the other, driving connections between said motor and said clutch to cause driving of the shaft when the motor operates, and clutch-holding means connected with said shaft for holding the clutch closed a predetermined period of time and then allowing it to open after said period of time, said holding means being movable independently of said shaft.

2,352,157
FLUID METER

Richard Bennett, Phoenix, Ariz.

Application December 9, 1941, Serial No. 422,260
2 Claims. (Cl. 73—215)

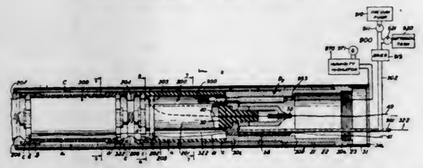


1. In a system of the class described and for attachment to a fluid outlet device; a free flow and pressure flow metering instrument including a closed receiving barrel for fluid from the device, a flexible tube leading from the bottom of the barrel and having on the tube's distal end a level disclosing means, a free weir type choke in the barrel and being open down to a datum point at the bottom of the barrel bore for free discharge, and a scale having a fixed relation to the datum point of the barrel and as to which scale the said disclosing means determines the fluid height, in suitable units, from the datum point; the closed barrel operative to effect pressure flow discharge in the meter.

2,352,158
DEEP-SEA APPARATUS HOUSING

Walter M. Bishop, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 21, 1942, Serial No. 439,881
23 Claims. (Cl. 174—14)



4. A flexible elongated apparatus housing comprising a long tubular metal casing capable of being flexed transversely of its axis, and a plurality of rigid cylindrical mounting elements within said casing adapted to enclose and mount apparatus and having flexible end pieces for coupling them into a continuous series with sufficient freedom of relative movement of said mounting elements to relieve said elements of strain when said casing is flexed, each of said mounting elements having enlarged portions near their ends for the centering thereof within said casing and having a reduced center portion for providing space for flexing of said casing.

14. A deep-sea cable repeater housing comprising a long hermetically sealed tubular metal casing capable of withstanding sea-pressures and of being flexed transversely of its axis and having a rigid hermetic entrance seal at each end for the cable conductors, a long sectionalized tubular apparatus container extending within and throughout the length of said casing and capable of being flexed with said casing, and a multiplicity of repeater apparatus distributed along the interior of said container, the materials in all surfaces presented to the atmosphere within said casing being substantially non-reactive in mutual contact and having substantially all normally volatile constituents removed from their surface portions, and said casing enclosing an atmosphere of purified inert gas and also enclosing a quantity of drying agent in contact with said atmosphere.

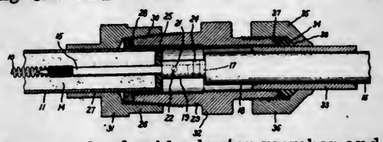
2,352,159
TERMINAL STRUCTURE

Ruthford E. Brodie, Lanesboro, Mass., assignor to General Electric Company, a corporation of New York

Application June 27, 1942. Serial No. 448,766
1 Claim. (Cl. 174—77)

In an electric heater provided with a metallic sheath, and a terminal projecting from one end

of said sheath, a terminal structure for said heater comprising a cup-shaped metallic adapter member, means securing said adapter member to said sheath so as to effect a fluid-tight joint between said adapter member and sheath, said adapter member having an inner wall spaced from the outer surface of said sheath, an electrical supply lead having a conducting member and a rubber insulating cover, connection means connecting said conducting member to said terminal, a cylindrical member housing said connection means having one end received in the space between

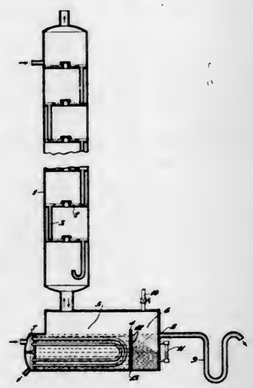


said inner wall of said adapter member and said sheath and in threaded engagement with said inner wall so as to effect a fluid-tight joint between said end and said adapter member, a copper sleeve swaged on said rubber cover and having one end received in the other end of said cylindrical member, a yielding packing ring surrounding said metallic sleeve, and a gland nut threaded on said other end of said cylindrical member compressing said packing ring against said end and into intimate contact with said metallic sleeve.

2,352,160
METHOD OF DISTILLATION

Alexander C. Brown, Cincinnati, Ohio, assignor to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio

Application November 22, 1941, Serial No. 420,128
3 Claims. (Cl. 202—40)



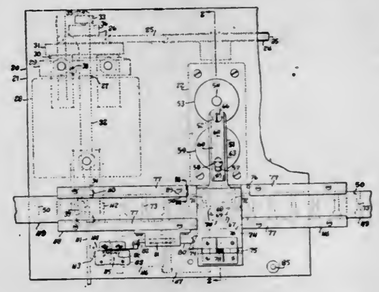
1. A method for separating the components of a liquid solution comprised of alcohol, water and an oil such as fatty acid in such manner that the alcohol does not esterify the fatty acid, which method comprises establishing countercurrent flow of said solution to steam vapors in a contact zone and at such temperature that the heat of the steam vaporizes the alcohol component of the solution, and the steam is condensed by said solution into water, conducting said alcohol vapors to a condenser, removing the liquid comprised of fatty acid and water after the alcohol is evaporated, reheating the solution of alcohol and water for vaporization of the water content thereof, passing the steam so generated into contact with additional mixture of water, fatty acid and alcohol and simultaneously settling a portion of the mixture of fatty acid and water, decanting the fatty acid so separated and readmixing the water so separated with the mixture of oil and fatty acid being heated.

2,352,161
TESTING MACHINE

David B. Brownlow, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut

Application August 12, 1943, Serial No. 498,282
6 Claims. (Cl. 209—82)

1. A machine for testing cartridge feed-belts for machine guns, including: means for feeding a cartridge feed-belt longitudinally of itself; pocket-testing means movable relatively-transversely edgewise of the belt to test the size of each pocket

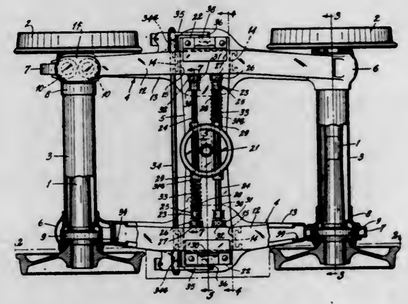


and to crumple each pocket that is undersize; and means actuated by each crumpled pocket for identifying each such crumpled pocket.

2,352,162
CAR TRUCK

Tracy V. Buckwalter, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

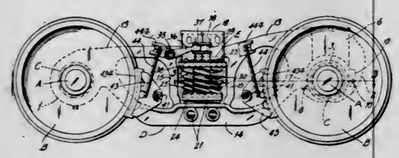
Application December 29, 1941, Serial No. 424,692
5 Claims. (Cl. 105—197.2)



1. A spring-plankless inboard car truck comprising wheeled axles, housings enclosing said axles between the wheels thereon and side frames having their ends mounted on the ends of said housings, said side frames being rigidly secured to said housings at two diagonally opposite corners of said truck and being loosely connected to said housings at the other diagonally opposite corners of said truck, a bolster, and com-

pression springs seated on said side frames and yieldably supporting said bolster thereon, each of said loose connections comprising a pedestal rigid with one end of a side frame and fitting over the adjacent end of a housing and constituting the sole connection between said side frame and said housing, thereby permitting free relative vertical movement of said ends of said side frame and housing while holding the latter in place horizontally, and a multi-unit group of metal compression coil springs resting on said housing and supporting the pedestal end of said side frame thereon, said end of said side frame having a downwardly opening pocket therein enclosing said group of springs and forming a seat for the upper ends thereof.

2,352,163
CAR TRUCK
Tracy V. Buckwalter, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application December 29, 1941, Serial No. 424,693
7 Claims. (Cl. 105—197.2)

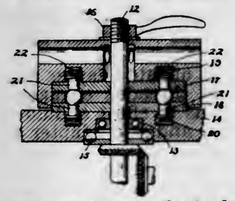


1. A spring-plankless inboard car truck comprising wheeled axles, housings enclosing said axles between the wheels thereon, side frames connecting corresponding ends of said housings and having bolster openings therein, said side frames being rigidly secured to said housings at two diagonally opposite corners of said truck, springs supporting said side frames on said housings at the other diagonally opposite corners of said truck, a plurality of springs mounted in the bolster opening of each side frame, a bolster having its ends disposed in said bolster openings and supported on the springs therein, and means for rendering inoperative some of the bolster supporting springs and all of the side frame supporting springs at different predetermined loads on said bolster.

2,352,164
METAL DEACTIVATOR
Hugh D. Burnham, Edwardsville, Ill., and Frederick T. Weiss, Normandy, Mo., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 7, 1942, Serial No. 457,636
9 Claims. (Cl. 252—51)

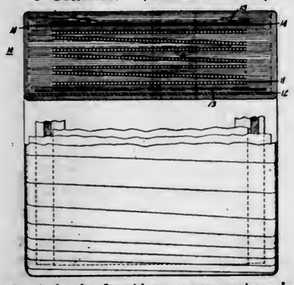
1. A composition of matter consisting essentially of a substantially neutral purely organic substance which is normally stable but oxidizes when exposed to atmospheric oxygen in the presence of a copper oxidation catalyst, said substance having dissolved therein a small amount each of an organic nitrogen-bearing deactivator for copper catalysts, said deactivator having a configuration capable of forming a 5 or 6 membered nitrogen containing chelate ring with said metal and of a metal salt of a weak acidic compound, having a dissociation constant below about 10^{-7} and having a configuration such that a corrosive carboxylic acid can displace it from said salt, said metal in said salt being non-catalytic and selected from the group consisting of lithium, beryllium, magnesium, calcium, strontium, barium, zinc, cadmium, aluminum, and tin, said additives being soluble in said substance at least to the extent of .01% and present in sufficient amount to stabilize said composition.

2,352,165
POSITIONING INDEX FOR TURRET MACHINES
Henry M. Buzza, Toronto, Ontario, Canada, assignor, by mesne assignments, to John G. Hames, Toronto, Ontario, Canada
Application January 1, 1942, Serial No. 425,276
6 Claims. (Cl. 29—48)



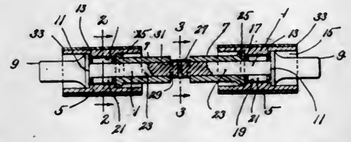
3. In a turret machine, a bed plate, a turret rotatably mounted and spaced from and axially movable relative to said bed plate, holes bored in said turret in a circumferential row and equidistant from each other, holes bored in the bed plate in alignment with the holes in the turret, balls of greater diameter than the holes in said bed plate and turret arranged therebetween and adapted to seat in said holes, and spring pressure means connected with said turret for holding said turret and bed plate in close engaging contact with said balls and adapted to permit an axial movement of the turret in relation to the bed plate to release the balls from engagement with the said holes.

2,352,166
ELECTRIC INDUCTION APPARATUS
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application February 10, 1942, Serial No. 430,201
5 Claims. (Cl. 175—362)



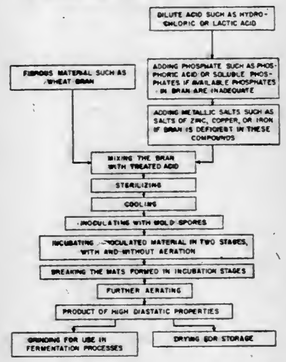
1. An electric induction apparatus including a winding, and shield means adjacent a surface of said winding comprising a conducting member and an insulating strip, said insulating strip having a portion coated with a material having conducting particles, said shield means being assembled with said insulating strip adjacent an edge of said conducting member, said portion coated with conducting particles lying contiguous with a surface of said conducting member and projecting beyond said edge so as to minimize corona formation at the edge of said conducting member.

2,352,167
DRAWING ROLL FOR SPINNING FRAMES
Leon W. Campbell, Hendersonville, N. C.
Application July 2, 1941, Serial No. 400,775
5 Claims. (Cl. 19—142)



1. A drawing-roll having in combination two shell rolls each having internal shoulders, a needle-bearing fixed within each shell roll and located between the internal shoulders, a spindle extending through each shell roll and needle-bearing and having a flange bearing against one of such shoulders, a spacer on the spindle engaging the other of such shoulders, and means joining the two spindles together between the two shell rolls.

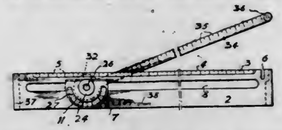
2,352,168
METHOD OF PROMOTING MOLD GROWTH
Leo M. Christensen, Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y., a corporation of Delaware
Application October 7, 1940, Serial No. 360,206
7 Claims. (Cl. 195—81)



6. A method of facilitating the growth of mold of the species *Aspergillus oryzae* on solid substrates of carbohydrates of fibrous character comprising adding a dilute solution of hydrochloric acid, available phosphates and salts of heavy metals to the said fibrous material, said salts constituting less than 1% by weight of the total mixture, sterilizing and then cooling the said mixture, adding spores of the said mold, incubating the inoculated material for twelve hours without aeration and then fermenting the inoculated material for an equal period of time with aeration to remove the heat of oxidation so as to maintain a temperature within a range of from 40 to 50° centigrade.

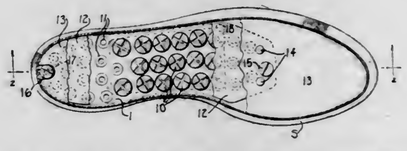
2,352,169
COMBINATION MATHEMATICAL INSTRUMENT
Charles Beltrand Alexander, Melbourne, Victoria, Australia
Application December 7, 1943, Serial No. 513,288
In Australia July 2, 1942
2 Claims. (Cl. 33—75)

1. A combination mathematical instrument comprising, a straight rule, a protractor slidably adjustable in longitudinal direction on said rule, a protractor spindle, a pointer fast on said spindle adapted to register with the graduated markings on the protractor, a cover plate on said protractor, a knurled head threadedly engaging



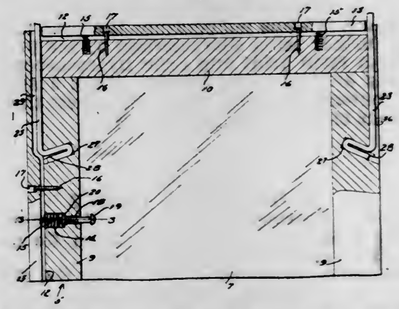
the upper end of said spindle, and an angle rule fixedly connected to the opposite end of said spindle, said knurled head having limited rotational movement on said spindle and adapted by pressing on said cover plate to exert clamping pressure upon said angle rule.

2,352,170
FLEXIBLE FOOT FOUNDATION
Maurice K. Anderson, Seattle, Wash.
Application November 14, 1940, Serial No. 365,697
19 Claims. (Cl. 36—71)



1. A foot foundation for a shoe, comprising a base plate at least the entire metatarsal area of which is composed of inherently flexible material, and a plurality of unyielding spacer studs projecting from said base plate in sufficient number and sufficiently closely spaced to define cooperatively and with said base plate a substantially incompressible foundation of varying thickness in different portions for engagment of one side thereof with the upper surface of the shoe sole, the other side thereof defining a warped surface conforming to the shape of a wearer's sole.

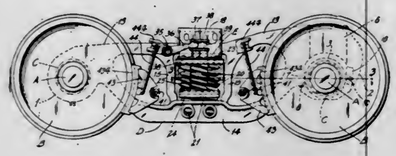
2,352,171
WINDOW
Anton Anfinson, Deadwood, S. Dak., assignor of one-third to Oren E. Artus and William Bentley, Deadwood, S. Dak.
Application June 20, 1942, Serial No. 447,795
1 Claim. (Cl. 20—52)



A window of the character described comprising a frame including jambs and a cap piece, said cap piece being mounted on the jambs and having its end portions projecting therebeyond, pulleys mounted on the end portions of the cap

pression springs seated on said side frames and yieldably supporting said bolster thereon, each of said loose connections comprising a pedestal rigid with one end of a side frame and fitting over the adjacent end of a housing and constituting the sole connection between said side frame and said housing, thereby permitting free relative vertical movement of said ends of said side frame and housing while holding the latter in place horizontally, and a multi-unit group of metal compression coil springs resting on said housing and supporting the pedestal end of said side frame thereon, said end of said side frame having a downwardly opening pocket therein enclosing said group of springs and forming a seat for the upper ends thereof.

2,352,163
CAR TRUCK
Tracy V. Buckwalter, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application December 29, 1941, Serial No. 424,693
7 Claims. (Cl. 105—197.2)

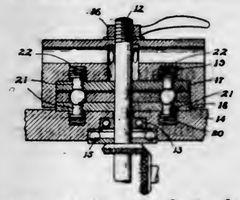


1. A spring-plankless inboard car truck comprising wheeled axles, housings enclosing said axles between the wheels thereon, side frames connecting corresponding ends of said housings and having bolster openings therein, said side frames being rigidly secured to said housings at two diagonally opposite corners of said truck, springs supporting said side frames on said housings at the other diagonally opposite corners of said truck, a plurality of springs mounted in the bolster opening of each side frame, a bolster having its ends disposed in said bolster openings and supported on the springs therein, and means for rendering inoperative some of the bolster supporting springs and all of the side frame supporting springs at different predetermined loads on said bolster.

2,352,164
METAL DEACTIVATOR
Hugh D. Burnham, Edwardsville, Ill., and Frederick T. Weiss, Normandy, Mo., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 7, 1942, Serial No. 457,636
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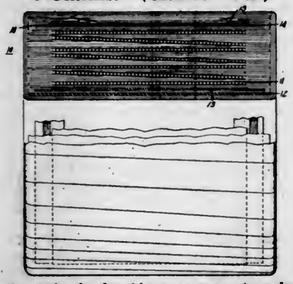
1. A composition of matter consisting essentially of a substantially neutral purely organic substance which is normally stable but oxidizes when exposed to atmospheric oxygen in the presence of a copper oxidation catalyst, said substance having dissolved therein a small amount each of an organic nitrogen-bearing deactivator for copper catalysts, said deactivator having a configuration capable of forming a 5 or 6 membered nitrogen containing chelate ring with said metal and of a metal salt of a weak acidic compound, having a dissociation constant below about 10^{-7} and having a configuration such that a corrosive carboxylic acid can displace it from said salt, said metal in said salt being non-catalytic and selected from the group consisting of lithium, beryllium, magnesium, calcium, strontium, barium, zinc, cadmium, aluminum, and tin, said additives being soluble in said substance at least to the extent of .01% and present in sufficient amount to stabilize said composition.

2,352,165
POSITIONING INDEX FOR TUBRET MACHINES
Henry M. Buzza, Toronto, Ontario, Canada, assignor, by mesne assignments, to John G. Hames, Toronto, Ontario, Canada
Application January 1, 1942, Serial No. 425,276
6 Claims. (Cl. 29—48)



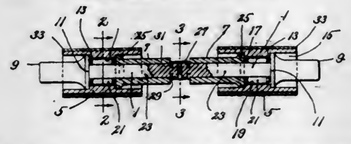
3. In a turret machine, a bed plate, a turret rotatably mounted and spaced from and axially movable relative to said bed plate, holes bored in said turret in a circumferential row and equidistant from each other, holes bored in the bed plate in alignment with the holes in the turret, balls of greater diameter than the holes in said bed plate and turret arranged therebetween and adapted to seat in said holes, and spring pressure means connected with said turret for holding said turret and bed plate in close engaging contact with said balls and adapted to permit an axial movement of the turret in relation to the bed plate to release the balls from engagement with the said holes.

2,352,166
ELECTRIC INDUCTION APPARATUS
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application February 10, 1942, Serial No. 430,201
5 Claims. (Cl. 175—362)



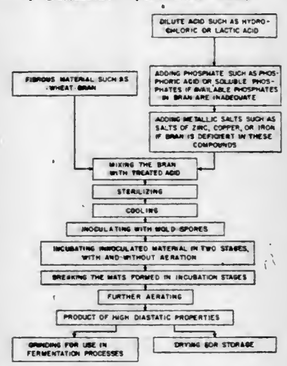
1. An electric induction apparatus including a winding, and shield means adjacent a surface of said winding comprising a conducting member and an insulating strip, said insulating strip having a portion coated with a material having conducting particles, said shield means being assembled with said insulating strip adjacent an edge of said conducting member, said portion coated with conducting particles lying contiguous with a surface of said conducting member and projecting beyond said edge so as to minimize corona formation at the edge of said conducting member.

2,352,167
DRAWING ROLL FOR SPINNING FRAMES
Leon W. Campbell, Hendersonville, N. C.
Application July 2, 1941, Serial No. 400,775
5 Claims. (Cl. 19—142)



1. A drawing-roll having in combination two shell rolls each having internal shoulders, a needle-bearing fixed within each shell roll and located between the internal shoulders, a spindle extending through each shell roll and needle-bearing and having a flange bearing against one of such shoulders, a spacer on the spindle engaging the other of such shoulders, and means joining the two spindles together between the two shell rolls.

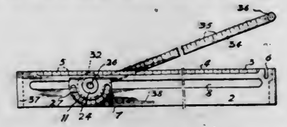
2,352,168
METHOD OF PROMOTING MOLD GROWTH
Leo M. Christensen, Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y., a corporation of Delaware
Application October 7, 1940, Serial No. 360,206
7 Claims. (Cl. 195—81)



6. A method of facilitating the growth of mold of the species *Aspergillus oryzae* on solid substrates of carbohydrates of fibrous character comprising adding a dilute solution of hydrochloric acid, available phosphates and salts of heavy metals to the said fibrous material, said salts constituting less than 1% by weight of the total mixture, sterilizing and then cooling the said mixture, adding spores of the said mold, incubating the inoculated material for twelve hours without aeration and then fermenting the inoculated material for an equal period of time with aeration to remove the heat of oxidation so as to maintain a temperature within a range of from 40 to 50° centigrade.

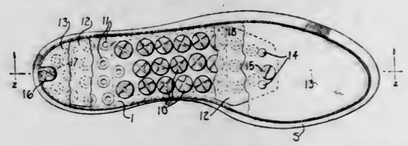
2,352,169
COMBINATION MATHEMATICAL INSTRUMENT
Charles Beltrand Alexander, Melbourne, Victoria, Australia
Application December 7, 1943, Serial No. 513,288
In Australia July 2, 1942
2 Claims. (Cl. 33—75)

1. A combination mathematical instrument comprising, a straight rule, a protractor slidably adjustable in longitudinal direction on said rule, a protractor spindle, a pointer fast on said spindle adapted to register with the graduated markings on the protractor, a cover plate on said protractor, a knurled head threadedly engaging



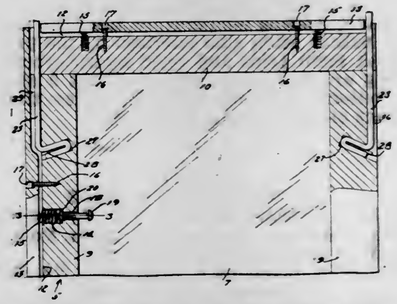
the upper end of said spindle, and an angle rule fixedly connected to the opposite end of said spindle, said knurled head having limited rotational movement on said spindle and adapted by pressing on said cover plate to exert clamping pressure upon said angle rule.

2,352,170
FLEXIBLE FOOT FOUNDATION
Maurice K. Anderson, Seattle, Wash.
Application November 14, 1940, Serial No. 365,697
19 Claims. (Cl. 36—71)



1. A foot foundation for a shoe, comprising a base plate at least the entire metatarsal area of which is composed of inherently flexible material, and a plurality of unyielding spacer studs projecting from said base plate in sufficient number and sufficiently closely spaced to define cooperatively and with said base plate a substantially incompressible foundation of varying thickness in different portions for engagment of one side thereof with the upper surface of the shoe sole, the other side thereof defining a warped surface conforming to the shape of a wearer's sole.

2,352,171
WINDOW
Anton Anfinson, Deadwood, S. Dak., assignor of one-third to Oren E. Artus and William Bentley, Deadwood, S. Dak.
Application June 20, 1942, Serial No. 447,795
1 Claim. (Cl. 20—52)



A window of the character described comprising a frame including jambs and a cap piece, said cap piece being mounted on the jambs and having its end portions projecting therebeyond, pulleys mounted on the end portions of the cap

piece, sashes slidably mounted in the frame, said sashes including stiles having channels therein and further having upwardly inclined sockets therein communicating with the channels, cords trained over the pulleys, the cap piece having openings therein on opposite sides of the jambs for the passage of the cords, weights on one end of the cords, the other end portions of said cords extending into the channels and anchored in the sockets, weatherstrips slidably mounted in the channels, and coil springs mounted in the stiles for yieldingly urging the weatherstrips outwardly toward the frame, said weatherstrips having grooves in one end portion accommodating said other end portions of the cords.

2,352,172

PROTECTIVE AND DECORATIVE COATING

László Auer, East Orange, N. J., assignor to Ridbo Laboratories, Inc., Paterson, N. J., a corporation of New Jersey

No Drawing. Application November 25, 1941, Serial No. 420,346

11 Claims. (Cl. 106—220)

1. In a paint, a vehicle containing substantially non-volatile rosin ingredients as at least the major drying and film-forming constituents, said ingredients comprising treated rosin material prepared by heating rosin to a decarboxylation temperature in the presence of a decarboxylation promoting agent to partially decarboxylate said rosin, and said ingredients further being characterized by the presence of both rosin acids and rosin hydrocarbons, and the rosin ingredients having an acid value of from 20 to 120, and said vehicle being characterized by a high degree of wetting power, good top- and through-drying characteristics, and substantial freedom from reliquefying of the drying and film-forming ingredients after formation of the paint film.

2,352,173

LACQUER

László Auer, East Orange, N. J., assignor to Ridbo Laboratories, Inc., Paterson, N. J., a corporation of New Jersey

No Drawing. Application December 22, 1941, Serial No. 424,008

14 Claims. (Cl. 106—173)

1. A lacquer of the nitrocellulose type, in which the film-forming vehicle-solids consist essentially of nitrocellulose, a plasticizer, and substantially non-volatile rosin ingredients comprising treated rosin material prepared by heating rosin in the presence of a decarboxylation promoting agent at a decarboxylating temperature, the rosin ingredients further being characterized by the presence of both rosin acids and rosin hydrocarbons and having an acid value between about 5 and 120, the content of the plasticizer being less than the content of said rosin ingredients.

2,352,174

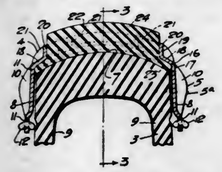
ANTISKIDDING DEVICE

Donald S. Barrows, Rochester, N. Y., assignor to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland

Application November 6, 1941, Serial No. 418,079

2 Claims. (Cl. 152—226)

1. In a device of the character described for use with a tire, the combination of a plurality of metallic housings each comprising an apertured base plate having spaced arms, reinforcing means extending along said arms, means flexibly connecting relating arms of said housings, means forming pockets in said housings, and resilient shoes associated with said housings; said shoes having tongues precompressed within said



pockets and reacting against said tire through said apertures to retain said shoes in assembled relation with said housings and impart tensional forces to said connecting means.

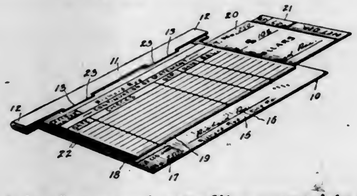
2,352,175

BANK ACCOUNT EXPEDITER

Raymond E. Bauder, Chicago, Ill.

Application March 18, 1943, Serial No. 479,652

4 Claims. (Cl. 129—16.7)



1. A bank account expediter comprising a file card to be kept by a bank, said file card having an area along its lower edge upon which the signature of a bank depositor may be written, and a flat folder for retaining checks drawn by said depositor, said folder being attached to said card and having its lower edge disposed along the upper margin of said signature area, whereby any check drawn on said account may be laid on said folder for inspection and accurate comparison of the check signature with the subjacent signature on said signature area of said card, and all examined checks may be retained in said folder, the right and left ends of said folder being open to permit checks in said folder to project indicatively beyond either end thereof.

2,352,176

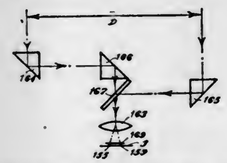
PHOTOGRAPHIC ARRANGEMENT

Jacques Bogopolsky, New York, N. Y., now by judicial change of name Jacques Bolsey

Application February 24, 1940, Serial No. 320,706

In France January 25, 1939

7 claims. (Cl. 95—18)



1. A photographic arrangement for determining the distance of an object from said arrangement comprising two main photographic means for recording two images of said object on a light-sensitive photographic material, said photographic means having spaced parallel optical axes and including light deflecting means arranged in such a manner that said images of said object are recorded in a single image field on said light-sensitive photographic material, and auxiliary photographic means adapted to record on said image field of said light-sensitive photographic material also scale lines extending in a direction at an angle to the plane defined by said axes and spaced at a distance having a known relation to the distance between said object and said photographic arrangement, whereby the latter distance can be measured by counting the number of scale lines between corresponding points on said two images of said object.

2,352,177

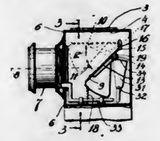
MIRROR FOR REFLEX CAMERAS

Jacques Bolsey, New York, N. Y.

Application December 31, 1940, Serial No. 372,504

In Switzerland November 8, 1940

12 Claims. (Cl. 95—42)



2. In a reflex camera, a camera casing, an objective lens in the front wall of said camera casing, a movable reflecting mirror within said casing, said mirror being adapted to be positioned in focusing position crossing the optical axis of said objective lens under 45° and in picture taking position substantially parallel to said optical axis outside of the path of the light rays entering said camera casing through said objective lens and to be moved from focusing into picture taking position and back, at least one operating lever moving said reflecting mirror from focusing into picture taking position by pushing against the rear face of said mirror, and means for movably attaching said mirror to said camera casing in such a manner as to enable said operating lever to impart to said mirror motions of rotation of about 45° about an axis normal to said optical axis and of translation normal to both said optical axis and said axis of rotation during its movement from said focusing into said picture taking position.

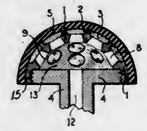
2,352,178

SUPPORT FOR LENS BLANKS AND PROCESS OF SECURING LENS BLANKS TO SAID SUPPORTS

Jacques Bolsey, New York, N. Y.

Application January 5, 1943, Serial No. 471,324

6 Claims. (Cl. 51—216)



5. Process of simultaneously securing a plurality of lens blanks to a lens supporting member provided with a plurality of holes spaced apart from each other and connecting the lens supporting surface of said lens supporting member with another face thereof, said process comprising the steps of positioning said lens supporting member with its lens supporting surface being upward, placing the lens blanks on said surface so that one lens blank is coming to lie on each of said holes, placing a holding member upon said lens supporting surface of said lens supporting member and the lens blanks placed thereon holding the latter in their proper places, turning said lens supporting member with said lens blanks and said holding member placed upon the same upside down, and filling said holes in said lens supporting member with an adhesive material sticking to the walls of said holes and to those faces of the lens blanks which are lying under them, thus securing said lens blanks to said lens supporting member without provision of adhesive material between the supporting surface of said lens supporting member and the supported faces of the lens blanks.

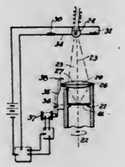
2,352,179

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Jacques Bolsey, New York, N. Y.

Application January 5, 1943, Serial No. 471,325

16 Claims. (Cl. 88—1)



1. Device for adjusting the lateral position of a lens on a support in relation to the same comprising a support supporting said lens in horizontal position in such a manner as to enable passage of a light beam through said lens and to enable sliding of said lens on said support in lateral horizontal direction, a light source for projecting a light beam through said lens while it is supported by said support freely slidably in lateral horizontal direction, said light beam passing through said lens and then moving along a predetermined path when said lens is lying on said support in adjusted correct horizontal position and being deflected by said lens from said predetermined path when said lens is lying on said support in unadjusted incorrect non-horizontal position, a series of light-sensitive photo-electric means arranged around said predetermined path of the light beam having passed through said lens at different distances from said path so that said light beam is impinging on one of said light-sensitive photo-electric means when said lens is lying on said support in unadjusted incorrect non-horizontal position and thereby the light beam passing through it is deflected from said predetermined path, and a series of adjusting means each being influenced by said light-sensitive photo-electric means in such a manner as to move said lens laterally toward said adjusted correct position of said lens on said support when said light beam is deflected from said predetermined path and is impinging on said light-sensitive photo-electric means.

2,352,180

MACHINE FOR THE TREATMENT OF LENSES

Jacques Bolsey, New York, N. Y.

Application January 29, 1943, Serial No. 473,931

8 Claims. (Cl. 51—108)

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piece, sashes slidably mounted in the frame, said sashes including stiles having channels therein and further having upwardly inclined sockets therein communicating with the channels, cords trained over the pulleys, the cap piece having openings therein on opposite sides of the jambs for the passage of the cords, weights on one end of the cords, the other end portions of said cords extending into the channels and anchored in the sockets, weatherstrips slidably mounted in the channels, and coil springs mounted in the stiles for yieldingly urging the weatherstrips outwardly toward the frame, said weatherstrips having grooves in one end portion accommodating said other end portions of the cords.

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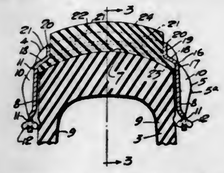
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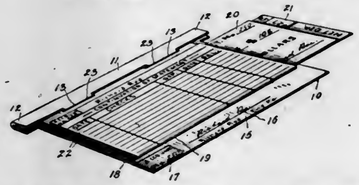
2,352,175

BANK ACCOUNT EXPEDITER

Raymond E. Bauder, Chicago, Ill.

Application March 18, 1943, Serial No. 479,652

4 Claims. (Cl. 129—16.7)



1. A bank account expediter comprising a file card to be kept by a bank, said file card having an area along its lower edge upon which the signature of a bank depositor may be written, and a flat folder for retaining checks drawn by said depositor, said folder being attached to said card and having its lower edge disposed along the upper margin of said signature area, whereby any check drawn on said account may be laid on said folder for inspection and accurate comparison of the check signature with the subjacent signature on said signature area of said card, and all examined checks may be retained in said folder, the right and left ends of said folder being open to permit checks in said folder to project indicatively beyond either end thereof.

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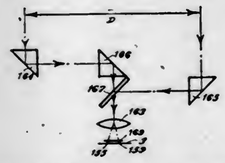
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2,352,177

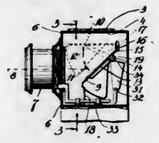
MIRROR FOR REFLEX CAMERAS

Jacques Bolsey, New York, N. Y.

Application December 31, 1940, Serial No. 372,504

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12 Claims. (Cl. 95—42)



2. In a reflex camera, a camera casing, an objective lens in the front wall of said camera casing, a movable reflecting mirror within said casing, said mirror being adapted to be positioned in focusing position crossing the optical axis of said objective lens under 45° and in picture taking position substantially parallel to said optical axis outside of the path of the light rays entering said camera casing through said objective lens and to be moved from focusing into picture taking position and back, at least one operating lever moving said reflecting mirror from focusing into picture taking position by pushing against the rear face of said mirror, and means for movably attaching said mirror to said camera casing in such a manner as to enable said operating lever to impart to said mirror motions of rotation of about 45° about an axis normal to said optical axis and of translation normal to both said optical axis and said axis of rotation during its movement from said focusing into said picture taking position.

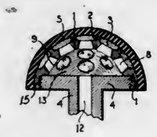
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SUPPORT FOR LENS BLANKS AND PROCESS OF SECURING LENS BLANKS TO SAID SUPPORTS

Jacques Bolsey, New York, N. Y.

Application January 5, 1943, Serial No. 471,324

6 Claims. (Cl. 51—216)



5. Process of simultaneously securing a plurality of lens blanks to a lens supporting member provided with a plurality of holes spaced apart from each other and connecting the lens supporting surface of said lens supporting member with another face thereof, said process comprising the steps of positioning said lens supporting member with its lens supporting surface being upward, placing the lens blanks on said surface so that one lens blank is coming to lie on each of said holes, placing a holding member upon said lens supporting surface of said lens supporting member and the lens blanks placed thereon holding the latter in their proper places, turning said lens supporting member with said lens blanks and said holding member placed upon the same upside down, and filling said holes in said lens supporting member with an adhesive material sticking to the walls of said holes and to those faces of the lens blanks which are lying under them, thus securing said lens blanks to said lens supporting member without provision of adhesive material between the supporting surface of said lens supporting member and the supported faces of the lens blanks.

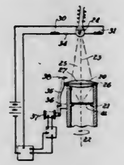
2,352,179

LENS CENTERING DEVICE

Jacques Bolsey, New York, N. Y.

Application January 5, 1943, Serial No. 471,325

16 Claims. (Cl. 88—1)



1. Device for adjusting the lateral position of a lens on a support in relation to the same comprising a support supporting said lens in horizontal position in such a manner as to enable passage of a light beam through said lens and to enable sliding of said lens on said support in lateral horizontal direction, a light source for projecting a light beam through said lens while it is supported by said support freely slidably in lateral horizontal direction, said light beam passing through said lens and then moving along a predetermined path when said lens is lying on said support in adjusted correct horizontal position and being deflected by said lens from said predetermined path when said lens is lying on said support in unadjusted incorrect non-horizontal position, a series of light-sensitive photo-electric means arranged around said predetermined path of the light beam having passed through said lens at different distances from said path so that said light beam is impinging on one of said light-sensitive photo-electric means when said lens is lying on said support in unadjusted incorrect non-horizontal position and thereby the light beam passing through it is deflected from said predetermined path, and a series of adjusting means each being influenced by said light-sensitive photo-electric means in such a manner as to move said lens laterally toward said adjusted correct position of said lens on said support when said light beam is deflected from said predetermined path and is impinging on said light-sensitive photo-electric means.

2,352,180

MACHINE FOR THE TREATMENT OF LENSES

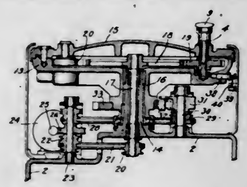
Jacques Bolsey, New York, N. Y.

Application January 29, 1943, Serial No. 473,931

8 Claims. (Cl. 51—108)

4. Machine for simultaneously subjecting a plurality of lenses to various treatments, comprising a common movable horizontal lens support for said lenses, individual horizontal supports one for each of said lenses arranged on said common horizontal movable support equidistant from

each other, each of said lens supports having an upper horizontal lens supporting part on which the supported lens is adapted to lie freely slidably in horizontal position, means for moving said common support step by step intermittently in such a manner as to move each of said individual lens supports into that position of rest in which the next preceding lens support was before that respective step by step movement, and



lens centering means adapted to center said lenses after they have been placed upon said upper horizontal lens supporting parts of said horizontal supports in horizontal position freely slidably supported by the same, said centering means being arranged along the path of the lenses carried by said individual lens supports at least at one of those points of this path at which said individual lens supports are in position of rest.

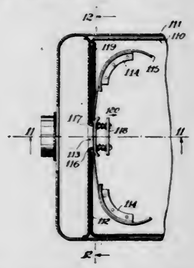
2,352,181

CAMERA WITH REMOVABLE FILM MAGAZINE

Jacques Bolsey, New York, N. Y.

Original application June 27, 1941, Serial No. 400,047, now Patent No. 2,319,530, dated May 18, 1943. Divided and this application May 15, 1943, Serial No. 487,120

6 Claims. (Cl. 88—17)



1. In a film camera in combination a camera casing, a removable film magazine having a front wall provided with an exposure opening, means for guiding the film inside of said magazine along said exposure opening, a stationary aperture plate in said camera casing arranged adjacent to said front wall of said magazine when the same is positioned in said camera casing in picture taking position, said aperture plate constructed and arranged in such a manner as to reach through said exposure opening of said film magazine into the same when said magazine is positioned in said camera casing in operative picture taking position, a slidable pressure plate arranged within said film magazine and adapted to press the film while it passes within said film magazine past said exposure opening against said stationary aperture plate reaching into said film magazine, and shutter means arranged within said removable film magazine slidably adjacent to the inner face of said magazine front wall and adapted to be moved between the film and said exposure opening of said film magazine, said shutter means being constructed so as to slide said slidable pressure plate inward against the direction of pressure of said pressure plate during sliding of said shutter means from inoperative into operative position, thereby moving also said film out of contact with said stationary aperture plate in said camera casing and enabling sliding of said shutter means between said film and said aperture plate, thus closing said exposure opening of said film magazine and preventing light from reaching the film through said exposure opening when said camera casing is opened and said magazine removed therefrom.

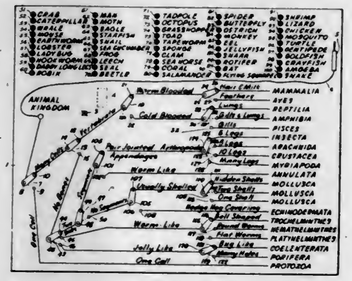
2,352,182

EDUCATIONAL APPARATUS

Myrl L. Brown, Harrisburg, Pa., assignor to Cambosco Scientific Company, Boston, Mass., a corporation of Massachusetts

Application March 2, 1942, Serial No. 433,003

6 Claims. (Cl. 35—20)



1. An educational device for teaching the classification of individual members of a group into sub-groups whose members have similar characteristics, said device comprising a base having indicia thereon adapted to represent individual members of the group, electric circuit contacts mounted on said base and operatively located adjacent each of said indicia, further indicia adapted to represent said group as a whole, still further indicia adapted to represent said sub-groups, a plurality of branched linear representations connecting said group indicia with said sub-group indicia, electric circuit interrupters mounted on said base at the branches of said linear representations, an electrically operated indicator, a power source therefor, and electric circuit means interconnecting said contacts, circuit interrupters, indicator and power source, forming a plurality of partially different electric circuits selectively completed through a selected one of said contacts and those of said circuit interrupters which are located along the linear representations leading from said group indicia to the proper sub-group indicia into which the individual member represented by the indicia opposite said selected one of said contacts is to be classified.

2,352,183

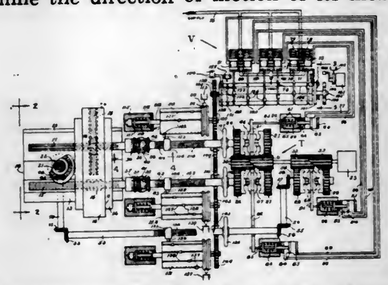
CONTROL MECHANISM

Edward P. Bullard, III, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut

Application August 23, 1940, Serial No. 353,935

43 Claims. (Cl. 192—142)

1. Apparatus comprising in combination, a plurality of appliances each including a member adapted to be moved along a path; means associated with each appliance for moving its member; separate means associated with each appliance adapted to be pre-set for controlling the member-moving means of said appliance to determine the direction of motion of its member;



and means for initiating the activity of each of said pre-settable means in response to a preceding movement of any of said members.

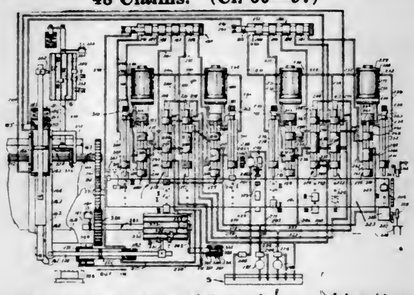
2,352,184

CONTROL MECHANISM

Edward P. Bullard, III, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut

Application June 4, 1941, Serial No. 396,544

48 Claims. (Cl. 60—97)



1. Apparatus comprising in combination, a member adapted successively to be moved in either direction along a path at any one of a plurality of speeds; a fluid-motor for moving said member; separate means for each direction of motion of said member adapted selectively to be operated for controlling the admission of fluid to, and exhaust from said motor; pre-settable means adapted selectively to operate a plurality of means including selected of said control means; a source of power for operating said pre-settable means; and means for determining the extent of successive movements of said member comprising separate adjustable means for each successive movement and responsive thereto at any point along the path of travel of said member for determining when said source of power is to be rendered effective, whereby both limits of movement of said member along said path may be varied.

44. Apparatus comprising in combination, a member adapted to be moved in either direction along a path at any one of a plurality of speeds; a fluid motor for moving said member; a control member including specific portions adapted adjustably to support means for selectively controlling the admission of fluid to and exhaust from said fluid motor; means for controlling the effectiveness of said control member including a portion for each specific portion of said control member adapted adjustably to support means for controlling said control member; and means for maintaining said portions in exact phase relation at all times.

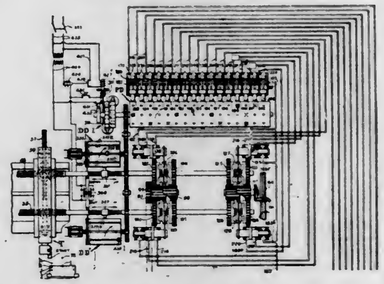
2,352,185

MACHINE TOOL

Edward P. Bullard, III, Fairfield, Le Roy E. Alvey, Bridgeport, and Frank H. Mussler, Stratford, Conn., assignors to The Bullard Company, a corporation of Connecticut

Application September 26, 1941, Serial No. 412,490

46 Claims. (Cl. 29—29)



1. In a machine tool, a work support; a tool support; means for providing more than two successive relative movements between said tool support and work support at a plurality of speeds within a cycle of operation; means adapted selectively to be operated for controlling said relative movement-providing means; pre-settable means adapted selectively to operate a plurality of means including selected of said control means; a source of power for operating said pre-settable means; and separate means for controlling the extent of each successive relative movement between said supports and responsive thereto during a cycle of operation for rendering effective said source of power.

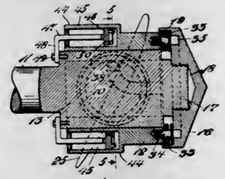
2,352,186

VARIABLE PITCH PROPELLER

John T. Corrigan, Newport, R. I.

Application October 21, 1940, Serial No. 362,005

6 Claims. (Cl. 170—162)



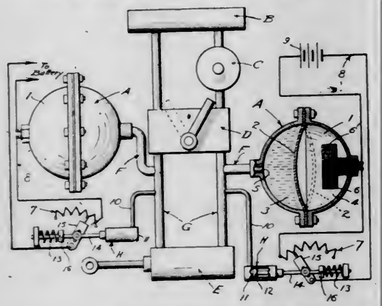
1. A variable air propeller comprising a hub having a plurality of blades rotatably mounted thereon, a rotatable shaft drivably connected with the hub, said hub being automatically movable axially of said shaft, means interconnecting said shaft and blades for turning said blades about their longitudinal axis during such axial movement of the hub for varying the pitch of the blades, and hydraulically operable cushioning means operable to provide a greater resistance to the movement of said hub in one direction than in the other comprising a cylinder member and a piston member therein, one of which members is attached to said hub and the other of which members is attached to the shaft, and means carried by the piston member presenting an opening of one size upon relative movement of the members in one direction and an opening of a different size upon relative movement of the members in the other direction for the control of the flow of fluid in said cylindrical member.

2,352,187

TEMPERATURE COMPENSATING ACCUMULATOR FOR HYDRAULIC SYSTEMS

Herman Ray Ellinwood, Burbank, Calif., assignor to Adel Precision Products Corp., a corporation of California

Application December 31, 1942, Serial No. 470,884
8 Claims. (Cl. 138—30)



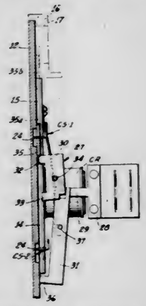
1. In a temperature compensating accumulator for a hydraulic system, an accumulator shell, a diaphragm mounted in and defining with said shell a reservoir chamber for liquid and a closed compensating chamber adapted to contain a gas, means affording the communication of said reservoir chamber with a hydraulic system, a heating means operable in said compensating chamber for varying the pressure and volume therein whereby through the diaphragm, the pressure and volume in the reservoir chamber is likewise varied, and a control means for said heating means adapted to be connected in said system for operation responsive to pressure variations in said system to proportionately vary the heating action of said heating means.

2,352,188

SOUND REPRODUCING SYSTEM AND COIN COLLECTING ACTUATOR THEREFOR

William S. Farrell, Los Angeles, Calif.

Application January 13, 1941, Serial No. 374,192
5 Claims. (Cl. 194—9)



1. In a coin operated control device, the combination of: means defining a coin channel for simultaneously receiving a plurality of coins; a coin receiver disposed at a discharge end of said channel; a coin feeding mechanism in said channel normally defining a zone and actuatable to advance the lowermost one of said coins into said zone while holding the remainder of said coins above said zone; means in said channel above said feeding mechanism operable upon engagement by said lowermost one of said coins to actuate said feeding mechanism; and means operable subsequently to again actuate said feeding mechanism to thereby advance said lowermost coin into said receiver and advance the next one of said coins into said zone.

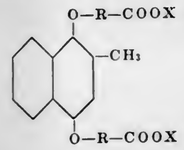
2,352,189

2 - METHYL - 1,4-NAPHTHOHYDROQUINONE DERIVATIVES AND METHOD OF PREPARING THEM

Erhard Fernholz, Princeton, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application August 13, 1940, Serial No. 352,407
8 Claims. (Cl. 260—520)

1. A compound of the general formula



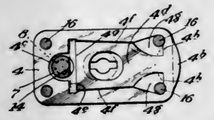
wherein R represents a member of the class consisting of lower-alkylene and carboxy-substituted lower-alkylene groups, and X represents a member of the group consisting of H and cations forming water-soluble salts.

2,352,190

PADLOCK

Daniel John Foote, West Allis, and Harry E. Soref, Milwaukee, Wis., assignors to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin.

Application May 23, 1942, Serial No. 444,158
8 Claims. (Cl. 29—84)



1. The method of assembling a laminated lock structure which includes superimposing a plurality of plates having aligned openings which form a cavity and one of which plates has a portion of its area removed, leaving a marginal portion of relatively small cross-section with an adjacent internal portion extending close to the cavity, permanently clamping said plates together, inserting a shouldered member into the cavity, and then applying pressure against the external edge of said plate adjacent its portion of small cross-section and forcibly bending said portion and shifting the said internal portion of the plate into the cavity as a stop retaining the shouldered member therein.

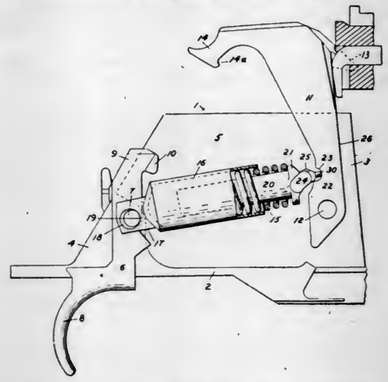
2,352,191

HAMMER MECHANISM

John C. Garand, Springfield, Mass.

Application August 21, 1943, Serial No. 499,443
9 Claims. (Cl. 42—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination, a pivoted hammer movable thru a limited arc, a spring biased plunger engaging said hammer and exerting a force thereon thru all but one extreme portion of said hammer's pivotal movement and an auxiliary spring biased



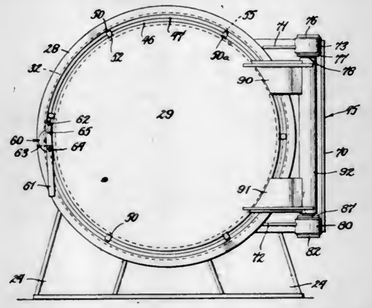
plunger operating between said hammer and said plunger irrespective of the position of said hammer.

2,352,192

CLOSURE

Fred Gasche, Titusville, Pa., assignor to Struthers Wells-Titusville Corporation, Titusville, Pa., a corporation of Maryland

Application June 24, 1941, Serial No. 399,559
1 Claim. (Cl. 220—61)



A swift working closure, comprising a frame having a door opening, a door mounted for movement into and out of said opening, a split locking ring mounted on said door and extending around the margin thereof, means connecting the ends of said split locking ring and adapted to expand said locking ring radially into engagement with a locking recess provided in said door frame, and means for restraining said split locking ring against circumferential movement comprising a roller carrried by said split locking ring and projecting laterally therefrom in a direction generally parallel with its axis and means providing a radial guideway on said door in which said roller is arranged.

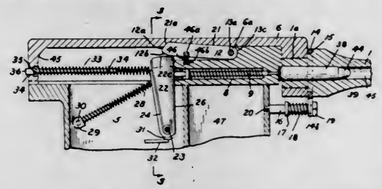
2,352,193

AUTOMATIC FIREARM

Walter T. Gorton, Springfield, Mass.

Application August 7, 1942, Serial No. 453,927
2 Claims. (Cl. 42—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An automatic firearm comprising a receiver, a barrel, a hollow extension secured to said barrel and mounted on said receiver for reciprocal movement, resilient means resisting rearward movement of the barrel with respect to the receiver, a bolt mounted on said receiver for independent reciprocal movement within said barrel extension, a firing pin mounted within said bolt and extending to the rear of the bolt, resilient means resisting rearward movement of the bolt, a rearwardly projecting latch pivotally secured to the top of said bolt, a latching surface on said barrel extension engageable by said latch when



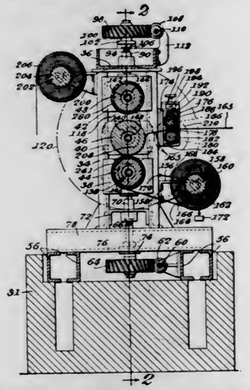
the bolt is in battery position, a hammer pivotally mounted in said receiver beneath the bolt and adapted to engage the rear of the firing pin when the bolt is in battery position, a bifurcated follower surrounding said hammer and pivotally mounted to the receiver, said follower adapted to engage said latch when the bolt is in battery position to hold the latch in engagement with said latching surface thereby locking the bolt to the barrel until the barrel recoils a substantial distance with respect to the receiver, and resilient means biasing said follower forwardly.

2,352,194

METHOD OF MOLDING PERFORATED ELASTIC MATERIAL

Josef A. Grabec, Bratislava, Czechoslovakia; vested in the Alien Property Custodian

Application September 13, 1937, Serial No. 163,602
2 Claims. (Cl. 154—2)



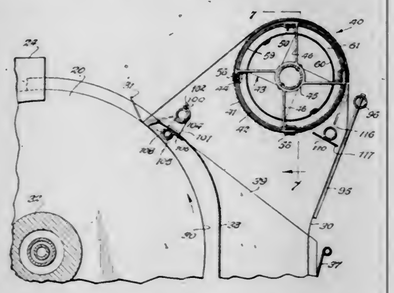
2. The method of producing foraminous composite material, which includes superposing a sheet of uncured rubber upon a sheet of textile fabric, placing the superposed sheets on a heated backing surface with the fabric lying on said surface to heat-plasticize the rubber, forcing simultaneously a multiplicity of heated molding cores through the rubber sheet and against said surface substantially when the rubber has become heat-plasticized, and maintaining the rubber and fabric in contact at least with the heated cores until at least such a degree of vulcanization has taken place that the rubber permanently retains its molded shape.

2,352,195

METHOD AND APPARATUS FOR REMOVING A CONTINUOUS FILM OF MATERIAL FROM THE SURFACE OF DRYING DRUMS

Guy N. Harcourt and Charles O. Lavett, Buffalo, N. Y., assignors to Buffalo Foundry & Machine Co., Buffalo, N. Y., a corporation of New York

Application September 20, 1941, Serial No. 411,710
21 Claims. (Cl. 34—20)



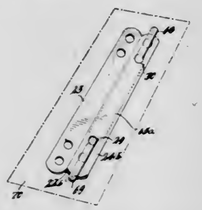
18. The method of removing and cooling a continuous film of material of the character described after severance from the surface of a revolving heated drying drum by a knife, which comprises hanging the strip severed by said knife upon a cooling cylinder in frictional engagement with the greater part of the peripheral surface of said friction cylinder above its axis and with its end overhanging said cooling cylinder to provide an end hanging from said cooling cylinder, and rotating said cooling cylinder at a suitable speed in relation to said drying drum to provide tension in the stretch of film at said knife and between said drying drum and cooling cylinder through the friction provided between the engaging surfaces of said film and friction cylinder.

2,352,196

BINDING BLANK

Paul Hartmann, New York, N. Y.

Application December 24, 1942, Serial No. 470,054
5 Claims. (Cl. 129—25)



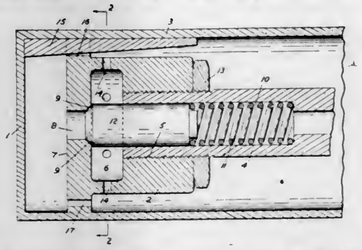
5. As an article of manufacture, a binding assembly comprising a paper blank having only three sections hinged to one another, the intermediate of said three sections having spaced perforations, a fastener strip having prongs at its ends, said fastener strip being arranged on the uppermost surface of said intermediate section with the prongs extending downwardly through said perforations, and means on the upper surface of said blank for attaching at least one of the remaining sections to said intermediate section when folded over thereon, whereby said fastener strip is held in position between said intermediate section and said one of said remaining sections.

2,352,197

AUTOMATIC VALVE

Earle M. Harvey, Springfield, Mass.

Application February 3, 1943, Serial No. 474,529
1 Claim. (Cl. 103—225)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



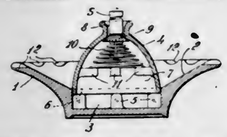
In a hydraulic mechanism, a reciprocating piston, a piston rod having a counterbored end portion threadably inserted in said piston, said piston having a by-pass opening, a cylindrical valve member movably mounted in said counterbored end portion of said piston rod and arranged to close said by-pass opening, a spring mounted within said counterbored end portion and operative between said valve member and the bottom surface of said counterbored portion, said spring biasing said valve member into closed position and a lock nut operative between said piston and said piston rod whereby the degree of insertion of said piston rod in said piston may be selected to yield a predetermined loading on said spring.

2,352,198

CIGARETTE EXTINGUISHER

Jay B. Hinson, Hartsdale, N. Y.

Application April 29, 1940, Serial No. 332,164
3 Claims. (Cl. 131—237)



1. In a cigarette extinguisher, a chamber for receiving burning material from a lighted cigarette, said chamber having a mouth within which the burning tip of a cigarette may be inserted, a circular-valve-like abrading member normally closing said mouth and being resiliently mounted for movement bodily under the thrust of the cigarette to open said mouth and permit abraded material to enter said chamber, said abrading member having a relatively high central part with downwardly sloping sides and said mouth being arranged to guide the central portion of the cigarette tip into engagement with the high central part of the abrading member causing said tip to be expanded to aid in disintegrating the same.

3,352,199

PRODUCTION OF TOLUENE

Vladimir N. Ipatieff and George S. Monroe, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 24, 1941, Serial No. 395,054
13 Claims. (Cl. 260—671)

1. A process for producing a substantial yield of toluene which comprises subjecting benzene and methane to contact at a temperature of from about 350° to about 750° C. under a pressure between about 50 and about 450 atmospheres in the presence of a dehydrogenating catalyst.

2,352,200

PRODUCTION OF TOLUENE

Vladimir N. Ipatieff and George S. Monroe, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 24, 1941, Serial No. 395,056
10 Claims. (Cl. 260—671)

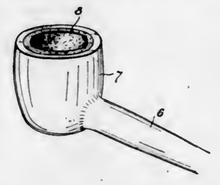
1. A process for producing a substantial yield of toluene which comprises subjecting a mixture of benzene and methane to contact under alkylating conditions in the presence of a synthetically prepared catalyst formed by calcining a composite comprising hydrated silicon oxide and another hydrated oxide, to effect interaction of said benzene and said methane.

2,352,201

COMPOSITION OF MATTER

Ezekiel J. Jacob, New York, N. Y., assignor to Benjamin Liebowitz, New York, N. Y.

Application May 23, 1941, Serial No. 394,893
5 Claims. (Cl. 131—230)



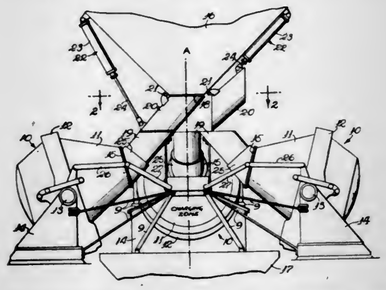
1. Composition of matter, particularly for bowls of smoking pipes, comprising plaster of Paris intimately mixed with fine heat resistant filaments and Congo-red.

2,352,202

MIXING PLANT

Charles H. Johnson, Champaign, Ill., assignor to The C. S. Johnson Company, Champaign, Ill., a corporation of Illinois

Application September 18, 1941, Serial No. 411,361
10 Claims. (Cl. 259—152)



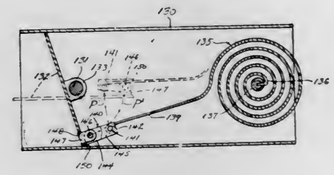
1. A concrete mixing plant comprising, in combination, a plurality of mixers arranged in a common plane about a central charging zone and having charging and discharging openings therein facing inwardly toward said zone, a collecting hopper for aggregates and a receiving hopper for finished mixes located substantially concentric with the central vertical axis of said charging zone, said receiving hopper being disposed below the plane of said mixers to receive the mixes discharged therefrom and said collecting hopper being disposed above said mixers, said collecting hopper having a single outlet in its lower portion substantially concentric with said vertical axis of the charging zone, a plurality of charging chutes stationarily mounted in said charging zone and leading upwardly from the charging openings of respective ones of said mixers toward said axis, a plurality of intermediate chutes, one for each charging chute, means supporting said intermediate chutes for individual movement independently of each other into and out of charging positions therefor and in which the intermediate chute which is in such charging position connects the outlet of said collecting hopper to the stationary charging chute corresponding to such intermediate chute, whereby aggregates from the hopper may be chuted by gravity from said collecting hopper to the corresponding selected mixer.

2,352,203

THERMOSTATIC VALVE

Roger C. Johnson, Moline, Ill.

Application July 1, 1940, Serial No. 343,479
2 Claims. (Cl. 236—34)



1. A thermostatic valve comprising a supporting member through which fluid to be controlled is adapted to flow, a valve pivoted thereto for movement about an axis between open and closed positions, thermally responsive means connected with said supporting member and including a portion movable at a distance from and generally about an axis in response to changes in the temperature to which said means is subjected, said axes being fixed in a given relation with respect to said supporting member and each other and a link pivoted adjacent one end to a portion of the valve spaced a distance from the pivot axis of the latter and adjacent the other end to said thermally responsive portion, the distance between said axes and the effective radii of said valve portion, to which one end of the link is connected, and of said movable portion of the thermally responsive means, respectively, being such that when the valve is swung from closed to open position said link is turned approximately end for end and both said link and said thermally responsive portion are disposed closely adjacent and substantially flat against the valve.

2,352,204

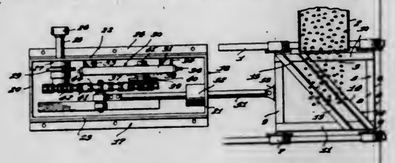
AUTOMATIC SAMPLE CUTTING MACHINE

Thomas Jordan, Salt Lake City, Utah

Application December 31, 1940, Serial No. 372,653
5 Claims. (Cl. 73—21)

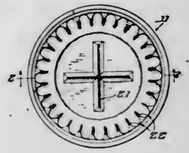
1. In an automatic sampling machine, a sample car, a sampling chute carried by the car, spaced

diagonally disposed cutters mounted on the car and forming the entrance to the sampling chute



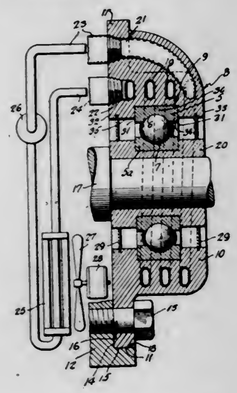
for movement diagonally through the path of a product flow, and means for imparting reciprocatory movement to the sample car.

2,352,205
DRINK MIXING TUMBLER
Julius H. Karlson, Chicago, Ill.
Application August 2, 1940, Serial No. 349,494
9 Claims. (Cl. 259—107)



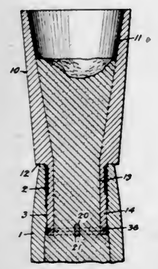
1. A mixing tumbler adapted for mixing drinks, having a series of generally vertical ribs closely spaced around an upper portion of the inside wall thereof to retard the rotation of the ingredients in the upper part of the tumbler and speed up the treatment of said ingredients by a rotating agitator and having upwardly projecting ribs on the bottom to retard the ingredients below the agitator and deflect them toward the agitator.

2,352,206
CONTROLLED TEMPERATURE BEARING
George H. Kendall, Noroton Heights, Conn.
Application February 7, 1942, Serial No. 429,879
5 Claims. (Cl. 308—77)



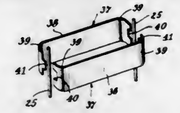
1. A device of the character described comprising a bimaterial unitary structure including a supporting and mounting member comprising a body portion and an integral flange extending radially therefrom forming a supporting and mounting means for the member, a single one piece preformed continuous hardened metal antifriction bearing raceway ring mounted in the body portion forming a track for the rolling elements and of sufficient thickness to carry the normal rolling load, said supporting and mounting member being of different material than the raceway ring but of a degree of hardness to withstand the load from the ring without materially changing its repose dimensions, said flange being provided with a locating and mounting surface adapted to seat on a supporting surface on a supporting housing or frame to locate the ring in the housing or frame, said ring having an outer surface permanently bonded to the material of the body to hold it permanently in a given position in the supporting member whereby the track surface may be finished with respect to said locating and mounting surface after mounting of the ring in the supporting member and bonding it thereto so that the track may be located in exact axial and concentric alignment with the locating and mounting surface, and heat transfer means incorporated in the body portion closely adjacent the raceway ring so that it is responsive to small temperature changes in the ring to control the temperature thereof and maintain the track in axial and concentric alignment with the locating and mounting surface.

2,352,207
FUNNEL FOR MOLTEN EXPLOSIVES
Thomas F. Knight, Rockaway, and Frederick E. Tregenza, Kenvil, N. J.
Application December 17, 1942, Serial No. 469,343
4 Claims. (Cl. 86—31)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



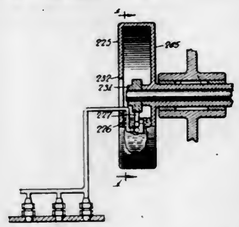
1. A device for loading explosive shells of the type provided with an internally threaded fuse mouth and for forming a booster cavity in the body of inert explosive and smoothing its bottom surface, comprising a funnel provided with a spout portion extending beyond the said shell threads, the outside diameter of the spout below the said threads being adapted to snugly fit in the throat of the shell whereby the molten explosive is prevented from reaching the said shell threads, the lower portion of the spout being adapted by diameter and length to form the booster cavity in the said molten explosive, the bottom edge of the said spout portion being provided with a pair of diametrical opposed slots, and the outer surface of the spout portion being provided near its edge with a circumferential groove, a cutter adapted to be received in the said pair of slots and provided with a pair of end slots aligned with the said spout groove, and a snap ring adapted to fit in the said spout groove and cutter slots to hold the cutter in place, the lower edge of the cutter being bevelled to form a pair of oppositely facing cutting edges.

2,352,208
GRID
William J. Knochel, East Orange, and James H. Cone, Montclair, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 12, 1943, Serial No. 478,890
7 Claims. (Cl. 250—27.5)



1. A grid structure having a part thereof formed as a band, said band comprising a pair of sections of substantially equal length, the end edge of one section having a butt engagement with the end of the other section, and said sections being welded at the area where abutting.

2,352,209
LUBRICATION
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application March 18, 1940, Serial No. 324,465
6 Claims. (Cl. 184—6)

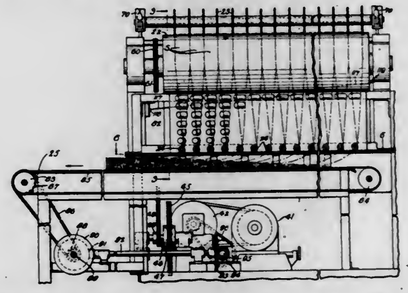


1. In a centralized lubricating installation for a machine having a plurality of spaced and distributed bearings requiring lubrication during operation of the machine, said installation including a central lubricant reservoir, a central lubricant pump, a branched conduit system with an inlet from said pump and a plurality of outlets to said bearings, said system being provided with means to control the distribution of the lubricant among said bearings; an automatic actuator operated to cause said pump to charge with lubricant from the reservoir and discharge it into said system during operation of said machine, said reservoir including a pivotally mounted container driven by said machine, said pump rocking with said container and including a reciprocating plunger, and said actuator including an actuating lever and means to reciprocate said lever.

2,352,210
CHEESE FORMING METHOD AND APPARATUS
Norman Kraft, Chicago, Ill., assignor to Kraft Cheese Company, a corporation of Delaware
Application November 13, 1941, Serial No. 418,953
17 Claims. (Cl. 31—46)

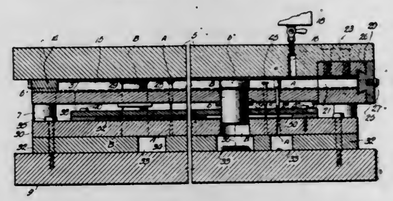
1. The method of preparing cheese which consists in forming the cheese into a thin sheet, slitting the sheet into ribbons of predetermined width, guiding the ribbons into relatively superposed assembled relationship, and then cutting the assembled ribbons transversely to form a multi-ply loaf or brick of cheese.

4. Apparatus of the class described comprising a drum, means adjacent an upper portion of said drum for forming on the surface of the drum a thin sheet of cheese, means for effecting rotation of said drum so as to propel said sheet of cheese downwardly from said sheet-forming



means, means adjacent another upwardly disposed portion of the drum for removing said cheese sheet from the drum, and means for slitting the cheese sheet removed from the drum into a plurality of ribbons adapted to be assembled in superposed relation to form a multi-ply bar of cheese.

2,352,211
DIE WORKING MACHINERY
Paul Kratzmaier, Kansas City, Mo.
Application May 10, 1943, Serial No. 486,329
5 Claims. (Cl. 164—118)

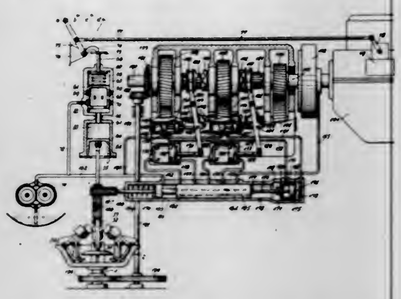


1. In apparatus of the character described, an upper die shoe member having a tool holding member associated therewith, means providing a combination air and oil chamber surrounding the heads of the tools, a plurality of working tools carried by said tool holding member, and means for introducing air pressure into said chamber above the surface of the oil therein for effecting a force feed action of the oil around said tools.

2,352,212
POWER AND SPEED TRANSMISSION FOR MOTOR VEHICLES
Richard Lang, Ravensburg, and Fritz Koch, Friedrichshafen, Bodensee, Germany; vested in the Alien Property Custodian
Application April 5, 1940, Serial No. 328,132
In Germany March 13, 1939
7 Claims. (Cl. 74—336.5)

1. In a power transmission device for motor vehicles, in combination: an internal combustion engine having a throttle, a driving shaft driven by said engine, a change speed gear, a driven shaft, a fluid pressure operated device for causing speed changes, a source of fluid under pressure connected with said device for causing speed changes, manually operated means for controlling said fluid pressure operated device in accord-

ance with the positions of said throttle, said fluid pressure operated device comprising a main operating member, means for controlling said mem-



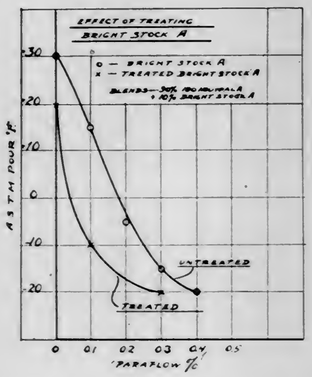
ber operating in dependency on the vehicle speed, further control means for said same member operating in dependency on the position of certain elements performing the speed changes.

2,352,213

LUBRICANT AND METHOD OF PREPARING SAME

Eugene Lieber, Staten Island, N. Y., and Martin M. Sadlon, Roselle Park, and Aloysius F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application October 1, 1940, Serial No. 359,190
8 Claims. (Cl. 196—151)



1. A lubricant comprising a waxy mineral lubricating oil, a small amount of synthetic pour depressor, and a small amount of natural pour sensitizer extracted from a crude petroleum distillation bottoms by clay treating.

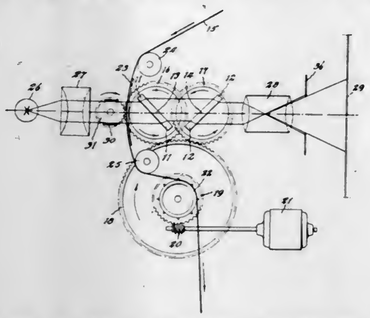
2,352,214

OPTICAL SYSTEM AND METHOD

David R. Ligh, New Dorp, N. Y., assignor to Darli Industrial Management, Incorporated, Hartford, Conn.

Application February 25, 1941, Serial No. 380,541
16 Claims. (Cl. 88—16.8)

1. In an optical system, means maintaining light rays in a concentrated relation, in combination with two effective rotating planar refracting media adapted successively to cause displacement of the rays from the projecting means, and means rotating the media at uniform angular



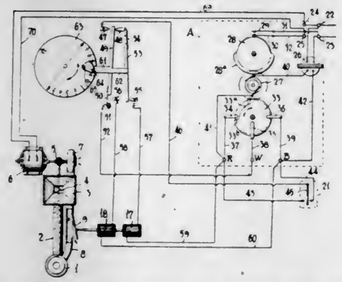
speed but at 90° lag in angular relation to each other, whereby uniform linear displacement of the rays is obtained.

2,352,215

CONTROL MEANS FOR AUTOMATIC STOKERS

Robert J. McFall, Arlington, Va., assignor to J. Austin Stone, J. Hanson Boyden, and Carl T. Mack, all of Washington, D. C., jointly

Application September 1, 1937, Serial No. 162,056
12 Claims. (Cl. 236—46)



1. The combination with an automatic stoker having power driven fuel feeding means and a blower, of remote control means for putting the fuel feeding means into operation and simultaneously rendering the blower ineffective, said means also including automatic time controlled means in addition to the stoker for stopping the fuel feeding means after a predetermined interval and restoring the blower to a condition in which it is effective to supply air to the fire whenever said power driven means operates.

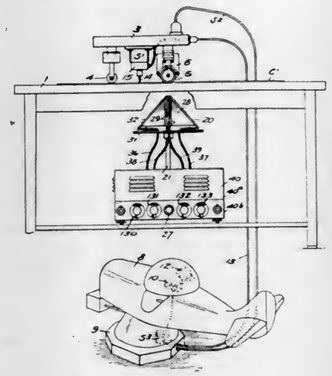
2,352,216

AUTOMATIC MINIATURE RADIO RANGE EQUIPMENT

Grant C. Melvin and Stanley B. White, Dayton, Ohio

Application July 13, 1943, Serial No. 494,480
8 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a miniature radio range for aviation ground trainers of the character wherein a transmitter and transmitting antenna assembly are adapted to radiate a radio range signal field over a supporting surface upon which a recorder is movable in translation and directionally controlled by an associated ground trainer, said recorder being provided with a pick-up antenna adapted to transmit radio signals to a radio receiver positioned in the trainer: the improvement which comprises a transmitting antenna consisting of individual metal rods each supported on an insulating mounting, the rods lying in the common lateral surface of a cone, said rods and insulating mountings being supported for rotation about a vertical axis and adjust-



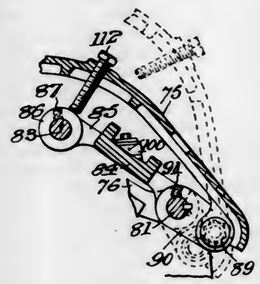
able such that the rods may be set at any desired angle in azimuth with respect to each other, individual shielded conductors electrically connected to the outer ends of each of said rods, means associated with the transmitter for feeding radio signal currents to each respective one of said conductors, and manually adjustable means for individually varying the voltage of the radio signal current in each respective antenna rod.

2,352,217

INK FOUNTAIN FOR ROTARY INTAGLIO PRESSES

Joseph E. Meyer, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware

Application December 3, 1941, Serial No. 421,433
15 Claims. (Cl. 101—157)



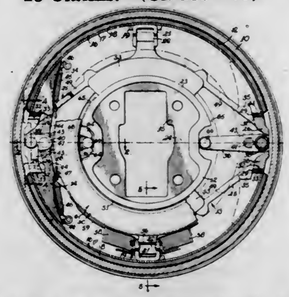
1. In an enclosed ink fountain for a design cylinder, a base, a back frame secured thereto, a carriage reciprocable on the back frame, a doctor frame hinged to the carriage, means for swinging the doctor frame to its wiping position, and longitudinally adjustable hooks mounted to swing on the doctor frame to engage the carriage, for removably locking the doctor frame to the carriage in its wiping position.

2,352,218

BRAKE

John George Oetzel, Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill., a corporation of Illinois

Application April 4, 1941, Serial No. 386,775
13 Claims. (Cl. 188—78)



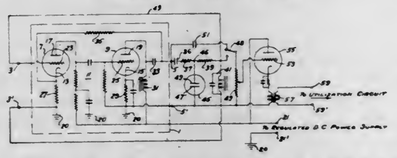
1. A brake having, in combination, a rotatable drum, an expansible friction element extending around the internal drum surface and having inner and outer surfaces on its ends spaced apart both radially and circumferentially of the drum with the inner surfaces on the different ends disposed generally radially and closer together than the outer surfaces, anchoring means abutting against said outer surfaces, a crank swingable about a fixed pivot disposed between said outer surfaces outwardly beyond said inner surfaces and adjacent said drum surface, and surfaces on opposite sides of said crank intermediate the ends thereof facing circumferentially in opposite directions and engageable with either of the inner end surfaces one at a time to move such end circumferentially of the drum and away from its abutment.

2,352,219

VIBRATION MEASURING SYSTEM

Raymond C. Olesen, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application October 7, 1941, Serial No. 413,937
7 Claims. (Cl. 250—36)



1. In an oscillator, an amplifier having an input and an output, a tuned circuit and two impedances connected in series across said output, a signal amplitude limiting tube connected in parallel with one of said impedances and said tuned circuit, and means for applying signals appearing in the tuned circuit to the amplifier input.

2,352,220

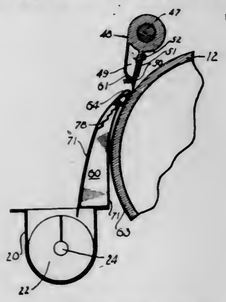
DEHYDRATING MACHINE

Glen Overton, Dowagiac, Mich., assignor to Louisville Drying Machinery Company, a corporation of Kentucky

Application November 28, 1941, Serial No. 420,776
17 Claims. (Cl. 34—13)

16. The method of simultaneously cooling and removing film from a heated drum which com-

prises scraping the film from the drum, directing cool air under pressure toward the operative edge of the scraper and toward the junction of the surface of the drum with the juxtaposed sur-



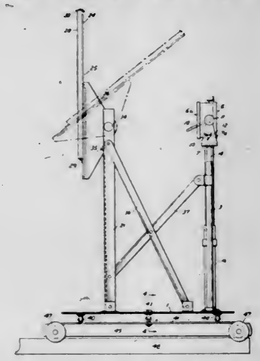
face of the film to maintain the scraper in a clean condition and to cool the film, and shielding the drum from said cooled air with said scraper.

2,352,221

PHOTOGRAPHIC STAND

Herbert L. Phillips, Watertown, Mass.

Application June 2, 1943, Serial No. 489,355
4 Claims. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A combination photographic stand comprising a base, a platform rotatably mounted on said base for movement about a vertical axis, a magnetic member pivotally mounted on one side of said platform for movement about a horizontal axis, said magnetic member having at least one planar holding surface, and a copying frame pivotally mounted on the other side of said platform for movement about a horizontal axis whereby rotation of the platform on the base will successively bring said chuck and said copying frame into the sighting axis of a camera.

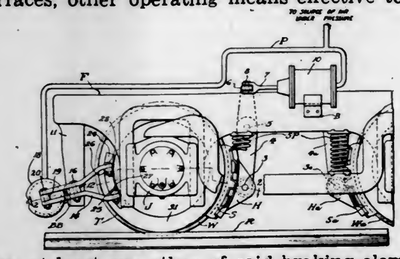
2,352,222

BRAKING APPARATUS

Robert B. Pogue, Orange, and Maurice N. Trainer, East Orange, N. J., assignors to American Brake Shoe Company, a corporation of Delaware

Application February 9, 1942, Serial No. 430,123
16 Claims. (Cl. 188—33)

1. In a braking couple including a rotary member to be decelerated that embodies a plurality of braking surfaces, a plurality of braking elements, means supporting said elements for engagement with said braking surfaces, one of said braking surfaces being afforded on the peripheral face of said member and other of said braking surfaces being respectively afforded on the axially inner and axially outer faces of said member adjacent the peripheral face thereof, operating means effective to engage at least one of said braking elements with one of said braking surfaces, other operating means effective to en-



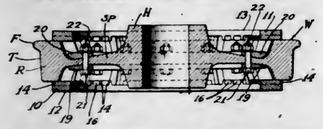
gage at least one other of said braking elements with at least one other of said braking surfaces, and means for rendering said operating means operative simultaneously to thereby effect deceleration of said member, the relation among such surfaces and the engagement of the elements therewith being such that the heat dissipated in a deceleration induced as aforesaid will be relatively uniformly distributed in the portion of said member adjacent said surfaces.

2,352,223

BRAKING APPARATUS

Maurice N. Trainer, East Orange, N. J., assignor to American Brake Shoe Company, a corporation of Delaware

Application February 9, 1942, Serial No. 430,124
10 Claims. (Cl. 188—264)



1. In a wheel for use on railway or like equipment and including a rim portion having a tread thereon, a substantially annular member providing a braking surface and secured against a side face of the rim portion with the periphery thereof spaced inwardly of the tread on said wheel, a plurality of spaced apart elements of restricted size interposed between adjacent faces of said member and said side face and affording restricted paths for heat transmission, said elements being spaced one from the other whereby a plurality of channels extended substantially radially of the wheel are afforded and through which air may flow during rotation of the wheel to assist in the dissipation of heat generated as an incident to a deceleration effected by the application of a braking element to said braking surface, bracket means including portions extended axially inwardly from said annular member at spaced apart positions along the extent thereof, and means for detachably securing said bracket means to said wheel to thereby detachably secure said annular member to said wheel.

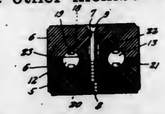
2,352,224

ELECTRICAL CONNECTOR

Felix Orville Read, Houston, Tex.

Application July 29, 1942, Serial No. 452,770
3 Claims. (Cl. 173—340)

2. An electrical connector comprising a pair of complemental members of insulation material having a pair of grooves in their opposed faces, a pair of conductors of ribbon construction embedded in one member, each conductor having angularly bent ends provided with sharpened edges to form contacts projecting transversely in each groove to form jumpers, and a single jumper in the other member arranged with its



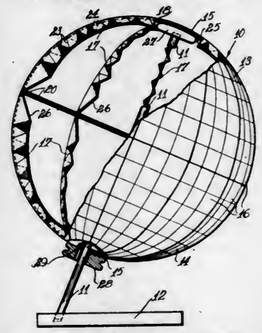
contacts spaced between the contacts of said pair of jumpers when the members are secured in assembled relation whereby the contacts of one member will bite into and force an electric wire placed in the grooves against the contacts of the other member to produce an effective connection.

2,352,225

MAP, GLOBE, AND GLOBE CONSTRUCTION

Charles E. Riddiford, Washington, D. C.

Application August 22, 1942, Serial No. 455,804
17 Claims. (Cl. 35—46)



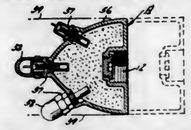
1. A globe comprising a plurality of gores defining areas between longitudinal lines of the globe, each of said gores having impressed matter thereon and said gores adapted to be positioned in edge abutting relationship to bring corresponding impressed matter on the gores in alignment, and continuous reinforcing web elements interconnecting the gores extending substantially throughout the length of their lateral edges so as to bring said lateral edges into abutment with the impressed matter on successive gores in alignment in the erection of the globe.

2,352,226

MINE

Adolph Ronning, Minneapolis, Minn.

Application March 2, 1940, Serial No. 321,886
5 Claims. (Cl. 102—17)



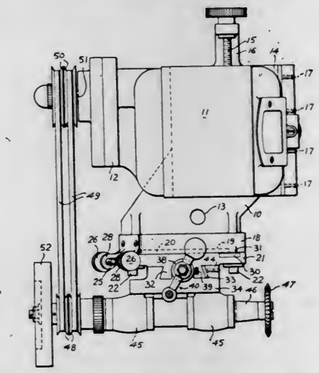
2. An explosive device for launching through a tubular launching means, comprising a body of cylindrical shape to fit said tubular launching means, detonating means located on the body in such position as to clear the launching means as the body passes therethrough, and means mountable over said detonating means for protecting the same prior to launching, and said last mentioned means when in place being adapted to project from the body in such manner that they will contact the launching means and prevent launching of the body.

2,352,227

THREAD MILLING ASSEMBLY

Albert Sarossy, West Orange, N. J.

Application September 25, 1942, Serial No. 459,637
4 Claims. (Cl. 90—17)



1. In a thread milling assembly of the class described including a power-driven spindle carrying a milling cutter at one end for milling threads on a work-piece held in a lathe, means supporting said spindle for vertical and angular adjustments of the milling cutter relative to the work-piece, comprising a horizontal base plate adapted to be secured to the lathe compound and terminating at one end in a vertical bracket, a disc-like turn block mounted for limited circular movement on the outer face of said bracket in parallel relation with the latter, mutually cooperating means on said bracket and block, respectively, operable to turn said block in either direction relative to said bracket, a bearing block parallel to said turn block and dovetailed to the outer face of the latter for vertical movement, a vertical adjusting screw carried by said bearing block and in threaded engagement with said turn block operable to raise and lower said bearing block relative to said turn block, and a pair of bearings integral with said bearing block on the outer face of the latter and disposed on opposite sides, respectively, of the vertical center line of the block, rotatably supporting the spindle intermediate the ends of the latter.

2,352,228

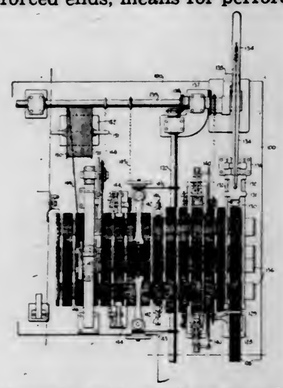
CATAMENIAL BANDAGE MAKING MACHINE OR THE LIKE

Louis Schulman, Brooklyn, N. Y., assignor of one-third to Maxwell E. Sparrow, New York, N. Y.

Application February 18, 1939, Serial No. 257,117
10 Claims. (Cl. 154—29)

1. In a catamenial bandage making machine wherein absorbent material is fed, cut and deposited on gauze material and the gauze material folded over the cut absorbent material, the combination of means for gripping the folded gauze, means for moving the gripping means to draw the folded gauze a predetermined distance for a cutting operation, means for cutting a predetermined length of said folded gauze for producing a catamenial bandage, means for depositing adhesive on said bandage adjacent the ends there-

of, means for folding over the ends of said bandage upon itself, means for pressing down said folded ends with the adhesive therebetween to form reinforced ends, means for perforating said

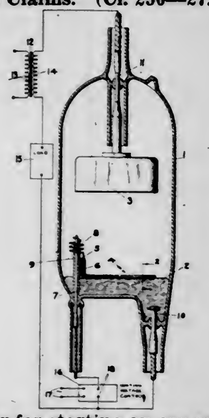


bandage through said reinforced ends, means for depositing a predetermined length of tape upon said bandage, and means for folding end portions of said bandage transversely over its intermediate portion and said tape.

2,352,229
COMPOSITION CONTAINING ANTIOXIDANT
Sol Shappirio, Washington, D. C.
No Drawing. Application October 14, 1940, Serial No. 361,151
8 Claims. (Cl. 260—398.5)

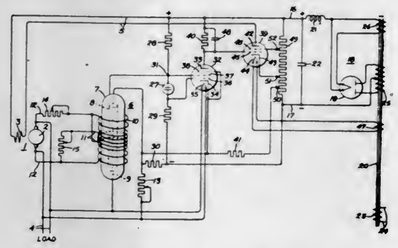
1. A composition containing a glyceride subject to oxidative deterioration, and a fatty acid chemically combined with a betaine as an antioxidant.

2,352,230
ARC STARTING ELECTRODE AND METHOD OF FORMING SAME
Percy L. Spencer, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 18, 1942, Serial No. 431,393
13 Claims. (Cl. 250—27.5)



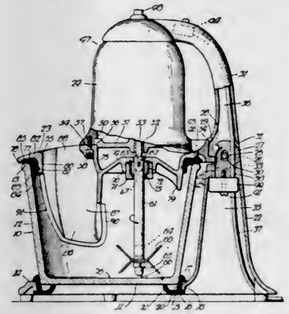
1. An igniter for starting an arc spot on a cathode pool comprising a core and a layer of discrete particles of insulating material arranged on said core between said core and the cathode pool and forming restricted interstices therebetween.

2,352,231
ELECTRIC VALVE CONTROL CIRCUIT
Jerry L. Stratton, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 24, 1941, Serial No. 420,201
13 Claims. (Cl. 250—27)



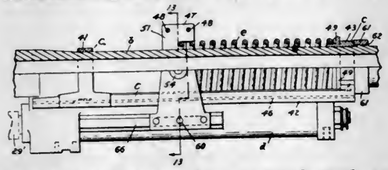
1. In combination, a low-voltage, low-impedance electric circuit, an electric discharge device of the type comprising an anode, a cathode and electromagnetic control means connected to said electric circuit, said control means comprising a winding for producing a magnetic field which controls the current transmitted between said anode and said cathode, a second electric circuit, a source of current, a second electric discharge device of the high-vacuum type for controlling the eneregization of said second circuit and having an anode-cathode circuit connected to said second electric circuit and having a grid for controlling the conductivity thereof, and a high-impedance circuit connected to said grid for controlling the potential thereof and including means connected to said anode and said cathode of the first-mentioned electric discharge device.

2,352,232
FOOD MIXER
Alfred Strauss, Chicago, Ill., assignor to A. F. Dormeyer Mfg. Co., a corporation of Illinois
Application January 16, 1940, Serial No. 314,109
18 Claims. (Cl. 146—68)



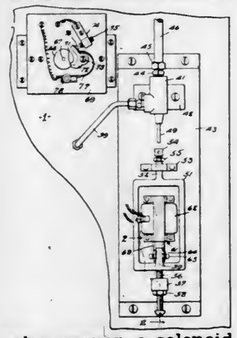
1. A food processing device comprising a base, a bowl, resilient means for supporting the bowl upon the base, a support, a motor and cover assembly pivoted to the support, a power line switch for said motor operated automatically in relation to the relative pivotal movement of the assembly and the support, universal sealing means upon the assembly for engaging the top of the bowl in sealed and motor supporting relationship in any one of a plurality of relative positions, and a detachable food processing tool disposable in the bowl and driven from the motor.

2,352,233
RECOIL APPARATUS
William Summerbell, Watervliet, N. Y., and Richard H. Mason, Havre de Grace, Md.
Application April 11, 1942, Serial No. 438,518
11 Claims. (Cl. 89—43)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



10. In a recoil apparatus, a gun barrel, a portion fixed relative to the barrel, a fluid control cylinder having operative connections with said barrel, a sleigh upon which the barrel is slidably mounted, a spring seat carried by and slidable on the barrel and in engagement with said sleigh, a spring seat carried by said fixed portion, and a recuperator spring surrounding the barrel with its ends in engagement with said seats.

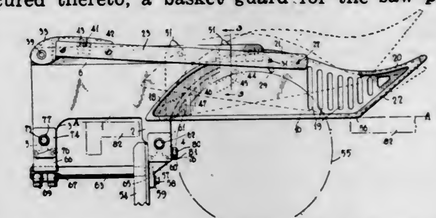
2,352,234
SAMPLING MACHINE
Clair V. Swearingen, Chattanooga, Tenn.
Application July 7, 1941, Serial No. 401,396
5 Claims. (Cl. 175—341)



1. In a valve opener, a solenoid magnet comprising a winding and an armature responsive to the energization and deenergization of the winding and mounted for straight-line upward and downward reciprocation, a hammer external to the armature and mounted for straight-line upward and downward reciprocation in a direction substantially parallel to that of the armature, and a mechanical, vertically-effective lost-motion connection between the armature and the hammer and permitting the hammer to rise, at first responsive to the upward movement of the hammer, and then independently of the hammer, to impart an abrupt valve-opening tap before the armature has reached the limit of its upward movement.

2,352,235
SAW GUARD
Herbert E. Tautz, Englewood, Colo., assignor, by mesne assignments, to Delta Manufacturing Company, Milwaukee, Wis., a partnership consisting of Marshall Field, Charles G. Cushing, and H. Campbell Stuckeman
Application September 10, 1941, Serial No. 410,326
7 Claims. (Cl. 143—159)

1. In combination with a saw table and saw supporting mechanism, a guard comprising a splitter, said splitter having two stiffening members, one extending along each face of the splitter at the upper edge portion thereof and secured thereto, a basket guard for the saw piv-



otally mounted on the splitter adjacent the rear end thereof and having side walls, and a guide for said basket guard supported by the front ends of said stiffening members and slidably coacting with the side walls of said basket guard.

2,352,236
TREATMENT OF HYDROCARBONS
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 31, 1941, Serial No. 386,121
2 Claims. (Cl. 196—39)

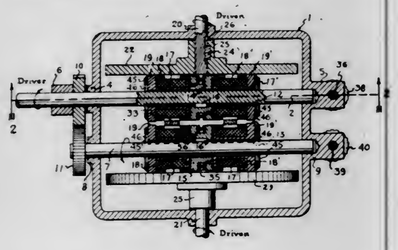
1. A process for the conversion of hydrocarbon oils containing nitrogenous catalyst poisons which comprises treating the oil with anhydrous hydrogen chloride to precipitate catalyst poisons, separating the resultant precipitate from the oil, and subjecting the latter to catalytic cracking in the presence of a siliceous cracking catalyst.

2,352,237
CAST ARTICLE AND METHOD OF MAKING
Frederick K. Vial, Chicago, Ill., assignor to Griffin Wheel Company, Chicago, Ill., a corporation of Massachusetts
Application April 1, 1940, Serial No. 327,207
14 Claims. (Cl. 75—130)



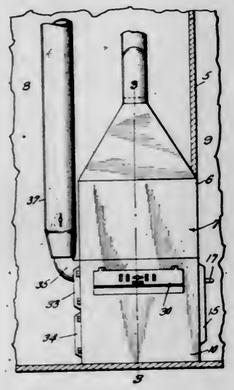
1. A method of controlling and restricting to a predetermined width the band of mottle between the gray iron sand-cast body portion and the metal chilled white iron portion of an iron casting without appreciably affecting the physical properties of either of said portions when the region of said mottle has a cooling rate of less than 100° F. per minute, comprising the steps of providing molten iron having a silicon content of less than one per cent and introducing into said molten iron in a pouring operation a mixture of tellurium and graphite in atomic weight ratio between 1:70 and 1:700, without substantially altering the chill depth which would be produced by casting said iron under the same conditions without adding said mixture.

2,352,238
MAGNETIC TRANSMISSION
Nathaniel B. Wales, Detroit, Mich.
Application July 17, 1943, Serial No. 495,221
5 Claims. (Cl. 74—195)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



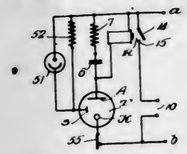
1. A transmission comprising a drive shaft, an electromagnet rotatably mounted thereon and having a circular peripheral portion, a rotatably mounted driven member adapted for engagement with said portion, a driving element permanently rotatable with said shaft and disposed adjacent to said electro-magnet, and means for exciting said electro-magnet to attract said driven member and driving element thereto under driving pressure.

2,352,239
KITCHEN RANGE
Bond C. White, Bellefonte, Pa.
Application December 26, 1941, Serial No. 424,509
1 Claim. (Cl. 126—1)



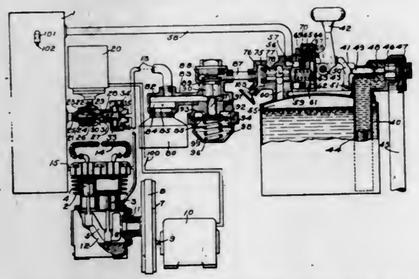
In combination, a range and a partition wall having front and back sides and adapted to divide two rooms, said wall having an opening therein, said range having its front side extending through said opening in said wall and flush with said wall so that the front side of the range is accessible at the front of said wall while the back part of the range extends rearwardly from the back side of said wall, side walls and a back wall rising from said range, and a fume removing canopy above and extending from the side and back walls to form therewith an enclosure open at the front side and accessible through said opening.

2,352,240
ELECTRONIC APPARATUS
William F. Wolfner, II, Methuen, Mass., assignor to Photoswitch Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application May 19, 1941, Serial No. 394,232
2 Claims. (Cl. 250—41.5)



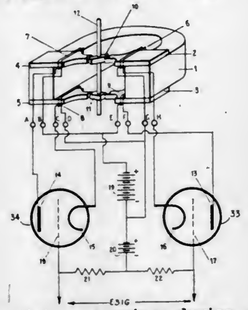
1. Electronic relay apparatus comprising an alternating current source, a gas filled electron discharge tube having a cold cathode connected to one and an anode connected to the other terminal of said source and a starter anode causing said tube to become conductive when the control values of both potential difference, and current flowing, between said cathode and said starter anode exceed predetermined starting values respectively, a controlled circuit including means responsive to the conductivity of said tube connected to said source in series with said anode and said cathode, a controlling circuit including a normally high control impedance connected between said anode terminal and said starter anode and a comparatively low impedance parallel to said control impedance, said controlling circuit normally maintaining said potential control value and retaining said current control value below its starting value, and means for raising said current control value above its starting value by decreasing said control impedance and increasing the current flowing therethrough from said source.

2,352,241
HOIST CONTROL MECHANISM
Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 31, 1941, Serial No. 404,859
8 Claims. (Cl. 60—51)



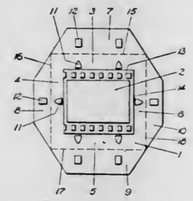
1. In combination, a first reservoir adapted to be charged with compressed air, an air compressor having its inlet connected to an inlet pipe and having its discharge open to said reservoir and adapted to receive air from said inlet pipe and to compress same into said reservoir, a governor device for controlling said compressor and normally responsive to the pressure of air in said reservoir and operative upon an increase in such pressure to a desired degree to stop said compressor and upon a reduction in the pressure in said reservoir to a desired lower degree to start said compressor, said inlet pipe having a communication with the atmosphere, a check valve in said communication arranged to provide for flow of air from the atmosphere to said inlet pipe and adapted to be operated by pressure in said pipe to close said communication, a second reservoir adapted to be charged with compressed air at a pressure not exceeding that in said first reservoir, valve means operative to open communication between said second reservoir and said inlet pipe to provide for flow of compressed air from said second reservoir to the inlet of said compressor, and means controlled by the pressure in said inlet pipe and operative when the pressure therein is increased to a chosen degree above that of the atmosphere to effect operation of said governor device to cause said compressor to operate regardless of the pressure in said first reservoir.

2,352,242
POTENTIAL RECORDING MARKER
Maurice Apstein, Brooklyn, N. Y.
Application February 14, 1941, Serial No. 378,949
4 Claims. (Cl. 171—95)



1. A potential measuring device comprising, in combination, a magneto-motive driving mechanism including a horseshoe magnet, pairs of pole pieces mounted in spaced-apart relation on each pole of said magnet, two opposing pole pieces being arranged in one plane and the other two opposing pole pieces being arranged in a parallel plane, said opposing pole pieces having gaps between them, a shaft mounted for oscillatory movement intermediate said pole pieces, a pair of permeable armatures mounted on said shaft, said armatures being in relative angular relation with each other, said armatures being positioned in said gaps between said opposing pairs of pole pieces and lying in said parallel planes, each pole piece having an enclosing actuating coil, the coils on one side of said shaft being interconnected in series, the coils on the other side of said shaft being interconnected in series, vacuum tube amplifiers, a source of electric energy connected with said amplifier tubes, said pairs of coils in series being connected with the output circuits of their respective amplifiers, a biasing battery connected with each of said amplifier tubes to control the current flow in said amplifier tubes, a pair of resistors in said respective grid circuits of said amplifier tubes, whereby a potential applied to said grid circuits causes a change in the current flow of said tubes, said current causing a decrease in the magnetic flux in one of said opposed pairs of pole pieces and a corresponding increase in the magnetic flux in the other opposed pair of pole pieces, said change in the magnetic flux resulting in a strengthening of the torque on one armature and a weakening of the torque on the other armature during one-half of the input alternating current cycle and vice versa during the other half of said cycle.

2,352,243
TRANSPARENCY MOUNT
Harold Scott Baldwin, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application November 26, 1941, Serial No. 420,517
5 Claims. (Cl. 88—26)



1. A mounting for a transparency made from a single piece of material having an aperture in the approximate center thereof, a solid central frame composed of a plurality of sides, a plurality of flaps extending from said sides foldable over onto their appendant sides so that when folded over there is a pair of parallel contacting members along the sides of said aperture, at least one struck-up portion projecting from one of each pair of said contacting members, the other member of each pair having a number of punched areas to allow said struck-up portions to project therein.

2,352,244
TEXTILE MATERIAL
Angus Smith Bell and William Campbell Angus, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 5, 1942, Serial No. 433,468. In Great Britain March 13, 1941
12 Claims. (Cl. 57—157)

1. Process for the production of yarn of high voluminosity, said process comprising spinning together two kinds of staple fibres, one of which is made from filaments of an organic derivative of cellulose and the other from cellulose filaments, and then treating the resulting yarn, prior to incorporation into a fabric, with an organic shrinking agent for the first-mentioned component.

2,352,245
TEXTILE MATERIAL AND THE PRODUCTION THEREOF
Angus Smith Bell and William Campbell Angus, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 10, 1942, Serial No. 434,066. In Great Britain March 13, 1941
10 Claims. (Cl. 28—76)

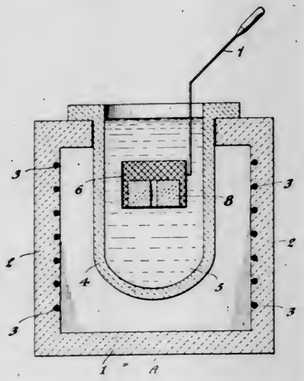
1. Process for the production of fabrics of full or voluminous character, said process comprising spinning together into a yarn two varieties of staple fibre, one of which is made from filaments of highly polymeric esters or ethers and the other from cellulose filaments, forming said yarns into a fabric, and treating the fabric with an organic shrinking agent for the first-mentioned fibrous component, said organic shrinking agent having substantially no shrinking effect on the other fibrous component.

2,352,246

METHOD OF MAKING ABRASIVE ARTICLES

Raymond C. Benner and William G. Soley, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application November 7, 1941, Serial No. 418,134
5 Claims. (Cl. 51—293)



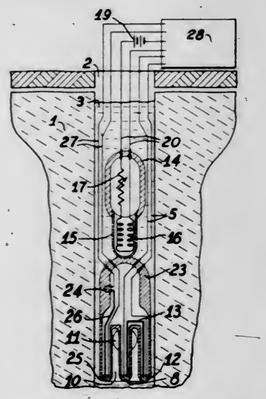
1. The method of forming metal-bonded abrasive bodies, which comprises preparing a mixture of metal powder and abrasive grit, compressing said mixture to the desired shape, and submerging the compressed shape in a molten salt bath to heat and sinter the metal powder, thereby to form a cemented metal matrix containing the abrasive grit.

2,352,247

THERMAL WELL-LOGGING

Ludwig W. Blau and George E. Cannon, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 4, 1938, Serial No. 211,726
3 Claims. (Cl. 73—51)



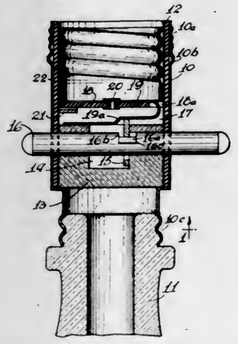
1. A method for determining the nature of substrata traversed by a borehole filled with a fluid which comprises measuring the horizontal temperature gradient between the center and the wall of the borehole at successive points along the borehole.

2,352,248

LAMP SOCKET AND SWITCH CONSTRUCTION

Carl Bramming, Anderson, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois

Application June 11, 1942, Serial No. 446,562
14 Claims. (Cl. 200—51.16)



1. In an electric lamp socket, the combination of a tubular shell, a cylindrical base of insulating material in the lower end of said shell, said base having a channel opening through and extending across its upper end and having also a cubical recess below and opening into said channel, an operating rod of insulating material extending laterally through said shell and said base and also through said recess for reciprocable movement, a disk of insulating material on the upper end of said base, a switch spring mounted on said disk and extending longitudinally of said channel and adjacent the bottom thereof, a contact plate supported by said base and crossing said channel above the free end of said switch spring and spaced from said free end for the open condition of the switch, said switch spring having a vertically operable cam portion above said recess, and a rectangular operating plate vertically disposed in said recess and having an aperture therethrough containing said operating rod, said operating plate extending into said channel to engage and operate said cam portion, and said operating rod having shoulders for engaging and moving said operating plate through said recess, whereby longitudinal movement of said operating rod moves the free end of said switch spring into contact with said contact plate and permits spring movement of said free end away from said contact plate as desired to control the closing and opening of the switch.

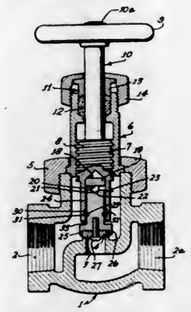
2,352,249

VALVE

Robert L. Briggs, Jr., Pasadena, Calif.

Application February 1, 1941, Serial No. 377,023
9 Claims. (Cl. 251—46)

1. A valve comprising a body having fluid chambers, a passage between the chambers, and a valve seat in the passage, a valve stem having a cylindrical bore and threadedly supported in connection with the body to advance and retract toward and from the seat, a swivel member rotatably mounted within the bore of the stem and carrying an element at its lower end for closing engagement with the seat, and a thrust bearing at the upper end of the swivel member comprising a ball rigidly fixed in the upper end of the swivel member, and a complementary bearing member positioned in the bore of the



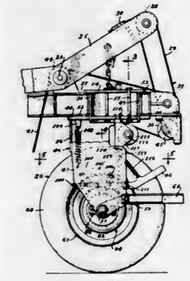
valve stem at the upper end thereof for engagement with the ball, the ball and the bearing member being made of a relatively hard material.

2,352,250

TRACTION POWER OPERATED WINCH

Max M. Brodersen, Alhambra, Calif., assignor to The Slusser-McLean Scraper Company, Sidney, Ohio, a corporation of Ohio

Original application May 27, 1940, Serial No. 337,466. Divided and this application June 22, 1942, Serial No. 447,908
7 Claims. (Cl. 254—166)



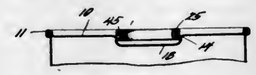
1. In a vehicle adapted to be drawn over the ground surface, a carriage of the caster type for supporting said vehicle, wheel means in said carriage, a cable winch supported within said carriage a cable wound on said winch, and means for selectively connecting said winch to the wheel means for winding said cable by the rotation of said wheel.

2,352,251

VALVED CONTAINER

Amos Calleson and Edgar A. Calleson, Merrick, N. Y., assignors, by mesne assignments, to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 8, 1940, Serial No. 323,014
4 Claims. (Cl. 220—24)



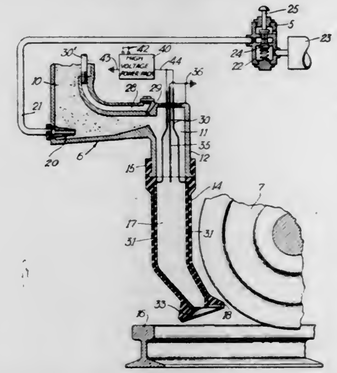
1. A container having a closure provided with an opening for the introduction of a processing medium after the container has been filled, said opening being bounded by an annular seat, and a supplemental closure in the opening, said supplemental closure comprising a hollow, upwardly opening, sheet metal plug disposed loosely in the opening and providing a space between the plug and the opening for the introduction of said medium, said plug having an outwardly flaring lower end disposed in spaced, non-sealing relation under the seat to permit the introduction of the processing medium and an outwardly and downwardly curled upper end above said seat, whereby said supplemental closure may be drawn into permanently closed relation to said seat by inserting a tool into the hollow interior of the plug and curling the upper end thereof downwardly against the upper surface of the valve seat.

2,352,252

SANDING CONTROL MEANS

John Canetta, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application October 31, 1941, Serial No. 417,265
16 Claims. (Cl. 291—41)



8. In a rail sanding apparatus, in combination, conduit means including an insulated portion through which loose sand can be conducted to the rail, electrostatic means mounted within said conduit means in the path of sand passing therethrough, other electrostatic means supported by said conduit means and disposed in close proximity to said rail, an electrostatic power source constructed and arranged to impress high unidirectional voltage on both said electrostatic means, whereby a corona discharge is generated in said conduit means and also between said other electrostatic means and said rail, and fluid pressure means operative to blow sand through said conduit means toward said rail.

2,352,253

PURIFICATION OF ALIPHATIC ACIDS AND ANHYDRIDES

Frank O. Cockerille, Albemarle County, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 21, 1941, Serial No. 384,580
4 Claims. (Cl. 260—546)

1. A process for purifying aliphatic acid anhydrides which comprises adding a relatively small amount of sulfuric acid to a relatively large amount of impure aliphatic acid anhydride in two stages, heating the reaction mixture in the

first stage to a temperature between 60° C. and the boiling point of the anhydride, maintaining the temperature in the second stage below 60° C., thereafter adding a salt from the group consisting of alkali and alkaline earth metal salts of the acid corresponding to the anhydride, in amount sufficient to neutralize all traces of mineral acid in the reaction mixture, and distilling said reaction mixture whereby to separate the aliphatic acid anhydride in substantially pure state.

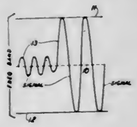
2,352,254

FREQUENCY MODULATED WAVE TRANSMISSION

Harold E. Curtis, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 23, 1943, Serial No. 495,914

9 Claims. (Cl. 179—78)



1. In a carrier wave signal transmission system, means to produce frequency modulated waves for transmission, said means including modulating means controlled jointly by the signal that is to be transmitted and by a pilot wave having a different frequency from the signal and having an amplitude varying in complementary fashion to the signal amplitude.

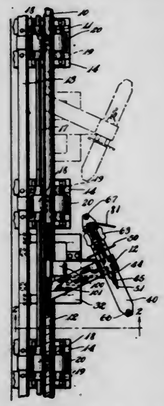
2,352,255

APPARATUS FOR SPOOLING WRAPPINGS

Edward A. Davis, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application January 20, 1943, Serial No. 472,970

10 Claims. (Cl. 242—7)



1. Apparatus for spooling a wrapping from an article helically wrapped therewith, said apparatus comprising means for rotatably supporting the article, a rotatable spindle mounted for movement along the article, means for driving the spindle in one direction to wind a wrapping thereon, and means for arresting rotation thereof in the opposite direction, said arresting means comprising means for cushioning the arrest.

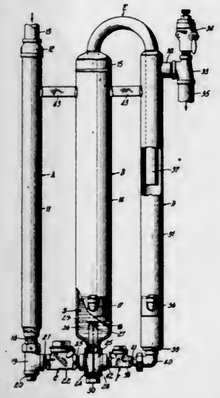
2,352,256

HYDRAULIC BACK-PRESSURE ARRESTER

Maurice P. De Motte, Indianapolis, Ind., assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application July 11, 1940, Serial No. 344,924

20 Claims. (Cl. 48—192)



7. A hydraulic back-pressure arrester comprising an inlet reservoir having an inlet, and an outlet below said inlet; a main reservoir having an outlet, and an inlet below said outlet, said main reservoir being adapted to contain liquid at a level intermediate said last-named inlet and outlet; a conduit communicating between the outlet of said inlet reservoir and the inlet of said main reservoir; a check valve in said conduit adapted to be closed by back pressure; a liquid trap having a gas outlet and a liquid outlet; a conduit communicating between the outlet of said main reservoir and said trap for conducting gas to the latter; a conduit communicating between the liquid outlet of said trap and said main reservoir for returning trapped liquid to the latter; a check valve in said last-named conduit for preventing the flow of liquid from said main reservoir to said trap, said check valve being adapted to permit the flow of fluid through said last-named conduit from said trap when the pressure on the side of said check valve toward said trap exceeds the pressure on the opposite side thereof; a screen in said main reservoir below the liquid level therein arranged so that gas from said first-named conduit will pass therethrough; means providing an opening in said arrester; a plug engaged in said opening; and a support member secured to said plug and to said screen, said screen and said support member being removable through said opening as a unitary assembly with said plug.

2,352,257

HARVESTER-THRESHER COMBINE

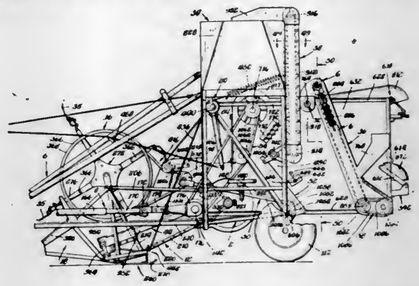
Walter R. Dray, Geneseo, Ill.

Application December 29, 1939, Serial No. 311,572

15 Claims. (Cl. 56—21)

1. In a harvesting-threshing machine, a frame, a threshing mechanism carried by the frame, a harvesting mechanism carried by the frame forwardly of said threshing mechanism, said harvesting mechanism comprising a header having opposed side walls and a bottom wall non-shiftable in the direction of crop movement, said bottom wall extending upwardly and rearwardly to said threshing mechanism, means carried by the header in advance of the bottom wall thereof for severing the crop, and crop-feeding means

carried by the header including swinging bars engaging the crop adjacent the forward end of



the header and carrying it rearwardly upwardly and along said bottom wall and in contact therewith to said threshing mechanism.

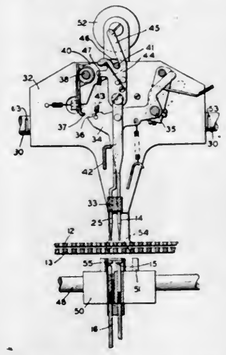
2,352,258

SORTER

John T. Ferry, Ilion, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application May 14, 1942, Serial No. 442,893

5 Claims. (Cl. 209—110)



1. In a machine of the class described for sorting perforated cards and having an analyzing head and a series of card-receiving pockets, the combination of means on said head to sense perforations in one column of said cards, means on the head to sense a predetermined number of perforations in the column of next higher order of said cards, Bowden wires associated with certain of said pockets and operated by the first mentioned sensing means to selectively deposit cards in said pockets in accordance with the perforations in said first column, and a Bowden wire associated with one pocket and operated by the second mentioned sensing means to deposit any cards containing perforations in said second column sensed by said sensing means in said pocket.

2,352,259

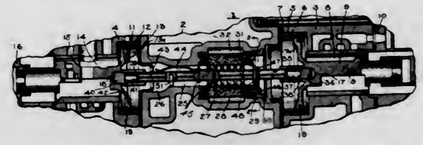
VALVE DEVICE

John N. Good, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application May 27, 1942, Serial No. 444,666

20 Claims. (Cl. 303—1)

1. In combination, a casing having a piston bore, a piston head mounted to reciprocate in said bore and having a valve operating piston stem, and pressure exerting means acting radially on



said piston head independently of said stem urging said head against the wall of said bore.

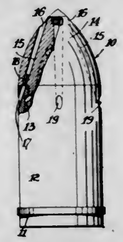
2,352,260

WHISTLING PROJECTILE

Victor George Herman, New York, N. Y.

Application October 15, 1941, Serial No. 415,014

7 Claims. (Cl. 102—92.5)



1. In a projectile having a body of generally cylindrical contour, at least one air passage within said body being open at both ends and communicating at said ends with the exterior, and means producing a whistling sound arranged within said projectile body and combined with said air passage within said body in such a manner as to produce a whistling sound during the flight of said projectile.

2,352,261

METHOD OF PREPARING DICARBOXYLIC ACID ESTERS

Gordon D. Hiatt and John Emerson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 17, 1941, Serial No. 411,198

6 Claims. (Cl. 260—225)

1. A method of preparing dicarboxylic acid esters of cellulose derivatives which comprises heating a mixture essentially consisting of a dicarboxylic acid anhydride having a melting point of less than 180° C. and a compound selected from the group consisting of the cellulose esters and the cellulose ethers, each having free and esterifiable hydroxyl groups to a temperature between the melting temperature of the anhydride and 180° C.

2,352,262

ANGLE DRIVE

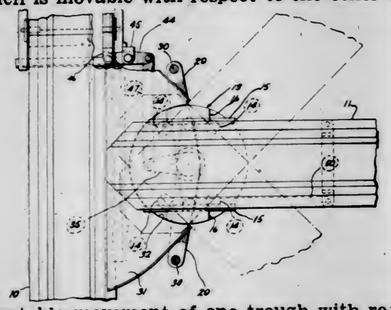
John H. Holstein, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application November 23, 1942, Serial No. 466,573

13 Claims. (Cl. 198—220)

1. In a shaker conveyer angle drive, a pair of conveyer troughs, one of which is arranged at an angle with respect to the other and which is horizontally adjustable with respect to the other, and means for driving one trough from the other

in substantially the direction of the longitudinal axis of the driven trough in all positions of longitudinal adjustment of said troughs with respect to each other including a bell crank, one arm of which is movable with respect to the other upon



adjustable movement of one trough with respect to the other, to maintain the arms of said bell crank in the same angular relation with respect to their associated troughs in all positions of horizontal adjustment of said troughs with respect to each other.

2,352,263

STABILIZATION OF VINYL ESTERS

Frederick Noel Hopper, Niagara Falls, N. Y., assignor to Niacet Chemicals Corporation, a corporation of New York

No Drawing. Application March 6, 1942, Serial No. 433,601

3 Claims. (Cl. 260—488)

1. Monomeric vinyl ester of a carboxylic acid inhibited against polymerization and development of excessive acidity by the addition thereto of diphenylamine in an amount about 0.01% to 0.1% by weight of the vinyl ester.

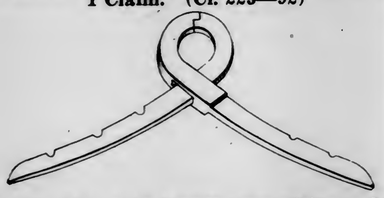
2,352,264

COAT HANGER

Osborne L. Horton, Baltimore, Md.

Application August 3, 1943, Serial No. 497,159

1 Claim. (Cl. 223—92)



A separable coat hanger comprising only two parts, each part including an elongated shoulder supporting member terminating at one end in a hook-like portion, one of said parts having a slot therethrough adjacent said hook-like portion, the free ends of the hook-like portions having projections adapted to interlock, said hanger parts being assembled by passing one part through said slot in the other part and interlocking said projections.

2,352,265

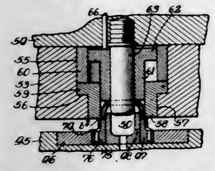
METHOD OF PRODUCING CUP WASHERS

Frank Kapple and Joseph F. Sikora, Chicago, Ill., assignors to Dunbar-Kapple & Company, Chicago, Ill., a partnership

Application August 21, 1942, Serial No. 455,670

4 Claims. (Cl. 10—86)

1. The method of producing a metal cup-washer, which comprises cutting a metal blank and forming it to bell shape and punching it in a single operation, and trimming off the outer lower end portion of the blank and subjecting it to axial forming pressure while restricting flow



of the metal radially of the blank in a second and single operation, thereby reducing the height of the blank and displacing and redistributing the metal thereof and forming the blank to the size and shape of the desired washer.

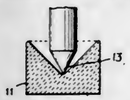
2,352,266

JEWEL BEARING AND METHOD OF MAKING SAME

George Keinath, Larchmont, N. Y.

Application April 8, 1942, Serial No. 438,113

10 Claims. (Cl. 308—159)



8. A jewel bearing comprising a jewel body of substantially pure fused quartz having an uncut peripheral surface, a cut bearing surface, a cut back surface, and a coating of relatively soft material covering only said peripheral surface.

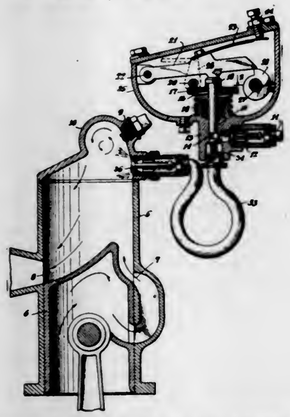
2,352,267

MOTOR

Cadwallader W. Kelsey, Troy, N. Y.

Application June 16, 1942, Serial No. 447,204

1 Claim. (Cl. 123—25)



In an internal combustion motor having a relatively movable piston and cylinder, a mechanism for injecting water vapor into said cylinder and substantially during the period when the combustible mixture within the same is burning, said mechanism being substantially independent of the fuel charge forming and conducting units of said motor and comprising a tube extending from a source of water supply to said cylinder, a member providing a chamber connected to said

tube intermediate its extremities, a plunger reciprocable within said chamber and extending beyond the same, a spring for normally retracting said plunger within said chamber, a hammer element adapted to strike against said plunger and to expell water from said chamber into said tube and through the latter into said cylinder, a spring cooperating with said element for projecting the latter into contact with said plunger, engine-driven means for periodically lifting said element out of contact with said plunger and thereupon freeing the former to strike against the latter as the engine operates in a predetermined manner, and means for automatically disconnecting said last named means upon said engine operating in reversed rotation.

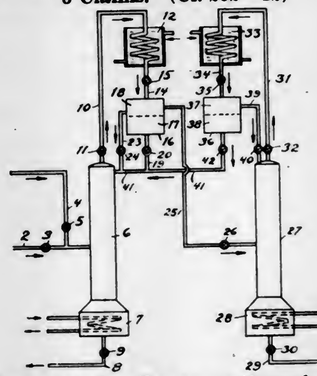
2,352,268

RECOVERY OF ETHYL CHLORIDE

Charles N. Kimberlin, Jr., Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 18, 1943, Serial No. 491,302

8 Claims. (Cl. 202—42)



1. A process for the separation of a butane-ethyl-chloride mixture into its component parts which comprises subjecting said mixture to an azeotropic fractional distillation with sulfur dioxide.

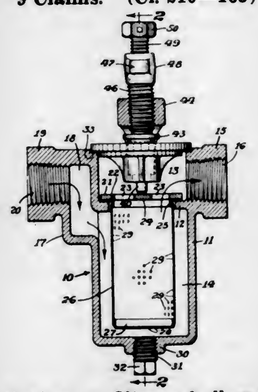
2,352,269

STRAINER AND FILTER

Frederick Kraissl, Jr., North Hackensack, N. J.

Application January 21, 1942, Serial No. 427,553

9 Claims. (Cl. 210—165)



1. In a strainer or filter, a hollow body having an inlet and an outlet, an opening formed in said body and having a sealing seat thereabout a strainer supporting ledge in said body between said outlet and said inlet, a strainer positioned on said ledge within said body and removable through said opening, a closure for said opening having a sealing face adapted to cooperate with said seat, means extending upwardly from said body, a bridge member detachably engaging said means, a shaft extending through said closure, a stuffing box on said closure for sealing said shaft thereto, a tubular member threadedly engaging said bridge member and adapted to exert pressure on said stuffing box and at the same time to maintain said closure in sealed relation to said body, and a threaded shaft mounted in said tubular member outside said body adapted to engage said first shaft and maintain said strainer in intimate contact with said ledge inside said body.

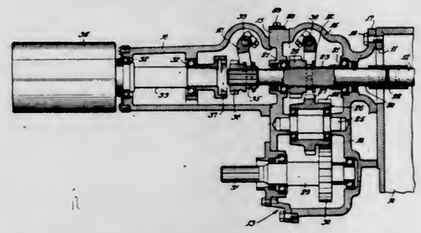
2,352,270

POWER TRANSMISSION MECHANISM

Harry A. Land, Chicago, and Alexander F. Bocksruker, Berwyn, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application August 1, 1942, Serial No. 453,176

9 Claims. (Cl. 74—11)



1. For a vehicle having a power source: an attachment unit providing a pair of power take-off connections, comprising a housing adapted to be secured to the vehicle, a driving shaft journaled in and substantially entirely enclosed by the housing and having a portion adapted for connection to the vehicle power source, a first driven shaft arranged coaxially with the driving shaft and journaled and enclosed in the housing, said shaft including a power take-off portion externally of the housing providing a first power take-off connection, disengageable driving means between the shafts including a pair of drive elements respectively on the shafts, a second driven shaft spaced from the first driven shaft and journaled and enclosed in the housing, said shaft having a power take-off portion externally of the housing, disengageable driving means between the driving shaft and the second driven shaft, control means for both disengageable driving means, and said control means including a single control lever manipulatable to selectively engage and disengage the disengageable driving means.

2,352,271

TELETYPEWRITER PAY STATION CIRCUIT

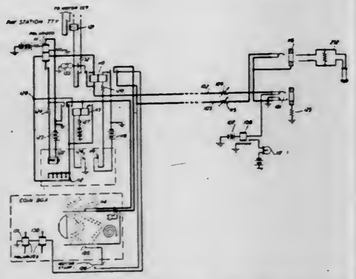
Wilmarth Y. Lang, Towaco, N. J., and Fred J. Singer, Rockville Centre, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 6, 1940, Serial No. 368,838

39 Claims. (Cl. 178—2)

10. In a teletypewriter switching system, in combination, a pay station telegraph circuit, a

first means in said circuit for generating direct current telegraph signals and a second means in



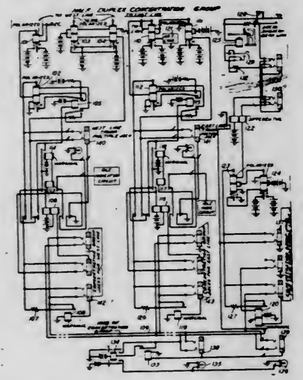
said circuit for generating individual signals to characterize coins of different denominations.

2,352,272

INVERSE NEUTRAL TELEGRAPH REPEATER CONCENTRATION GROUP CORD AND ATTENDANT'S CIRCUIT

Wayne V. K. Large, Glenwood Landing, Charles W. Lucek, Port Chester, and Tola A. Marshall, Floral Park, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 11, 1941, Serial No. 382,684
21 Claims. (Cl. 178—73)



1. In a telegraph switching system in combination, a hub type telegraph repeater concentration group comprising a plurality of telegraph circuits interconnected through hub type repeaters, a cord circuit, means in said cord circuit for forming an operable telegraph path through said cord and said concentration group, an attendant's teletypewriter circuit including means for communicating through said cord circuit to said concentration group.

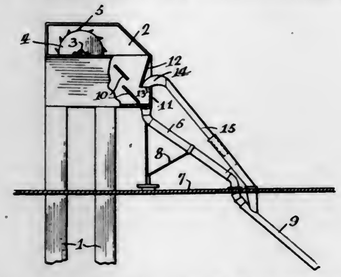
2,352,273

DUST REMOVER

Thomas Lessard, Eaglesham, Alberta, and William Mund, Wanham, Alberta, Canada

Application June 3, 1943, Serial No. 489,513
2 Claims. (Cl. 209—147)

1. In an elevator having a head, means for delivering grain to said head, a delivery conduit extending downwardly from said head at a point adjacent to a wall of said head, said wall having an inwardly sloped portion forming a horizontal opening, and a dust conductor extending from said opening, said conductor extending downwardly from said head and communicating with



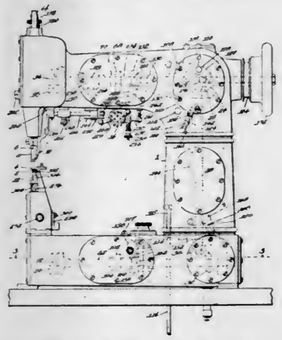
said conduit at an acute angle at a point remote from said head, the vertex of said angle being disposed away from said head and in the direction of flow in said conduit.

2,352,274

SEWING MACHINE

Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application June 17, 1941, Serial No. 398,368
35 Claims. (Cl. 112—34)



1. A shoe sewing machine having, in combination, work penetrating instruments including a needle and an awl, a sewing shaft and connections for actuating the needle and awl alternately to enter the work, said connections comprising an element movable to disconnect one of said instruments from the sewing shaft, and means for moving said element during the final sewing cycle of a seam as the other of said instruments completes the sewing cycle.

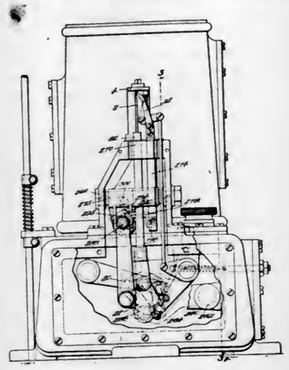
2,352,275

SEWING MACHINE

Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Original application June 17, 1941, Serial No. 398,368. Divided and this application May 25, 1942, Serial No. 444,355
3 Claims. (Cl. 112—56)

1. A shoe sewing machine having, in combination, a hook needle, a sewing shaft, mechanism for actuating the needle towards and from the work, mechanism including a carrier for imparting a work feeding movement to the needle while engaging the work, and a cast-off mounted in the carrier to move with the needle during feeding movement and operated by the work feeding



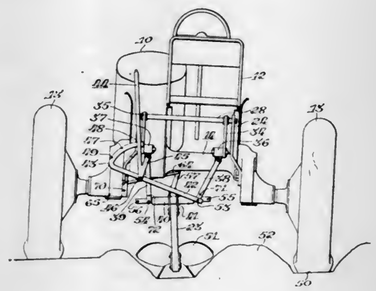
mechanism towards the work to cover the hook on the needle as the threaded needle withdraws from the work.

2,352,276

TRACTOR IMPLEMENT

Alexus C. Lindgren, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application February 23, 1940, Serial No. 320,462
1 Claim. (Cl. 97—47)



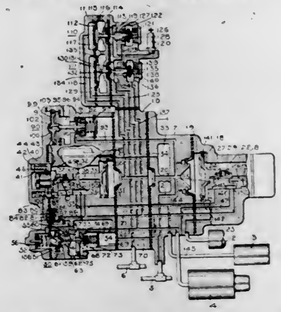
In combination, a tool-supporting structure having spaced wheels one of which is arranged to run in a furrow, a working tool, means for so connecting the working tool to the tool-supporting structure as to provide for simultaneous lateral and leveling adjustment of the same upon the working tool being laterally moved, and means for adjustably moving the working tool comprising a tool-lifting structure, links depending at their ends from said tool-lifting structure in spaced relation laterally of the tool-supporting structure and having pivotal connections at such ends with the tool-lifting structure to facilitate swinging of said links laterally of the tool-supporting structure, a tool-supporting member extending between and having pivotal connections with the other ends of said links to also facilitate the swinging thereof, and the lateral spacing of said links at the first-named ends being different than at said other ends, whereby upon lateral adjustment of the working tool the same will be leveled as well as laterally adjusted as when the one wheel is arranged to run in the furrow.

2,352,277

FLUID PRESSURE BRAKE

Glenn T. McClure, McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application September 29, 1942, Serial No. 460,045
12 Claims. (Cl. 303—23)



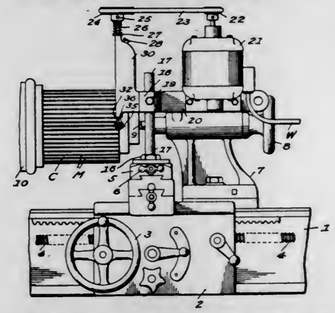
1. In the fluid pressure brake, in combination, a brake pipe, a brake cylinder device, a brake controlling valve device operative upon either a service or an emergency reduction in the pressure of fluid in said brake pipe to supply fluid under pressure to said brake cylinder device to effect an application of the brakes, a safety valve device operative to limit the pressure of fluid in said brake cylinder device, a spring, and means controlled by the opposing pressures of fluid in said brake pipe and of said spring for controlling communication between said brake cylinder device and safety valve device and operative by said spring upon an emergency reduction in brake pipe pressure to close said communication and operative by brake pipe pressure at all other times to open said communication.

2,352,278

APPARATUS FOR UNDERCUTTING COMMUTATORS

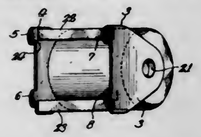
Everett R. Manley, Fairmont, W. Va.

Application July 30, 1941, Serial No. 404,725
2 Claims. (Cl. 90—11)



1. A commutator undercutting device comprising a post adapted to be detachably mounted on a movable carriage, a support adjustably mounted on said post, an electric motor attached to said support, a continuous vertical bearing sleeve on said support, a rotary shaft yieldingly mounted in said bearing sleeve provided with a milling cutter operable in a substantially horizontal plane on one end of said sleeve and a pulley on said shaft on the opposite end of said sleeve, and flexible transmission means extending between said motor and said pulley.

2,352,279
DETACHABLE SPOOL MOUNTING
Thomas O. Mehan, Park Ridge, Ill.
Original application May 25, 1939, Serial No. 275,662. Divided and this application October 30, 1941, Serial No. 417,157
3 Claims. (Cl. 242—55.2)

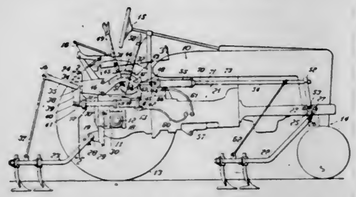


1. A paper roll support comprising a pair of end plates composed of thin easily distorted sheet material, oppositely aligned bosses on said plates near a margin thereof shaped for extending into an axial bore in a paper roll to form an axial support therefor, hook-shaped extensions on said plates for connection with a machine with which the roll is to be used, and rigid spacing elements of angle cross-section connecting said plates and positioned to clear the paper roll.

2,352,280
PRODUCTION OF WAX MODIFYING AGENTS
Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application April 15, 1939, Serial No. 268,019. Divided and this application May 9, 1941, Serial No. 392,736
4 Claims. (Cl. 252—59)

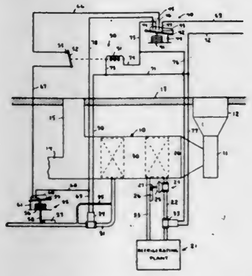
1. A product comprising a wax-containing mineral oil and a product obtained by reacting aromatic hydrocarbon with ethylene dichloride in the presence of Friedel-Crafts type catalyst to produce a resinous product, acylating the resultant product with an acylating agent whose acyl groups contain at least 6 carbon atoms per molecule.

2,352,281
WORKING TOOL ATTACHMENT
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 14, 1941, Serial No. 402,291
6 Claims. (Cl. 97—50)



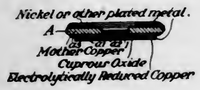
1. In combination, a tool-supporting structure, a working tool structure connected to the tool-supporting structure for movement from one position to another position, power means for moving the working tool structure including a power-actuated device having two connecting portions, means for connecting the power-actuated device to the tool-supporting structure for bodily adjustment including depending swingable link structures respectively connected to the connecting portions of the power-actuated device, and means for bodily adjusting the power-actuated device to effect adjustment of the working tool structure.

2,352,282
STAGE CONTROLLED AIR CONDITIONING SYSTEM
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 30, 1942, Serial No. 441,126
12 Claims. (Cl. 62—6)



1. In an air conditioning system, in combination, air cooling means comprising artificial refrigerating means, means comprising a heat exchanger having a source of fluid supply therefor, and means responsive to cooling requirements for first operating the heat exchanger alone, then operating the artificial cooling means alone, and then operating both the heat exchanger and the artificial cooling means in response to increasing cooling requirements.

2,352,283
ELECTRICAL RECTIFIER
Ralph Overholt, Jr., Dayton, Ohio, assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 28, 1942, Serial No. 444,787
10 Claims. (Cl. 175—366)

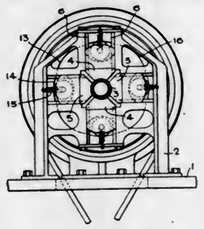


5. The method of making contact with the mother copper and with one oxide surface of a copper-cuprous oxide rectifier element which has been oxidized on both sides that comprises chemically treating the element to expose the mother copper at the edges of both sides of the element, masking the exposed edges and an adjacent area of the oxide surface on one side of the element, reducing the exposed oxide surface to copper, and plating the reduced copper surface with another metal.

2,352,284
TUBE STRAIGHTENING MACHINE
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1941, Serial No. 386,223
2 Claims. (Cl. 153—48)

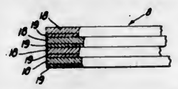
1. A tube straightening device comprising a supporting frame, elongated die blocks, means for supporting the die blocks in said frame with their longitudinal axes parallel and for movement into engagement with diametrically opposed sections of a tube to be straightened, the space between the die blocks being free from obstruction so as to permit a tube having curved portions to

be inserted between the die blocks, the tube contacting faces of the die blocks being shaped longitudinally and circumferentially to correspond to the normal diameter of the tube and to a normally straight section of said tube and of a length sufficient when contacting with the curved tube



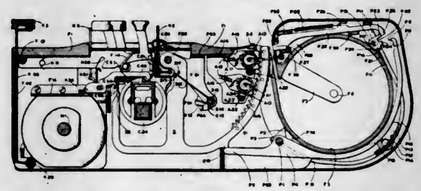
to force the curved sections of the tube into alignment with a normally straight section of the tube and means for moving the opposed die blocks into contact with curved portions and straight portions of the tube for forcing the curved portions of the tube into alignment with the straight portions thereof.

2,352,285
METHOD OF MAKING PHONOGRAPH RECORD STAMPERS
Barton A. Proctor, Larchmont, N. Y., assignor to B. A. Proctor Company, Inc., New York, N. Y., a corporation of New York
Application September 19, 1936, Serial No. 101,677
4 Claims. (Cl. 154—2)



1. In the fabrication of sound records, the method of forming a laminated stamper which comprises the steps of dispersing a finely divided metallic powder in a thermosetting plastic material, applying the plastic material containing the metallic powder to the surface of a sheet of soft, fibrous material to form a coating, and heating the treated sheet material to condition it to receive the impression of a sound track in the coated surface thereof.

2,352,286
CALCULATING MACHINE
David Y. Read, New York, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 25, 1938, Serial No. 242,345
17 Claims. (Cl. 235—60)

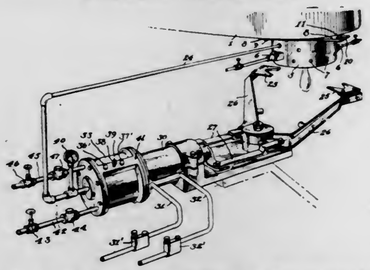


4. In a machine of the class described the combination of main operating mechanism for said machine, an accumulator, a plurality of accumulator-actuating elements; a plurality of rotatable members selectively settable to various positions of eccentricity operable by said main operating mechanism for differentially positioning said accumulator-actuating elements; means for displacing said last mentioned means from cooperation with said accumulator-actuating elements, and separate means for differentially positioning said accumulator-actuating elements when said rotatable members are displaced.

2,352,287
AMINOPHENOL DERIVATIVES
Verne H. Reckmeyer and August H. Brunner, Jr., Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 20, 1941, Serial No. 394,286
2 Claims. (Cl. 260—500)

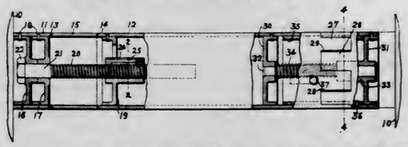
2. The reaction product of monomethyl-p-amino phenol with dry sulphur dioxide.

2,352,288
GLASS FEEDER
James W. Ross, Washington, Pa., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application November 27, 1941, Serial No. 420,723
8 Claims. (Cl. 49—55)



1. A glass feeder including a flow spout, a receptacle arranged beneath the flow spout and receiving glass therefrom, said receptacle having an orifice in its bottom through which the glass flows, shears arranged beneath said orifice for severing the glass charges, means for periodically operating the shears, means for periodically increasing and decreasing the pressure on the glass in said receptacle, and means causing said shear operating means to operate said means for increasing and decreasing the pressure on the glass.

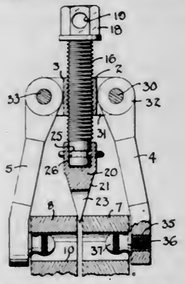
2,352,289
COMPRESSOR ROLL FOR TEXTILE MACHINES
Irving R. Rowe, Westerly, R. I., assignor to Davis & Furber Machine Company, North Andover, Mass., a corporation of Massachusetts
Original application June 10, 1943, Serial No. 490,252, now Patent No. 2,337,129, dated December 21, 1943. Divided and this application November 9, 1943, Serial No. 509,583
5 Claims. (Cl. 28—38)



1. A compressor roll for engaging and compressing the warp as it is wound on a beam having

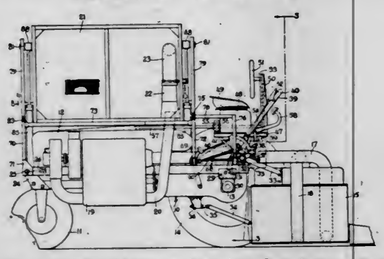
heads at each end which comprises a hollow cylinder presenting two main sections having complementary end elements, an auxiliary section having end elements to co-operate with those of the main sections when interposed between the main sections, and means located within the cylinder acting either to clamp together the two main sections or the two main sections and the interposed auxiliary section.

2,352,290
FLANGE SPREADER
Joseph Saul, Pasadena, and Carl E. Olsen and Joseph Arvid Peterson, Houston, Tex.; said Saul assignor to Gearench Manufacturing Company, Houston, Tex., a corporation of Texas
Application November 30, 1939, Serial No. 306,808
2 Claims. (Cl. 254—100)



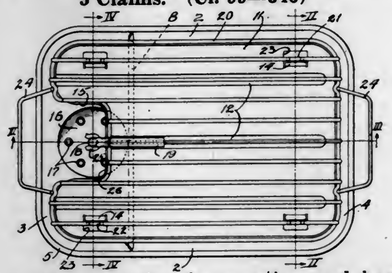
1. A flange spreader including a yoke shaped body, a spindle threaded thru the base of the yoke, a pair of spaced arms on said yoke to straddle the flanges to be spread, means to attach said arms to the flanges, and means on said spindle to penetrate between the flanges to spread them apart as said spindle is advanced, said arms being pivotally mounted on the base of the yoke, and spring means to normally urge said arms into contact with the flanges.

2,352,291
COTTON HARVESTER
Albert W. Scarratt, Kenilworth, David B. Baker, Riverside, and Clarence R. Hagen, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application May 29, 1941, Serial No. 395,814
21 Claims. (Cl. 56—14)



1. In combination, a tractor having a narrow body and a driving axle at the rear of the body, cotton-picking mechanism positioned to the rear of the axle, a receptacle for cotton positioned over the tractor, and means for mounting the cotton-picking mechanism and the receptacle on the tractor, said means comprising a rectangular framework surrounding the tractor body and secured to the tractor, means connecting the cotton-picking mechanism to the side of the framework at the rear of the tractor, and means extending upwardly from the framework and supporting the receptacle for pivotal movement.

2,352,292
SELF-BASTING PAN
Frank M. Schaefer, Chicago, Ill., assignor of one-half to William G. Pankonin, Chicago, Ill.
Application April 30, 1943, Serial No. 485,128
5 Claims. (Cl. 99—346)

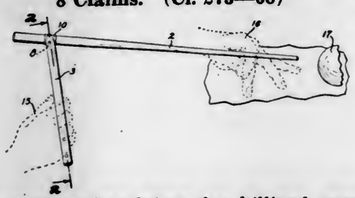


1. In an apparatus for roasting and basting meat which apparatus includes a container constructed with a bottom formed with a gravy well and with a raised bottom section, a drain baffle removably supported in the container and resting on the raised bottom section and in said well, a meat supporting rack placed in said container above the baffle and supported on the raised bottom section and in the well, and a basting unit removably supported in the well and projecting upwardly through the main baffle and through the rack.

2,352,293
PAPERMAKING
John C. Sherman, Attleboro, Mass., assignor to A. P. W. Paper Co., Inc., Albany, N. Y., a corporation of New York
No Drawing. Application January 10, 1940, Serial No. 313,200
2 Claims. (Cl. 154—50)

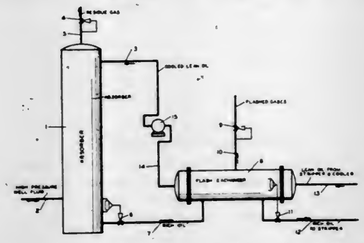
1. A composite paper comprising outer sheets of Kraft paper, an intermediate film of bibulous wet-strengthened paper, said sheets being absorptive to asphalt, and asphalt films between said sheets and said film of bibulous wet-strengthened paper bonding them together.

2,352,294
HANDPIECE FOR BILLIARD CUES AND THE LIKE
Frederick W. Stapff, San Mateo, Calif., assignor of one-fourth to Anna Stapff Wyckoff, San Mateo, Calif.
Application April 26, 1943, Serial No. 484,546
8 Claims. (Cl. 273—68)



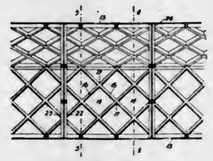
1. A unitary handpiece for billiard cues and the like comprising a rigid bifurcated handle member having a handle portion adapted to be pivotally attached thereto.

2,352,295
ABSORPTION PROCESS
William Swerdloff, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 17, 1940, Serial No. 357,176
1 Claim. (Cl. 196—8)



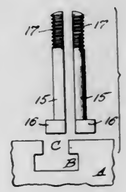
A method for preventing absorption oil carryover in high pressure absorbers comprising the steps of contacting a gaseous hydrocarbon mixture with a cooled lean absorbent oil in a contact zone at a pressure above approximately 700 pounds per square inch and at such a low temperature as to substantially prevent absorption oil carryover whereby the gaseous mixture is effectively absorbed in the lean absorbent oil without substantial rise in the temperature of the oil; passing the thus enriched absorbent oil at essentially absorber temperature into a flashing zone, flashing from said enriched absorption oil at least a portion of the absorbed gaseous hydrocarbons at a pressure sufficiently low to give an optimum cooling effect whereby the enriched absorption oil becomes substantially cooled, passing previously cooled lean stripped absorbent oil in heat exchange relation with the flashing rich absorbent oil whereby the lean absorbent oil becomes further cooled and subsequently passing the further cooled lean absorbent oil into the contact zone at the above said contact zone pressure and at substantially flash exchanger temperature, this temperature being sufficiently low as to prevent appreciable absorbent oil vaporization at said high pressure.

2,352,296
BEAM GRID STRUCTURE FOR SHIPS, AIRPLANES, AND THE LIKE
Stephen D. Szego, New York, N. Y., assignor to American Diagrid Corporation, Dover, Del.
Application November 24, 1941, Serial No. 420,256
14 Claims. (Cl. 114—83)



1. Longitudinal stiffening structure for hulls of ships, airplanes, containers, tanks and the like, comprising a series of rectangular beam grid panels having each four straight panel edges two of which extend in longitudinal direction parallel to the longitudinal axis of said hull and two of which extend in transversal direction normal to said axis, each of said rectangular beam grid panels being composed of two groups of parallel beams in such a manner that all beams are diagonal to said straight panel edges and that the beams of one beam group intersect the beams of the other beam group and are connected to these beams at their points of intersection, and a series of transversal polygonal supports arranged normally to the longitudinal axis of said hull, each of said panels being monolithically connected to neighboring panels along said four straight panel edges and supported by said transversal polygonal supports along said transversal panel edges which are normal to the longitudinal axis of said hull.

2,352,297
BOLT
George F. Wales, Kenmore, N. Y.
Application July 3, 1940, Serial No. 343,813
4 Claims. (Cl. 85—1)

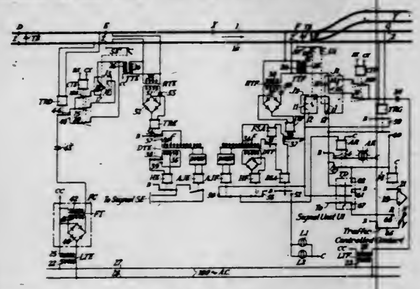


1. A bolt for use with an undercut slot of substantially T-shaped cross section, one end of said bolt being threaded to cooperate with a nut and the other end being provided with a square head adapted to enter into the undercut portion of said slot, said bolt, including said head, being formed of two parts divided lengthwise and substantially axially of said bolt along a plane extending substantially parallel to two opposite sides of said square head and providing said parts of said bolt with contact surfaces along which said parts contact throughout their length when in operative relation to each other in said slot with said contact surfaces exending lengthwise of said slot, said head parts of said bolt contacting with each other substantially throughout their contact surfaces to resist the tendency of said head parts to bend when the bolt is under tension, the head portion of each bolt part being of a size to permit it to be passed through the narrow portion of said slot in said plate when said surface is substantially parallel to said slot, said two parts of said bolt being movable into operative relation to each other lengthwise of said slot with said parts of said head portions extending into the larger and undercut portions of said slot.

2,352,298
RAILWAY TRAFFIC CONTROLLING APPARATUS
Herbert A. Wallace, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 17, 1941, Serial No. 411,161
12 Claims. (Cl. 246—219)

1. In combination, a stretch of railway track including an insulated track section, two signals one at either end of said section for governing traffic over said stretch in a given direction, a manually operable member controlling one of said signals, means governed by said one signal for controlling the supply of current of a particular character transmitted from a source at said one end of said section to said other end wholly over a track circuit comprising the rails of said section, means controlled by said particularly

characterized track circuit current for controlling the other of said signals, means governed by said other signal for controlling the supply of current of another distinctive character transmitted from a source at said other end of said



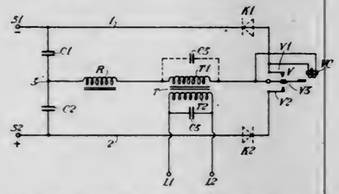
section to said one end wholly over a track circuit comprising the rails of said section, locking means for said manually operable member, and means controlled by said other distinctively characterized track circuit current for controlling said locking means.

2,352,299

APPARATUS FOR THE CONVERSION OR INVERSION OF DIRECT ELECTRIC CURRENT TO ALTERNATING CURRENT

Alec Hervey Bennett Walker, King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application March 17, 1942, Serial No. 435,074
In Great Britain September 24, 1940
1 Claim. (Cl. 175—365)



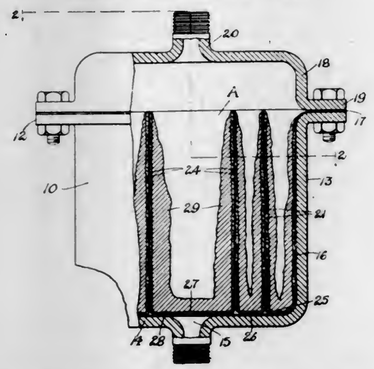
Apparatus for the conversion of direct electric current into alternating current comprising in combination, a first condenser, a second condenser, a first half wave rectifier, a second half wave rectifier, a reactor, a transformer, and a vibrating element having a first and a second contact which close alternately, said transformer having an output winding which is connected to a load circuit; a first circuit including said first condenser, said reactor, the input winding of said transformer, said first rectifier, and said first contact of the vibrating element; and a second circuit including said second condenser, said reactor, said input winding, said second rectifier, and said second contact of the vibrating element; said first contact being effective for charging said first condenser from the direct current source through said first rectifier and said input winding in a given direction which is the low resistance direction for said first rectifier and for discharging said second condenser through said first rectifier and said input winding in said given direction, said second contact being effective for charging said second condenser from the direct current source through said input winding in the opposite direction and through said second rectifier in the low resistance direction for that rectifier and for discharging said first condenser through said input winding in said opposite direction and the low resistance direction of said second rectifier, whereby the alternating closing of said first and second contacts causes an alternating current to be induced in said output winding and whereby a premature reversal of current in said input winding before said contacts are opened encounters the high resistance of said first or said second rectifier.

2,352,300

FILTER ELEMENT

Earl C. Walker, Altadena, Calif., and Foster Buck, Lisle, Ill., assignors to International Harvester Company, a corporation of New Jersey

Original application September 27, 1938, Serial No. 231,954. Divided and this application July 9, 1943, Serial No. 494,096
7 Claims. (Cl. 210—169)



1. A liquid filtering unit comprising a base portion having passage means for the discharge of filtered liquid from the unit; and a tubular filter structure projecting endwise from said base portion for immersion in a body of liquid to be filtered and including thin supple porous laterally-deflectable, contiguously-opposed inner and outer self-supporting filter walls enveloping a zone therebetween for the reception of filtered liquid and extending to the base end of said structure where it is communicative with said discharge passage means, said walls being operable to pass and filter liquid from said body into said zone when the unit pressure of said liquid body on the outer sides of said walls sufficiently exceeds the unit pressure within said zone; and supple surface contouring means upon the inner side of at least one of said walls to react against the wall opposed thereto in opposition to the force exerted by the liquid body upon the outer sides of said walls, to limit collapse of said zone and the degree of constriction of its communication with the discharge passage means.

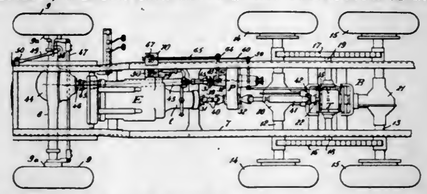
2,352,301

VEHICLE DRIVE

Halsey V. Welles, Detroit, Mich.

Application July 28, 1943, Serial No. 496,443
15 Claims. (Cl. 180—23)

7. In a motor vehicle, in combination, a frame, a driving axle spring connected to said frame adjacent the front end thereof, dirigible driving wheels on said front driving axle, a four wheel bogie rear drive comprising spaced driving axles spring connected to the frame and a variable speed transmission having two speed ratios fixed to the frame between such axles and connected to drive the same, an engine fixed to said frame rearwardly of said front axle, a main drive shaft connected between said engine and said transmission, a front end drive shaft connected to said



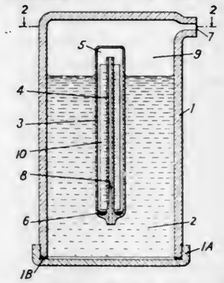
front end driving axle and extending adjacent said main drive shaft, a disengageable driving connection between said drive shafts having a speed ratio equal to the low speed ratio of said transmission, means for changing the speed ratio of said transmission and means for engaging said driving connection between said drive shafts only after said transmission is engaged in low speed ratio.

2,352,302

PRESSURE MEASURING DEVICE

Lloyd L. Young, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application April 22, 1942, Serial No. 439,981
6 Claims. (Cl. 73—31)



2. A pressure measuring indicator comprising a transparent chamber partly filled with a transparent liquid and having means to communicate with outside pressure, a transparent member adapted to float within said liquid, a transparent tube secured to the lower portion of said transparent member and extending upward within said float member and in communication with the interior of said float, said tube being open at its lower end to be in liquid communication with said liquid, a scale secured to said tube and weight means within the floating member to ballast the same, whereby the top level of said liquid within said tube moves along said scale to indicate thereon the pressure applied to the communication means of said chamber.

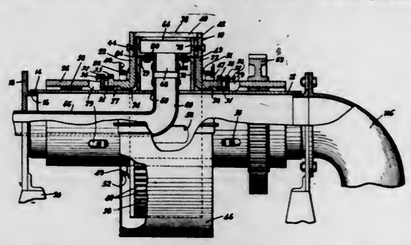
2,352,303

FILTER

Frank W. Young, Upper Montclair, N. J.

Continuation of application Serial No. 232,509, September 30, 1938. This application August 19, 1939, Serial No. 291,083
22 Claims. (Cl. 210—199)

1. A continuous filter comprising a transverse hollow cylindrical bearing, a filter drum concentric therewith and rotatable thereupon, a tank within which said drum is partially submerged, filtrate passages formed in the drum periphery, filtrate passages formed in the cylindrical bearing within the drum through which liquid passes from the drum interior to the interior of the hollow bearing, a shoe within the drum adapted to seal predetermined passages in the drum periphery, said shoe being formed with a passage adapted to register with at least one drum passage and formed with a fluid inlet passage,



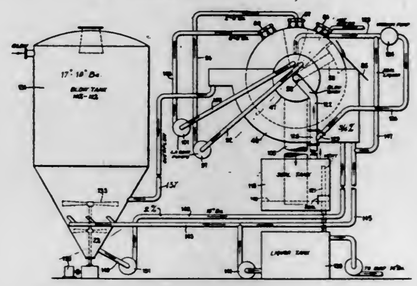
a conduit for fluid medium within the cylindrical bearing and extending into the interior of the drum and means supporting said shoe with the fluid inlet passage in communicating relation with said conduit whereby fluid medium from the conduit enters the shoe, said supporting means comprising a plurality of members formed with apertures, respectively, receiving the cylindrical bearing and supporting the shoe at their other ends and means to secure the said members to the cylindrical bearing.

2,352,304

FILTER

Frank W. Young, Upper Montclair, N. J.

Application August 3, 1940, Serial No. 350,286
6 Claims. (Cl. 210—199)



1. The method of preventing the accumulation of foam on the surface of the liquid evacuated from a filter which comprises subjecting the liquid and gas to pressure produced by introducing all the gaseous medium removed from the interior of the filter into an enclosure and returning all the gaseous medium through said enclosure to the filter for use in cake discharge.

2,352,305

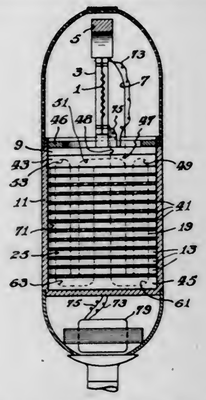
MICROPHONE

Leslie J. Anderson, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

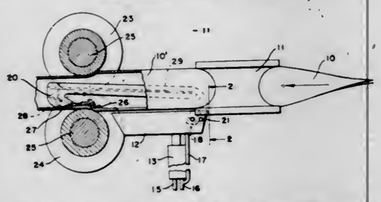
Application January 2, 1941, Serial No. 372,753
7 Claims. (Cl. 181—33)

1. An acoustic labyrinth for a pressure responsive microphone comprising a plurality of disc-

like members each having a plurality of openings extending therethrough, said members being assembled in superposed relation into a unitary structure with their respective openings in axially aligned relation.

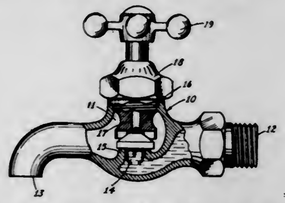


2,352,306
TUBE WELDING AND SMOOTHING
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1942, Serial No. 440,051
6 Claims. (Cl. 29—33)



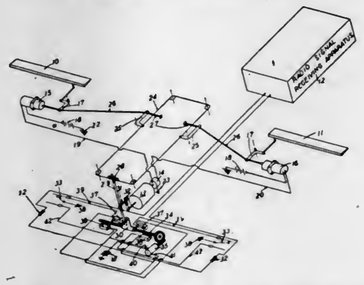
6. In the removal of flash from the seams of welded tubes, the improvement which comprises directing an oxygen scarfing jet against the flash beyond the region of welding and as a concurrent operation with the welding, the scarfing jet being directed against the flash at a point where the metal of the seam is still above its kindling temperature.

2,352,307
FAUCET WASHER
Alton L. Arey, East Cleveland, Ohio
Application April 9, 1942, Serial No. 438,240
3 Claims. (Cl. 277—30)



1. A resilient washer for a faucet having a vertically extending inlet port with a washer receiving seat formed thereabout, comprising a frusto-conical body portion with a valve seat engaging surface formed on the lower surface thereof and having an axial opening extending therethrough, a valve member disposed within said opening, wire means depending from the lower surface of the washer for limiting the movement of the valve member with respect to the said opening through the body portion, said wire means adapted to be received within the inlet port of a faucet and serving to guide the washer in its movement with respect to the seat surrounding said inlet port.

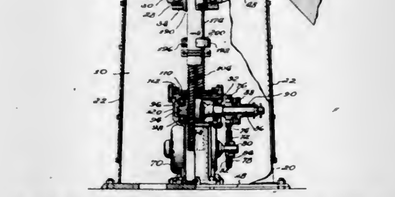
2,352,308
LATERAL CONTROL SYSTEM FOR AIRCRAFT
Robert A. Bailey, Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation, a corporation of California
Application December 23, 1940, Serial No. 371,274
3 Claims. (Cl. 244—14)



1. A lateral control for an airplane comprising a pair of spaced ailerons arranged with interconnected linkages adapted to produce simultaneous and opposite deflections, separate solenoids each arranged for one-way operation of one of said ailerons and to simultaneously operate the other aileron in an opposite direction by means of said interconnected linkage, a source of electrical energy for said solenoids, a gyro, a switch controlled by the gyro to energize one or the other of said solenoids in response to changes in lateral trim of said airplane, a follow-up linkage associated with the interconnected aileron linkage and the gyro controlling said switch, said follow up linkage including a lever connected at one end to the follow up linkage and normally pivoting about its other end, the gyro being connected to said lever intermediate its ends in such a manner as to restore said gyro controlled switch to its neutral position upon movement of said follow up linkage upon energization of either solenoid by said switch, a remotely controlled radio receiving set, and means for laterally shifting the normal pivot point of said lever in response to electrical impulses from said remotely controlled radio receiving set, whereby the lateral shifting of the lever pivot is adapted to produce a constant angle of bank in said gyro controlled aileron control system.

2,352,309
TOWING MACHINE
Melvin B. Benson, Scotch Plains, N. J., assignor to Lidgerwood Manufacturing Company, Elizabeth, N. J., a corporation of New York
Application April 1, 1942, Serial No. 437,108
10 Claims. (Cl. 254—172)

9. In a towing machine, a cable drum, a first shaft external of the cable drum and geared to the cable drum so that a plurality of shaft turns is required for one turn of the cable drum, a second shaft in alignment with the first shaft, a planetary transmission connected to the two shafts, the planet gears of the transmission being connected to the first shaft, the sun gear of the transmission being connected to the second shaft and the annular gear of the transmission being mounted to rotate freely around the axis of the shafts, a motor connected to the second shaft, a brake for the motor, a self-releasing and resetting brake for the annular gear, the brakes being set to prevent rotation of the motor and the annular gears when the pull of the cable on the cable drum is below a predetermined amount, said annular gear brake being released without releasing the motor brake when

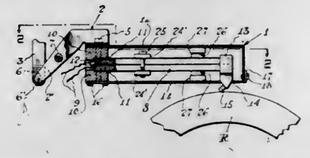


the cable pull equals the predetermined amount to permit the cable to pay out, and reset when the cable pull falls below the predetermined amount, means controlled by said annular gear brake to render the motor inoperative when said brake is released and to release the motor brake and energize the motor to drive the first shaft through the transmission to reclaim the paid-out cable when said brake is reset, and means controlled by the movement of the cable drum from a predetermined position to operate the motor when the annular gear brake is reset and to de-energize the motor and apply the motor brake when the paid-out cable has been reclaimed.

2,352,310
RAILWAY CROSSING GATE
Hugh S. Brown and Samuel T. Comfort, Harvey, Ill., assignors to The Buda Company, Harvey, Ill., a corporation of Illinois
Application April 8, 1941, Serial No. 387,480
5 Claims. (Cl. 39—7)

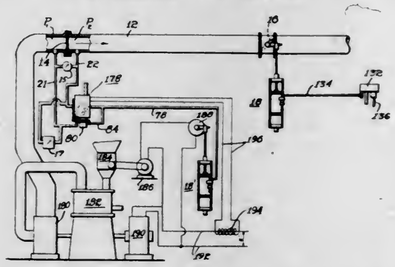
1. A crossing gate of the class wherein a gate arm is arranged to swing in a vertical plane under the normal control of swing mechanism and a solenoid is provided to permit lowering of the gate arm upon failure of a power source, a motor for elevating said gate arm, said motor being adapted for connection to a source of current through said switch mechanism, driving means connecting said motor and gate arm and normally effective to lock said gate arm in elevated position, a latch associated with said driving means and releasable to permit said gate arm to lower under the action of gravity, a spring for biasing said latch toward open position, a ball normally preventing movement of said latch under the force of said spring, a U-shaped frame providing guide means for said ball and an opposing wall, a bearing movable into and out of position between said ball and wall, an adjustable stop normally holding said bearing in substantially exact axial alignment with said ball, a slidable rod carrying said bearing, spring means for urging said rod to move said bearing out of alignment with said ball, said solenoid being connected to said current source for moving said rod and bearing in opposition to said spring means, said solenoid having a movable armature movable into and out of a position of maximum efficiency, and a lost motion connection between said rod and solenoid, whereby said solenoid may maintain said bearing in axial alignment with said ball with the armature of said solenoid in said position of maximum efficiency.

2,352,311
OSCILLATION TRANSLATING DEVICE
Michael J. Di Toro, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application February 7, 1941, Serial No. 377,830
19 Claims. (Cl. 179—100.41)



1. The method of controlling the response of a beam-like translator element to an applied oscillatory force which varies in frequency within a range lying at least partially between the natural frequencies of the first and second modes of vibration of the element, which comprises locally weighting said element at a region thereof which is substantially an anti-node of one of said modes and a node of the other of said modes, said weighting being by a mass having a weight at least substantially greater than that of said element.

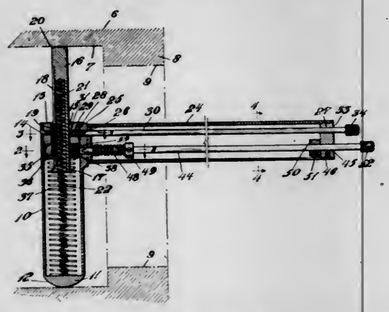
2,352,312
PRESSURE RESPONSIVE DEVICE
Robert R. Donaldson, Forest Hills, Pa.
Application December 31, 1941, Serial No. 425,166
10 Claims. (Cl. 83—93)



10. A regulator for selectively correlating the output of a coal pulverizing mill driven by an

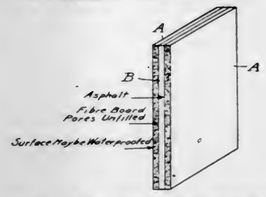
electric motor to the varying intensity of the flow of air carrying said output in suspension through an orificed pipe line to satisfy the varying momentary fuel requirement substantially without hunting, said regulator comprising a pin and two component links and one resultant link, said pin connecting said links and forming one common pivot point therefor, a rotatably supported mounting member for said resultant link, means for rotatably securing said resultant link to said mounting member, said resultant being so positioned that the pin is substantially coaxial with the axis of said mounting member, means for turning said mounting member, an airtight chamber having a diaphragm therein responsive to a differential pressure across the orifice in said pipe line, a sealing diaphragm for said chamber, a bellcrank fulcrumed on said sealing diaphragm and to one of said component links and to said pressure differential diaphragm, an electromagnetic device responsive to the load current on said mill motor and connected to said second component link for exerting a force thereon in substantially perpendicular direction to the first component link, the force of said electromagnetic device being proportional to the load on the mill motor, an adjustably tensioned spring supporting the weight acting upon said pin, a source of supply of compressed air at constant pressure, an escapement valve coacting with said bellcrank for issuing a control impulse from said source at a pressure correlated with the position of said pin, and a dashpot having fluid therein and a piston reciprocably accommodated therein, means resiliently connecting said piston to other of said component links for displacing said fluid, an adjustable restricted by-pass associated with said dashpot, means responsive to said control impulse and acting to displace said fluid, thereby exerting a force on said piston that gradually diminishes and is dissipated in said by-pass, and means responsive to said control impulse for regulating the rate of feed of coal into said mill.

2,352,313
GAUGE
Everett H. Fernald, Smithfield, R. I.
Application June 9, 1942, Serial No. 446,339
10 Claims. (Cl. 33—143)



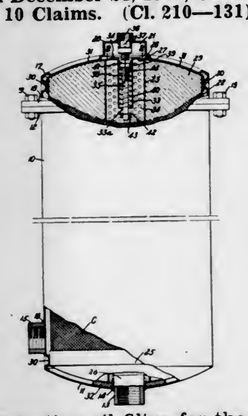
1. In a bore gauge, a body member having a bearing in one end thereof, a head member telescopically slidable therein through the bearing, a spring urging said members outwardly with reference to each other, means extending through said bearing and engaging the head member to hold the members in adjusted position, abutment means within said body member and embracing said head, and means to bind the abutment member to the head in an adjusted position thereon.

2,352,314
CONSTRUCTION MATERIAL
Albert C. Fischer, Chicago, Ill.
Application February 3, 1941, Serial No. 377,257
6 Claims. (Cl. 94—18)



1. A laminated packing for structural members, said packing comprising a core layer of sponge rubber material of substantial thickness and a pair of porous protective layers applied to the faces of said core having a thickness comparable to that of the core; said protective layers having their pores free and unobstructed and leaving said protective layers highly compressible.

2,352,315
LUBRICATING OIL FILTER FOR AIRPLANE ENGINES
Geoffrey Gilbert, Plainfield, N. J., assignor to Gilbert Process Corporation, Plainfield, N. J., a corporation of Delaware
Application December 24, 1942, Serial No. 470,063
10 Claims. (Cl. 210—131)

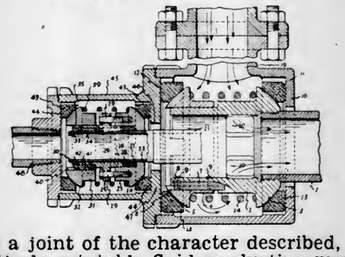


10. A lubricating oil filter for the pressure lubricating oil systems of airplane and other engines, comprising in combination a container and cooperating removable cover therefor; a filter cartridge containing oil-permeable filtering medium and having imperforate top and bottom, a perforated peripheral wall and a perforated core wall defining a central open core space therein, said filter cartridge being spaced from the wall of said container to provide an annular outlet space and likewise being spaced from said cover to provide a by-pass between said core space and said annular outlet space; an inlet means in said container for introducing oil to be filtered, under pressure, into said central open core space; an outlet means in said container for discharging oil from said annular outlet space; a gas-venting means in communication with said open outlet space and adapted at all times to vent gas from within said filter; and a relief valve carried by said cover and disposed generally within said central open core space, said relief valve normally seating against the top of the filter cartridge whereby to close said by-pass and adapted to be unseated, so as to open said by-pass, under an abnormal pressure condition within said core space.

2,352,316
METHOD OF PRODUCING SHAPED BODIES FROM POWDERY FERROUS MATERIAL
Claus G. Goetzel, Yonkers, N. Y., assignor to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Delaware
No Drawing. Application August 9, 1941, Serial No. 406,169
9 Claims. (Cl. 75—22)

1. In a method of producing from powdery ferrous metal material shaped bodies resembling steel of substantially predetermined chemical composition, the steps of forming an intimate mixture of finely divided particles of substantially pure iron in amounts of about 5% to 60% and of a balance substantially of steel or alloy steel of predetermined carbon content, compacting the mixture under commercial pressures of about 5 to 50 tons p. sq. i. into desired shape, covering the shaped compact with a coherent refractory mass exhibiting pores of controlled fine size, and sintering said compact within said cover.

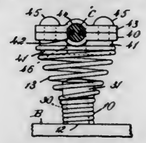
2,352,317
ROTARY SIPHON JOINT ASSEMBLY
Leonard D. Goff and Rollo O. Monroe, Three Rivers, Mich., assignors to The Johnson Corporation, Three Rivers, Mich., a corporation of Michigan
Application January 16, 1941, Serial No. 374,670
7 Claims. (Cl. 285—10)



1. In a joint of the character described, a pair of relatively rotatable fluid conducting members, said members being disposed together to provide a fluid passage, sealing means at the juncture of said members to prevent leakage of fluid from said passage, a second pair of relatively rotatable fluid conducting members disposed together to provide a second fluid passage, and sealing means at the juncture of said last named members to prevent leakage of fluid from said second passage, one member of said first pair being arranged so as to extend through one member of said second pair, said extending member of said first pair constituting a pipe and having one end thereof at said sealing means between said first pair, said last named sealing means having structure for supporting said end of said pipe in a direction normal to the axis of rotation thereof, whereby said end of said pipe is supported for rotation.

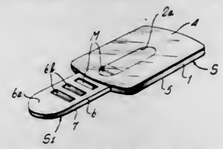
2,352,318
FLEXIBLE CABLE SUPPORT
Stephen Guarnaschelli, Mount Vernon, N. Y., assignor to Packless Metal Products Corporation, New Rochelle, N. Y., a corporation of New York
Application December 18, 1942, Serial No. 469,425
5 Claims. (Cl. 248—54)

4. A flexible supporter comprising a cylinder of comparatively small diameter formed of a plurality of convolutions of wire, a cone shaped spiral spring formed of the same wire, the axes of the cylinder and the spring being in the same line, combined with a headed screw for affixing



said supporter to a body, said screw fitting the inside of the cylinder with its head engaging the smaller convolutions of the cone shaped spring, and member attaching means on the larger end of the spring.

2,352,319
STORAGE RECEPTACLE
Alexander Harris, Scobeyville, N. J., assignor to Art Metal Works, Inc., a corporation of New Jersey
Application August 30, 1941, Serial No. 408,964
4 Claims. (Cl. 206—42)



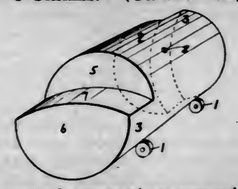
1. In a storage receptacle, a housing comprising a main sheet-like member formed with a slot, sheet-like members secured to the respective opposite faces of said main member, one of said last named sheet-like members comprising an elongated slot in part overlying the slot of said main member, a sheet of transparent material secured to the exterior surface of the member having the elongated slot, and a structure freely slidable in the passage defined by said first named slot, said structure comprising a member formed with a plurality of pockets in each of which an article is adapted to be received.

2,352,320
GARDEN TOOL
Leo George Hatch, Concord, N. H.
Application April 29, 1943, Serial No. 484,983
2 Claims. (Cl. 294—50.6)



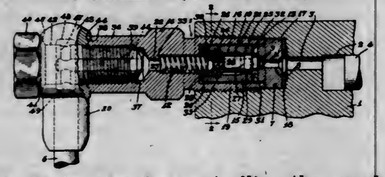
1. A garden tool having a tapered blade substantially longer than wide and curved transversely and longitudinally, one side edge being provided with a plurality of blunt teeth, the side edges of which have hook shaped outer ends.

2,352,321
METALLURGICAL METHOD AND APPARATUS
Harry Heuer, Philadelphia, Pa.
Application July 29, 1941, Serial No. 404,486
5 Claims. (Cl. 266—34)



1. Metallurgical apparatus comprising a generally cylindrical hollow body mounted for movement of rotation about its horizontal axis, and having at its ends hollow semi-cylindrical extensions communicating internally with the hollow body, and disposed eccentrically in respect to the axis of the body, and having generally semi-circular heads respectively closing the ends of the body and the ends of the semi-cylindrical extensions, and having generally flat decks respectively closing the peripheral portions of the extensions, the extensions being spaced substantially 90° apart.

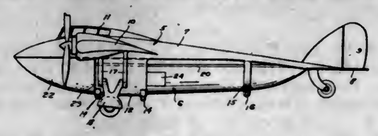
2,352,322
PRESSURE REDUCTION CHECK VALVE
James F. Hoffer, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application January 2, 1942, Serial No. 425,396
10 Claims. (Cl. 251—146)



1. A check valve for controlling the supply of liquid fuel from a jerk-type pump into a fuel injection line, said valve comprising, in combination, a stationary valve member having an inlet passage with an annular valve seat adapted for connection to said pump and having an outlet passage adapted for connection to said line, a reciprocable valve member normally urged by spring pressure into engagement with said seat and being adapted to lift in response to a predetermined pressure in said inlet passage and to close upon relief of said pressure, a differential dashpot chamber, a differential piston disposed in said chamber and movable with said valve member in response to said spring pressure, opposite ends of said piston having peripheral clearances with said chamber to provide restricted inlet and egress orifices open to said outlet passage, said piston acting to maintain fuel in said chamber under pressure during the closing movement of said valve member.

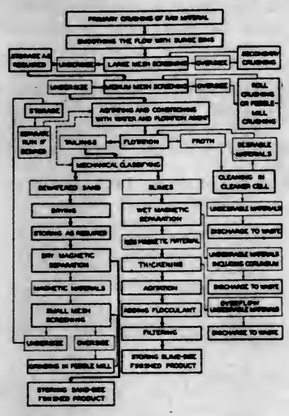
2,352,323
PASSENGER AND FREIGHT CARRYING AIRCRAFT
John H. Hooker, Miami, Fla.
Application January 3, 1942, Serial No. 425,561
2 Claims. (Cl. 244—118)

1. In an aircraft, a fuselage, a pair of laterally spaced side wall members depending from said fuselage adjacent the nose end thereof, a cargo carrying body of substantially the length of the fuselage fitting between said walls, means to



clamp said walls to said body, and a pair of clamping bands depending from said fuselage adjacent the tail end thereof and embracing said body.

2,352,324
BENEFICIATION OF FELDSPATHIC AND SIMILAR ORES
William G. Hubler, Duparquet, Ontario, Canada, assignor to American Nepheline Corporation, Rochester, N. Y., a corporation of New York
Application March 21, 1939, Serial No. 263,234
8 Claims. (Cl. 209—2)

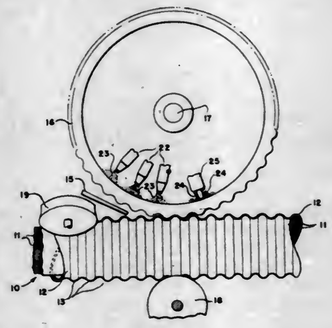


1. In a process of purifying feldspathic and similar minerals containing magnetic constituents, the steps of comminuting a raw material to particles having a size of minus 20 mesh, agitating said particles with a substantially equal weight of water and an organic compound containing a fatty acid, said organic compound being in the proportion of two pounds per ton of said particles, said agitation taking place in a range of temperature from 60° to 70° F., subjecting the conditioned pulp to a flotation treatment to remove a froth of objectionable materials, discarding the rejected froth, classifying the flotation tailings into slimes and sands, and separately subjecting the slimes and sands to a magnetic separation step.

2,352,325
CONTINUOUS SOFT SOLDERING
Howard G. Hughey, Fanwood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application October 3, 1941, Serial No. 413,393
5 Claims. (Cl. 113—59)

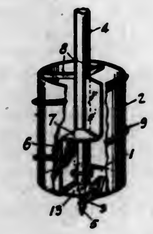
1. Apparatus for soldering a longitudinal seam of a circularly corrugated cable sheath, said apparatus comprising a floating axle, a rotary soldering iron that turns on said axle and that contacts with the sheath on both sides of the seam and that has a scalloped peripheral surface that

fits into the corrugations of the surface of the sheath, a roller for holding the sheath against said iron, means for supplying molten solder to the seam in the region of the seam length adjacent the point where the iron contacts with the sheath, one or more burners in position to direct heating flames against the peripheral portion of said iron just before that portion comes into contact with the sheath, and a nozzle from which a jet of cooling fluid is directed against the peripheral portion of the iron behind the region of heating and close to the point at which the iron comes into contact with the sheath.



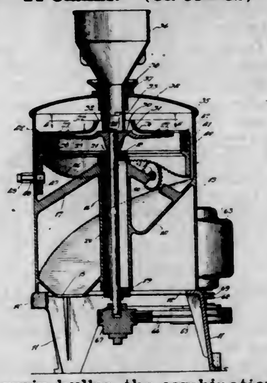
2. The method of soldering a longitudinal seam along a work-piece by means of a rotary soldering iron, which method comprises rolling the periphery of the iron along the work-piece in the direction in which the longitudinal seam extends, applying one or more heating flames to the iron at a region which heats the periphery of the iron just before said iron contacts with the work-piece, and hardening the solder adjacent the iron by directing a jet of cooling fluid against the iron beyond the heating flames and just beyond the region where the iron comes into contact with the work-piece.

2,352,326
EARTH DRILL
Charles W. Kandle, Chicago, Ill.
Application October 29, 1942, Serial No. 463,776
3 Claims. (Cl. 255—68)



1. In combination for drilling earth, a cylindrical bucket with a substantially flat bottom, a cutting blade disposed in a radial slot in the bottom, and a stationary shield in said bucket disposed ahead of said slot to prevent interference with incoming spoil by the spoil previously deposited in said bucket, said shield extending upwardly from the bottom of said bucket and rearwardly over said blade at a substantial height above the same.

2,352,327
GRAIN HULLER
Howard Clarence Kirn, Peterborough, Ontario, Canada, assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
Application March 7, 1942, Serial No. 433,722
14 Claims. (Cl. 83—32)

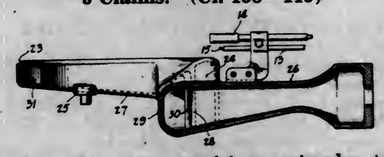


2. In a grain huller, the combination of a rotatable impeller, means for feeding grain thereto, a ring-shaped member surrounding said impeller with the inner surface thereof in spaced relation to the periphery of said impeller, means for rotating said impeller at a high speed to impel said grain therefrom and cause the grain to impinge on said inner surface, said ring-shaped member having an edge thereof shaped to provide an undulating rack extending therearound, and gear means engaging said rack and journaled for rotation on fixed axes to impart to said member a low speed undulating rotary movement.

2,352,328
ARTIFICIAL FILAMENT, FIBER, AND FOIL
Johannes Kleine, Dessau, Germany; vested in the Alien Property Custodian
No Drawing. Application June 18, 1940, Serial No. 341,183. In Germany August 3, 1939
2 Claims. (Cl. 28—78)

1. An article of manufacture comprising fibers, films, foils, ribbons, and the like of high molecular paraffins containing more than 400 chain-carbon-atoms, said paraffins corresponding to the formula C_nH_{2n+2}, being insoluble in boiling benzene but soluble in boiling toluene, having a melting point of above 130° C., and prepared by hydrogenating under pressure a carbonaceous material selected from the group consisting of coal and carbon monoxide.

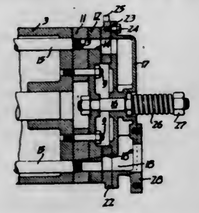
2,352,329
CAST-IRON GAS BURNER
Ernst R. Koppel, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 2, 1941, Serial No. 405,172
3 Claims. (Cl. 158—115)



3. A gas burner comprising a circular tubular member and a supply tube integrally cast there-

with in one piece, a hollow segment horizontally disposed at the front of said burner and integrally cast to the inner surfaces of said tubular member and to the supply tube; the said supply tube containing a passage that merges with the internal channel of the tubular member through baffles vertically placed in the outlet end of said supply tube to direct the flow of the gas, and the said tubular member being depressed at the front thereof to form a space above the supply tube, a pilot burner disposed in said space directly above the supply tube, a slot in the upper surface of the tubular member with continuous extent from one side of said space to the other side thereof to form a jet for the gas, and the internal channel of said tubular member gradually decreasing in cross-sectional area in its travel from the front to the rear of the burner to maintain the pressure of the gas with decrease in volume.

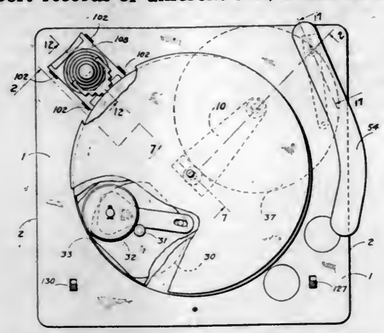
2,352,330
FILTER AND AUTOMATIC VALVE
Graham Lee, Oakland, Calif., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application July 2, 1940, Serial No. 343,580
5 Claims. (Cl. 210—199)



5. A filter comprising: a filter cell arranged to travel in a closed path through a body of the material to be filtered; a trunnion on which said cell is carried; a wear plate detachably secured to the end of said trunnion and formed with an opening in communication with said filter cell; a valve body carried by a pin secured to said wear plate along the axis of said trunnion; a bridge plate disposed between and arranged to seat against the opposed faces of said wear plate and valve body; an aperture formed in said bridge plate with which the opening in said wear plate is arranged to register periodically during the rotation of said trunnion; a port formed in said valve body with which the aperture in said bridge plate is adapted to register; means for permitting a limited angular movement of said bridge plate with respect to said valve body so as to vary the degree of registration of its said aperture with the valve body port; resilient means for maintaining the valve body in engagement with the bridge plate and the bridge plate in engagement with the wear plate; and means for detachably securing said bridge plate to said valve body so that normally there will be no relative movement between them.

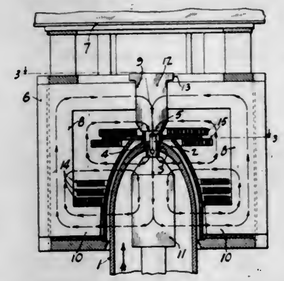
2,352,331
PHONOGRAPH RECORD CHANGER
Arnold W. Leline, Chicago, Ill., assignor to Advance Engineering Company, Chicago, Ill., a partnership comprising K. D. Turner, John Huarisa, L. C. Parks, and J. H. Clippinger
Application January 21, 1941, Serial No. 375,179
9 Claims. (Cl. 274—10)

1. In combination with a cam member and a pickup arm, said cam member having tracks for controlling the movement of the pickup arm, switch means carried by said cam member and movable between said tracks for selecting the proper track for the pickup arm, a record stack holder and ejector comprising a support for the edges of the record and adapted to be moved to support records of different size, a cam connect-



ed to said record stack holder and movable therewith, and an indexing slide held in operative position relative to said cam and carrying a pickup tone arm positioning track control switch guide, and said track switch being adapted to engage the guide on said slide to be positioned thereby for selection of the proper cam track for the tone arm.

2,352,332
INDUCTION HEATING
Eugene J. Limpel, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application July 31, 1942, Serial No. 453,004
8 Claims. (Cl. 219—13)

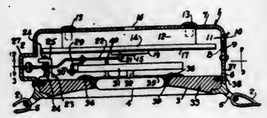


1. In an induction furnace for heating a partially closed nose of a tube, a core structure providing a substantially closed flux path adapted to pass longitudinally through the tube with a gap in the structure at the aperture in the tip of the nose, and a temporary core member adapted to be inserted in the aperture to bridge the gap in the core structure of the furnace.

2,352,333
RECORDING CLINICAL THERMOMETER
William R. Lukens, Hillsboro, Ohio
Application August 26, 1941, Serial No. 408,360
3 Claims. (Cl. 73—368)

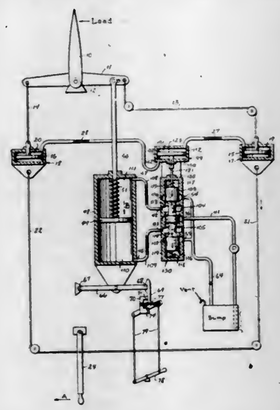
2. A self-contained temperature recording instrument comprising a housing completely enclosed except for an opening, a temperature responsive device mounted on said housing adjacent said opening, a recording mechanism in-

cluding a record chart and a scribing device within the housing, means for causing the movements of said temperature responsive device to be recorded on said record chart, said housing



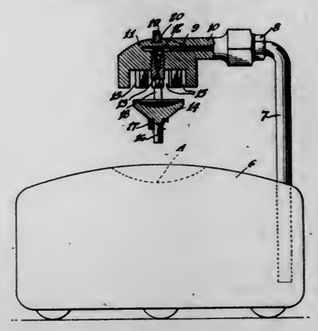
being formed of two telescoping portions, said temperature responsive device being mounted on one of said housing portions and said record chart being contained within the other of said housing portions.

2,352,334
AIRCRAFT CONTROL SYSTEM
Thomas Wesson Macomber, Mountain View, Calif.
Application June 9, 1942, Serial No. 446,341
12 Claims. (Cl. 244—85)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a system for supplying an assisting force to aid in positioning a control surface of an aircraft, fluid coupling means transmitting a manually applied force directly to said control surface, a power cylinder having a movable piston connected to said control surface for supplying a force assisting said manual force in moving said control surface, a supply source of fluid under pressure, a low pressure return line therefor, a valve and valve casing, means for conducting fluid under pressure from said supply source to said valve casing and for conducting fluid pressure therefrom to said power cylinder at a selective side of said piston, conduit means connecting said valve casing to said low pressure return line, differential pressure actuated means for moving said valve within said casing for controlling the flow of fluid to said power cylinder at a selected side of said piston and connecting the cylinder at the opposite side of said piston to said low pressure return line, fluid conduits connecting said fluid coupling means to said differential pressure actuated means so that the difference in pressure in said coupling means is transmitted to said valve moving means, and means causing a back pressure to be exerted opposing the operation of said valve by said differential pressure actuated means, said back pressure being proportional to the pressure differential between the fluid pressure at said inlet and the pressure in said return line whereby the differential pressure required to actuate said valve must overcome a force proportional to the force actuating said power piston so that the reaction of the control surface to the total forces applied thereto will be sensed by the operator by the increase or decrease in manual pressure transmitted through said fluid couplings.

2,352,335
OIL BURNING HEATING STOVE
Wolfgang Julius Magg, Melbourne, Victoria, Australia
Application April 21, 1942, Serial No. 439,812
In Australia December 4, 1941
3 Claims. (Cl. 158—63)

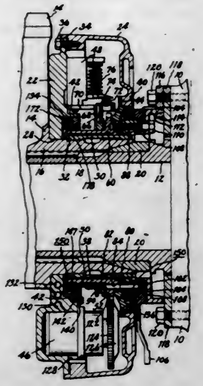


1. In an oil burning heating stove of the type specified, an oil container, a vertically disposed oil supply pipe in communication with and projecting upwardly from said oil container, a horizontal offset from said pipe, a hollow burner head, said head having a horizontal tubular neck connected to said offset and a downwardly delivering jet nozzle, a stirrup supported by and depending from the burner head and including a lower bridging member having an aperture therein, and a flame deflector having a stem removably seating in said aperture to locate the flame deflector below and in alignment with said jet nozzle.

2,352,336
LIFT-OFF SEAL FOR ADAPTERS AND REGULATORS
Thomas B. Martin and Kenneth L. Berninger, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 24, 1942, Serial No. 448,202
16 Claims. (Cl. 170—163)

7. A propeller control mechanism of the character described for use with an hydraulically adjustable propeller having provision for effecting adjustment of the pitch of the propeller blades upon the application of fluid pressure thereto, comprising a propeller hub, a housing rotatable with said propeller hub, a relatively stationary member projecting into said housing, means for establishing a fluid seal between said housing and said stationary member providing a reservoir within said housing for receiving a quantity of fluid pressure medium, said seal means comprising an annulus of resilient material carried by the housing and having a por-

tion adapted to engage and disengage the stationary member, yielding means acting upon said portion and tending to press it into engagement with the stationary member, but responding to



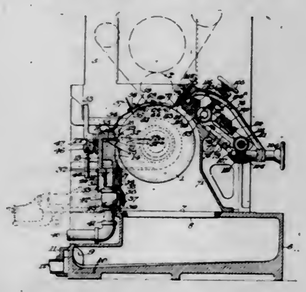
a predetermined speed of rotation to relieve said pressure whereby said annulus disengages the stationary part while the speed of rotation is greater than said predetermined speed of rotation.

2,352,337

INK FOUNTAIN FOR ROTARY INTAGLIO PRESSES

Joseph E. Meyer, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware

Application December 3, 1941, Serial No. 421,432
19 Claims. (Cl. 101—157)



1. In an inking mechanism for a rotary intaglio printing press, a hollow inker head having an inlet port, a discharge slot, a lower horizontal passage open to the inlet port, an upper horizontal passage open to the discharge slot, vertical passages connecting the lower and upper horizontal passages, and means for varying the width of the discharge slot.

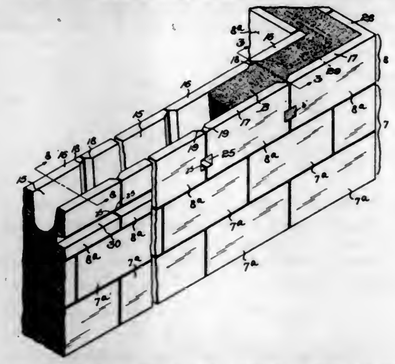
2,352,338

BUILDING STRUCTURE FOR INSULATION AGAINST INSECTS

Donald M. Muirhead, Duxbury, Mass.

Application June 20, 1941, Serial No. 398,934
3 Claims. (Cl. 72—60)

1. In a building wall structure, an upper course of blocks disposed end to end, each having along its upper section a longitudinally continuous beam-forming downwardly extending channel, and having laterally outwardly opening end recesses communicating with the channel at the



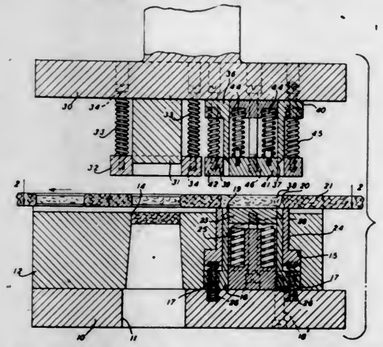
region of the inter-block joints there to expose areas of channel-filling poured beam material.

2,352,339

APPARATUS FOR BLANKING MATERIALS

Nathaniel M. Olney, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 4, 1942, Serial No. 457,369
9 Claims. (Cl. 164—18)



7. An apparatus for blanking material comprising a fixed scoring element, an opposing movable scoring element, means to support a material between the elements, means to move the movable element relative to the fixed element to cause forming of aligned scores in opposite surfaces of the material surrounding a portion thereof, a pressure pad for one of the elements having a compressible means to hold the material free of its element until the score formed by the other element has been completed, a die spaced from the fixed scoring element, and a flat surfaced punch carried by the said moving means and cooperating with the die to subsequently punch the scored portion from the material.

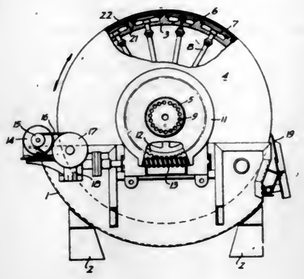
2,352,340

FILTER

Harold F. Oswald, Elizabeth, N. J., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada

Application April 10, 1942, Serial No. 438,389
6 Claims. (Cl. 210—199)

6. A rotary drum filter comprising: a tank; a filter drum arranged to rotate in said tank; a plurality of peripherally spaced, longitudinally extending division strips secured to said drum and defining a series of filtrate compartments; conduits communicating with each of said filtrate compartments and through which said compartments can be successively subjected to a dif-



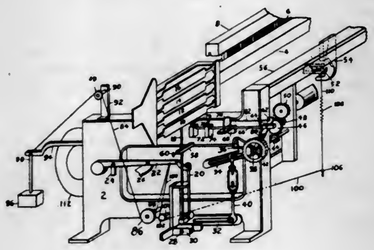
ferential filtering pressure; a plurality of spaced ribs secured to said drum within each of said compartments; rivets secured to some of said ribs with their heads substantially flush with the outer surfaces of said ribs; and a wire mesh screen disposed over said drum and soldered to the heads of said rivets.

2,352,341

LOOM

Thomas O. Ott, Jr., La Grange, Ga., assignor to Callaway Mills, La Grange, Ga., a corporation of Georgia

Application November 4, 1940, Serial No. 364,197
5 Claims. (Cl. 139—24)



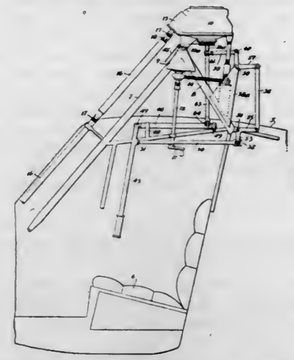
1. In a loom having a plurality of shuttle boxes, a generally vertically movable rod engaging and adapted to move said shuttle boxes, means for vertically reciprocating said arm, friction let-off mechanism, a ratchet gear, means including a pawl adapted to drive said ratchet gear, means driven by said ratchet gear and adapted to take up cloth woven by said loom, a fringe forming attachment comprising means adapted to release said friction let-off mechanism, a member carried by said vertically movable rod, a horizontally movable rod adapted to be engaged and shifted by said member when said member is in its uppermost position, a pivoted lever adapted to be shifted by said horizontally movable rod, a pawl carried by said lever and adapted to engage said ratchet gear, said member, generally vertically movable rod, horizontal rod, lever and pawl being so constructed and arranged that the take-up of the loom is more rapid than normal.

2,352,342

AIRCRAFT EQUIPPED WITH SUSTAINING ROTORS

Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware

Substituted for abandoned application Serial No. 349,049, August 1, 1940. This application November 2, 1940, Serial No. 363,997
10 Claims. (Cl. 244—17)



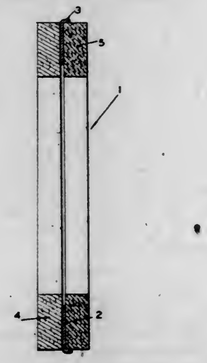
1. In an aircraft having a bladed sustaining rotor, mechanism for shifting the lift line of the rotor to maneuver the craft including controllable means providing for periodic differential change of blade pitch, means mounting the blades on the rotor hub with freedom for movement to compensate for differential lift effects in translational flight whereby the rotor lift line moves to different positions at different translational flight speeds, and controllable means for tilting the physical axis of the rotor hub to bring said axis into approximate coincidence with the rotor lift line in different flight conditions, the first-mentioned means being constructed and arranged to accommodate rotor hub tilting without being detrimentally affected thereby.

2,352,343

SEAL

Noel S. Reynolds, St. Louis, Mo.

Application November 14, 1941, Serial No. 419,102
5 Claims. (Cl. 288—2)



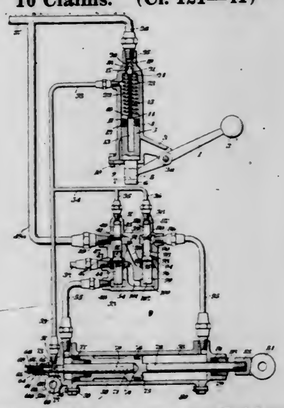
1. A seal in the form of a unitary assembly adapted to be placed between two parallel surfaces carried by relatively rotatable members, said seal comprising a central ring of non-yield-

able material having a smooth surface on one end and outer rings on opposite sides of said central ring, one of said outer rings being non-rotatably connected to the central ring on the end opposite the smooth surface and being made of a resilient material permitting axial compression, the other outer ring being in free abutment with the smooth surface of said central ring so as to permit relative rotation therebetween, the overall axial thickness of the rings being greater than the distance between the two parallel surfaces between which the seal is to be positioned in order that when the seal is in position the first named outer ring will be axially compressed to thereby maintain each outer ring in pressure engagement with a cooperating parallel surface and provide the sole means to prevent its relative movement with respect to the said engaged surface and also to cause the smooth surface of the central ring and the surface of the outer ring abutting it to have pressure engagement.

2,352,344
HYDRAULIC TRAVEL MODULATION CONTROL

Edward A. Rockwell, West Hartford, Conn.

Application December 7, 1940, Serial No. 369,003
10 Claims. (Cl. 121—41)



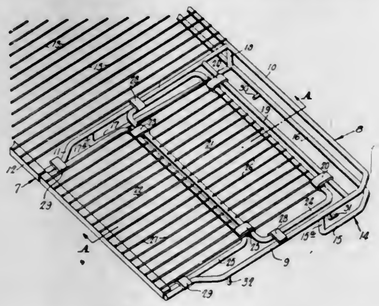
1. In combination, a source of fluid under pressure, an element adapted to be moved thereby, and fluid pressure means for actuating the same comprising a controlling device, a valve adapted to apply, by modulated increases of pressure, a fluid pressure for urging said element in one direction and a second valve adapted to correspondingly release, by modulated amounts of pressure, a fluid pressure which urges said element in the opposite direction, said first valve containing a normally closed high pressure inlet valve element and said second valve comprising a normally closed outlet valve element, said two valves containing also, respectively, a normally open outlet valve and a normally open high pressure inlet valve, both of said last-mentioned valves having a fluid pressure connection to said controlling device.

2,352,345
REFRIGERATOR

Theodore W. Rundell, Abington, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application November 24, 1941, Serial No. 420,307
7 Claims. (Cl. 211—153)

5. In a refrigerator, a frame having spaced side members, a transverse member extending between said side members, complementary shelf sections carried by the frame and adapted in horizontal coplanar relation to afford an effective shelf area corresponding substantially to the combined areas of the said sections, one of the sections being jointed to a second section to permit folding of said sections together along a line substantially parallel to said transverse frame member into substantially face to face relation and the first section being hinged to said transverse member for movement about the axis of said hinge between a position in the horizontal plane and an alternative generally elevated position in a more or less upright plane wherein the sections in said folded state are withdrawn to one side of said

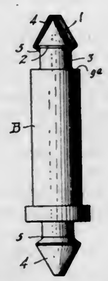


area, the said side members of the frame having portions arranged for interengagement with the first and second shelf sections respectively to support said sections in the horizontal plane, means providing clearance between said second section and the portions of the said side members which support the first section so as to permit movement of the second section to a folded position immediately underlying the horizontally disposed first section, in which position the portion of said effective shelf area normally occupied by the second section together with the space below said effective area is left free and substantially unobstructed by said section, and means for supporting the second section in said underlying folded position.

2,352,346
ELECTROPLATED BEARING ELEMENT

Charles Schiffl, Montclair, N. J.

Application August 6, 1941, Serial No. 405,642
5 Claims. (Cl. 308—235)



1. A bearing element having a bearing surface and a second surface extending inwardly from said bearing surface toward the axis of the element and meeting said bearing surface at an angle, and an electrodeposited coating extending continuously on both of said surfaces.

2,352,347
KNITTING NEEDLE

De Hart G. Scrantom, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application August 25, 1943, Serial No. 499,877
3 Claims. (Cl. 66—122)

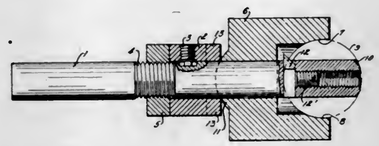


1. A knitting needle comprising a shank having a hook at one end thereof and provided with openings at the base of the hook, a latch having an opening therein, and a retainer for pivotally securing the latch to the needle comprising a ball secured within the openings formed in the latch and the needle.

2,352,348
CHAMFERING TOOL

John J. Seme, Maple Heights, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application March 19, 1943, Serial No. 479,761
2 Claims. (Cl. 77—73.5)



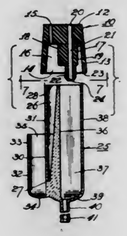
1. A device for chamfering the holes in work having curved surfaces, a rod extending through said hole and carrying an adjustable cutting edge adapted to engage said work adjacent the edges of said hole, means for automatically compensating for the curvature of the surface of said work and adjusting the cutting effect of said cutting edge as said rod rotates so as to effect an equal and uniform chamfering of the edges of said hole, said means comprising a forked body slidably arranged on said rod and adapted to grip the curved surface of the work, cam means for predeterminedly reciprocating said rod as the latter rotates, said cam means including a pair of cam lifts formed on said body, a collar secured to said rod and having a pair of cams adapted to be engaged by the cam lifts on said body so as to reciprocate said rod upon rotation thereof.

2,352,349
DRIP TUBE DISPENSING UNIT

John E. B. Shaw, Chicago, Ill.

Application January 22, 1944, Serial No. 519,377
2 Claims. (Cl. 128—214)

1. In combination with a container having sterile injection solution therein, an air filter drip tube dispensing device, comprising an upper portion adapted to be attached to said container, said upper portion having a closed top, side walls, an open bottom and a hollow interior, said upper portion having an air inlet opening extending through said closed top into the hollow interior and also communicating with the interior of said container, said upper portion having an integral housing extending downwardly from said top within said hollow interior, a drip extension integral with and extending below said housing and said side walls and having an opening therethrough communicating with the interior of said housing, said closed top also having a liquid outlet opening communicating with the interior of said container and leading into the interior of said housing, and a transparent lower portion having an air wash chamber with a closed bottom, an open top, and side walls having an air inlet opening leading to the atmosphere, said lower portion also having a combined liquid flow and drip tube chamber having an open top, side walls, a bottom, and a tip extending below said bottom, said bottom and said tip having a liquid flow opening, said tip adapted to receive parenteral injection means, said upper portion adapted to be attached to said lower portion, with the housing and drip extension of said upper portion positioned within said combined liquid flow and drip tube chamber of said lower portion, and said air wash chamber of said lower portion in communication with said hollow interior and said air inlet opening of said upper portion, so that air may flow from the atmosphere through said air inlet opening of said air wash chamber into said air wash chamber, through said hollow interior and said air inlet opening of said upper portion into said container to permit liquid to flow from said container down through said liquid outlet opening in said upper portion into said housing, and out said housing through the opening in the extension of said housing directly and visibly into said combined liquid flow and drip tube chamber and thence out through the tip of said liquid flow chamber into the parenteral injection means for a parenteral injection, said drip extension of said housing of said upper member extending downwardly and visibly within said transparent combined liquid flow and drip tube chamber so that the flow of liquid therefrom is visible for gauging the flow thereof.



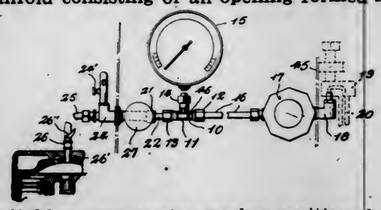
2,352,350
PRESSURE LEAKAGE GAUGE

William A. Smith, Philadelphia, Pa.

Application March 29, 1943, Serial No. 480,985
3 Claims. (Cl. 73—51)

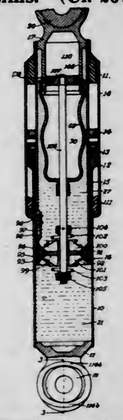
3. A leakage gauge including a manifold having a regulatable air inlet and an air outlet, a pressure gauge operatively connected to the manifold and receiving air from the inlet, a restrictor plug in said manifold in advance of said pressure

gauge, said plug including means for bleeding the manifold consisting of an opening formed in the



manifold, a compression washer positioned above the opening and means for compressing the washer upon and around said opening.

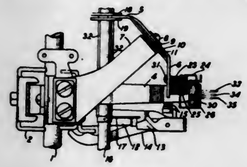
2,352,351
SHOCK ABSORBER
Peter Warborn Thornhill, Leamington Spa, England, assignor to John Henry Onions, Coventry, England
Application December 17, 1941, Serial No. 423,380
In Great Britain April 8, 1941
16 Claims. (Cl. 267—64)



1. A telescopic shock absorbing suspension unit comprising a cylinder element, a hollow plunger element sliding therein, a damping valve device at the inner end of the plunger element, damping liquid within the cylinder element and extending through the damping valve device to occupy part of the working space within the plunger element, compressed gas disposed within the space in the plunger element to support resiliently the axial load on the shock absorber, an auxiliary piston which is subject to the action of a confined quantity of compressed gas at a pressure determined by the static axial load on the shock absorber, and an axial rod connecting the auxiliary piston with the said damping valve device at the inner end of the plunger element so as to urge said valve device in either direction from its position of equilibrium as the fluid pressure in the plunger element becomes greater and less than its static value.

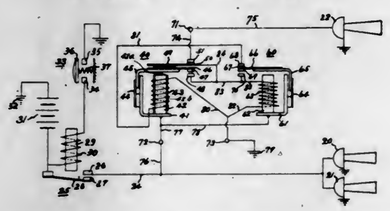
2,352,352
SELECTOR SWITCH
William O. Wagensell, New Rochelle, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 23, 1943, Serial No. 491,965
4 Claims. (Cl. 179—27.53)

1. In an automatic telephone switch of the panel type, a brush support, a brush set mounted on said support, said brush set having an inner pair of spring contact members and an outer pair of spring contact members, a brush controlling device normally holding said spring contact members separated in an inoperative position, said device being positioned between said inner pair of spring contact members, a brush tripping



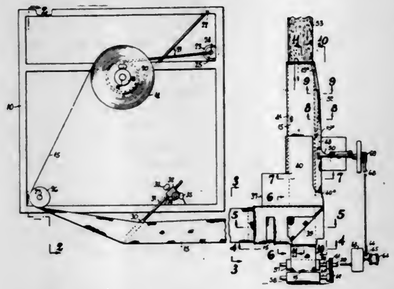
device, and a locking cam keyed to said tripping device, said tripping device being rotatable during a preliminary movement of said support to release said inner pair of spring contact members and to position said cam between said outer spring members and being restorable to release said outer pair of spring contact members.

2,352,353
TIME DELAY RELAY SYSTEM
Joe White, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 23, 1940, Serial No. 371,285
4 Claims. (Cl. 175—320)



1. A circuit control system comprising a current consuming device; a current source; manually controlled switch for establishing a connection in the circuit between the source and the device; and means set into action by the establishment of said connection for completing the circuit between the source and the device a predetermined time after commencement of the establishment of the said first connection, said last mentioned means including a first relay having a core surrounded by a tube for retarding flux decay, a second relay having a core, each of said cores being surrounded by a single coil adapted to be connected in a different circuit, said first relay controlling a normally closed switch in the circuit of the device and a normally open switch having connections with the coil of the second relay, and the second relay controlling a normally closed switch having connections with the coil of the first relay and a normally open switch having connections with the coil of the second relay and both switches controlled by the first relay, the first coil being energized upon closure of the manually controlled means to open the first mentioned normally closed switch and close the first mentioned normally open switch whereby the second coil is in circuit with the source, the energization of the second coil opening the second normally closed switch and closing the second normally open switch for completing another circuit for the second coil with the source, the closing of the second mentioned normally opened switch opening the circuit to the first coil, said first coil, after its flux decay, permitting the first mentioned normally open switch to close and complete the circuit to the device through a circuit including the closed normally open switch of the secondary relay and the closed manually controlled switch.

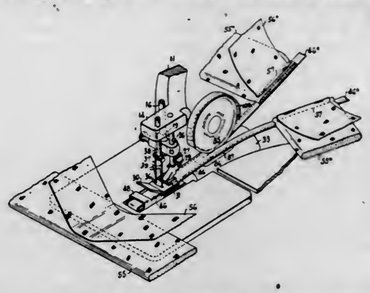
2,352,354
METHOD AND APPARATUS FOR FORMING BANDAGE STRIPS
William D. Young, Greenville, S. C.
Application November 30, 1942, Serial No. 467,351
15 Claims. (Cl. 112—2)



1. Apparatus for continuously encasing a moving strip of filler material within a moving sheet of cover material, comprising means for folding said cover sheet into a U-shape in cross-section substantially along its longitudinal center line, a hollow form disposed at an angle to the line of travel of said U-shaped cover sheet, said form being adapted to receive said moving filler strip, means for reversly rotating the folds of said U-shaped cover sheet about said center line through an angle of substantially 180 degrees and over the exterior of said hollow form to thereby reverse the concavity of the U-shaped cover, means for forming a line of stitches near the edges of said U-shaped cover to form a tubular cover while the cover travels longitudinally over said form, means for reversely directly said tubular member at the end of said form, and then through the interior of said form over said moving filler strip whereby the filler material is encased in said tubular cover, the end of the form where the tubular member is reversed having a laterally extending member disposed at an angle to the longitudinal plane of the form to engage the flaps extending from the line of stitches to turn them both in the same direction against the side of the tubular member and away from the side edge of the form.

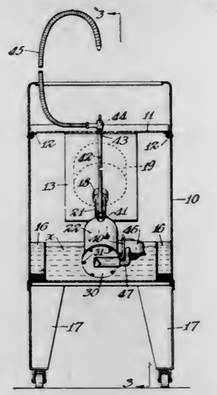
2,352,355
METHOD AND MEANS FOR ATTACHING TIE TAPES TO BANDAGE STRIPS
William D. Young, Greenville, S. C.
Application November 30, 1942, Serial No. 467,352
2 Claims. (Cl. 112—2)

1. That method of sub-dividing bandage strips into shorter lengths and attaching tie tapes thereto which comprises successively positioning a plurality of parallel bandage strips upon a transversely disposed base strip, positioning a tie tape upon each bandage strip, then successively uniting the tie tapes, bandage strips, and base strip by a pair of substantially parallel seam lines extending longitudinally of the base strip, and then severing said tie tapes, bandage strips, and base strip along a line between said seam lines



to thereby subdivide each bandage strip and associated tie tape into two bandage strips, with each strip having a tie tape attached thereto.

2,352,356
AUTO PARTS WASHER
Victor N. Albertson, Minneapolis, Minn.
Application May 7, 1941, Serial No. 392,267
3 Claims. (Cl. 141—1)

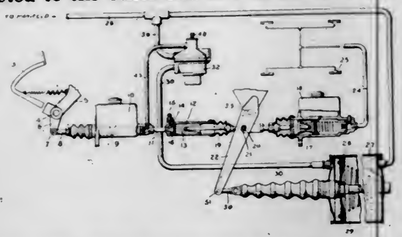


1. In a washer of the kind described, a fluid container having a work table located therein with clearance between its edges and the walls of said container, whereby washing fluid utilized for cleaning work over the table will be caused to run down or adjacent to the walls of said container, said container having a catch trough located below said table along the interior of the wall of said container and adapted to initially catch the relatively dirty washing fluid and retain sediment thereof.

2,352,357
PNEUMATICALLY ASSISTED HYDRAULIC BRAKE SYSTEM
John R. Almond, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application November 12, 1941, Serial No. 418,687
3 Claims. (Cl. 60—54.5)

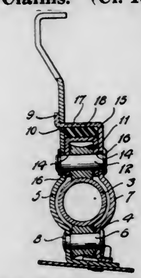
3. The combination of a primary master cylinder and piston, a secondary master cylinder and piston, a slave cylinder and piston located between said master cylinders, a piston rod constituting a thrust connection between the pistons of the slave and secondary master cylinders where-

by the former operates the latter to apply pressure to the brakes by manual force, a lever fulcrumed at one end, a power operated piston connected to the other end of said lever, said thrust



connection being connected to said lever at an intermediate point thereon, and a control valve operated by pressure developed in the primary master cylinder to control the operation of said power piston.

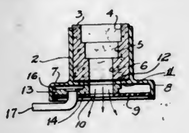
2,352,358
ADJUSTABLE AUTOMOBILE SEAT
Andrew Christian Andersen, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application October 12, 1939, Serial No. 299,177
2 Claims. (Cl. 155—14)



2. In a vehicle seat adjuster, a pair of support members one of which is adapted to be fixed to the seat and the other of which is adapted to be fixed to the floor of the vehicle, one of said members having a runner portion, a tie-down member secured to one of said support members to form a housing through which the runner portion of the other support member passes, a roller rotatably supported by the said tie-down member and cooperating support member in the lower portion of said housing upon which the runner portion of the other support member runs, and a cooperating roller positioned in the housing above the said runner member having a rolling contact with the said runner portion, an axle for said roller having a floating fit in the openings provided therefor in the said tie-down and cooperating support members, and resilient pressure means positioned between the tie-down member and upper roller exerting a downward pressure on the upper roller whereby the said runner portion is retained in a rattle-proof running engagement with the lower support roller.

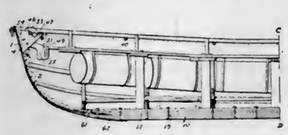
2,352,359
FAUCET SPRAY NOZZLE
Max Leona Anderson, Los Angeles, Calif.
Application March 19, 1943, Serial No. 479,813
6 Claims. (Cl. 299—145)

1. In a nozzle of the class described, an enclosing shell, a cork bushing located inside the top portion of said shell and provided with several diameters of bores adapted to be adjusted and mounted upon the discharge nozzle of a faucet by frictional contact, a horizontal flange in the body of the shell at its lower portion extending to a larger diameter than the top portion of the shell, an interior horizontal flange extending under the said cork bushing and provided with an aperture approximating the diameter of the smallest bore of the said cork bushing, a strainer of suitable material mounted on the interior horizontal flange and underneath the cork bushing, an outside circular downward extending flange on said shell, a perforated plate mounted in the bottom of this downward flange thus forming an enclosed space between the aforementioned horizontal flange and the said perforated plate, a central aperture in said perforated plate which aperture approximates the diameter of the smallest bore of the cork bushing, a valve block mounted



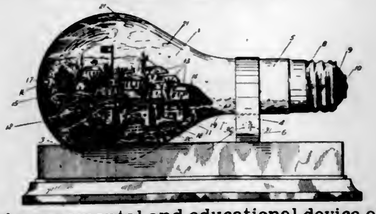
in between the said horizontal flange and the said perforated plate, said valve block provided with a tubular portion of a depth extending between the said perforated plate and the underside of the said horizontal flange of the said shell and the said valve block having a valve portion on the body of the said block of substantially less thickness than the depth of said tubular portion and of an outline adapted to contact and to cover the aperture in the said perforated plate as and when the said valve portion is placed in position over the said aperture; in combination with means for supporting and moving the said valve block in the said space between the said horizontal flange and the said perforated plate and in sliding movement to cover and uncover the aperture in the said perforated plate, the said valve portion on said valve block contacting closely the inner surface of the said perforated plate.

2,352,360
PLYWOOD LIFEBOAT
Ludwig S. Baier, Portland, Oreg.
Application November 8, 1943, Serial No. 509,464
6 Claims. (Cl. 9—23)



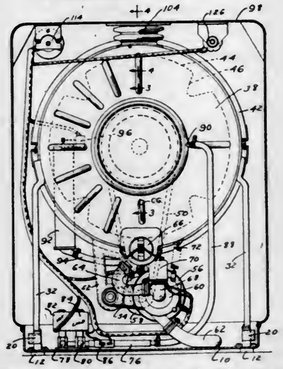
1. In a life boat having a keel and keelson, solid wood frames and a plywood shell; metal stem and stern posts secured to the fore and aft ends respectively of the shell and extending down to the keel, said stem and stern posts having side flanges of increased width at their upper ends, pairs of parallel plates integrally secured to the stem and stern posts and spaced apart at the mid-plane of the boat, spacers between said plates and said upper ends, and pins passing through said spacers, said plates, the shell and said upper ends and having their outer ends riveted over, thereby strengthening the prow and stern of the boat.

2,352,361
EDUCATIONAL ARTICLE
Manuel E. Ballestero, Baltimore, Md.
Application April 8, 1942, Serial No. 438,173
2 Claims. (Cl. 41—10)



1. An ornamental and educational device of the class described, comprising in combination, a hollow globular glass bulb of conventional incandescent light form with a restricted open neck portion tapering therefrom, a conventional screw base element arranged for attachment to the said open neck portion, a plurality of stationary plastic model objects of ornamental significance internally arranged within the bulb and occupying a space therein substantially greater than the opening in said neck without visual indication as to how same were placed therethrough and supported therein, a lighthouse structure among the models and predeterminedly located therein, light-propelled rotating vanes supported in the lighthouse arranged so as to be externally visible, a plurality of mirrors disposed adjacent to the said objects, an external light and reflector attached externally to the bulb so the light rays therefrom will be directed towards the vanes so as to energize and rotate same and reflect beams of light therefrom and induce intermittent reflections on the mirrors, glass of the bulb and objects within the bulb.

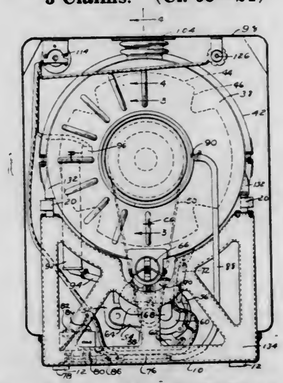
2,352,362
LAUNDRY MACHINE
Rex Earl Bassett, Jr., South Bend, Ind., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware
Application April 4, 1938, Serial No. 199,808
10 Claims. (Cl. 68—24)



3. A laundry machine including a support, a generally cylindrical tub with its axis substantially horizontal and a container movably mounted in the tub and a motor and a multiple-speed gearing driven by the motor and driving the container and all of which are secured together in a unit, and yielding means for mounting said unit on the support and for transmitting vertical components of said movements of the unit to said support, said yielding means including blocks of rubber material carried by the support and relatively long generally-vertical laterally flexible arms mounted on said blocks and secured at their upper ends to said tub above the center of gravity of said unit, so that the unit may move in a horizontal plane against the lateral yielding resistance of said arms.

8. In washing apparatus, the combination of a casing structure, a container for fluid disposed within the casing structure, said casing and container having respective registering access openings formed therein, means for agitating the fluid within the container, means for flexibly supporting the container within the casing structure, and a wall member extending between the container and the casing and disposed peripherally of said access openings, said wall member permitting relative movement between the container and the casing structure.

2,352,363
LAUNDRY MACHINE
Rex Earl Bassett, Jr., Miami Beach, Fla., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware
Original application April 4, 1938, Serial No. 199,808. Divided and this application November 25, 1943, Serial No. 511,735
3 Claims. (Cl. 68—24)



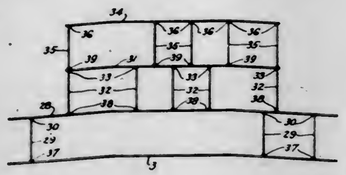
1. A laundry machine including a support, a generally cylindrical tub with its axis substantially horizontal and a container movably mounted in the tub and a motor and a multiple-speed gearing driven by the motor and driving the container and all of which are secured together in a unit, and yielding means for mounting said unit on the support and for transmitting vertical components of said movements of the unit to said support, said support including parts adjacent the sides of said tub, and said yielding means including blocks of rubber material carried by said parts above the center of gravity of the unit and members mounted on said blocks and secured to said tub and carrying said unit.

2,352,364
METHOD OF WELDING
Clay P. Bedford, Berkeley, Calif.
Original application March 2[illegible]1942, Serial No. 435,656. Divided and this application April 29, 1943, Serial No. 485,[illegible]
3 Claims. (Cl. 114—79)

WITHDRAWN

1. The method of constructing a deckhouse of steel plates by welding them together, which

comprises welding steel bulkheads to a steel deck with said deck below said bulkheads, turning the



resulting structure to place the deck above said bulkheads, and welding said bulkheads to a steel deck below said bulkheads.

2,352,365

RECOVERY OF FATTY SUBSTANCES BY FROTH FLOTATION

Robert Ben Booth, Springdale, Conn., and Adolphus Mangum Webb, Bronxville, N. Y., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 11, 1941, Serial No. 378,412
5 Claims. (Cl. 210—53)

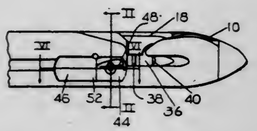
1. In a process of recovering wool grease values from wool steeping and wool washing liquors containing emulsified wool grease and which overfroth when subjected to froth flotation, the steps of treating the emulsion-containing liquors with a sufficient amount of a strong mineral acid to liberate substantially all the emulsified wool grease, subjecting the acid-treated liquors to froth flotation in the presence of a petroleum distillate having a specific gravity of about 30–90° Bé. and present in amounts sufficient to prevent overfrothing but insufficient to dissolve a substantial amount of the wool grease, collecting the resultant froth concentrate and isolating the wool grease therefrom.

2,352,366

FILLING CUTTING MEANS

Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application January 21, 1944, Serial No. 519,117
3 Claims. (Cl. 139—196)



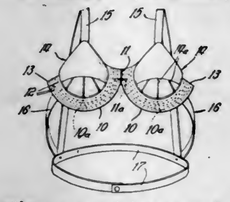
1. In a shuttle for automatic looms having a threading block, a side delivery eye and a bolt for securing the threading block in position, a plate having a threaded opening for receiving said bolt and located close to said side delivery eye, said plate having a substantially horizontal groove therein in which the filling runs during operation of the loom, and an extension on said plate having a forward plane surface against which the filling is cut, said forward surface of said extension being offset rearwardly from the forward face of said plate to prevent engagement of the running filling with said forward surface of said extension.

2,352,367

BRASSIÈRE

Ylona Bujdossy, Los Angeles, Calif.

Application August 10, 1942, Serial No. 454,347
2 Claims. (Cl. 2—42)



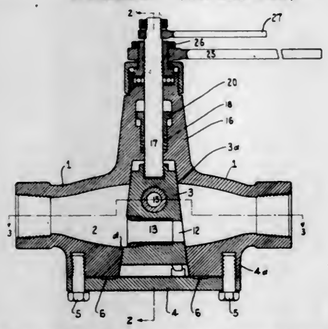
1. A brassière comprising a pair of breast receiving cups tapering toward the top above the breasts; breast supporting portions secured to the lower edges and adjacent sides of the cups, the breast supporting portions consisting of substantially semi-circular strips united intermediate the cups with the outer ends terminating substantially at the transverse center lines of the cups, said strips being of uniform width to adapt them to fit beneath the breasts with their lower edges conforming to the body of the wearer while the upper edges conform to the outward curvature of the breasts to afford upright support therefor; shoulder straps secured to the upper apex portions of the cups adapted to extend across the shoulders and downwardly adjacent the sides to the waist of the wearer; downwardly and rearwardly extending bands secured to said breast supporting portions at a distance removed from the free outer ends of said supporting portions with the lower ends of said bands connected with the lower ends of the shoulder straps; and waist encircling member to which the lower ends of the shoulder straps and said last mentioned bands are secured.

2,352,368

VALVE

Robert N. Burnett, deceased, late of Monrovia, Calif., by Sylvester Hoffmann, executor, Glendale, Calif.

Application July 12, 1941, Serial No. 402,164
4 Claims. (Cl. 138—46)



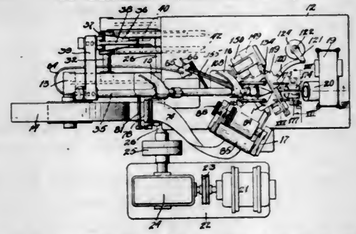
1. A variable bean valve comprising a valve body having a fluid passage therethrough, a conical seat in said body, a rotatable plug in said seat, a plurality of ports in said plug, said ports being placed in said plug at an angle to each other, removable beans in said ports, a plurality of openings in said valve body cooperating with said ports whereby on rotation of said plug each of said ports may be brought into registry with certain ones of said cooperating openings, the edges of the port in registry with said openings being sealed against the cooperating surface of said seat when said port is in registry with said cooperating opening and the opposite end of said port being sealed by said plug against the opposite wall of said seat whereby the bean may be removed from said port while said port is sealed from said fluid passage, and another of said ports being open to said fluid passageway while said first named port is in registry with its cooperating opening, whereby fluid in said passageway may pass through said port while the bean is changed in said registering port, and means for rotating said open port into registry with another opening and said first named registering port into a position open to said fluid passageway whereby fluid in said fluid passageway may pass through said last named port and removable closures for said openings.

2,352,369

CONTAINER MAKING MACHINE

Herman Carew, Easton, Pa., assignor to Dixie Cup Company, a corporation of Delaware

Application August 12, 1938, Serial No. 224,479
43 Claims. (Cl. 93—36.1)



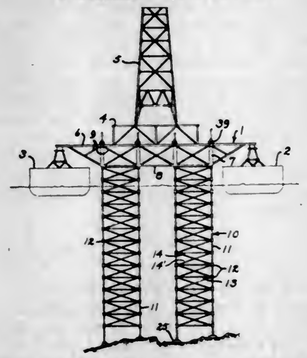
1. In a container making machine, a reciprocatory forming element movable continuously in each direction between reversals of direction and capable of carrying a blank to be formed thereabout, and forming means movable into position to act on the blank carried by the forming element during its continuous movement in one direction, and means arranged to operate in timed relation to said element to retract certain of said forming means out of the way of said element on its return movement.

2,352,370

DERRICK SUPPORT FOR UNDERWATER DRILLING

Robert L. Carruthers, New Iberia, La.

Application December 6, 1940, Serial No. 368,757
4 Claims. (Cl. 61—46)



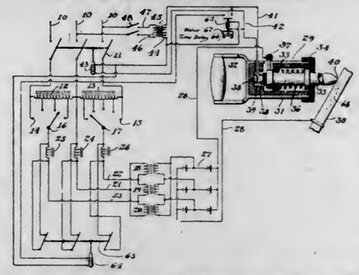
1. A marine foundation comprising a platform, a framework attached thereto including vertically alined connectors, said framework extending downwardly to a point proximate a surface upon which the structure is to be supported, pillars movably passing through said connectors, a footing member on the lower end of each pillar, and means for adjusting the relative position of the platform and pillars to distribute the load upon the pillars.

2,352,371

MAGNETIC TESTING APPARATUS AND METHOD OF MAGNETIZING

John E. Clarke, Chicago, Ill., assignor to Magnaflux Corporation, Chicago, Ill., a corporation of Delaware

Application September 10, 1941, Serial No. 410,334
13 Claims. (Cl. 175—183)



1. In the magnetic inspection of engineering materials, in combination, a specimen to be inspected, a source of direct current, circuit means including said source connected with said specimen for current flow through the specimen to magnetize it, and means connected with said circuit means arranged operable to condition said circuit means to produce an initial surge of current of one intensity through the specimen for a predetermined short period of time followed by current of a substantially lower intensity for the period of inspection.

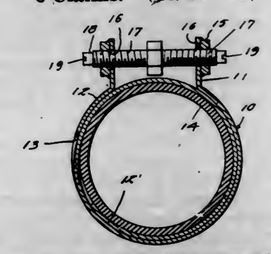
5. In the magnetic inspection of engineering material which includes sending current through a specimen of the material, the method which comprises the steps of sending a preliminary surge of direct current of one intensity through the specimen for a predetermined short period of time followed by a maintained direct current through the specimen of another and substantially lower intensity for the inspection period.

2,352,372

HOSE CLAMP

Gesuele Colarusso, Old Boston Settlement, Pa.

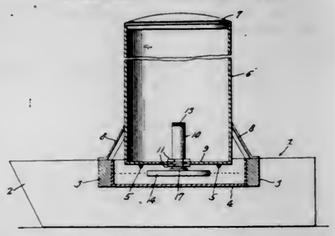
Application May 27, 1942, Serial No. 444,713
3 Claims. (Cl. 24—19)



3. A hose clamp or the like comprising a flexible strip provided with an opening through which one terminal of the band is adapted to be passed to completely surround and embrace hose or the

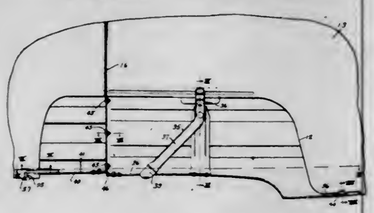
like, and means operable to simultaneously move both terminals of the band, comprising a bolt having screw threaded portions at opposite ends thereof, the screw threaded portions being opposide and threaded to said terminals and means on the bolt for engagement by a tool to turn the bolt.

2,352,373
POULTRY DRINKING FOUNTAIN
Andrew S. Eash, Wellman, Iowa
Application March 23, 1943, Serial No. 480,206
1 Claim. (Cl. 119—80)



A drinking fountain for fowls comprising a base including a pair of runners and spaced cross members extending between said runners and flush with the upper edges thereof, a pan mounted in the base within the confines of the runners and the cross members and flush with the upper edges thereof, rods mounted on the runners and traversing the pan below the top thereof, a reservoir mounted on said rods, said reservoir being adapted to receive water, and a float valve controlled discharge pipe for conducting water from the reservoir into the pan.

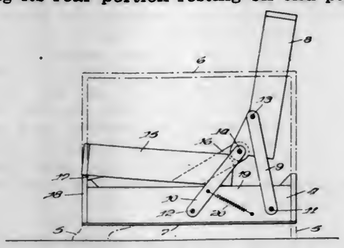
2,352,374
FENDER SHIELD CONSTRUCTION AND ASSEMBLY
Arthur P. Fergueson and George W. Schatzman, Detroit, Mich., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application June 26, 1941, Serial No. 399,771
6 Claims. (Cl. 280—153)



1. A closure member for a wheel opening in a vehicle body comprising a pair of panels, one of said panels being constructed and arranged to be adjustably positioned in one of a plurality of offset parallel planes with respect to the other of said panels.

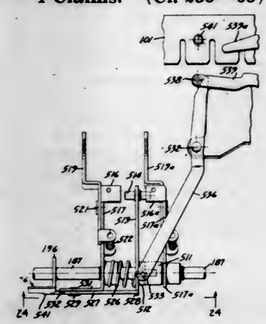
2,352,375
SOFA BED
Martin Fox, Chicago, Ill., assignor to The Seng Company, a corporation of Illinois
Application September 12, 1942, Serial No. 458,101
2 Claims. (Cl. 5—47)

1. A sofa bed, comprising: a supporting base frame having end panels and side panels; a back section pivotally mounted on said base frame by means of a pair of spaced pitmans at each end of the base frame, the rear pitmans being longer than the front pitmans; a seat section hinged to said back section so as to form a horizontal extension thereof when the back section is swung down to form a bed, and when in sitting position having its rear portion resting on end panels of



supporting frame and being inclined upwardly and forwardly with its front portion resting on the front side panel of the supporting frame; and means on the front of the seat section for locking it automatically in sitting position against forward or rearward movement with respect to said supporting frame.

2,352,376
CALCULATING MACHINE
Carl M. Friden, Pleasanton, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application May 19, 1942, Serial No. 443,549
4 Claims. (Cl. 235—63)

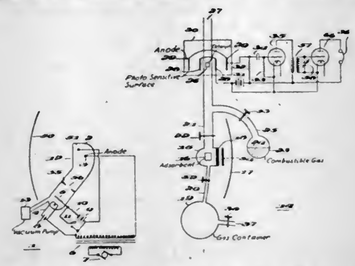


1. In a calculating machine having a shiftable carriage, a register in said carriage, actuating means for said register and means for shifting said carriage in either direction; multiplier mechanism including means for causing operation of said shifting means at the end of each ordinal multiplication, adjustable means for controlling the direction of operation of said shifting means in response to the control of said operation causing means, tabulating mechanism for controlling said shifting means to cause positioning of said carriage in any selected one of a plurality of positions, and means controlled by said tabulating means upon operation thereof for adjusting said adjustable means.

2,352,377
INFRARED CONTROL DEVICE
Oliver T. Francis, Renville, Minn.
Application June 29, 1939, Serial No. 281,964
14 Claims. (Cl. 250—1)

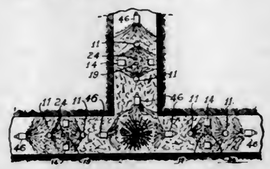
1. The method of indicating the presence of photons between 5 and 15 mu, received from a

variable source of radiant energy, which consists in evaporizing molecules of gas from an adsorbent by said photons, in producing higher energy photons than 5 mu by combustion of said



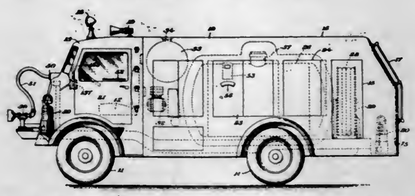
molecules, in producing variations in an electric current in accordance with the magnitude of said higher energy photons, and in translating said variations of electrical current into signals.

2,352,378
FIRE EXTINGUISHING METHOD AND APPARATUS
Eric Geertz, Glen Ellyn, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application March 11, 1941, Serial No. 382,815
17 Claims. (Cl. 169—2)



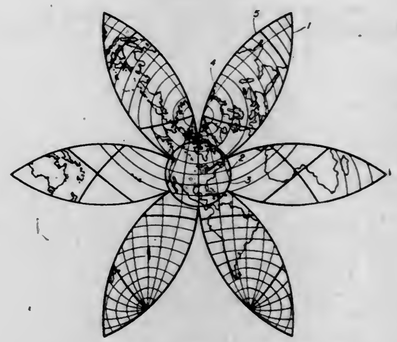
1. A method of extinguishing fires in mines and other enclosed spaces where dust producing materials are handled, comprising creating fire barriers of a mixture of inert gas and a non-combustible dust to prevent the propagation of flame from the place of origin of the fire, and creating a fire extinguishing atmosphere at the place of origin of the fire by totally flooding with inert gas the portion of the enclosure located between said barriers.

2,352,379
MOBILE FIRE FIGHTING APPARATUS
Eric Geertz, Glen Ellyn, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application August 14, 1941, Serial No. 406,890
31 Claims. (Cl. 169—24)



1. A fire fighting unit comprising a self-propelled wheeled body including an enclosing housing and a driver's cab in advance of the housing, an insulated pressure liquid carbon dioxide storage tank within the housing, a mechanical refrigerating device within the housing and operatively connected to said tank for lowering the temperature and pressure of the liquid carbon dioxide, means operating in response to an increase in pressure in the tank for causing the refrigerating device to operate to maintain the liquid in the tank at a desired constant low temperature and pressure, a dirigible discharge device connected to the tank for discharging carbon dioxide and mounted on the front portion of the body above the plane of the body chassis and forward of the driver's cab so that discharging carbon dioxide to the front, the side or upwardly of the body will not be interfered with by any portion of the body, and means operable from within the driver's cab for adjusting the position of and for controlling the flow of carbon dioxide to the discharge device.

2,352,380
MAP PROJECTION
Walter G. Gingery, Indianapolis, Ind.
Application November 27, 1942, Serial No. 467,114
4 Claims. (Cl. 35—40)



1. A map, comprising a plurality of gores, each comprising a flat surface bounded by two smooth curves such that when placed upon the surface of a globe it approximates the shape of a lune, said gores being uncut for a given distance from one of their vertices and leaving a small circular portion of the sphere which is flattened with said vertices being disposed at a point remote from the geographical poles of the globe.

2,352,381
FIGURE LINK FOR JEWELRY
Samuel D. Goldstein, St. Louis, Mo.
Application June 8, 1942, Serial No. 446,190
1 Claim. (Cl. 63—20)

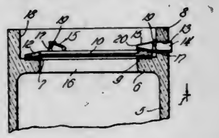
An article of jewelry comprising a series of elongated links each having a back face lying approximately in a plane and a frontal face impressed to form an ornamental design, a flat elongated tongue of deformable material extending longitudinally from one end of the link and a U-shaped grommet extending longitudinally from the other end of the link, said grommet having one face lying in the plane of the back face but inset from the frontal face of the link and said tongue joining the link at a point offset outwardly from the back face of the link, the distance of offset of the tongue corresponding approximately to the thickness of the grommet,

said tongue extending through the grommet of an adjacent link and bent backwardly to form a pivotal connection therewith, whereby the links



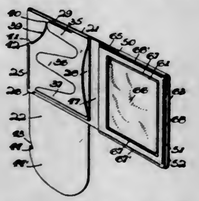
are coupled together in aligned slightly overlapped relation with the offset at the end of one link forming clearance for receiving the opposite end of an adjacent link.

2,352,382
CLOSURE
Walter H. Hendricks, Sycamore, Ill.
Application June 25, 1943, Serial No. 492,273
8 Claims. (Cl. 215—38)



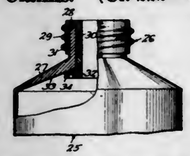
1. In combination, a container member having an annular lip defining the opening thereof, a closure member adapted to be disposed over said lip, an annular tapered surface on one of said members, and circumferentially spaced plugs on the other of said members movable radially inwardly and having frusto-conical inner ends for wedging action on said tapered surface to clamp said closure member on said lip.

2,352,383
FOLDER FOR BILLS, CARDS, COINS, KEYS, OR THE LIKE
Henry M. Herbener, Thomasville, Ga.
Application November 6, 1942, Serial No. 464,807
10 Claims. (Cl. 150—35)



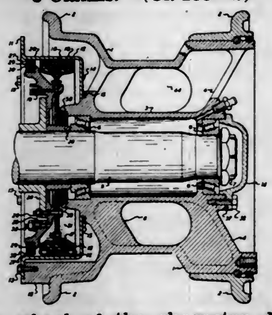
1. A bill folder comprising a bill receiving unit, said bill receiving unit including first and second sides connected adjacent to their ends and foldable upon a transverse line to assume an opposed closed position, a partition carried by the first side adjacent to one longitudinal edge thereof and foldable about a longitudinal line to be arranged between the first and second sides when they are closed, said partition having a transverse folding edge arranged near the transverse folding line, said partition having sets of transverse key receiving pockets, one set of transverse key receiving pockets having open ends arranged next to the said longitudinal edge of the partition to be covered by such folded edge and the other set of transverse key receiving pockets having open ends arranged next to the opposite longitudinal edge of the partition, and a side connected with the first side adjacent to the opposite longitudinal edge thereof and foldable about a longitudinal line to be arranged over the folded second side and partition, the folded last named side serving to cover the open ends of the last named set of key receiving pockets.

2,352,384
TIN-COATED COLLAPSIBLE TUBE
John Hoch, Corona, Long Island, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application July 12, 1941, Serial No. 402,116
2 Claims. (Cl. 222—92)



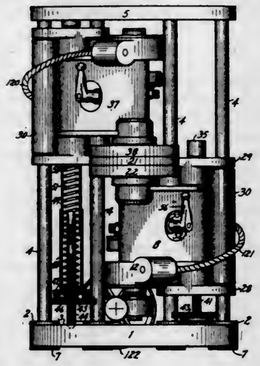
2. A collapsible tube comprising a conical shoulder having an opening therein, an upstanding cylindrical distortable lip surrounding the opening, a one piece neck-forming member having a pair of spaced apart concentric walls joined at their tops by an integral annular wall, the outer of the concentric walls being externally threaded to receive a cap and terminating at a point above the shoulder to permit the neck-forming member to be forced downwardly along the lip, the inner of said concentric walls extending downwardly below the shoulder and being externally threaded at its lower end, and a separate nut on said lower end screwed against the inner surface of the shoulder and drawing the neck-forming member downwardly until the annular wall is in sealing contact with the upper edge of the lip and said lip is expanded sufficiently to fill the space between the concentric walls.

2,352,385
WHEEL AND BRAKE STRUCTURE
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application September 22, 1941, Serial No. 411,781
3 Claims. (Cl. 188—2)



1. In a wheel of the character described, a body, a brake drum member therefor having an inside friction braking surface and provided with a radially inwardly extending flange at one edge, said brake drum member being provided with an extension at its opposite edge having an inner surface aligned with the friction braking surface and said extension having an angularly outwardly extending flange, means cooperating with one of said flanges and with the wheel body establishing a fluid sealed chamber within the brake drum, said brake drum and the extension thereof having a single uniform continuous internal diameter, brake means within the brake drum and cooperable with the internal friction braking surface thereof, a cover at the open side of said brake drum enclosingly covering the brake means and the friction surface therefor and having a peripheral portion disposed adjacent to the inner wall of the extension of the brake drum, and an annular sealing member carried by the peripheral portion of said cover and engaging with the inner surface of the extension of the brake drum.

2,352,386
OPTICAL FLAT GENERATOR
Arthur J. Holman, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application June 29, 1942, Serial No. 449,010
22 Claims. (Cl. 51—55)

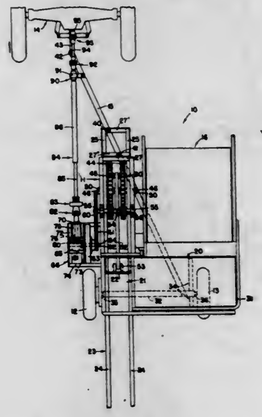


1. A mechanism for generating optical flats, comprising a rotatable work spindle, a tool spindle, a chuck squared to and centered on said work sprindle, means for moving simultaneously each of said spindles transversely with respect to the path of the other, a tool squared to and centered on said tool spindle, and means adapted and arranged to constrain the relative movements of said spindles through space so that their axes will always remain parallel.

2,352,387
PROCESS FOR THE PRODUCTION OF CONDENSATION PRODUCTS
Heinrich Hopff, August Weickmann, and Rudolf Kern, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 1, 1940, Serial No. 338,374. In Germany June 7, 1939
12 Claims. (Cl. 260—65)

6. Condensation products which consist of hexamethylene diamine with monomeric carbonyl compounds selected from the class consisting of aldehydes and ketones in the molecular ratio of about one carbonyl group of the carbonyl compounds for each amino group of the diamine.

2,352,388
HAY PRESS
Frank D. Jones, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa
Application February 14, 1942, Serial No. 430,914
3 Claims. (Cl. 100—3)

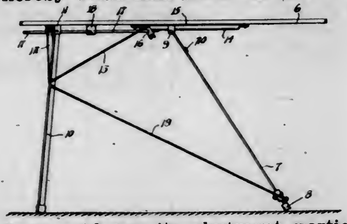


1. A field hay press comprising, in combination, a fore and aft extending main frame supported on a pair of laterally spaced wheels journaled on the intermediate portion of the frame, a draft member rigidly attached to said main frame and extending forwardly and laterally to a point of draft connection outside of the planes of rotation of said wheels, baling mechanism carried on said frame, a bull gear journaled near the forward end of said frame for rotation about a transverse axis and connected with said baling mechanism to drive the latter, a secondary frame fixed to the side of said main frame and extending laterally therefrom in the direction of offset of said point of draft connection, a gear box mounted on said secondary frame and disposed outside the plane of rotation of the adjacent wheel substantially in longitudinal alignment with said point of draft connection, a power shaft extending forwardly from said gear box and rotatably supported near the front end of said draft member and adapted to receive power from a tractor, a second shaft extending laterally inwardly from said gear box toward said main frame and suitably connected within said gear box with said power shaft, a flywheel mounted on said second shaft, and a flexible endless power transmitting member extending forwardly to connect said second shaft in driving relation with said bull gear.

2,352,389
IRONING TABLE
Henry V. Keller, Minneapolis, Minn.
Application September 2, 1941, Serial No. 409,193
4 Claims. (Cl. 38—118)

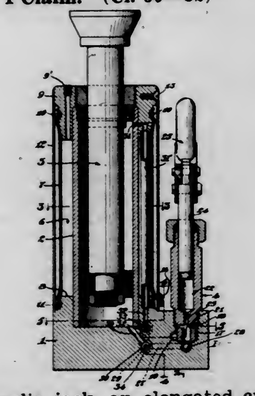
4. In an ironing table, a top, front and rear leg units pivoted to and swingable downwardly from said top, said rear leg unit including a pair of legs mounted for lateral spreading movement when swung away from said top, a leg brace extending between said front and rear leg units, a locking brace pivotally connected to said rear leg unit and extending forwardly to said top, and said front leg unit including an abutment portion lying between said locking brace and said

top when said leg units are folded against said top, whereby when said front leg unit is swung



away from said top its abutment portion will engage said locking brace and swing it and said rear leg unit away from said top.

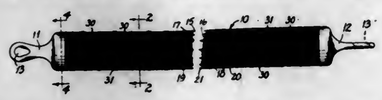
2,352,390
HYDRAULIC JACK
Everett R. Kirkland, Torrance, Calif.
Substituted for abandoned application Serial No. 366,225, November 19, 1940. This application May 13, 1943, Serial No. 486,890
1 Claim. (Cl. 60—52)



In a hydraulic jack, an elongated cylinder, a reciprocable ram in said cylinder, a pump for operating said ram, cylinder heads connected to the ends of the cylinder and extending radially beyond the outer face of said cylinder, said cylinder heads each having spaced inner and outer stepped shoulders formed thereon, an elastic jacket surrounding and circumferentially spaced from said cylinder and extending substantially the full length thereof and having its terminals fitted on the inner shoulders of the heads, means securing the terminals of said elastic jacket on said inner shoulders, said heads, cylinder and elastic jacket forming a fluid reservoir around the cylinder, a protecting casing shell open to the atmosphere surrounding the jacket in spaced relation thereto and having its terminals fitted on the outer shoulders of the cylinder heads, said jacket being adapted to inflate and collapse radially responsive to variations in the volume of fluid in the reservoir, conduit means for communicating the reservoir, pump and cylinder with one another, and valve means for controlling the flow of fluid through said conduit means.

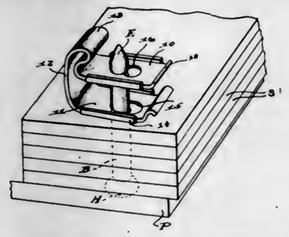
2,352,391
FLEXIBLE TENSION MEMBER
Donald C. Kitselman, United States Army, Las Vegas, Nev.
Application March 11, 1943, Serial No. 478,811
8 Claims. (Cl. 74—501)

1. A control cable for the purpose described, consisting of a length of spirally laid, open mesh, fine metal wire tubing, a plurality of widely spaced, substantially longitudinal tension wires



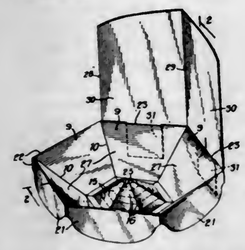
supported in and embraced by said tubing, and additional spacing and supporting wires engaging the tension wires.

2,352,392
SHEET CLAMPING DEVICE
Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application August 4, 1943, Serial No. 497,320
2 Claims. (Cl. 85—36)



1. The combination of a pin having a head at one end and a reduced neck adjacent the opposite end, said pin being adapted to be inserted through aligned apertures in a stack of superimposed sheets with the head of the pin engaging one side thereof, a fastener for clamping said sheets, said fastener comprising a pair of arms, an integral spring connection between said arms, said spring normally holding said arms out of parallel relationship, one arm having an elongate slot extending lengthwise thereof, the other arm having a keyhole slot extending lengthwise thereof, said slots being adapted to be moved into registration when said arms are substantially parallel whereby the arms can be applied to said pin until the large portion of the keyhole slot is adjacent the reduced neck on said pin whereupon the fastener is shifted laterally to dispose the neck in the smaller portion of the keyhole slot, said first arm bearing against the stack.

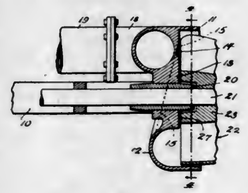
2,352,393
COLLAPSIBLE PAPERBOARD RECEPTACLE
George N. Lee, Yonkers, N. Y., assignor to Brett Lithographing Co., Long Island City, N. Y.
Application June 30, 1941, Serial No. 400,456
7 Claims. (Cl. 206—44)



1. A collapsible paper board receptacle made of a single blank of material shaped to produce

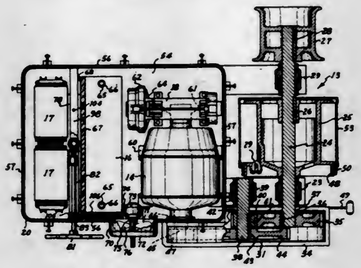
uniform panels having longitudinal score lines therebetween, said panels each being provided at their lower portions on said score lines with spaced perforations and said panels having spaced parallel score lines extending transersely thereof between said perforations providing interconnected relatively bendable parts adapted, upon opening of the receptacle and application of pressure thereon, to be distended within said receptacle and form a portion of the wall structure thereof.

2,352,394
HYDRAULIC DREDGING APPARATUS
Charles K. Little, Vicksburg, Miss.
Application June 23, 1943, Serial No. 491,993
4 Claims. (Cl. 37—67)



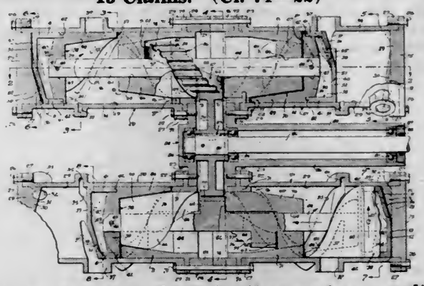
1. In hydraulic dredging apparatus, a low pressure combined pump and rotary cutter to aid in loading water and solid material in suspension therein to the intake of a centrifugal dredging pump in addition to the suction loading action of the centrifugal dredging pump, said low pressure combined pump and rotary cutter including a rotary cutter element to loosen the solid material and feed the water and solid material in suspension therein axially of the rotary cutter element, and a part having a spiral passage to receive the water and solid material in suspension therein from the rotary cutter element.

2,352,395
MATERIAL HANDLING APPARATUS
Rolf E. Ljungkull, St. Paul, Minn., assignor to American Hoist & Derrick Company, St. Paul, Minn., a corporation of Delaware
Application August 28, 1940, Serial No. 354,563
13 Claims. (Cl. 172—179)



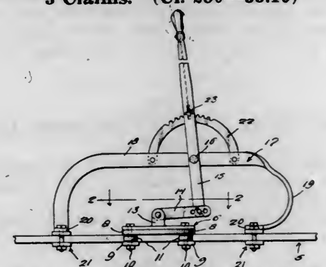
1. In material handling apparatus including an entity to be actuated, an operating electric motor for said entity, means including a control panel and resistors for controlling said operating electric motor, a single housing containing said operating electric motor, control panel and resistors, said operating electric motor and said resistors being disposed at opposite sides of said control panel, and a heat insulator in said housing between said control panel and resistors.

2,352,396
INTERNAL-COMBUSTION ENGINE
Kenneth R. Maltby, Lavonia Township, Oakland County, Mich.
Application February 20, 1942, Serial No. 431,655
13 Claims. (Cl. 74—22)



1. In an internal combustion engine, a cylinder, a piston reciprocable in said cylinder, a piston rod connected to said piston, a power output member, spirally-shaped power transmitting means operatively connecting said piston rod with said output member and a housing encircling said spirally shaped power transmitting means having guide means engaging said spirally shaped power transmitting member for imparting rotary motion to said output member.

2,352,397
DRAFT HITCH
Charles E. Mark, Barryton, Mich.
Application May 24, 1943, Serial No. 488,246
3 Claims. (Cl. 280—33.10)

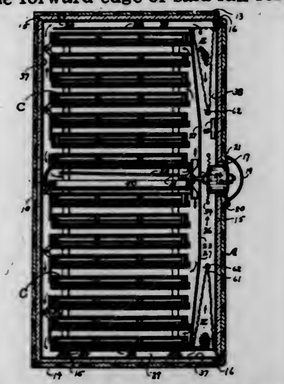


1. In a draft hitch, a draw bar extending transversely of and secured to a prime mover, an implement connecting yoke of substantially U shape providing a bight portion and parallel arms bent upon themselves to form hook shaped portions coacting with the arms in slidably receiving the bar with the arms disposed over the bar, antifriction rollers carried by the hook shaped portions and arms and engaging the bar at opposite edges of the latter, a plate connecting the arms and overlying the latter, a link pivoted to said plate, and an operating means connected to the link and mounted on the bar beyond the limit of the sliding movement of the yoke on said bar.

2,352,398
COMBINATION INCUBATOR AND HATCHER
George T. Markey, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a corporation of Wisconsin
Original application November 10, 1939, Serial No. 303,748. Divided and this application August 24, 1942, Serial No. 455,836
8 Claims. (Cl. 119—37)

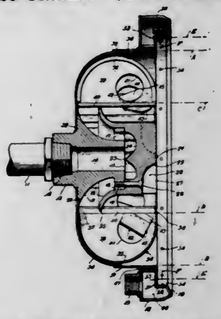
1. A device of the class described, comprising a cabinet having a door, a number of trays posi-

tioned drawer-like in said cabinet, their rear and front ends being a distance from the rear wall of the cabinet and from said door, the top and bottom trays being spaced a distance from the top and bottom walls of the cabinet, a motor positioned in an opening in said door and having a fan, the forward edge of which is positioned between said door and the front ends of said trays, a partition secured to said door positioned adjacent the forward edge of said fan forming an



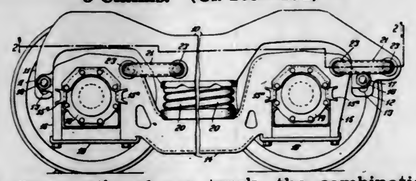
air duct, a portion of the top and bottom of the partition being flared rearwardly so its ends terminate adjacent the vertical plane of the front ends of said trays and adjacent the top and bottom thereof, and an opening in said partition concentric with said fan and adapted to form an inlet therefor, said fan having means whereby air will be caused to travel between and around said trays to the upper and lower ends of said air duct and through said duct to said fan.

2,352,399
FIRE EXTINGUISHING METHOD AND APPARATUS
Leonard D. Myers, Washington, D. C., assignor to Cardox Corporation, Chicago, Ill., a corporation of Illinois
Application June 26, 1943, Serial No. 492,458
20 Claims. (Cl. 169—11)



1. A method of discharging a fire extinguishing medium, comprising conducting liquid carbon dioxide to a region of release, permitting sudden expansion of the liquid to produce snow and vapor, projecting the snow and vapor into the atmosphere in the form of a stream, separately generating water fog, and so associating the generated water fog with the carbon dioxide stream that water fog will be entrained and carried to the point of application by the carbon dioxide stream.

2,352,400
RAILROAD PASSENGER CAR TRUCK
Karl F. Nystrom and Vernon L. Green, Milwaukee, Wis.
Application September 11, 1941, Serial No. 410,355
8 Claims. (Cl. 105—194)



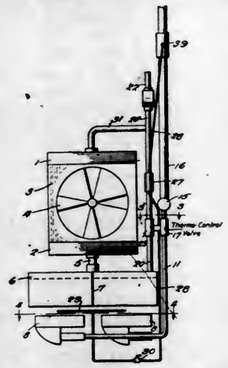
1. In a railroad car truck, the combination of equalizer members provided with vertically disposed yokes adapted to receive the journal bearing housings; a truck frame arranged above and resiliently mounted on an intermediate portion of the equalizer members with portions of the frame extending downwardly into the horizontal plane of the yokes of the equalizer members; and horizontally disposed U-shape shackles, each having one leg disposed through an opening in the yoke portion of the equalizer member while the other leg is disposed through a horizontally aligned opening in the truck frame, the apertured shackle leg receiving portions of the yokes and of the truck frame being of comparative width to provide long bearings for the shackle legs, the shackle-legs being arranged to permit relative rotative movement between the legs, the equalizer yokes and the frame and with the shackles arranged at the same sides of the yokes relative to one end of the truck to permit relative vertical movement between the truck frame and the equalizer members and to restrain relative lateral and longitudinal movements between the frame and the equalizer members.

2,352,401
SHOCK ABSORBING STRUT
Bernard E. O'Connor, Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 10, 1942, Serial No. 454,233
3 Claims. (Cl. 267—64)



1. A shock absorbing strut comprising an upper cylinder and a lower cylinder telescopically movable thereinto, a piston rod secured to the upper end of said upper cylinder and terminating at its lower end in a piston engageable in the lower cylinder, said upper cylinder being charged with compressed air under predetermined initial compression and said lower cylinder being filled with oil, a passageway through said piston for the flow of oil from said lower cylinder into the upper cylinder for further compression of the air when said strut is subjected to load and said lower cylinder is shifted into the upper cylinder, a valve chamber in said piston, a valve in said valve chamber for controlling said flow passageway, said piston rod being hollow and connected with the atmosphere, said valve having a stem extending therefrom into said hollow piston rod to be subjected to the atmospheric pressure, the other end of said valve being subjected to the pressure in said lower cylinder, and a spring in said piston rod abutting said valve stem and functioning to resist opening movement of said valve and to maintain the pressure in the lower cylinder constant for all relative movements of said cylinders when said strut is under load.

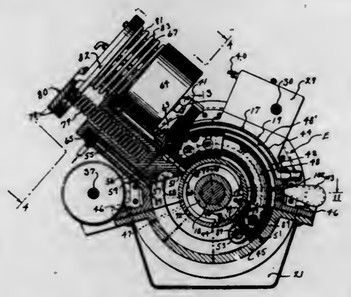
2,352,402
HEATER
William J. Payne, Georgetown, Ky.
Application August 18, 1941, Serial No. 407,346
4 Claims. (Cl. 237—7)



2. A gas heated steam or vapor heating condenser unit comprising headers connected by condensing tubes with means for forcing air between said tubes, a liquid container positioned beneath the bottom header and communicating therewith, a plurality of gas burners positioned below and in heat exchange relation to the liquid container, a gas supply pipe, a gas header, a plurality of feed pipes each connecting the gas header with a burner, a thermocontrol valve for each of said feed pipes, a plurality of stand pipes each communicating with the liquid container and with a thermocontrol valve controlling one of the gas feed pipes, a pilot burner, a pilostat valve in the gas supply pipe, a pilot feed pipe connecting the pilostat valve and pilot burner, and a thermocontrol valve in one of said stand pipes and pilot feed pipe controlling said pilot feed pipe.

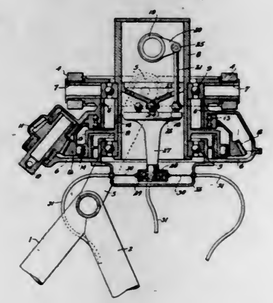
2,352,403
MULTIPLE ROTARY DIESEL ENGINE
George F. Pieper, Milwaukee, Wis.
Application March 17, 1943, Serial No. 479,408
13 Claims. (Cl. 123—14)

2. In a rotary Diesel internal combustion engine, a stator including an annular cylinder of a circular shape in cross section having a combustion chamber at one side and a slot on the other side, an arcuate piston fitted within said cylinder for movement around said cylinder, an abutment head movable into the cylinder for sealing one end of the combustion chamber, means for introducing fuel and air under compression into the combustion chamber adjacent the abutment head, latch pins slidably carried by the rotor movable into the cylinder through the slot for latching engagement with the piston and means for operating said latch pins into and out of the slot.



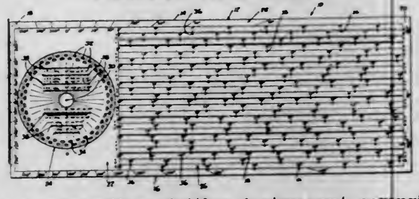
12. In a rotary internal combustion engine, a stator including an annular cylinder, said cylinder including arcuate sections, means securing said sections together, and each of said sections including inner and outer companion half portions.

2,352,404
SUSTAINING ROTOR FOR AIRCRAFT
Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application July 7, 1942, Serial No. 450,009
13 Claims. (Cl. 244—17)



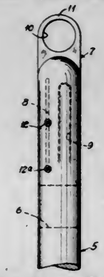
1. For an aircraft, a sustaining rotor comprising a hub and a plurality of blades, each blade being pivotally connected with the hub on a flapping axis offset from the rotational axis and providing freedom for swinging movement of the blade in a direction generally transverse the mean rotative path of travel of the blades, means mounting the hub for tilting movement in at least one plane about an axis offset from the rotational axis of the hub to provide for free floating to and rotation in different planes, and mechanism for controlling the plane of rotation of the rotor and thereby the position of the lift line comprising controllable means for effecting periodic differential variation of pitch angle of the blades with respect to the floating hub, said controllable means having means of connection to the blades constructed to effect a substantially given differential pitch variation (with reference to the hub), with a given control adjustment, regardless of the plane of rotation of the hub.

2,352,405
NAVIGATION INSTRUMENT
David Polowe, Paterson, N. J.
Application August 18, 1942, Serial No. 455,257
3 Claims. (Cl. 33—104)



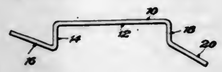
1. A navigation plotting instrument comprising a transparent sheet provided with a compass rose, said sheet having a section provided with a plurality of linear latitude scales extending longitudinally of said section and disposed in a plurality of parallel rows of rectilinear lines, each of said latitude scales consisting of eleven latitude degrees and arranged in succession beginning with the first latitude scale of 0° to 11°, said scales differing from each other in accordance with the earth's curvature, and a section integral with said first mentioned section provided with a plurality of linear longitude scales of different lengths, respectively, one for each of said latitude scales and corresponding to a companion latitude scale, said transparent sheet having openings therethrough at longitudinally spaced points along each of said rectilinear scale lines, respectively, through which marks can be made directly on a surface underlying said transparent sheet and visible therethrough.

2,352,406
TOOL HANGER
Clyde C. Pond, Shelbyville, Ind.
Application April 24, 1944, Serial No. 532,559
1 Claim. (Cl. 248—360)



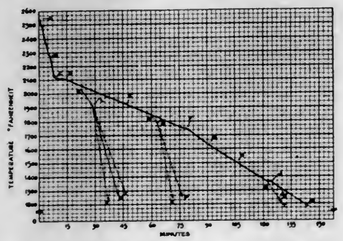
In a device of the kind described for mounting upon the end of a straight tool-handle, the said end of the handle being formed with an elongated slot extended straightly thereinto, an elongated flat hanger adapted to slide freely length-wise into said handle-slot, the inner end of the hanger as disposed within the slot being formed with an elongated and longitudinally extended slot adjacent to and parallel with one margin of the hanger, a pair of spaced studs extended transversely through the end of the handle and through said slot of the hanger as means for reciprocably confining the hanger within the slot, a spring finger struck up from the hanger as means for frictionally pressing against the wall of the slot for preventing accidental slippage of the hanger, and a ring formed at the outer end of the hanger for engaging a hook, the hanger as retracted within its slot of the handle presenting a smooth hand-end of the handle for the use of the operator.

2,352,407
BENDABLE FASTENER
Roy C. Potts, Takoma Park, Md.
Application August 2, 1943, Serial No. 497,062
2 Claims. (Cl. 24—153)



1. A fastener formed from a length of metal wire having substantially uniform cross-sectional dimensions, said fastener being preformed so as to require only a single bending operation to bring it to final securing position, said fastener in condition for application comprising a substantially straight body portion, a leg at each end of said body portion and a member at the end of each leg, said body portion, legs and members all lying in substantially the same plane, both legs lying on the same side of said body portion and substantially at right angles thereto and each leg approximating in length the thickness of the combined parts through which they are intended to be inserted, the member at the end of one of said legs extending substantially at an acute angle to said leg and outwardly therefrom, and the member at the end of the other of said legs forming substantially an obtuse angle with said leg, and extending outwardly therefrom.

2,352,408
METHOD OF PRODUCING FERROUS CASTINGS HAVING DESIRED PHYSICAL PROPERTIES
Herbert A. Reece, Cleveland Heights, Ohio, and Oliver Smalley, Pittsburgh, Pa., assignors to Meehanite Metal Corporation, a corporation of Tennessee
Application July 3, 1941, Serial No. 400,900
5 Claims. (Cl. 148—3)

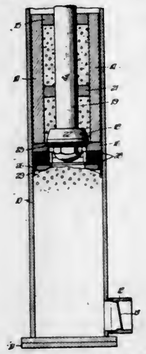


1. The improved method of producing iron castings formed in the ultimate shape of use in service and possessed of desired physical wear resisting properties resulting from securement of austenite in the iron at room temperature, comprising the steps of: pouring into a foundry mold having a cavity of said ultimate shape molten iron having a total carbon-silicon content of from about 4.06% to about 4.85%, of which percentages about 1.10% to about 1.60% comprises silicon, to inherently produce thereby iron having a volume shrinkage characteristic on cooling of 2% or more and having a microstructure progressively changing from austenite to pearlite during normal cooling of the casting in the mold; separating the mold and the formed casting after solidification but before the casting has cooled in the mold to below the eutectoid critical range; and immediately cooling the separated casting in atmosphere through the eutectoid critical range to approximate room temperature at a controlled rate greatly accelerated from the normal cooling rate of such a casting remaining in the mold to thereby arrest the normal change of austenite to pearlite for securing austenite in the said ultimate casting at room temperature.

2,352,409
MERCERIZING ASSISTANT
Hillary Robinette, Jr., Arlington, Mass., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application June 25, 1942, Serial No. 448,438
6 Claims. (Cl. 8—127)

3. A process for increasing the wetting and penetrative capacity of alkaline mercerizing baths, which consists of adding to the mercerizing bath 2-methyl-2,4-pentanediol and a solubilizing agent selected from the group consisting of phenol, ortho-, meta-, and para-cresols, cresylic acid, xylenols, mixtures of the cresols and the xylenols, monochloro- and monobromo-phenols and cresols, and carvacrol.

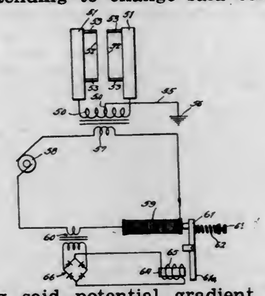
2,352,410
PISTON VALVE ASSEMBLY
John Robbins Rushmer, Amarillo, Tex.
Application July 6, 1943, Serial No. 493,686
4 Claims. (Cl. 103—225)



1. In a piston valve assembly of the character described, a reciprocatingly mounted valve member provided with a tapered perimeter adjacent its lower seating side, the tapered perimeter being provided with an annular groove arranged at right angles to the tapered perimeter, and an annular packing arranged in said groove with its outer face disposed parallel with the tapered perimeter of the valve member.

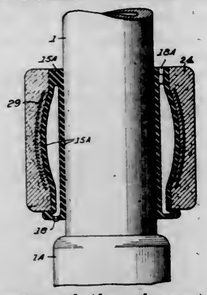
2,352,411
STATIC SUPPRESSOR
Peter C. Sandretto, Chicago, Ill., assignor to United Air Lines, Inc., a corporation of Delaware
Application November 6, 1941, Serial No. 418,039
20 Claims. (Cl. 175—264)

1. A static discharge suppressor for bodies subjected to varying static charges, comprising spaced apart conducting elements electrically connected to said body and forming an air gap, means for impressing an electric potential across said gap to establish a potential gradient thereacross so related to the condition of the air in said gap as to produce a soft corona glow on at least one of said elements whereby static charges on said body are conducted to said one element and dissipated in said soft glow, and means operative under the influence of a change of conditions tending to change said corona glow



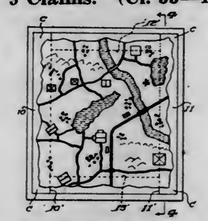
for varying said potential gradient to maintain said potential gradient at values sufficient to cause said soft corona glow but insufficient to cause disruptive discharges across said gap.

2,352,412
CASING PROTECTOR AND BOOSTER
Harvey David Sandstone, Los Angeles, Calif.
Application August 28, 1939, Serial No. 292,257
8 Claims. (Cl. 255—28)



1. In a device of the character described, a mounting, a body encircling said mounting and comprising an inner wall normally engaged with said mounting, said body having a chamber formed therein, and an inflatable container disposed in said chamber to urge said inner wall into engagement with said mounting.

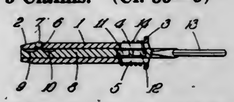
2,352,413
PRODUCTION OF MOSAIC MAPS
Edward A. Schuch and Joseph F. Masino, Philadelphia, Pa., assignors to Aero Service Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application November 9, 1943, Serial No. 509,558
9 Claims. (Cl. 33—1)



1. That improvement in the art of producing mosaic maps which comprises the steps of dividing a base into a plurality of substantially rectangular units by lines representing parallels and

meridians and plotting on the base control points lying within the terrain to be mapped, defining on each of a plurality of boards an area corresponding to one of said units, applying adhesive tape outwardly of and along at least one edge of the defined area on each board, plotting appropriate control points in said defined area and on the tape, assembling on the defined area and on the tape by the aid of said plotted control points a photographic mosaic of that portion of the terrain which lies in the unit on the base corresponding to said defined area and in a portion of the contiguous unit, cutting the assembled mosaic in coincidence with the inner edge of the tape, stripping the tape and marginal portion of the mosaic superposed thereon from the board, separating said portion from the tape and applying it to another board having appropriate control points plotted thereon with its cut edge representing the parallel or meridian separating the two contiguous units on the base, and then assembling on said second board a mosaic of the terrain contiguous to and in prolongation of said marginal portion to thereby form in conjunction therewith a complete mosaic of the terrain lying in the said contiguous unit on the base.

2,352,414
CONNECTING DEVICE
Reginald Arthur William Spooner, Walton-on-Thames, England, assignor to Woodfield Engineering Limited, London, England, an English joint-stock company
Application December 17, 1942, Serial No. 469,344
In Great Britain December 20, 1941
5 Claims. (Cl. 85—5)



1. A connecting device comprising a tubular member, an axially movable member therein, at least one radially movable member in a passage in the wall of said tubular member from which said radially movable member cannot escape outwardly but through which a portion of said radially movable member projects beyond the external surface of said tubular member when said axially movable member is in its normal position, means permitting said radially movable member to move inwards to a position at least flush with the external surface of the tubular member on displacement of the axially movable member in either direction and spring means effective on said axially movable member and tending to restore it to normal position.

2,352,415
ARBOR HOLDER
Thomas M. Stephens, Montgomery, W. Va.
Application November 2, 1942, Serial No. 464,309
4 Claims. (Cl. 76—89.2)

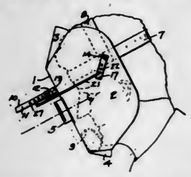


1. A device for holding a drill head on an anvil in alignment with a trip hammer of a drop forge comprising an arbor for holding said drill head, a collar on said arbor, a groove formed in said anvil and forming a seat for said collar, an adjacent wall of said groove providing a vertical abutment for said collar and adapted to maintain said arbor and drill head in position when blows are inflicted as aforesaid, and means cooperating with said groove and abutment to support said arbor in axial alignment with the line of force of said hammer, said last named means comprising a pedestal, a bed plate supported by said pedestal, a yoke block on said bed plate and disposed in axial alignment with said hammer and said anvil to receive said arbor and align the latter with the hammer and anvil.

2,352,416
CATALYTIC REFORMING
Charles L. Thomas and Herman S. Bloch, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application February 10, 1941, Serial No. 378,246
6 Claims. (Cl. 196—52)

2. A process for increasing the octane number of a gasoline fraction containing a substantial amount of olefins which comprises contacting said gasoline fraction with a catalytic composite substantially free of alkali metal ions and consisting essentially of silica and thoria, at a temperature of from about 400° F. to about 1050° F. and a liquid hourly space velocity such as to effect olefin isomerization as the principal reaction in the process.

2,352,417
SHIELD FOR WELDERS' HOOD WINDOWS
Alvin O. Thorson, Puyallup, Wash.
Application May 3, 1943, Serial No. 485,451
5 Claims. (Cl. 2—8)

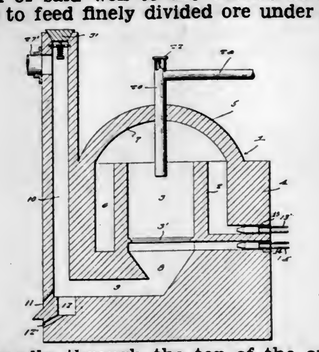


1. In a welder's hood, the combination of a head band; a hood pivotally supported thereby and adapted to lie in front of the face or over the head, and having a window; a shield pivotally supported by said hood and adapted to extend from the hood, over the window, when the hood is in front of the face or to lie on the window when the hood is over the head; and means connecting said head band and said shield whereby said shield is automatically swung on its pivot in relation to the window as the hood is moved in relation to the wearer's head.

2,352,418
ORE REDUCTION APPARATUS
Harry G. Twiford, Los Angeles, Calif.
Application March 27, 1942, Serial No. 436,504
2 Claims. (Cl. 266—33)

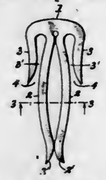
2. Ore reduction apparatus comprising a furnace including a centralized solid inner cylindrical wall forming an inner open top circular combustion chamber, a downwardly tapering well at the bottom of said chamber into which the latter opens directly, an outer side and top forming wall spaced from said inner wall and the top of the inner chamber and forming an annular outer combustion chamber surrounding said inner wall and inner chamber from top to bottom thereof and communicating at its top with said inner chamber, lateral apertures in said outer wall

communicating with the bottoms of said inner and outer chambers, respectively, for containing burners, a lateral discharge passage for molten metal in said furnace leading from the bottom of said well to the outside atmosphere, means to feed finely divided ore under pressure



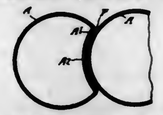
downwardly through the top of the outer wall into the top of the inner chamber, and a sump under said lateral discharge passage adjacent its outer end and having a discharge duct extending therefrom through said outer wall.

2,352,419
BOWLEGGED HAIR FASTENER
Thomas C. Van Housen, Jr., Appleton, Wis., assignor to Scolding Locks Corporation, Appleton, Wis.
Application March 25, 1943, Serial No. 480,506
1 Claim. (Cl. 132—52)



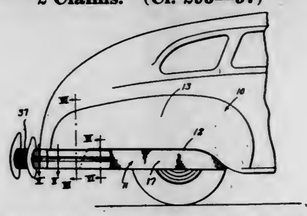
A ringlet forming hair fastener comprising a resilient flat body having a head, a companion pair of centrally disposed oppositely bowed long tines extending therefrom forming a double arced loop contracted at its free end to engage each other and from said point flared outwardly forming lips, a companion pair of shorter outer tines extending from the head each spaced from its associated long tine, forming therewith a ringlet retaining looped pocket having a restricted hair receiving throat, the end portion terminating with a flared mouth, each loop pocket being widened from its restricted throat to its base, whereby the loops form confining pockets for windings of a lock of hair.

2,352,420
FLEXIBLE WALL OR PARTITION
Leo Winters, Detroit, Mich.
Application November 26, 1943, Serial No. 511,869
8 Claims. (Cl. 160—231)



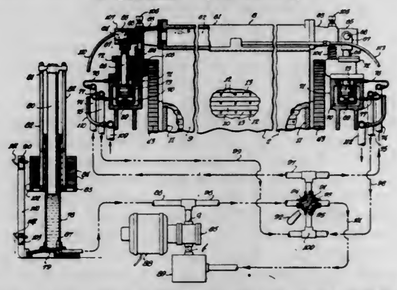
1. A flexible wall comprising a plurality of tubular members having their external surfaces adapted to fit together, each of said members having an arcuate concave portion to receive the convex portion of an adjacent member and said respective portions having packing means therebetween, and means for holding them in permanent contact one with the other.

2,352,421
FENDER AND FENDER SHIELD CONSTRUCTION
Frederick W. Wohlfield, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 8, 1941, Serial No. 405,896
2 Claims. (Cl. 293—57)



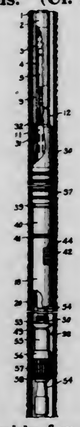
1. In a vehicle having an outer depending side wall portion overhanging a wheel thereon and having an opening in said wall opposite the wheel, and a rear bumper member, the combination comprising a fender shield and auxiliary side bumper unit comprising a panel portion arranged to cover the wheel opening in said wall, a bumper member rigidly secured to said panel portion, and means for detachably securing said panel and said auxiliary bumper member to said vehicle including detachable means for pivotally supporting said auxiliary bumper member on said first bumper member, and means for supporting and clamping said panel to said side wall.

2,352,422
IRONING MACHINE
Ward G. Zigler, Chicago, Ill.
Application December 18, 1940, Serial No. 370,595
4 Claims. (Cl. 38—4)



1. In an ironing machine, in combination, a supporting frame, a padded ironing roll journaled in said frame, means for rotating said roll, a plurality of independently movable ironing elements disposed above the roll and in circumferentially spaced relation about the curvature of the same, means for holding the elements in operative relation to the padded surface of the roll, means for subjecting the ironing elements to a hydraulic fluid under pressure for forcing the elements simultaneously into pressing engagement with the roll, spring devices providing a yieldable support for each ironing element at the roll, and means for adjusting the tensions of the springs to balance the dead weight of the ironing elements at the various locations of the elements along the curve of the roll.

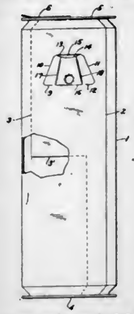
2,352,423
PACKER ASSEMBLY
Walter L. Church, Houston, Tex., assignor of one-half to Cecil Ware, Houston, Tex.
Application December 2, 1940, Serial No. 368,127
4 Claims. (Cl. 166—12)



1. A packer assembly for wells comprising a tubular packer support, an expansible sleeve-like packer around the support, a set collar connected to the upper end of the support and abutting the upper end of the packer, an external stop on the lower end of the support, an abutment abutting the lower end of the packer and located above the stop and through which the support is slidable, a release sleeve extended through the support and whose upper end is connected to the set collar, a downwardly tapering jaw expander around the release sleeve beneath the packer, means connecting said expander to the abutment, a cage around the release sleeve, casing engaging jaws around the expander and mounted to be moved radially in the cage by the expander upon downward movement of the expander, means for supporting the cage on the release sleeve, an inner tube adapted to be connected to an operating string and extended through the release sleeve, means for connecting said inner tube to the cage and which includes threads on the tube and expansible slips in the cage around and in engagement with the threads, said threads being pitched to be releasable from the slips upon rotation and downward movement of the tube and said threads being engageable with the slips upon a subsequent, non-rotative, upward movement of the tube, means carried by the cage and in frictional engagement with the well casing for holding the cage stationary upon such movements of the tube, means on the tube arranged to engage the set collar, when the tube is released from the cage and moved downwardly relative thereto, whereby the set collar, the packer and the expander will be moved downwardly to effect engagement of the jaws with the well casing and the expansion of the packer.

2,352,424
LIQUID DISPENSER
Daniel P. Derieg, Oakland, Calif.
Application October 2, 1940, Serial No. 359,368
1 Claim. (Cl. 229—17)

A container for liquids, composed of sheet material having overlapping ends on the body portion with a side outlet through the innermost of said ends; a spout having a bottom and sides formed from the material of the outermost of said ends and having a fold line defining an integral hinge beneath said outlet, the side portions of said spout being integrally connected to the body thereof along upwardly extending spaced fold lines, the end edge of each side portion adjacent the hinge line extending outwardly and making

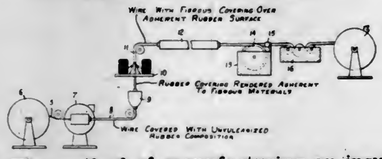


an angle with its respective fold line greater than 90 degrees, said end edges in operative position bearing against the plane of said innermost end for substantially the height of said outlet; whereby the bottom of said spout when open is maintained at an angle below said outlet.

2,352,425
LEAD-FREE ENAMEL
Alden J. Deyrup, Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 10, 1942, Serial No. 446,537
17 Claims. (Cl. 106—48)

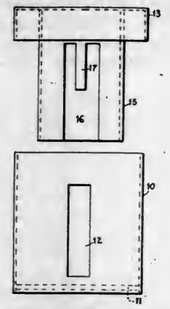
1. A lead-free, vitrifiable ceramic glaze composition suitable for decorating glassware and maturing below about 1150° F. to a glossy decorative surface coating, said glaze composition comprising aluminum oxide present in amounts ranging from 12 to 17 mole per cent; boric oxide present in amounts ranging from 25 to 40 mole percent; silica present in amounts ranging from 5 to 25 mole per cent; at least one of the oxides of an alkali metal having an atomic weight below 40 present in amounts ranging from 13 to 24 mole per cent; and an oxide selected from the group which consists of barium oxide, strontium oxide, calcium oxide, magnesium oxide and zinc oxide present in amounts ranging from 6 to 20 mole per cent, all mole percentages being based on the total weight of said glaze composition.

2,352,426
MANUFACTURE OF INSULATED WIRE
Harold V. Engh, Irvington, N. Y., assignor to Anaconda Wire and Cable Company, a corporation of Delaware
Application January 29, 1942, Serial No. 428,727
8 Claims. (Cl. 57—162)



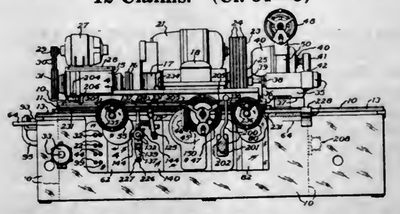
1. The method of manufacturing an insulated wire which comprises applying to a conductor element a layer of a vulcanizable rubber composition, applying to said rubber composition a material capable of making the surface portion thereof adhesive to fibrous material, then applying a covering of fibrous material to the rubber, and then vulcanizing the rubber, said fibrous covering thereby being caused to adhere firmly to the rubber while the pores of said fibrous covering are maintained substantially completely open for the reception of an impregnating compound.

2,352,427
NECKTIE PRESS
Jacob Plannie Gantt, Rock Hill, S. C.
Application July 31, 1943, Serial No. 496,877
1 Claim. (Cl. 206—7)



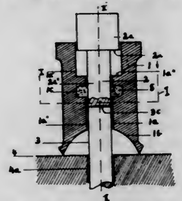
A necktie press comprising an outer cylinder and an inner cylinder of substantially less diameter and length than the outer cylinder and disposed within the outer cylinder, the outer cylinder having an opening through its side wall through which a necktie doubled upon itself may be inserted, the inner cylinder having a lid member secured to one end thereof and adapted to close one end of the outer cylinder, the inner cylinder having a pair of spaced slots therein providing a tongue between the slots and adapted to be engaged by a necktie doubled upon itself and inserted through the opening in the outer cylinder, and when rotation is imparted to the lid portion of the inner cylinder while the outer cylinder is held stationary, the necktie will be wound around the inner cylinder after passing through the opening in the outer cylinder.

2,352,428
EXTERNAL-INTERNAL CYLINDRICAL GRINDING MACHINE
John I. Garside, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application November 9, 1943, Serial No. 509,580
12 Claims. (Cl. 51—3)



1. In a grinding machine having a base, a longitudinally movable work table thereon, a rotatable work support on said table, a rotatable grinding wheel, a transversely movable slide therefor, a second rotatable grinding wheel, a transversely movable slide therefor which is spaced from said first slide, means to move said first grinding wheel slide transversely, means including a solenoid operatively connected to initiate an infeeding movement of the first grinding wheel, means to traverse said table to a second grinding position, and an interlock including an electric switch which is automatically actuated by movement of the table to control an electric circuit and prevent actuation of the solenoid to initiate an infeeding movement of the first grinding wheel while the table is in a second grinding position.

2,352,429
TOOL FOR UPSETTING DIE HEADS
Theodore Gomperz, Budapest, Hungary
Application November 29, 1940, Serial No. 367,733
In Hungary November 29, 1939
4 Claims. (Cl. 78—46)



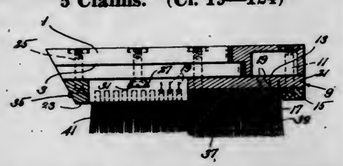
1. In a head die in combination, an outer die member and an inner die member, the outer die member having a top surface, a bore piercing said top surface, said bore comprising two portions of different width, the portion of the bore situated adjacent to the top surface of the outer die member being of wider width than the portion situated at the opposite side of the outer die member, the inner die member being slidably arranged within the bore of the outer die member and having two portions of different width corresponding to the two portions of the bore, one end of the inner die member being adapted to receive blows from a hammer, said end protruding from the top surface of the outer die member in the initial position of the inner die member when the latter rests on a shank and being flush with the top surface of the outer die member upon having been moved a predetermined distance within the bore of the outer die member.

2,352,430
UNCURLING GUIDE FOR SEWING MACHINES
Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 5, 1942, Serial No. 453,660
12 Claims. (Cl. 112—20)



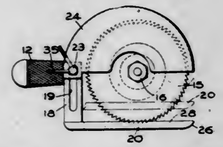
1. A fabric uncurling and guiding device for sewing machines, comprising, a central plate, presser-members pivotally supported by and spring biased toward the opposite sides of said central plate, a pair of toed elements for supporting the edge portions of the fabric, and resilient means interposed between said central plate and each presser-member for engaging and urging an edge portion of said fabric toward a respective one of said toed elements.

2,352,431
DABBING BRUSH
Frank H. Hardy, Andover, Mass.
Application March 18, 1942, Serial No. 435,211
5 Claims. (Cl. 19—124)



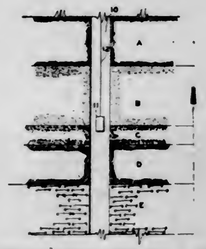
3. The method of repairing dabbing brushes which includes replacing the heel portions with new bristles of the same length set in successively thinner blocks, and progressively trimming the bristles of the toe portions flush with the surface of these successive replacement heel portions.

2,352,432
SURGICAL CAST CUTTER
Michael F. Harrington, Buffalo, N. Y.
Application August 18, 1943, Serial No. 499,106
1 Claim. (Cl. 30—167)



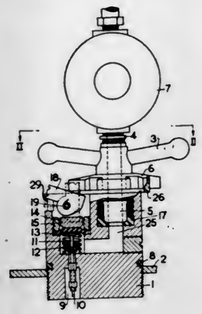
A surgical cast cutting device comprising a frame, a circular saw mounted upon said frame to extend at peripheral portions thereof for sawing purposes, said frame having a handle portion extending rearwardly therefrom to be gripped by the operator while holding said device in cutting position against a surgical cast, a guide shoe adjustably mounted on said frame and having a foot portion thereof slotted to permit said saw to extend therethrough whereby said shoe device may be adjusted in directions radially of said saw blade axis, and a bracket device extending from said frame and adapted to engage a fabric member to trail behind said saw for catching cuttings therefrom.

2,352,433
WELL LOGGING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 12, 1943, Serial No. 475,644
3 Claims. (Cl. 250—83.6)



1. A method of determining the stratigraphy of the formations adjacent a well bore, which comprises inserting into a well bore an instrument adapted for use in the determination of the characteristics of the surrounding formations, passing the instrument through the formations of which information is desired while continuously recording the characteristics thereof, reversing the motion of the instrument, repassing the instrument through the said formations while continuously recording the characteristics thereof, and subtracting one of the two records obtained from the other record.

2,352,434
PRESSURE CYLINDER CONNECTION
Walter H. Hoagland, Mount Vernon, N. Y., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 2, 1942, Serial No. 432,979
10 Claims. (Cl. 137—69)

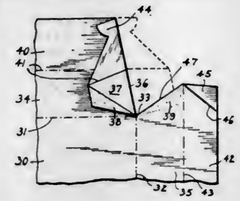


1. In equipment of the class described the combination comprising a source of fluid under pressure, a distribution system connection element, conduit housing means between said source of fluid under pressure and said connection element, pressure sealing means between said connection element and said conduit housing means, conduit means in said conduit housing intercommunicating between said source of fluid under pressure and said connection element, a valve in said conduit, valve actuating means mounted in said conduit housing, pressure sealing means between said valve actuating element and said valve and a contact element carried by said connection element arranged and adapted to move said valve actuating element into a partially operative position when a pressure seal has been made between said connection element and said conduit housing means.

2,352,435
ORGANIC SULPHUR COMPOUND AND A PROCESS FOR ITS PREPARATION
Johan Marius Hoeffelman and Rinke Berkenbosch, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 25, 1940, Serial No. 337,324. In the Netherlands June 29, 1939
13 Claims. (Cl. 260—609)

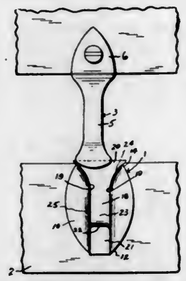
1. A process for the production of a thioether containing a primary alkyl radical which comprises reacting an olefine of at least three carbon atoms per molecule having a terminal unsaturated carbon atom with an aliphatic mercaptan in the presence of an organic peroxide and ferrous chloride, whereby abnormal addition of said mercaptan to said olefine is effected.

2,352,436
COLLAPSIBLE CARDBOARD DISPLAY DEVICE
John V. Horr, Hastings on Hudson, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application December 31, 1941, Serial No. 425,046
7 Claims. (Cl. 40—154)



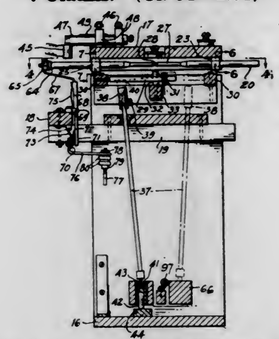
1. In a collapsible cardboard display device, a main display area including a corner where two adjacent edges converge at an angle, a border panel hinged to each of said edges, the adjacent ends of said panels being permanently connected along a hinge line defining a miter joint between said panels, said joint being inclined to the plane of said main display area when the device is set up whereby the panels form an inclined frame-like border, and a score line extending transversely across an end portion of at least one of said panels, said score line passing through the apex of said corner angle and being so arranged that the device may be collapsed by folding the material on one side of said score line flat onto the material on the other side of it, thereby straightening the miter joint into a single plane parallel to the plane of said main display area.

2,352,437
CLASP FASTENER
Forbes Howard, Los Angeles, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 16, 1941, Serial No. 423,180
1 Claim. (Cl. 292—87)



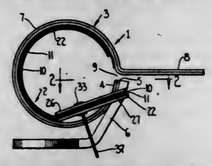
A fastener for containers and the like comprising a keeper formed from a single piece of sheet metal providing an outwardly dished plate member and a latch member formed from a single piece of sheet metal, a depressed portion forming a groove in the front face of said plate member extending from one edge thereof to the opposite edge thereof, a step in said depressed portion part way along the groove providing an abrupt abutment, and said latch member being in the form of a spring tongue having a concealed offset element engageable with said abrupt abutment to hold the parts of the fastener together.

2,352,438
MUSICAL INSTRUMENT
John O. Hruby, Jr., Glendale, Calif., assignor to Louis A. Maas, Glendale, Calif.
Application February 9, 1942, Serial No. 430,087
7 Claims. (Cl. 84—1.04)



1. An article of manufacture for an instrument employing musical tones, comprising a cylindrically shaped rod having a circumferential groove forming a reduced portion of substantial length along its central portion to provide octavely spaced fundamental and harmonic tones when the rod is struck, and the said reduced portion itself being circumferentially grooved to provide uniformly pitched fundamental and harmonic tones when the rod is struck.

2,352,439
HEAT ACTUATED DEVICE
Walter S. Landon, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application June 8, 1940, Serial No. 339,427
7 Claims. (Cl. 60—23)

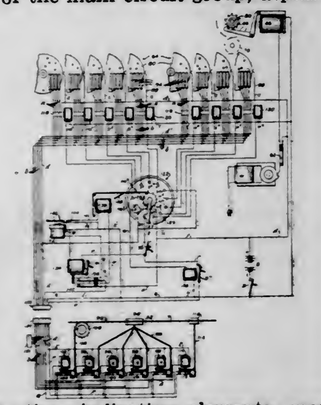


3. A heat actuated power means comprising a bimetallic power element having a substantially cylindrical portion, a flexible resilient supporting member of electric insulating sheet material positioned within and held solely by friction against circumferential movement relative to said cylindrical portion, said member conforming automatically by its innate resiliency to the contour of said element portion irrespective of contraction or expansion thereof due to temperature change, and a resistance wire wound upon and bodily removable with said member and acting upon the passage of an electric current therethrough to heat said power element.

2,352,440
TIME RECORDING MECHANISM
Ward Leathers, Brooklyn, and Hugo Panissidi, Jamaica, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 27, 1943, Serial No. 473,724
5 Claims. (Cl. 234—1.5)

1. In a time recording mechanism, a perforating apparatus for applying code perforations to a

record media and including a plurality of perforating devices, an electromagnet for each perforating device operable upon energization thereof to actuate the latter, a pair of normally open contacts associated with each electromagnet and adapted upon energization of the latter to become closed, a group of main signaling circuits operatively connected to said electromagnets and adapted to be selectively closed to energize the latter, a plurality of branch circuit groups connected to the main signaling circuit in parallel, the circuits of each branch circuit group being adapted to be selectively closed to close selected circuits of the main circuit group, a plurality of



rotatable time indicating elements, means for rotating the latter, means operable upon rotation of each element for selectively preparing the circuits of a respective branch circuit group for subsequent closing thereof, a normally open contact group disposed in each branch circuit group, an electromagnet for each contact group operable upon energization thereof to close the group in unison, a selector switch connected to said latter electromagnets for successively energizing the same, and means operable upon closing of any one of the pairs of contacts associated with the perforating device for indexing said selector switch.

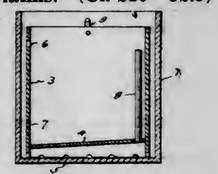
2,352,441

CLARIFIER FOR OXIDIZING SOLUTIONS

Earle B. Lewis, Southington, Conn., assignor to Ethel O. Lewis, Southington, Conn.

Application April 2, 1943, Serial No. 481,558

3 Claims. (Cl. 210—52.5)



1. Means for use in the process of oxidizing metal articles, which comprises a tank for containing an oxidizing solution, means for heating said tank and causing the solution therein to boil, and a clarifying chamber located in said tank with its side walls resting on the bottom of the tank, said walls having openings through their lower ends for the passage of oxidizing solution from the tank into the chamber, and said chamber having a closed bottom located above said openings through the side walls and a restricted passage opening through said bottom and extending upward therefrom to near the upper end of the chamber, said chamber also having communication at its upper end with the upper end of the tank.

2,352,442

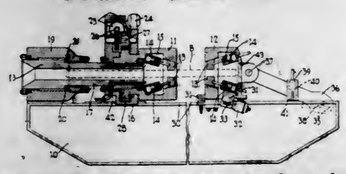
STRAIGHTENING MACHINE FOR METAL BARS

Ludwig Loewy, Bournemouth, and Frank Sidney Salter, Parkstone, England, assignors to The Loewy Engineering Company, Limited, London, England, a corporation of Great Britain

Application May 21, 1941, Serial No. 394,538

In Great Britain May 23, 1940

8 Claims. (Cl. 153—2)



1. In apparatus for straightening bars, in combination, a bed, a headstock mounted on said bed, a hollow plunger movable within said headstock, a chuck carried by said plunger having bar-gripping jaws, said jaws forming an opening in line with the hollow plunger and movable inwardly to grip a bar extending through said plunger, a tailstock mounted on said bed and movable toward and from the headstock, a second chuck carried by said tailstock and having bar-gripping jaws movable inward to grip the bar, means to anchor the tailstock on said bed, and means for rotating one chuck relative to the other chuck to twist the bar and means for actuating the hollow plunger to move it away from said tailstock to draw the bar, said means for actuating the hollow plunger constituting a cylinder and a fluid pressure chamber surrounding said plunger and concentric therewith, the hollow plunger, the headstock and tailstock, and both chucks being open centrally therethrough to permit a bar to pass longitudinally therethrough.

2,352,443

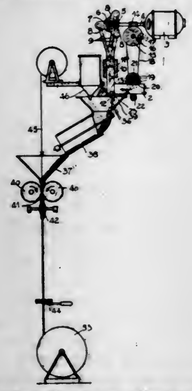
PROCESS AND INSTALLATION FOR THE MANUFACTURE OF SHAPED METAL PRODUCTS

Robert Mautsch, Brussels, Belgium; vested in the Alien Property Custodian

Application June 12, 1939, Serial No. 278,768

In Great Britain June 30, 1938

21 Claims. (Cl. 29—34)



1. A process for the manufacture of elongated profile bars, wires and the like from massive

metal pieces of larger cross-section, consisting in cutting said metal pieces into long and fine elements, in interleaving said cut elements, and in passing the interleaved elements before they become oxidised between rolling mill cylinders arranged so as to produce at their exit the desired product.

8. An installation for the manufacture of elongated profile bars, wires and the like from massive metal pieces of larger cross-section, comprising at least one machine for cutting these pieces into long and fine elements, rolling mill cylinders disposed so as to produce at their exit an agglomerate of the cut elements, and a hopper serving for the supply of the cut elements to the rolling mill cylinders, said hopper being disposed at a level below that of the cutting machine in such a position relatively to the latter that the cut elements may reach said hopper directly by gravity.

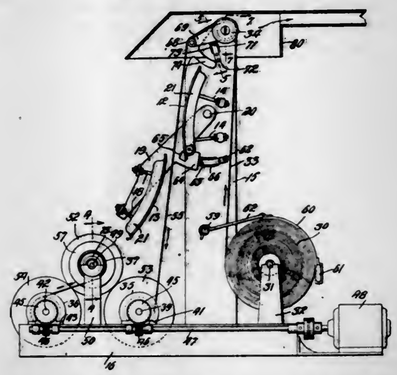
2,352,444

METHOD OF PREPARING NEWSPRINT PAPER FOR USE AS PENCIL SHEATHS

Kay Miller, New Brunswick, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey

Application January 16, 1942, Serial No. 426,945

5 Claims. (Cl. 93—1)



1. The method of heat treating newsprint paper to render it suitable for use as pencil sheaths in coil form which consists in exposing a strip of unaged unprinted newsprint paper to air heated to a degree ranging not less than about 200° C. and not greater than about 345° C. for a period of time ranging between not greater than about three minutes and not less than about .11 of a minute, the degree of heat to which the paper is exposed and the length of exposure being directly proportionate.

3. The method of preparing newsprint paper for use as pencil sheaths in coil form, which consists in subjecting a strip of unaged, unprinted newsprint paper to a degree of heat and for a length of time adequate to age or brittlize the paper sufficiently so that when it is wound into a tight coil it can be cut by a knife blade or a rotary pencil sharpener substantially as readily and without leaving uncut fibers on the cut surface as can the usual wood pencil sheath, the degree of heat and length of time being substantially the equivalent of that obtained by causing each surface of the paper to pass at an approximate rate of speed of twenty feet per minute in contact with a smooth heating element heated to approximately 350° C. and approximately twelve inches long.

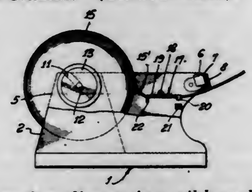
2,352,445

DEVICE FOR DISPENSING STRIP MATERIAL

Arthur S. Pinckney, Los Angeles, Calif.

Application July 7, 1943, Serial No. 493,765

4 Claims. (Cl. 164—84.5)



1. A device for dispensing ribbon-like materials, including: a base, means for holding a roll of material on said base, a fixed cutting knife lying in a plane substantially transverse to material from said roll and perpendicular thereto when the material is brought into cutting relation therewith, and a rocker bar between said knife and roll of material, said rocker bar being mounted for pivotal movement about an axis transverse to the length of strip material from said roll, and including a holding finger and a guide; a stationary hold member in operative relation to the holding finger of the rocker bar, and limit means for limiting the movement of the rocker bar.

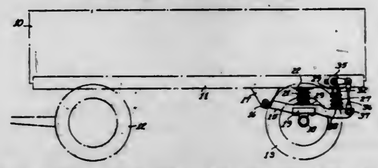
2,352,446

SPRING SUPPORT FOR MOTOR VEHICLES

Robert W. Pointer, Portland, Oreg.

Application September 23, 1941, Serial No. 411,954

7 Claims. (Cl. 267—20)



1. In a vehicle, a main frame member, a lever arm pivotally secured at one end to said member and extending longitudinally therebeneath, a shaft mounted transversely on said arm intermediate its ends, a coil spring arranged between said arm and said member above said shaft and normally under compression therebetween, a second coil spring mounted on the end of said arm on the opposite side of said first coil spring with respect to said pivotal connection, said second coil spring being unstressed during light vehicle load conditions and adapted to be compressed between said arm and said frame member during normal heavily loaded vehicle conditions, and a shock absorber connecting the outer end of said arm and said frame member.

2,352,447

APPARATUS FOR PRODUCING EDIBLE ARTICLES

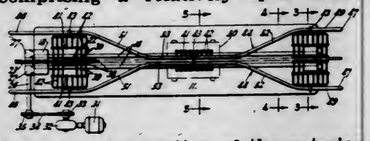
Edward D. Powers, Queenston, Ontario, and Albert M. Fennis, Niagara Falls, Ontario, Canada

Substituted for abandoned application Serial No. 294,242, September 11, 1939. This application July 18, 1942, Serial No. 451,414

6 Claims. (Cl. 99—386)

1. In apparatus of the class described, a forming device of substantially tubular form, the body of said forming device comprising a plurality of sections having articulated connection

to each other whereby said forming device may be opened to receive a slice of toastable edible material and closed to bend said slice to substantially tubular form, the body of said forming device comprising a relatively open framework



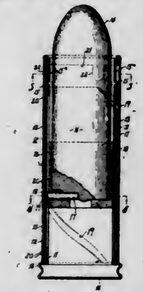
whereby the major portion of the exterior surface of the slice is exposed therethrough and a toasting device adapted to receive said forming device for toasting a tubular slice contained therein.

2,352,448

HOLDER FOR LIPSTICKS AND THE LIKE

Howard F. Reichenbach, Waterbury, Conn., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn., a corporation

Application December 16, 1943, Serial No. 514,515
4 Claims. (Cl. 206—56)



1. An adjustable holder for lipsticks and the like, comprising: a hollow body-member provided with a guide-slot extending through its side-wall; a sleeve-like actuating-member around the exterior of the said body-member and provided with an actuating-slot extending therethrough and inclined relative to the guide-slot in the said body-member, the said actuating-member ending short of the upper end of the said body-member; a carrier axially movable within the said body-member and having actuating-means engageable with the guide-slot in the said body-member and the actuating-slot in the said actuating-member; and a shell-member around the outer periphery of and coupled to the said actuating-member and extending above the upper end thereof, the upper end of the said shell-member being turned inwardly to provide a rounded upper edge therefor and provided with retaining-means frictionally engaging with the periphery of the upper portion of the said body-member to yieldingly restrain the turning movement of the latter with respect to the said shell-member and the said actuating-member.

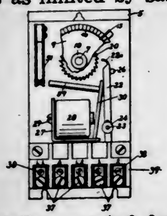
2,352,449

TIMING MECHANISM

Erwin P. Reinecke, Moline, Ill., assignor to Eagle Signal Corporation, Moline, Ill., a corporation of Massachusetts

Application December 10, 1941, Serial No. 422,407
17 Claims. (Cl. 161—1)

1. In a circuit timer, a substantially constant speed motor, a shaft driven by said motor, a ratchet relatively rotatably mounted upon the shaft, stop members associated with said ratchet and shaft to limit the movement of said ratchet on said shaft, a spring connecting the shaft and ratchet, whereby the movement of the ratchet can be delayed until the motor drives the shaft a distance equal to the relative movement of the ratchet and shaft as limited by said stop mem-



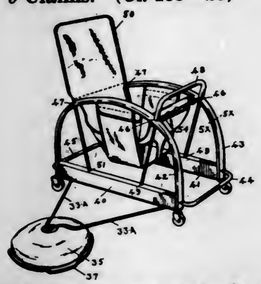
bers, a pawl pivotally mounted for engagement with and disengagement from said ratchet, said pawl also being capable of limited longitudinal movement due to rotation of the ratchet when the pawl is in engagement therewith, and a switch element to be actuated by said pawl upon longitudinal motion thereof, for controlling the timed circuit.

2,352,450

BABY WALKER

William H. Reinholz, Irondequoit, N. Y.

Application June 12, 1940, Serial No. 340,084
9 Claims. (Cl. 155—23)



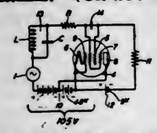
1. In a vehicle of the character described, the combination of two upright frame members suitably spaced apart, horizontal sockets in each end of said upright members near the bottom thereof, a U-shaped member engaging with said sockets in the upright members both from the front and the back for the purpose of holding them together and suitably spaced apart, upright sockets provided in the upright members at the top and bottom thereof, a U-shaped member engaging in said sockets of the upright members for holding them together and suitably spaced apart.

2,352,451

FREQUENCY CONVERTER

Joseph L. Roemisch, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application February 7, 1942, Serial No. 429,932
3 Claims. (Cl. 250—36)



1. In a self-synchronizing system, a coercing oscillator, a coerced oscillator comprising an electric discharge device provided, in like order, with a cathode, anode, control grid and auxiliary anode, and means adapted to impress a positive potential, with respect to said cathode, on said anode, a smaller positive potential on said auxiliary anode, and a small negative potential on said control grid, together with connecting circuits, the organization as a whole being adapted to constitute an oscillator of the negative transconductance tube type, said coerced oscillator being adapted to generate a wave having a frequency bearing an approximate commensurable relation to the frequency of the wave from the coercing oscillator, and means coupling said oscillators whereby said oscillators operate in locked frequency relation, said coerced oscillator also comprising a resistance in the anode lead, said resistance having the largest value and the bias on the control grid the largest negative value that the coerced oscillator will tolerate without cessation of sinusoidal oscillations while being coerced.

2,352,452

PROCESS FOR TREATING CAST IRON

Franklin B. Rote, Ann Arbor, Mich., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 25, 1942, Serial No. 466,939
3 Claims. (Cl. 75—54)

1. A process for treating lead contaminated austenitic nickel cast iron which comprises treating a molten bath of said cast iron in a ladle with about 0.5% to about 2% of a salt mixture containing about 50% sodium nitrate and about 50% anhydrous sodium carbonate, maintaining said salt mixture on said molten bath for sufficient time to allow reaction to take place, removing said salt mixture, introducing a silicon-containing inoculant, and casting the treated molten cast iron.

2,352,453

WELL TOOL EXTRACTING DEVICE

Henry P. Salverda, Daytons Bluff Station, Minn., assignor of one-half to Frank J. McCarron and Alice McCarron Loftus, Daytons Bluff Station, Minn.

Application April 29, 1942, Serial No. 440,890
7 Claims. (Cl. 294—100)



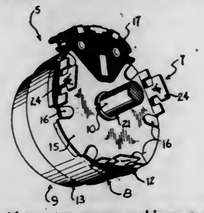
5. A rod extracting device for use in extracting a rod or the like from an elongated tubular casing, the extractor comprising a body designed to fit within said casing, a plurality of arms pivoted upon spaced parallel opposed pivots to said body and extending downwardly therefrom, means normally urging said arms apart, means encircling said arms and slidably supported with respect to said body, said encircling means in one position allowing said arms to spread and operable upon a sliding movement to clamp said arms together, resilient means normally urging said encircling means toward clamping position, and trigger means extending between said arms and engageable with the rod when between said arms for controlling movement of said encircling means.

2,352,454

TAB MOUNTING VARIABLE RESISTOR

Newton C. Schellenger, El Paso, Tex., and Wilbert H. Budd, Elkhart, Ind., assignors to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana

Application September 2, 1941, Serial No. 409,266
10 Claims. (Cl. 248—361)



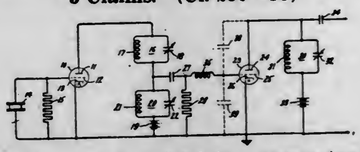
1. In combination: a supporting panel; a part to be secured to the supporting panel; and attaching means for securing said part to the supporting panel, said attaching means comprising a tab having a neck extending outwardly of said part through a hole in the panel; a laterally extended head on the outer extremity of the neck, the hole in the panel being shaped to permit free passage of the tab therethrough in the normal undeformed position of the tab but to provide a surface underlying the laterally extended head of the tab when the neck of the tab is twisted in said hole relative to said part to secure the part to the panel; and said surface of the panel adjacent to the hole therein being inclined to effect a wedge action operable to draw the part toward said panel upon twisting of the neck of the tab in the hole in the panel.

2,352,455

FREQUENCY MULTIPLIER

Harry R. Summerhayes, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 30, 1943, Serial No. 504,387
3 Claims. (Cl. 250—36)



1. A frequency multiplying apparatus comprising an electron discharge device having a cathode and an anode and a control electrode, an input circuit tuned to a fundamental frequency and connected between said cathode and said control electrode, an output circuit tuned to a harmonic of the fundamental frequency and connected between said anode and said cathode, said input circuit being capacitive at said har-

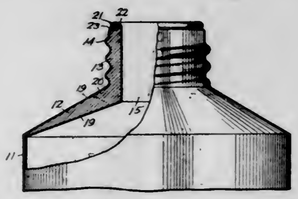
monic frequency, means providing a negative bias for said control electrode whereby only positive wake peaks at said fundamental frequency render said device conducting, and an inductance connected in series between said control electrode and said tuned input circuit for providing regenerative feedback of energy at said harmonic frequency.

2,352,456

COLLAPSIBLE TUBE

George W. Temple, Flushing, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York

Application July 5, 1941, Serial No. 401,072
3 Claims. (Cl. 222—92)



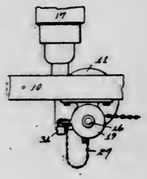
3. In a collapsible tube, a neck terminating in an annular shoulder extending inwardly from the outer surface of the neck, a substantially cylindrical wall of less thickness than that of the neck, said wall extending from the neck at said shoulder and having an inner surface continuous with the inner surface of the neck, and a curved extension projecting from the wall and doubled on itself and arranged beyond the neck at said shoulder, the terminal edge of the extension being adjacent an outer surface of the wall.

2,352,457

BOAT HOIST

Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa

Application August 29, 1941, Serial No. 408,713
1 Claim. (Cl. 254—167)



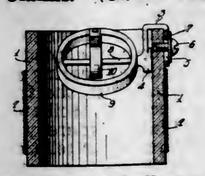
A suspended chain hoist for lifting an object and for holding the object in a lifted position including a driven wheel having a chain receiving circumferential recess, a housing for said wheel, means between said wheel and said housing for rotatably supporting the wheel in said housing, said housing having an opening in one side to provide for the passage of a chain therein and about said wheel in said chain receiving recess, the periphery of said housing having an annular recess opposite the chain receiving recess in said wheel to form a guide way for said chain, and means on the outer periphery of said housing for locking said chain against movement including a portion having a chain receiving slot therein.

2,352,458

TEMPERATURE COMPENSATOR FOR INDUCTANCE COILS

Elmer O. Thompson, Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application October 15, 1942, Serial No. 462,177
2 Claims. (Cl. 171—242)



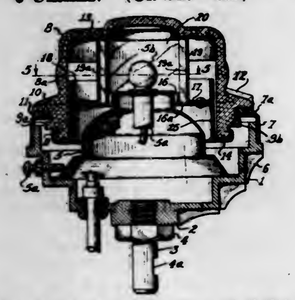
1. In combination, a hollow coil support, a helical coil mounted thereon, a U-shaped bracket embracing an edge portion of said support at one end thereof, a rod carried by the inner arm of said bracket and extending transversely within said support, a conductive loop rotatably carried by said rod, and a thermal-responsive spiral element surrounding said rod and having its ends connected respectively to the rod and to said loop, said element serving to rotate said loop to vary its inductive relation with said coil according to temperature changes, thereby to maintain the effective inductance of said coil substantially constant.

2,352,459

BLACK-OUT LAMP

Wagn Trautner, Hamilton, Ohio, assignor to The K-D Lamp Co., Cincinnati, Ohio, a corporation of Ohio

Application March 30, 1942, Serial No. 436,855
6 Claims. (Cl. 240—7.5)



1. In a blackout lamp having visibility at 360 degrees, a base, a glass having a bayonet type of interlock with said base, means for supporting a light source upon said base and within the glass, and a mask structure within the glass and supported thereby, and arranged to block all rays except interspaced spots of light, the glass having an annular refraction lens therein, and shrouds located to block rays from the light spots except those which pass through the lens.

2,352,460

PROCESS FOR THE TREATMENT OF RUBBER WASTE

Angiolo Treves, New York, N. Y., assignor, by mesne assignments, to Rubber & Plastics Compound Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application January 21, 1941, Serial No. 375,292. In France May 9, 1940
2 Claims. (Cl. 260—717)

1. Process for the manufacture of a vulcanizable rubber reclaim which is soluble in customary rubber solvents selected from the group consisting of benzol, benzine, carbon disulphide and carbon tetrachloride, consisting in mixing a mixture consisting of ground vulcanized rubber scrap and about 4–10% of a substance selected from a group consisting of abietic acid and sylvic acid in the absence of water and steam for a period of about 1 to 2 hours, while maintaining a temperature of between 140 to 180° C.

2,352,461

HIGH MOLECULAR WEIGHT UNSATURATED ORGANIC ACIDS AND PROCESS OF PREPARING THEM

Joseph Frederic Walker, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 25, 1942, Serial No. 432,359
12 Claims. (Cl. 260—537)

12. A composition of matter comprising a mixture of dibasic acids having the formula:

$$HOOC.(CH_2—CH=CH—CH_2)_n.COOH$$

wherein n is a whole number greater than one and having a molecular weight within the range of about 200 to 500.

2,352,462

METAL DEACTIVATOR

Frederick T. Weiss, Normandy, and Vladimir Anastasoff, St. Louis, Mo., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 24, 1942, Serial No. 452,244
11 Claims. (Cl. 252—51)

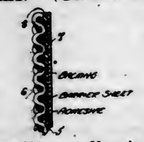
1. A composition of matter consisting essentially of a substantially neutral purely organic substance which is normally stable but oxidizes when exposed to atmospheric oxygen in the presence of a copper oxidation catalyst, said substance having dissolved therein a small amount of a metal organo complex of an organic nitrogen-bearing deactivator for copper catalysts, said metal in said complex being non-catalytic and selected from the group consisting of lithium, beryllium, magnesium, calcium, strontium, barium, zinc, cadmium, aluminum and tin, said complex being soluble in said substance at least to the extent of .01% and having a configuration such that the non-catalytic metal is a member of a five- or six-membered chelate ring comprising at least two carbon atoms and at least one nitrogen atom which is trivalent, aliphatic and connected through a double bond to one of said carbons in said ring.

2,352,463

ADHESIVE COATED FABRIC AND BARRIER COATING COMPOSITION THEREFOR

Elwood Paul Wenzelberger, Plainfield, and Frank Nason Manley, Highland Park, N. J., assignors to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey

Application June 15, 1940, Serial No. 340,842
2 Claims. (Cl. 117—80)



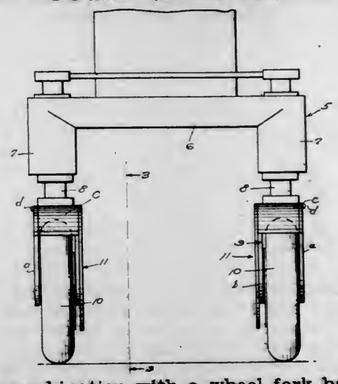
2. A pressure sensitive adhesive tape comprising in combination a flexible backing; a normally tacky pressure sensitive adhesive mass overlying one face of said backing; and a continuous, impervious, rubber barrier coat formed from an aqueous dispersion of a latex rubber, Karaya gum, and vulcanizing agent, said barrier coat being coextensive with and interposed between said adhesive mass and said backing and substantially confined to the surface of said backing for preventing penetration of said mass into said backing, said latex rubber coat having the property of preventing migration or intermingling of the component parts of said mass and said barrier coat into each other whereby the effective life of the adhesive mass is prolonged.

2,352,464

TIRE GUARD FOR STRADDLE TRUCKS

Clarence Leo Aerni, Ferriday, La.

Application October 23, 1941, Serial No. 416,273
1 Claim. (Cl. 280—160)



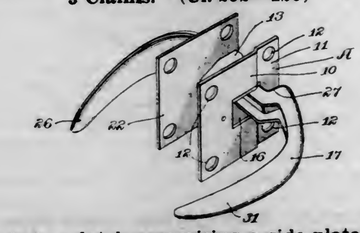
The combination with a wheel fork having a vertical leg provided at its lower end with an annular flange on one side of the leg, a vertical central bulge on said side of the leg forming a rib extending upwardly from said flange, and an arcuate lateral wheel guarding flange at the upper end of the leg and on the other side thereof, of a plate-like side guard for the wheel of segmental form disposed against the first-mentioned side of the leg in vertical position and having a straight bottom edge, and an opening therein fitting around said annular flange, said guard having a vertical slot therein extending radially upwardly from said opening and fitting over said rib, and fasteners extending through the upper edge portion of said guard into said lateral flange.

2,352,465

DOOR LATCH

Richard T. Anderson, St. Paul, and Carl Olson, Minneapolis, Minn.

Application February 26, 1941, Serial No. 380,568
3 Claims. (Cl. 292—126)



1. A door latch comprising a side plate having an aperture therethrough, a housing having open ends having one end abutting said side plate, a

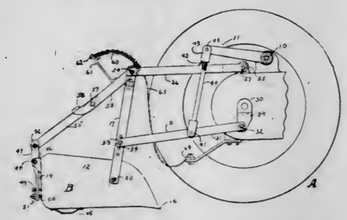
pair of parallel flanges on said side plate adjacent said aperture engaging said housing to hold said housing in place relative to said side plate, said housing having apertures therethrough adjacent said one end, and ears on said flanges engaging through said apertures to hold said housing to said side plate, and curved handle means extending through said aperture, embraced by said housing, and pivotally connected thereto.

2,352,466

POWER PICKUP AND DUMPING SCRAPER ATTACHMENT FOR TRACTORS

Bruno F. Arps, New Holstein, Wis., assignor to Arps Corporation, New Holstein, Wis., a corporation of Wisconsin

Application March 21, 1941, Serial No. 384,496
4 Claims. (Cl. 37—126)



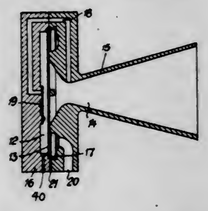
4. In combination with a tractor having a power lift, upper and lower arms pivoted at their front ends respectively to vertically spaced points on the tractor and extending rearwardly therefrom in generally parallel relationship, one of the arms being connected to the power lift, an inverted generally U-shaped supporting element pivoted to the rear ends of said arms, a scoop pivotally connected intermediate its ends to the lower ends of said element, a linkage comprising a pair of pivotally connected sections, said linkage being pivoted at one end to the rear of the scoop and at the other end to the upper portion of the element and normally arranged to prevent tilting of the scoop about its pivotal connection with the element while the scoop is in digging or carrying position, means associated with the forward section of said linkage whereby the joint of the linkage may be broken and the scoop forced to tilt forward about said pivot.

2,352,467

ALARM APPARATUS

John Gustaf Mauritz Brodén, Malmo, Sweden

Application April 18, 1942, Serial No. 439,595
In Sweden March 18, 1939
10 Claims. (Cl. 116—142)



1. An elastic fluid operated alarm apparatus comprising in combination, a casing, an inlet channel for fluid under pressure, an outlet channel forming a sound amplifying member, a closed chamber in said casing, an oscillatable member arranged and constructed to close one end of both of said channels and to be actuated on one side by the fluid under pressure in said inlet and outlet channels and on the other side by the pressure prevailing in said chamber, means for keeping at least part of the periphery of said oscillatable member by a peripherally arranged force, in abutment against said casing, a passage connecting said chamber with said outlet channel, and a counter-pressure valve in said passage, said counter-pressure valve being arranged and constructed to permit part of said fluid to flow from said outlet channel to said chamber but preventing flow of fluid in the opposite direction.

2,352,468

DRILLING FLUID

Thompson W. Burnam, Inglewood, Calif.

No Drawing. Application November 24, 1941, Serial No. 420,266
2 Claims. (Cl. 252—8.5)

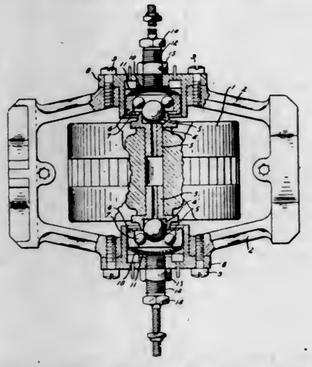
1. A mud-laden fluid for oil or gas wells, which comprises mainly an aqueous suspension of colloidal clay and from 0.05% to 0.1% of a cellulose ether of the water-insoluble type and a solvent of said cellulose ether.

2,352,469

SELF-ALIGNING AND TEMPERATURE COMPENSATING ROTOR BEARING ASSEMBLY

Bert G. Carlson, Erieside, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application November 2, 1942, Serial No. 464,264
2 Claims. (Cl. 308—233)



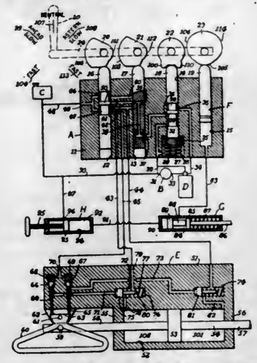
1. In combination in a gyro rotor assembly, a rotor provided with axial pivots about which it rotates having press fitted steel ball extremities, ball bearing assemblies in engagement with said pivot ball extremities and supports for said ball bearing assemblies to rotate therewith, resilient bimetallic thermostatic members stationarily mounted in said ball bearing assembly supports to bear against the races of said ball bearings for urging said ball bearings inwardly into engagement with said pivot ball extremities, exterior means bearing directly on said bimetallic members for adjusting the compression of said bimetallic members for forcing said ball bearings inwardly against said pivot ball extremities for predeterminedly adjusting and constantly maintaining constant the bearing clearances therebetween over a range of temperature changes.

2,352,470

FLUID PRESSURE REMOTE CONTROL SYSTEM

Quintin Healey Carlton, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England

Application June 26, 1942, Serial No. 448,640
In Great Britain March 24, 1941
7 Claims. (Cl. 121—38)



1. A motor unit for a fluid-pressure control system, including a block-like unit formed with a closed cylinder, a piston member operative in the cylinder and dividing the same into two working chambers, the block unit being formed with a conduit opening into one end of the cylinder and with a second conduit opening into the opposite end of the cylinder, valves mounted in the block unit and respectively controlling conduits leading into the respective ends of the cylinder, distributing valve means for selectively directing the pressure fluid into either end of the cylinder through the conduits or to both valves to admit pressure flow through the valve-controlled conduits, means operated in the movement of the piston member for selectively opening either valve in accordance with piston member movement, a source of fluid under pressure, a timing valve, means biasing said timing valve to closed position, means connecting the source of fluid under pressure with the inlet of the timing valve, means connecting the outlet of the timing valve with the inlet of the distributing valve means, manually operated means for biasing the timing valve to open position to establish connection between the source of fluid under pressure and the distributing valve means, and damping means acting on said timing valve to interpose a time lag intermediate the manual opening thereof and the return to normal closed position.

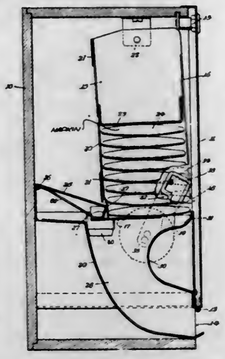
2,352,471

VENDING MACHINE

Charles L. Casey, Chicago, Ill.

Original application April 25, 1942, Serial No. 440,481. Divided and this application April 26, 1943, Serial No. 484,571
6 Claims. (Cl. 312—64)

1. In a vending machine, a casing having a discharge chute provided with a delivery outlet for the articles, an article holder shiftably mounted in the casing and provided with a supporting base and outlet for the articles, a pivoted ejector movable over said base to eject the article from the holder, when said holder is moved in one direction, and a projection forming one wall of and extending into said chute, said projection being positioned to be engaged by one edge of the article that is being delivered from the said holder, to temporarily support said edge of the article in a position that the article and base will extend across and form a closure for the



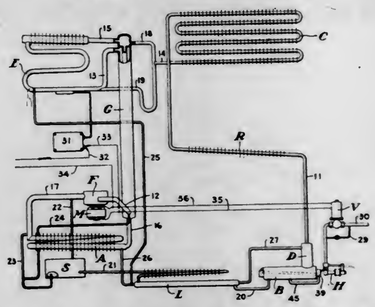
chute, and subsequently, when the article is entirely delivered from the holder, cause the article to be turned over as it falls through the chute.

2,352,472

REFRIGERATION

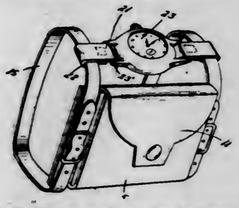
Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio

Application June 12, 1940, Serial No. 340,038
5 Claims. (Cl. 62—119.5)



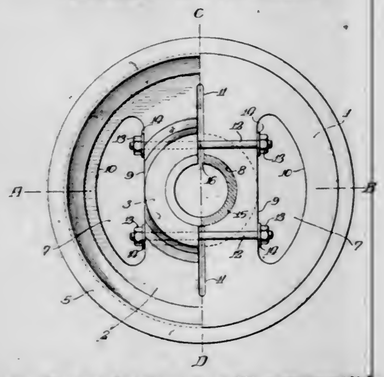
1. In an absorption refrigerating system involving an evaporator and an absorber connected for circulation of an inert gas therebetween, a generator, means for liquefying refrigerant vapor produced in said generator and for supplying the liquid refrigerant to said evaporator, means connecting said absorber and generator for circulating an absorption solution therebetween, said generator comprising an elongated tubular body having a heating flue extending lengthwise therethrough, a combustible fuel burner positioned to discharge products of combustion through said flue, an analyzer extending above and opening into the top portion of said generator body adjacent the end thereof which receives products of combustion from said heater, said means connecting said generator and said absorber being arranged to supply strong solution to said analyzer and to withdraw lean solution from the bottom end portion of said generator body remote from said analyzer, and a circulation conduit including a portion extending lengthwise of and in said flue connecting the bottom central portion of said generator body to the top end portion thereof remote from said analyzer.

2,352,473
WRIST ATTACHED PURSE
Francesco P. Cortese, Highland Park, Mich.
Application October 12, 1940, Serial No. 360,996
1 Claim. (Cl. 224—28)



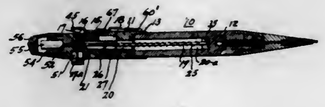
A purse including a flat back member and a front member having their side edges matching with each other and secured together, said front member having gussets to provide a collapsible compartment for the purse projecting forwardly from the plane of its attached side edges, a flap on the upper edge of the back member closing the top of the compartment, and wrist attaching straps secured to the front surface of said front member at its attached edges in parallel relation to said side edges.

2,352,474
SHEAVE
David Firth, South Bend, and Donald P. Lower, Mishawaka, Ind., assignors to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application August 6, 1942, Serial No. 453,829
6 Claims. (Cl. 74—230.11)



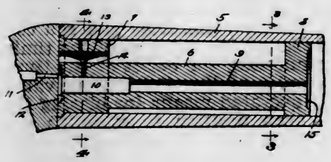
1. A sheave having a split contractible hub and an unsplit annular rim portion unitary therewith, said hub being composed of adhesively united wood discs and said rim portion being composed of a plurality of said discs and a plurality of flat-sided rim rings adhesively united to said discs and to one another, said discs having registering center holes to provide the hub bore and registering slots extending radially from said holes and having closed outer ends in said discs, the hub being divided longitudinally by said slots, said discs being formed to provide flat hub sides parallel with said slots, there being open spaces between said flat hub sides and opposite segments of the rim portion of the sheave, the discs which form laminations of the rim portion having registering openings to provide said open spaces and annular portions forming web laminations encircling said openings and slots in said discs, and bolts arranged transversely of said slots and connecting the split hub parts, by the tightening of which bolts the hub can be contracted on a contractible bushing to clamp the sheave to the bushing and the latter to a shaft.

2,352,475
STAPLING DEVICE
William D. Faltz, Pittsburgh, Pa.
Application May 17, 1940, Serial No. 335,753
7 Claims. (Cl. 1—49)



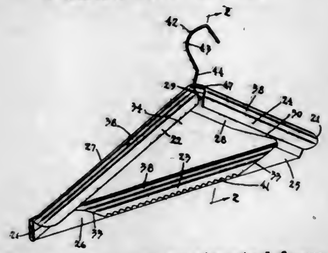
1. A stapler to be held and used in one hand, consisting of a tubular magazine having a longitudinal passage to receive a unit batch of separable staples; a narrow feed slot to receive and guide a single staple; a thin reciprocable staple driver slidable in said feed slot, from one upper terminal position to a lower pressing position to separate, move and compress a staple; an enlarged head at the top of the staple driver to permit easy raising of the plate and to provide a pressure surface on its top to receive the thumb of the hand as an operating force, said head, when depressed, fitting into a recess in the tubular member; an anvil anchored on the side of the magazine and in the path of the staple driver to cooperate with the staple driver to compress a staple; and a spring biased pusher behind the staples and biasing them towards the feed slot into the path of the staple driver.

2,352,476
SHOTGUN SHELL ADAPTER
Fred Adams French, Norwalk, Ohio
Application December 9, 1942, Serial No. 468,385
1 Claim. (Cl. 102—41)



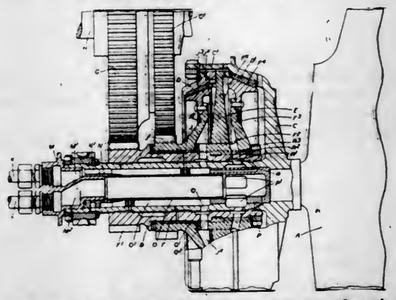
A shotgun shell adapter, comprising an elongated body including circular enlargements at the ends of the body, said enlargements adapted to fit within a gun barrel, said body having a sub-calibre gauge bore extending throughout the length thereof, one of the enlargements having a bore disposed longitudinally with respect to the body and having a transversely disposed bore communicating with the sub-calibre bore, a retaining pin fitted within the transversely disposed bore and adapted to engage a shell positioned within the sub-calibre gauge bore, a head on the pin adapted to limit movement of the pin by contact with the body adjacent to said bore, a leaf spring having an opening in which one end of the pin is held, said spring also engaging the wall of the bore in which it is positioned, tensioning the spring, and said spring adapted to urge the retaining pin into the sub-calibre gauge bore, frictionally engaging a shell positioned within the sub-calibre gauge bore, holding the shell against displacement.

2,352,477
GARMENT HANGER
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application May 31, 1941, Serial No. 395,921
7 Claims. (Cl. 223—87)



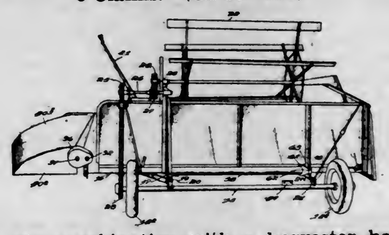
1. A garment hanger constructed from a strip of paper folded obliquely intermediate its ends to form a cross-bar and two converging arms connected therewith and overlying one another, ears formed on certain of said folded parts at the locality of said folds and overlying other portions of said folded parts, means for securing said ears to said parts, said cross-bar, arms and ears lying substantially in the plane of the strip of paper from which they are formed, supporting means attached to said arms and means on said arms for supporting garments thereon.

2,352,478
VARIABLE RATIO TRANSMISSION MECHANISM
Frank Bernard Halford, Edgware, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application March 26, 1942, Serial No. 436,359
In Great Britain November 25, 1941
6 Claims. (Cl. 74—364)



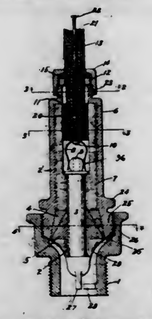
1. In variable ratio transmission mechanism of the type and for the purpose indicated, the combination of a driving shaft on which two gear wheels of different sizes are mounted together, a driven shaft on which an impeller may be mounted, two oppositely directed cone clutch members connected to the driven shaft in a position at one side of the said two gear wheels, two concentric shafts coaxial with said driven shaft and separately rotatable but both movable in the axial direction in relation thereto, a cone clutch member and a pinion on each of the said concentric shafts the clutch member being adapted to engage one of the clutch members on said driven shaft and the pinion meshing with one of the gear wheels on the driving shaft, and hydraulic means for moving the said concentric shafts in the axial direction and thereby causing engagement and disengagement of the clutch members on these shafts and the corresponding clutch members on said driven shaft whereby said shaft will be driven at one or the other of two alternative speeds.

2,352,479
WINDROWER
Edwin F. Haddle, Elmwood Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 20, 1942, Serial No. 439,650
9 Claims. (Cl. 56—228)



1. The combination with a harvester having a length considerably greater than its width and a wheel-supported axle for carrying the harvester, of means for attaching the axle to the harvester so as to cause the axle to extend in the direction of the length of the harvester for moving the harvester over the ground in a direction at right angles to its length for a harvesting operation, and of means for attaching the axle to the harvester so as to cause the axle to extend at right angles to the direction of its length for moving the harvester over the ground in the direction of its length for transport of the harvester.

2,352,480
SPARK PLUG
Lawrence A. Hyland, Washington, D. C., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 9, 1928, Serial No. 311,354
39 Claims. (Cl. 123—169)



1. A spark plug comprising a metallic casing, a central terminal disposed in said casing, a tubular member of insulating material within said casing, said tubular member surrounding and supporting said central terminal, means for centering said terminal relatively to said casing comprising a plurality of metallic wedging members, one of which abuts the lower end of said tubular member, and a second insulating member surrounding the portion of said central terminal adjacent said wedging members, said casing being shaped to insure maintenance of said wedging members in properly spaced relation to said in-

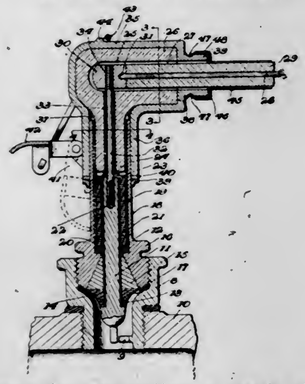
sulating members and in proper relation to each other.

20. In a spark plug, a cylindrical metal spindle having a terminal end adapted to receive an ignition current, an outer metal sleeve around the terminal end portion of said spindle and extending a substantial distance beyond the terminal end thereof, an insulated ignition current conductor entering said sleeve and having an exposed terminal end establishing electrical connection to said spindle, a metallic casing for said conductor connected to the free end of said sleeve and forming therewith a shield for said conductor and spindle, and continuous insulation contacting said sleeve and substantially filling the space between said sleeve and the outer end of said spindle, said insulation extending a substantial distance beyond the terminal end of said spindle between the extended end of said sleeve and the insulation surrounding said conductor, whereby the outer sleeve is effectively insulated from the spindle and the exposed end of the conductor.

2,352,481
SPARK PLUG STRUCTURE

Lawrence A. Hyland, Washington, D. C., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application July 1, 1929, Serial No. 375,241
66 Claims. (Cl. 123—169)



1. Means for connecting a spark plug cable and electrode having a recess in the upper end thereof, comprising an insulator, provided with a recess, surrounding said cable, a cap carried by the end of said cable, and a rod in electrical engagement with said cap, the lower end of the rod extending into said first named recess.

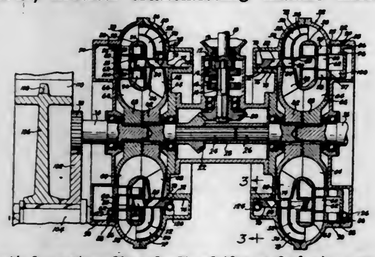
30. In apparatus of the class described, a spark plug body, a center electrode therein, a metal elbow secured to said body and having a reduced portion, solid insulating means in said elbow, in intimate contact in the wall thereof, a cable extending into the elbow, means for electrically connecting said cable and electrode, a metal shield for said cable, and means for detachably connecting the cable shield with the reduced portion of the metal elbow to provide an electrical connection to ground through said elbow.

2,352,482
TURBOTRANSMISSION

Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application January 27, 1941, Serial No. 376,151
1 Claim. (Cl. 180—9.2)

In a motor vehicle having an engine, a pair of spaced movable tracks supporting the vehicle and extending longitudinally thereof, means including oppositely directed shafts to propel the tracks longitudinally of the vehicle, a fluid operated transmission connected to each of said shafts, driving means between the engine and the transmissions, each of said fluid operated transmissions comprising rotatable fluid energizing and energy absorbing wheels cooperating to form power transmitting fluid circuits, spaced guide wheel members each having a plurality of spaced fluid deflecting channel portions adapted to be introduced into the power transmitting fluid circuit of each fluid operated transmission, a stationary member associated with each guide wheel member, motion transmitting means including

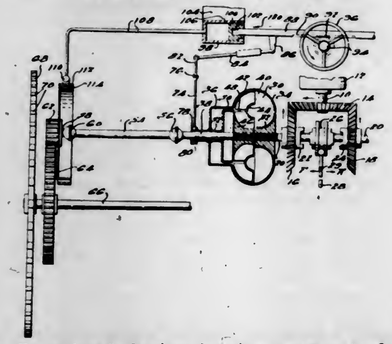


oppositely extending helical threads between each guide wheel member and its associated stationary member whereby the guide wheel members associated with each fluid operated transmission may be progressively and selectively introduced into their associated power transmitting fluid circuits to selectively drive said shafts in opposite directions, a single member operably connected to the guide wheel members of each fluid operated transmission, and manually operable means to independently operate said single members to separately actuate the guide wheel members of one fluid operated transmission relative to the guide wheel members of the other fluid operated transmission.

2,352,483
TURBOTRANSMISSION

Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 29, 1941, Serial No. 395,749
10 Claims. (Cl. 180—9.2)



1. In a track laying tractor, means including axles to drive the tractor, brakes associated with the axles, a driving shaft, a pair of driven shafts interposed between the driving shaft and said axles, fluid power transmitting means interposed between the driving shaft and each of the driven shafts and comprising fluid energizing impellers and energy absorbing turbines cooperating with the impellers to form power transmitting fluid circuits, means movable relative to the power transmitting fluid circuits to vary the power transmitted from the driving shaft to each of the driven shafts, manually operable means controlling said last named means, and means operable after a predetermined movement of said manually operable means to actuate the brakes associated with one of the spaced axles.

2,352,484
CATALYTIC TREATMENT OF HYDROCARBONS

Elmer R. Kanhofer, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

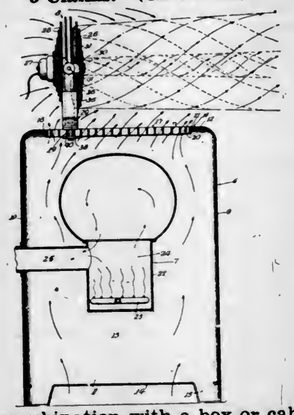
No Drawing. Application March 31, 1943, Serial No. 481,278
10 Claims. (Cl. 196—52)

1. A hydrocarbon conversion process which comprises subjecting a hydrocarbon to contact with a catalyst comprising finely divided hydrated silica produced by adding an acid to a solution of an alkali metal silicate containing an alkylene polyamine.

2,352,485
UNIT HEATER

Richard W. Kritzer, Chicago, Ill.

Application October 10, 1940, Serial No. 360,530
5 Claims. (Cl. 98—38)



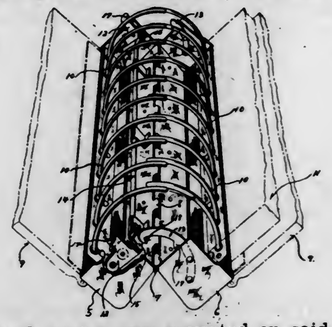
1. The combination with a box or cabinet-like casing adapted to have air circulate through it and provided with an air outlet in one exterior wall thereof, of a grill mounted on said one exterior wall of the casing and extending across said outlet, and a wholly unenclosed air circulator adapted to propel away from the casing the air emanating from the outlet, positioned adjacent and outwardly of the grill, and comprising an assembly of fan wheel and electric motor and a mount for the assembly anchored directly to the grill.

2,352,486
VISIBLE RECORD LOOSE-LEAF BINDER

Adolph G. Lotter, Milwaukee, Wis., assignor to Stationers Loose Leaf Company, Milwaukee, Wis., a corporation of Wisconsin

Application July 9, 1943, Serial No. 493,994
2 Claims. (Cl. 129—17)

1. In a loose leaf binder of the visible record type, wherein the complementary binder heads are connected for relative longitudinal as well as hinged motion so that leaves on the impaling prongs of one binder head may be shifted with respect to leaves on the impalling prongs of the other binder head; latch mechanism for releasably securing the binder heads in their closed positions; said latch mechanism comprising a hook fixed to one of the binder heads, and a pivoted spring biased latch member on the other

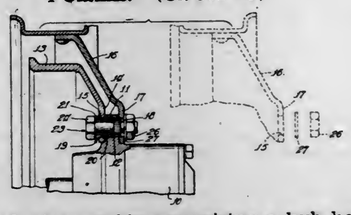


binder head; and a cam mounted on said latch member and positioned to engage the hook and automatically shift the binder heads longitudinally with respect to each other to one limit of motion during closure of the binder and thereby assure proper alignment of the impaling prongs with the apertures of the leaves.

2,352,487
WHEEL

Gordon G. McNamara, Jr., Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application September 11, 1942, Serial No. 457,980
4 Claims. (Cl. 301—9)



1. A wheel assembly comprising a hub having a radially disposed flange portion formed with an opening therein parallel to the hub axis; a wheel having a wheel body mounted on the hub for axial removal from the hub and including a radially disposed portion formed with an axially directed opening alined with the opening in the hub flange; an annular expansible sleeve fitting the opening in the hub flange; a bolt passing through the sleeve and through the opening in the wheel body and having a nut securing the hub and wheel together, said bolt including an enlarged portion parallel with the bolt and engaging and expanding the sleeve within the hub opening, with the result that the bolt and sleeve are retained in the hub flange when the wheel body is removed from the hub.

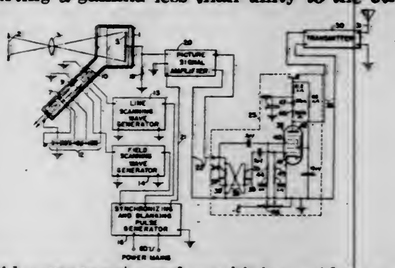
2,352,488
VIDEO SIGNAL CONTROL SYSTEM

Louis F. Mayle, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware

Application September 19, 1942, Serial No. 458,928
7 Claims. (Cl. 178—7.2)

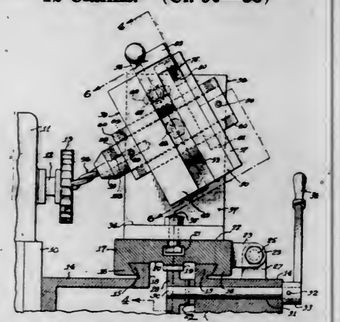
5. The method of translating a television signal comprising the steps of dividing a video signal

into at least two components, imparting a gamma greater than unity to one of said components, imparting a gamma less than unity to the other



of said components and combining said components to obtain a signal having a gamma either greater or less than unity.

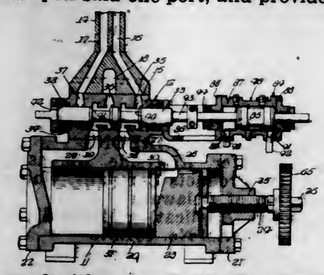
2,352,489
DEVICE FOR MACHINING ENDS OF ARTICLES
William Melin, Detroit, Mich.
Application January 19, 1942, Serial No. 427,278
12 Claims. (Cl. 90—56)



1. In a device for machining the ends of articles, a base, a rotatable work-holder mounted on said base, said work-holder having a plurality of peripherally-spaced detent-engaging portions associated therewith, a work-holder shifter movably mounted adjacent said work-holder, releasable detent means on said shifter releasably engageable with said portions, a second detent engaging within another set of peripherally-spaced detent-engaging portions and cooperative engageable cam faces on said second-mentioned detent and shifter for locking the work-holder in adjusted position.

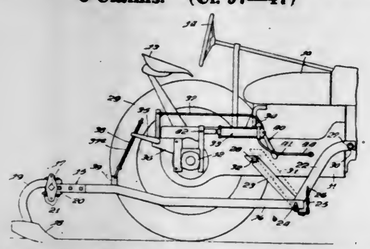
2,352,490
MEASURING AND FILLING MACHINE
Carl G. Meyers, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois
Application December 26, 1942, Serial No. 470,202
7 Claims. (Cl. 222—250)

1. A machine adapted to fill containers with measured charges of liquid material and comprising a cylinder having ports at the ends thereof, a floating piston mounted in the cylinder to slide back and forth between the ends, passage forming means connected to receive the material under pressure, a unitary valve mechanism disposed in associated relation with the cylinder and consisting of a housing between the passage and said cylinder and a spool type valve mounted in the housing to slide back and forth between two positions, adapted when in one position to establish communication between the passage and one of the ports and open the other port and when in its other position to establish communication between the passage and said other port and open said one port, and provided at one



end thereof with a longitudinally extending rod, and means for automatically shifting the spool type valve of the valve mechanism at the end of each stroke of the floating piston, embodying a fluid pressure actuated piston and cylinder device having the piston thereof mounted on said rod.

2,352,491
AGRICULTURAL IMPLEMENT
John R. Orelind, Wilmette, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 1, 1942, Serial No. 453,179
3 Claims. (Cl. 97—47)

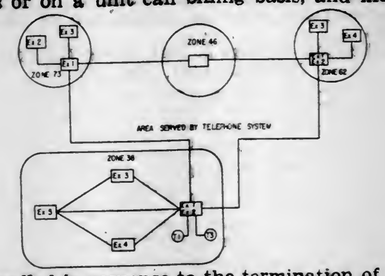


1. In combination, an implement-supporting frame, an implement adapted to be connected to the implement-supporting frame, means for hitching the implement to the implement-supporting frame for vertical movement with respect thereto, said hitching means including a pair of hitch straps and a common hitch pin for securing the hitch straps to the implement-supporting frame for free fore and aft pivotal adjustment thereon, and fastening stud bolts provided on the tractor in longitudinally spaced relationship with respect to each other, said straps having open ended slots in their lower edges adapted to fit over the respective stud bolts, whereby the final arrangement of the straps with the stud bolts may be automatically made by movement of the tractor to cause the seating of the last-connected strap.

2,352,492
TELEPHONE SYSTEM
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application December 20, 1941, Serial No. 423,817
26 Claims. (Cl. 179—7.1)

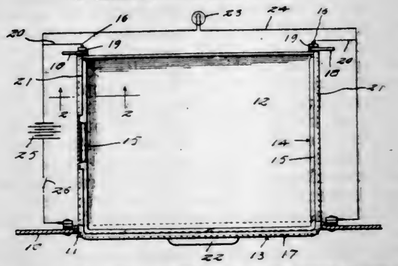
1. In a telephone system, a calling station, a called station, automatic switching apparatus for

setting up a call between said stations, mechanism selectively operative to establish a charge for said call calculated either on a monetary billing basis or on a unit call billing basis, and means



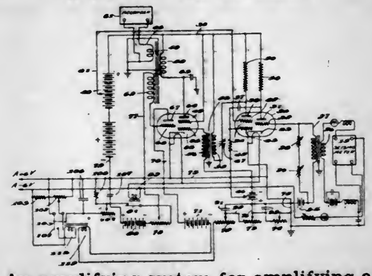
controlled in response to the termination of said call for selectively controlling the operation of said mechanism to select the particular billing basis to be used in charging for said call.

2,352,493
ILLUMINATED AUTOMOBILE ASH TRAY
James D. Palmer, Monmouth, Ill.
Application June 17, 1943, Serial No. 491,173
4 Claims. (Cl. 240—2)



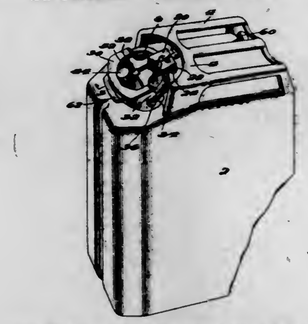
1. In combination with an instrument panel, said panel having an opening, an ashtray movable in said opening, and elongated electric lamp bulb means functioning dually to mount directly and slidably and illuminate said ashtray and means on the ashtray engaging the first-mentioned means.

2,352,494
SEISMIC SURVEYING
Josephus O. Parr, Jr., San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application July 21, 1942, Serial No. 451,779
4 Claims. (Cl. 177—352)



1. An amplifying system for amplifying a train of waves extending over a period of several seconds and in which the first part of the train has a general amplitude level several times greater than that of the remainder and in which the general level of the remainder gradually decreases, the combination with a seismometer for converting incoming seismic energy into electrical wave form signals, and means for amplifying and recording such signals, said amplifying means including at least one thermionic valve amplifier, of a thermionic control valve for applying to a control grid of said valve amplifier a more negative bias in response to increase in amplitude of incoming energy above a predetermined amplitude, means normally biasing the grid of said control valve beyond cut-off, means applying to the grid of said control valve a bias derived from the incoming energy of such value as to render the grid potential less negative than said normal bias when said energy exceeds said predetermined amplitude, and means automatically operable before the major portion of the wave train has been received to gradually render said normal bias more negative toward the end of the period of arrival of the train to effect a corresponding increase in said predetermined amplitude independent of subsequent incoming energy, said last named means acting over the major portion of the period of arrival of the train.

2,352,495
CAN CLOSURE
Charles R. Rau, Chattanooga, Tenn., assignor to Samuel Stamping and Enameling Company, Chattanooga, Tenn., a corporation of Tennessee
Application March 24, 1942, Serial No. 436,031
14 Claims. (Cl. 222—483)

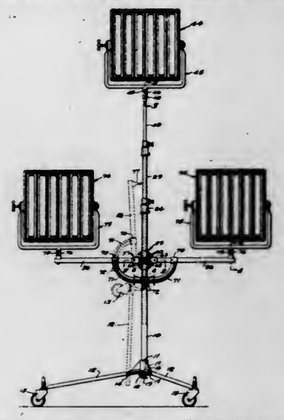


9. A closure for a container comprising a cover, a spout carried thereby, a link plate hinged, respectively, to the container and to the cover, a clamping member, hinged to the cover and engageable with the container for holding the cover closed, and a closure cap for said spout, carried by said hinge plate.

2,352,496
COLLAPSIBLE AND VERTICALLY ADJUSTABLE STAND FOR WORK LAMPS
Jess C. Rose, Los Angeles, Calif., assignor to Bardwell & McAlister, Inc., Los Angeles, Calif., a corporation of California
Application February 10, 1942, Serial No. 430,224
2 Claims. (Cl. 211—174)

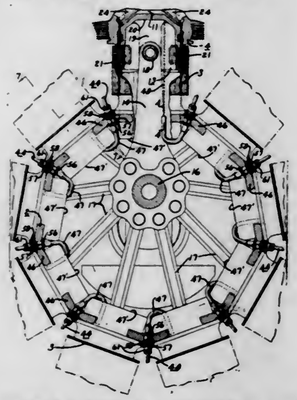
1. In a lamp stand, the combination of a vertical tube, a tube telescopically receivable within the first mentioned tube and adapted to support a lamp, means for clamping the second mentioned tube in selected positions of vertical adjustment, a mounting vertically slidable on the outside of the first tube, means for clamping said mounting to said first tube in selected positions of vertical adjustment, oppositely projecting lamp supporting arms pivotally connected to said

mounting, and bracing means connected to said arms at points spaced outwardly from the pivotal connections of the arms and extending downwardly to engage opposite sides of said first mentioned tube at a point below said pivotal connec-



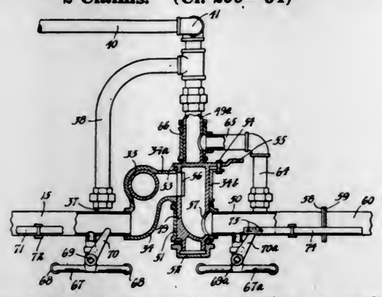
tions, said bracing means when in engagement with said first tube supporting said arms in outwardly extended positions, and said arms being collapsible in an upward direction by pivotal action at said pivotal connections.

2,352,497
ENGINE
Carl G. A. Rosen, Peoria, and Carl R. Maxwell, Washington, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application October 1, 1943, Serial No. 504,552
11 Claims. (Cl. 123—176)



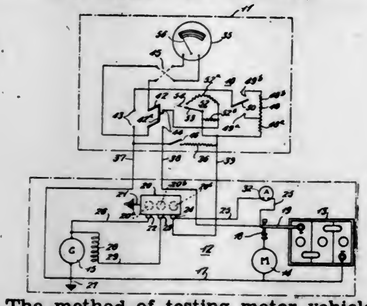
7. In a radial internal combustion engine having a crankcase member, a plurality of cylinders disposed about the crankcase member, and pistons within the cylinders; a piston oil cooling system comprising an annular-like manifold pipe for oil and which is mounted on the engine without the crankcase member, feed lines connected to the manifold each having a portion extending into the crankcase member and having an outlet for directing oil against an associated piston, an interior manifold for oil to be conducted to other engine parts to be lubricated, and a line for conducting oil from said first mentioned manifold to said interior manifold.

2,352,498
ROAD SPRAYING APPARATUS
Thorman W. Rosholt, Minneapolis, Minn., assignor to Rosco Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application January 2, 1941, Serial No. 372,879
2 Claims. (Cl. 299—34)



2. In a liquid distributing device, a tank, a supply conduit connected to said tank, means for producing a flow of liquid from said tank to said supply conduit, a relatively stationary spray bar section having a partition thereof dividing the same into an inlet chamber and an outlet chamber, said chambers communicating at an end of said spray bar section, said supply conduit being connected to said inlet chamber at the end of said spray bar section opposite to the point of communication between said chambers, a spray bar extension having a partition therein dividing it into an inlet chamber and an outlet chamber, a pivotal connection between said stationary spray bar section and said extension permitting said extension to swing relative to said stationary spray bar section, means at the outer end of said extension affording flow communication between the inlet and outlet chambers of said extension, said pivotal connection having conduits communicating with said stationary spray bar section and said extension to provide flow communication between the inlet chambers of said stationary section and said extension, a return conduit communicating with said tank, and conduits connecting said outlet chambers of said stationary section and said extension with said return conduit.

2,352,499
ELECTRICAL TESTING APPARATUS AND METHOD
Richard E. Sears, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application April 19, 1941, Serial No. 389,402
3 Claims. (Cl. 175—183)



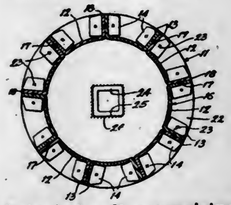
1. The method of testing motor vehicle electrical systems of the type embodying a storage battery and an engine-driven generator to ascertain the value of the current flowing in a selected portion of the system during operation thereof without breaking any of the connections of the system, comprising connecting a load of known resistance so as to be energized from the battery of the system in series with said selected portion, measuring the voltage drop across such load with a meter and determining the value of the current flow through said load, connecting the meter across said selected portion of the system and again energizing said resistance and selected portion in series from said battery and varying the resistance of the meter circuit to cause the meter to show a current reading of the value of the current flow previously determined through said load, and then operating said generator at variable speeds to cause a variable current from the generator to flow through said selected portion of the system with the ampere values of such variable current being indicated directly by said meter.

2,352,500
DEVICE FOR TESTING VISUAL ACUITY
Carl F. Shepard, Chicago, Ill., assignor to Northern Illinois College of Optometry, Chicago, Ill., a corporation of Illinois
Application March 19, 1942, Serial No. 435,334
5 Claims. (Cl. 88—20)



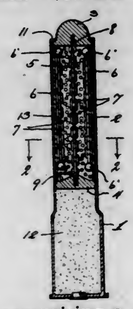
2. A chart for testing visual acuity, embodying three adjacent but separated targets, each target embodying spaced stripes of substantial length and width, one target being disposed intermediate the other targets, the stripes on the targets adjacent and on opposite sides of the intermediate target being disposed at different angles to each other, and at substantially the same angle, respectively, clockwise and anticlockwise with relation to the intermediate stripes, all of the spaces between adjacent stripes being of substantial area, all of said stripes being of a color sharply contrasting with the color of the spaces between the pairs of stripes, and a dot of the same color as the stripes disposed in a predetermined space between adjacent stripes, said dot being of a diameter between at least one-half and two-thirds of the width of the space in which it is located.

2,352,501
WELD FABRICATED ROLL
George Slavicek, Berwyn, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 28, 1943, Serial No. 492,497
3 Claims. (Cl. 130—33)



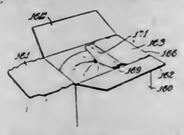
1. A weld fabricated roll comprising a plurality of arcuate sections, said sections having outwardly bent flanges, said flanges running longitudinally of said sections and having inwardly bent ends, and a pair of end cores, said longitudinal flanges welded together and the inwardly bent ends welded to said end cores, whereby the resultant roll has a cylindrical tube with longitudinal external ribs.

2,352,502
ANTIAIRCRAFT PROJECTILE
William E. Smith, Goodland, Kans.
Application February 8, 1941, Serial No. 378,040
2 Claims. (Cl. 102—89)



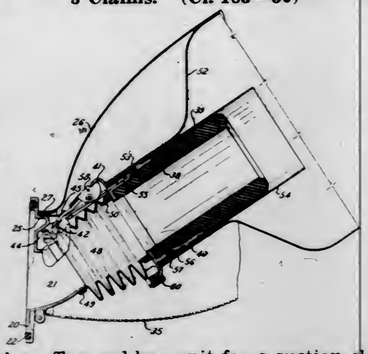
1. A cartridge, comprising a shell casing having an elongated forward end portion, a disk-like body secured within said forward end portion adjacent the inner end thereof and forming a removable wad for maintaining a powder charge in the casing, a disc like body secured within the outer end of the forward end portion and having an encircling shoulder, the edge of said forward end portion being turned over said shoulder to maintain the last body in place, a longitudinally divided cylinder within the forward end portion of the casing between said bodies for maintaining the latter in spaced relation, a plurality of missiles housed within the space between said bodies, said missiles comprising sections of chain, and one of said chain sections forming a coupling means between said bodies and holding said bodies securely in position against the ends of the divided cylinder.

2,352,503
CONTAINER
Richard R. Walton, Wellesley, Mass., assignor of one-half to Container Corporation of America, Chicago, Ill., a corporation of Delaware, and one-half to Dewey & Almy Chemical Company, Cambridge, Mass.. a corporation of Massachusetts
Application April 16, 1941, Serial No. 388,787
25 Claims. (Cl. 229—14)



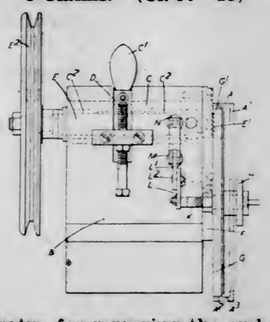
1. An improved package comprising a container of fibre-board or the like having a body portion and a plurality of flaps hingedly attached to said body portion to form a top closure therefor, and a bag-like lining element of flexible, liquid-impervious material, having a mouth portion sealed by twisting the material adjacent said mouth portion, said mouth portion of said lining element gripping one of said flaps to prevent untwisting of the mouth.

2,352,504
SUCTION CLEANER
Harry B. White, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application August 11, 1939, Serial No. 289,565
3 Claims. (Cl. 183—36)



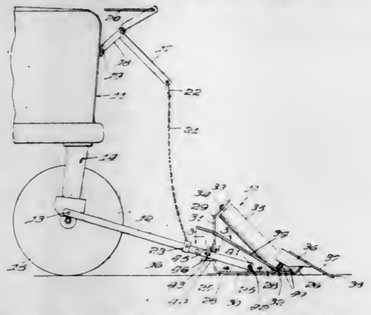
1. A muffler and bag unit for a suction cleaner comprising a connector adapted to be connected to the exhaust outlet of a suction cleaner, a muffler including a rigid body and noise-reducing means pivotally connected to said connector by means including an expansible air-conducting bellows, bag-seating and-clamping means on the rigid body of said muffler movable therewith and adapted to clamp the enclosing mouth of a dirt-filtering bag thereon, a filter bag positioned at the end of said muffler with its mouth seated on said muffler and clamped thereto, spring means between said connector and said muffler exerting a lifting force on the latter to counterbalance at least in part the force of gravity acting thereon and on the parts supported thereby and an enclosing supporting bag with its mouth seated on said connector and enclosing said bellows, said muffler, and said filter bag, and aiding in the positioning of the latter two elements through contacting the sides of said filter bag in its inflated condition.

2,352,505
MANUFACTURE OF NUTS AND OTHER SCREW-THREADED MEMBERS
Joseph Youhill, Staines, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application July 21, 1942, Serial No. 451,788
In Great Britain August 20, 1941
8 Claims. (Cl. 90—15)



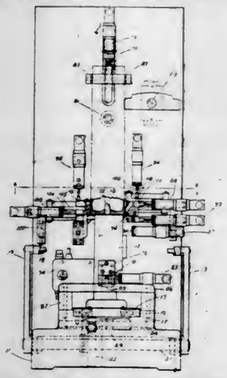
1. Apparatus for removing the end portion of the thread of a screwthreaded member comprising in combination a framing, an adapter mounted on the framing and constituting a support for the piece to be treated which is held by and engaged with that support by its screw-thread, a rotating spindle mounted in the framing and carrying a milling cutter which lies adjacent to and initially clear of the thread of the piece to be treated when this is in engagement with its support, the axis of this spindle lying parallel to the axis of the piece to be treated as it is held by the support, and means for moving the said rotating spindle in a direction normal to its axis and thus bringing the cutter against the end part of the thread.

2,352,506
VINE LIFTER AND DIVIDER
Charles H. Zirckel, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 10, 1942, Serial No. 454,205
3 Claims. (Cl. 97—192)



1. In a crop treating apparatus, in combination, a vehicular support, forwardly extending pilot means pivoted at one end on said support for free vertical floating movement, a forwardly extending vine divider unit including a ground-engaging shoe, a bracket upon said shoe, an upwardly and rearwardly extending divider cylinder mounted for rotation in said bracket, and means pivotally mounting said shoe intermediate its ends upon the free end of said pilot means for rocking movement with respect thereto.

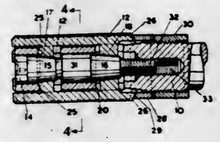
2,352,507
GAUGING DEVICE
Willis Fay Aller and Louis J. Mahlmeister, Dayton, Ohio, assignors to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application July 3, 1942, Serial No. 449,569
6 Claims. (Cl. 33—174)



1. Gauging apparatus comprising a work holder having a work engaging and locating surface po-

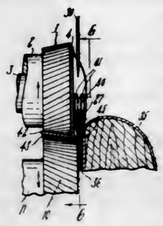
sitioning the work in one plane, a tapered work engaging member axially movable on the work holder to engage and center the work in a predetermined position in said plane, means for gauging the axial position of said work engaging member when engaging the work, and means for positively retracting said tapered member to facilitate removal of the work.

2,352,508
ADJUSTABLE REAMER
John Archer, Woodford, England, assignor to English Steel Corporation Limited, Vickers Works, Sheffield, Yorkshire, England
Application January 4, 1943, Serial No. 471,295
In Great Britain January 9, 1942
2 Claims. (Cl. 77—76)



1. In an adjustable reamer the combination of a stock having a cylindrical socket at one end with mutually intersecting external longitudinal slots and internal circular grooves cut in the socket wall, the intersections of slots and grooves forming separated passages leading from the base of each slot to the interior of the socket and the ungrooved imperforate parts of the socket wall forming end and intermediate bridging portions across the slots and also providing end walls closing both ends of all the passages, cutters in such slots having projections located in such passages, the forward edge of the forward projection of each cutter having an undercut formation co-operating with a bevelled end wall of the passage in which that projection is located, an adjusting bolt movable axially in the socket, having journal portions bearing in the imperforate bridging portions and having coned portions co-acting with the cutter projections and an external lock between the cutters and the stock adjacent their rear ends.

2,352,509
INSEAM FASTENING MACHINE
Fred L. Ayers, Watertown, Mass.
Application April 4, 1941, Serial No. 386,913
9 Claims. (Cl. 112—47)



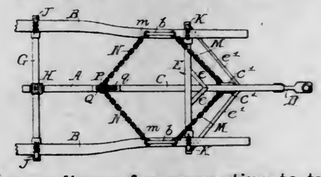
1. In combination, a shaft, a work feed member journaled on said shaft, and a second member between which and said work feed member the work may be fed by said work feed member, said shaft having a transverse guide slot therethrough adjacent to one side of said feed member and extending in the general direction of feed of the work between said members.

2,352,510
INNERSOLE AND METHOD OF MAKING THE SAME
Fred L. Ayers, Watertown, Mass.
Application January 26, 1943, Serial No. 473,612
4 Claims. (Cl. 36—22)



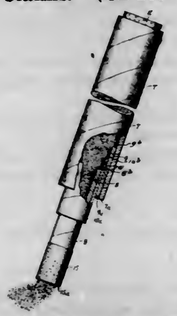
3. The method of making an innersole, which comprises cutting inwardly about the desired length of the margin of an innersole blank to form a marginal lip, and progressively lifting said lip and conforming and securing thereto a folded strip of bias fabric.

2,352,511
COUPLING MEANS FOR CONNECTING HORSE-DRAWN VEHICLES TO TRACTORS
Herbert William Batkin, near Whitchurch, England, assignor to Salopian Engineers, Limited, Whitchurch, England
Application October 15, 1941, Serial No. 415,120
In Great Britain November 8, 1940
4 Claims. (Cl. 280—33.44)



1. In an appliance for connecting to tractors, the shafts of a vehicle which is normally horse-drawn, the combination of connecting means for pivotally and detachably connecting the spaced shafts of the said vehicle to a tractor, means supporting the front end of the appliance, tubular transverse members adapted to pass under the shafts, inverted L-shaped brackets clamped to the ends of said tubular members and having portions adapted to pass over the shafts and giving slidable support thereto, and flexible connectors each attached at one end to the appliance and at its other end adapted for connection to the shafts.

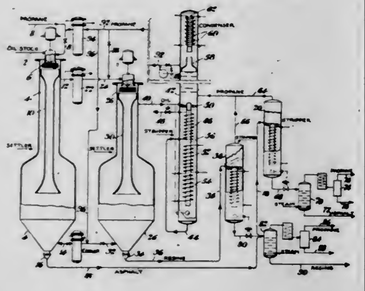
2,352,512
FIRE EXTINGUISHING APPARATUS
Henry E. Braloff, Rockville Centre, N. Y.
Application May 2, 1942, Serial No. 441,423
2 Claims. (Cl. 169—35)



1. A device for dispensing granular material comprising a main cylinder, an outlet-forming

cylinder of lesser diameter and a plurality of sleeves telescoped into one end of said main cylinder, one of said sleeves projecting outwardly of said main cylinder, said outlet-forming cylinder being telescopically entered in said latter sleeve, the inner ends of said sleeves and said outlet-forming cylinder providing a series of shoulders within said main cylinder, adjacent the outlet end thereof, relatively spaced to define a passage between said main cylinder and said outlet-forming cylinder having sections of different diameters, the diameters progressively decreasing toward the outlet-forming cylinder.

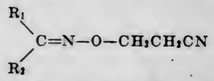
2,352,513
APPARATUS FOR REFINING RESIDUAL PETROLEUM STOCKS
David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application December 9, 1940, Serial No. 369,262
1 Claim. (Cl. 196—46)



In an apparatus for separating asphaltic constituents from petroleum oils diluted with a deasphalting solvent in which the diluted oil mixture is subjected to settling for the gravity separation of asphalt, an improved settling chamber of the vertical type having a greatly enlarged lower portion, an inverted funnel-shaped member extending substantially centrally into the chamber from the upper part thereof for conducting diluted oil containing the asphalt to be settled into the lower enlarged portion of the chamber, means for removing settled asphalt from the bottom of the chamber, and means for removing asphalt-free oil solution from the upper part of the chamber outside said inverted funnel-shaped member.

2,352,514
OXIMINO ETHER
Herman A. Bruson and Thomas W. Riener, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 28, 1941, Serial No. 381,075
11 Claims. (Cl. 260—464)

6. An oximo ether of the formula



wherein R_1 and R_2 are selected from at least one member of the group consisting of hydrogen, hydrocarbon radicals, and neutral substituted hydrocarbon radicals.

2,352,515
UNSATURATED POLYNITRILES AND PROCESS FOR MAKING SAME
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application December 6, 1941, Serial No. 421,951
14 Claims. (Cl. 260—464)

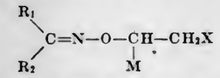
1. A method for preparing unsaturated polynitriles containing at least one β-cyanoethyl radical attached to an aliphatic carbon atom, which comprises reacting in the presence of an alkaline condensing agent at a temperature of about 0° C. to about 80° C. acrylonitrile and an unsaturated nitrile having a three-carbon desmotropic system adjacent to the nitrile group thereof.

7. As a new compound, an addition product of acrylonitrile and an unsaturated nitrile having a three-carbon desmotropic system contiguous to the nitrile group thereof, said addition product consisting of carbon, hydrogen, and nitrogen, having a chain of at least three carbon atoms attached to a nitrile group, said chain containing an olefinic linkage within three carbon atoms of the nitrile group, and having at least one β-cyanoethyl radical attached to the carbon atom contiguous to said nitrile group.

2,352,516
OXIMINO ETHER
Herman A. Bruson and Thomas W. Riener, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application November 18, 1942, Serial No. 466,051
20 Claims. (Cl. 260—326)

1. A method of preparing an oximino ether which comprises reacting an oxime in the presence of an alkaline condensing agent with an organic compound in which a double bond between two hydrogen-bearing carbon atoms is activated by an adjacent non-ionogenic heterogeneous negative group selected from carboxylic amido, imido, and ester groups.

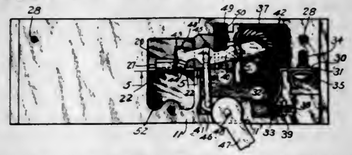
11. An oximino ether of the formula



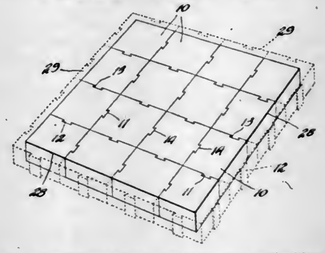
wherein R_1 and R_2 are selected from at least one member of the group consisting of hydrogen, hydrocarbon radicals, and neutral substituted hydrocarbon radicals, M is selected from a member of the group consisting of hydrogen and neutral organic radicals, and X represents a non-ionogenic heterogeneous negative organic group selected from carboxylic amido, imido, and ester groups.

2,352,517
THERMAL CIRCUIT BREAKER
Paul M. Christensen, Newington, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application May 9, 1941, Serial No. 392,618
12 Claims. (Cl. 200—116)

9. A circuit breaker of the character described including a casing and switch mechanism therein and comprising a stationary contact within the casing, a thermostatic element within the casing in spaced relation to the stationary contact, a movable conductor adapted to bridge said thermostatic element and stationary contact to make and break an electric circuit, a manually operable member accessible on the exterior of the casing, a link connecting said manually operable member and said movable conductor and forming therewith a toggle, one end of the link having guided sliding movement in the casing and pivotally supporting said conductor, and said link also being located transversely of the casing at substantially right angles to the longitudinal axis thereof when the switch is in the "on" position and movable by the manually operable member to an oblique position across the casing in the "off" position of the switch, and means engaging said conductor between its point of pivotal connection to the link and its end which engages the thermostatic element, said means being operable automatically to move said link and the conductor connected therewith to a second "off" position upon occurrence of abnormal conditions in the circuit.



2,352,518
PRINTING CUT AND METHOD OF MAKING IT
Joseph T. Cochran, Chicago, Ill.
Application September 30, 1940, Serial No. 359,032
9 Claims. (Cl. 101—395)

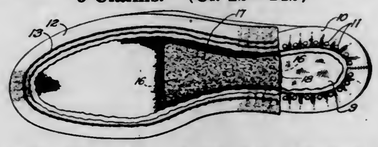


1. The combination with a printing plate member, of a backing therefor comprising a plurality of block sections having interengaging portions and inter-connected loosely together to form a somewhat flexible but relatively incompressible mat, and means for sealing the member to the tops of the sections and uniting them into a comparatively rigid non-warping base.

2,352,519
TREATMENT OF ACID SETTING BATHS USED IN THE MANUFACTURE OF CELLULOSE PRODUCTS FROM VISCOSE
Joseph L. Costa, Hinsdale, Ill., and William Harlow Kahler, Saylesville, R. I., assignors to Manville Jenckes Corporation, Manville, R. I., a corporation of Delaware
No Drawing. Application September 14, 1943, Serial No. 502,296
10 Claims. (Cl. 210—53)

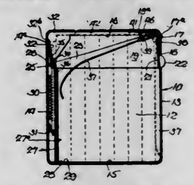
1. A method of clarifying fouled regenerating baths from the regeneration of hydrated cellulose from viscose, which baths contain sulfur deposited out of solution, which consists of subjecting the bath to flotation by passing an inert gas through the bath in the presence of a non-ionogenic surface active compound which comprises a hydrocarbon group of 5 to 18 carbon atoms connected to a polyether nucleus of hydrophilic character in a concentration optimum for the flotation of sulfur formed as a by product in the bath, and removing the froth which contains the bulk of the turbid impurities.

2,352,520
MANUFACTURE OF FOOTWEAR
Fred Dawson, West Roxbury, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application June 26, 1943, Serial No. 492,391
5 Claims. (Cl. 12—142)



1. The method in shoe manufacture which comprises placing a plastic shank piece upon the shank portion of the bottom of a shoe, placing a sole upon said bottom with cement therebetween, pressing said sole against said bottom and said shank piece, and subjecting the assembly to the influence of an electrostatic field for melting said shank piece and said cement.

2,352,521
CIGARETTE CASE
Leo J. Du Mais, Chicago, Ill.
Application July 28, 1941, Serial No. 404,355
4 Claims. (Cl. 206—41.2)

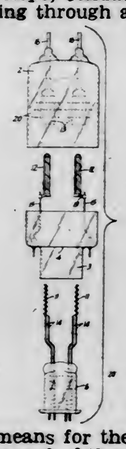


1. A cigarette case comprising, an open end container through which cigarettes may be positioned in the container, a pivoted spring-urged cover partially closing the open end of said container and providing a reduced opening therein, means on said cover and container coacting to releasably lock the cover in closed position against its spring, a member having cigarette engaging means thereon, cap means pivoted on said member serving with said cover to close the container, manually manipulative means operatively connected with the said member for effecting movement thereof with the cap means to project cigarettes through said reduced opening whereby they may be individually removed, and a spring normally restoring the said member and cap means with the manipulative means.

2,352,522
ELECTRICAL DISCHARGE DEVICE AND METHOD OF MAKING THE SAME
William W. Eitel and Jack A. McCullough, San Bruno, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application February 14, 1941, Serial No. 378,900
9 Claims. (Cl. 250—27.5)

1. In an electrical discharge device, an envelope, a plurality of cathodes and grids and anodes in the envelope, said envelope having an an-

nular shoulder providing a ledge intermediate the ends of the envelope, conductor means for the cathodes extending through an end of the enve-



lope, conductor means for the anodes extending through the other end of the envelope, and conductor means for the grids extending through said ledge.

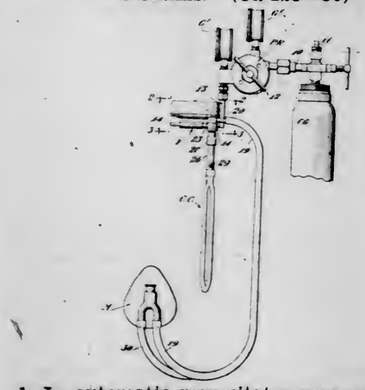
2,352,523

APPARATUS AND METHOD FOR ARTIFICIALLY INDUCING BREATHING

John H. Emerson, Cambridge, Mass.

Application August 13, 1941, Serial No. 406,593

8 Claims. (Cl. 128—30)



1. In automatic resuscitator apparatus of the class described wherein a jet of gas supplied from a source at substantially constant super-atmospheric pressure constitutes power means for alternately inflating and deflating the lungs and including automatic valves and passages so designed and arranged that a portion of the gas from the jet enters the lungs at each inflation, a reservoir of variable capacity operative to receive gas directly from the jet during lung deflation and to hold it for delivery to the lungs during succeeding inflations.

2. In combination in automatic resuscitator apparatus of the class described wherein an aspirator device receives gas at substantially constant super-atmospheric pressure from a source of supply and constitutes power means for alternately inflating and deflating the lungs, a valve device including an upper and a lower inlet chamber and an intermediate delivery chamber and also an upper and lower delivery chamber and an intermediate receiving chamber, two pairs of valves, said pairs of valves being so relatively arranged and connected that when the valves of one pair shut off the lower inlet chamber from and open the upper inlet chamber to the intermediate delivery chamber the valves of the other pair shut off the upper delivery chamber from and open the lower delivery chamber to the intermediate receiving chamber and vice versa, a motor device, responsive to lung pressure, operative automatically to shift said pairs of valves, said motor device comprising a part which is always exposed to and which moves in response to variations in the pressure subsisting in the upper inlet chamber and in the upper delivery chamber of the valve device, the aspirator device comprising a casing into which is delivered a jet of gas from the source of supply, said aspirator casing having an exit throat communicating with the intermediate receiving chamber of the valve device, a conduit leading from the intermediate delivery chamber of the valve device to the casing of the aspirator and into the latter at such a point that the gaseous jet creates a suction effect tending to withdraw gas from the intermediate delivery chamber of the valve device, an expansible reservoir, conduit means connecting said reservoir with the lower inlet chamber and with the lower delivery chamber of the valve device, means providing an exit passage of small capacity leading from said conduit means to the atmosphere, a mask, and conduits connecting the mask with the upper inlet and delivery chambers respectively of the valve device.

2,352,524

DEPILATORY

Ralph L. Evans, Bay Shore, and Everett G. McDonough, Yonkers, N. Y., assignors to Sales affiliates, Inc., New York, N. Y., a corporation of New York

No Drawing. Application June 20, 1938, Serial No. 214,742

17 Claims. (Cl. 167—89)

4. A depilatory for use in removing human hair from the body, comprising a preparation containing a substantial amount of a non-depilating vehicle carrying a mercapto-carboxylic acid, and an excess of an alkaline reacting material, said preparation being adapted to be spread upon the human skin and around the hair, the amount of said mercapto-carboxylic acid being sufficient to render the hair removable after contact therewith within a short time and without irritation to the skin, and the alkaline reacting material being present in an amount sufficient to give the preparation a pH value not greater than about 12.5.

2,352,525

CHLORINATION OF POLYMERIC MATERIALS

William John Roy Evans, Blackley, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 27, 1941, Serial No. 400,099. In Great Britain July 1, 1940

5 Claims. (Cl. 260—88)

1. Process for the manufacture of chlorinated polyvinyl chloride which comprises reacting chlorine with a suspension of polyvinyl chloride in a mixture of from 0.5 to 1.25 parts by weight of carbon tetrachloride and one part by weight of tetrachloroethane in which the proportion of the polymer to the mixture of organic liquids lies in the range of 1 part by weight of the polyvinyl chloride to 14 to 17 parts by weight of the mixed liquids so as to produce a chlorinated product soluble in ethyl acetate, butyl acetate and xylene.

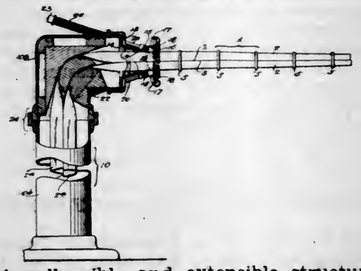
2,352,526

COLLAPSIBLE STRUCTURE

Hiram A. Farrand, Berlin, N. H.

Original application March 16, 1939, Serial No. 262,324. Divided and this application October 23, 1941, Serial No. 416,255

4 Claims. (Cl. 189—37)



1. A collapsible and extensible structure including a housing structure, a longitudinally-tapering composite structure comprising a plurality of longitudinally-tapering resilient strips normally of non-planar cross-section arranged in laterally-adjacent relation about the longitudinal axis of the structure and collectively forming the main body of the structure with a uniform cross-sectional contour of constantly changing dimensions along the length of said body, each strip being imperforate and smooth edged throughout that portion thereof which is adapted to constitute a component of the main body of the structure, a series of separate disconnected bands embracing said body at spaced intervals along its length, said bands being respectively provided with central openings of similar contours differently dimensioned in accordance with the variations in the cross-sectional dimensions of said body at the places respectively embraced by said bands individually the progressively increasing cross-sectional area of the tapering main body as formed by said strips producing a wedging of said body within each of said separate bands successively and rigidly securing said strips together at each of said embracing intervals for rigidifying said structure, and means for jamming said bands into rigidly-embracing contact consecutively with said strips as said strips are progressively projected concurrently from said housing structure.

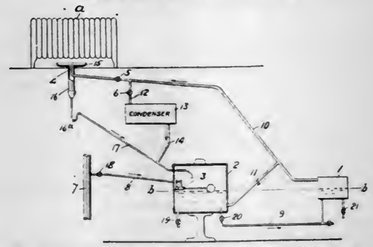
2,352,527

HOME HUMIDIFYING SYSTEM

Arthur B. Favor, Llanerch, Pa.

Application August 27, 1941, Serial No. 408,446

2 Claims. (Cl. 237—1)



1. A house space humidifier for use with a house space heating system including a heater with a fire box which generates heat for heating the house space, comprising a boiler arranged in the fire box and heated in consonance with the heat generated for house space heating, a tank and a float valve and coordinated feed pipe of relatively restricted capacity and directly connected to the boiler and supplying a modicum of water to the boiler and causing it to operate as a flash boiler in a noiseless manner, a steam outlet pipe leading directly from the boiler to and discharging into the house space, a condenser tank, a bleeder pipe from the steam pipe to the condenser, regulating valves connected with the last mentioned pipes for adjusting the steam output from the boiler to the moisture requirements of the house and for directing steam in excess of those requirements to the condenser tank, and drain connections for the condenser tank.

2,352,528

ANTIHEMORRHAGIC COMPOUND

Louis F. Fieser, Belmont, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application July 1, 1939, Serial No. 282,427

9 Claims. (Cl. 260—396)

1. 2-allyl-1,4-naphthoquinone.

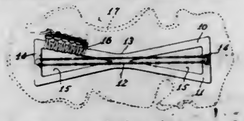
2,352,529

ORNAMENT

Pearl Frankel, Long Beach, N. Y.

Application June 19, 1943, Serial No. 491,485

5 Claims. (Cl. 132—48)



1. A clasp ornament having a clasp body, a foundation crocheted about the body to cover the body and provide a series of loops tucked together about the body, and crochet work carried by the foundation and crocheted thereto to form a continuous sheet of fabric the number of stitches being increased in succeeding circuits about the foundation so that the fabric becomes ruffled.

2,352,530

REFRACTORY ZIRCONIA CASTING

Gordon S. Fulcher, Chevy Chase, Md., and Theodore E. Field, Louisville, Ky., assignors to Corhart Refractories Company, Louisville, Ky., a corporation of Delaware

No Drawing. Application October 11, 1939, Serial No. 299,036

7 Claims. (Cl. 106—57)

1. A heat cast refractory for contact with molten glass consisting essentially of zirconia and at least one of the alkalies Li_2O, Na_2O and K_2O in which the total alkali is less than 15% by weight by chemical analysis, and substantially free from alumina.

2,352,531

DRAPERY

Conrad Gallo, Brooklyn, N. Y.

Application August 24, 1943, Serial No. 499,761

3 Claims. (Cl. 160—330)



1. A drape, comprising a flexible sheet having a central section and end sections, said central sec-

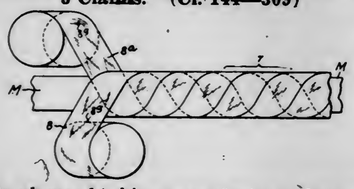
tion having a hump-like top edge, and flexible tubing for a curtain rod mounted along the top edge of said flexible sheet, said end sections having hump-like edges.

2,352,532
ARTICULATED SOLE OF WOOD OR OTHER STIFF MATERIALS
Henry Ghez and Oscar Ghez, New York, N. Y.
Application April 11, 1942, Serial No. 438,599
In France October 1, 1941
3 Claims. (Cl. 36—33)



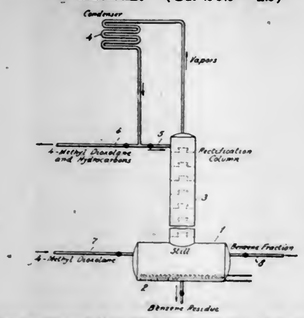
1. An articulated shoe sole including a plurality of sole members of wood or other rigid material, and a plurality of hinge blocks secured to and connecting the adjacent pairs of sole members into a coherent series, each hinge block being a unitary member of resilient material of the class consisting of rubber and resilient plastic material having the upper portions thereof forming a single flat unbroken surface, and each hinge block having a reduced portion between the ends thereof by being grooved upwardly a distance exclusively in and from the lower surface thereof.

2,352,533
MANUFACTURE OF WOOD TUBING AND THE LIKE
Paul R. Goldman, Andover, Mass., assignor to Plymold Corporation, Lawrence, Mass., a body corporate
Application November 28, 1942, Serial No. 467,243
3 Claims. (Cl. 144—309)



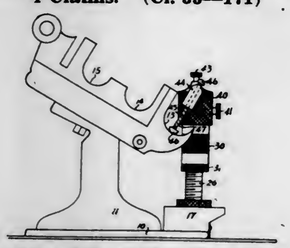
1. In plywood tubing manufacture, that process which comprises in combination the following operational phases and steps: preparing and furnishing in supply form to be drawn upon a plurality of tape-like wood-veneer strips of indefinitely continuous length arranged to present the wood graining predominantly lengthwise in the strips, forming a core structure by spirally winding about a removable mandrel a plurality of such supply strips respectively in edge-abutted relation in succeeding advancing spiral turns and concentrically superposing one strip upon another in alternated direction of spiral wind in succeeding layers, coating and impregnating each spiralled strip layer with a synthetic resinous heat-and-pressure polymerizable bonding agent, uniformly subjecting the resulting plural spiral-layer element to heat and pressure maintained pending hard-setting polymerization of the bonding agent, thereby and as a first operational phase providing a plural-layer core having the directions both of wind and of graining alternated spirally therein; thereafter laying and wrapping longitudinally straightwise upon such core one or more concentric layers of wood-veneer sheeting formed and arranged to present its graining predominantly lengthwise of the core axis, similarly coating and impregnating and bonding said sheeting and heat and pressure treating it as for the core, thereby and as a second operational phase to provide in combination with the core a composite tubing body of substantial rigidity and strength both radially and axially; and thereafter and as a third operational phase utilizing such body as a work unit and spirally winding a further plurality of the tape-like wood-veneer strips thereon in alternately opposite directions and similarly coating and impregnating except for the external surface of the final spiral layer and heat-and-pressure bonding such further alternated spiral layers as in the core and tubing body forming steps, to present a complete tubing product.

2,352,534
AZEOTROPIC DISTILLATION OF BENZENE FRACTIONS
Richard B. Greenburg, Cheltenham Township, Montgomery County, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application May 28, 1943, Serial No. 488,809
3 Claims. (Cl. 202—42)



1. The process for the recovery of benzene from a benzene fraction containing the same and like-boiling, non-aromatic hydrocarbons which comprises distilling said benzene fraction and rectifying the distilled vapors in the presence of 4-methyl dioxolane in amount which selectively carries over as distillate said like-boiling, non-aromatic hydrocarbons and leaves a hydrocarbon residue of the distillation enriched in benzene.

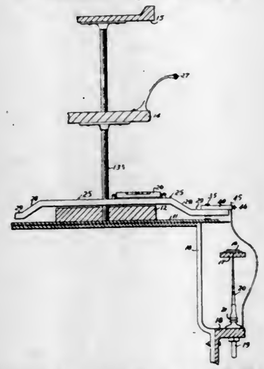
2,352,535
ROLL STAND BEARING GAUGE
Albert M. Guillet, Charlotte, N. C.
Application December 11, 1943, Serial No. 513,904
4 Claims. (Cl. 33—171)



3. In a gauge for gauging the positions of the lower surface of a bearing in a roll stand relative to the roll stand beam, comprising a base member having a longitudinally slidable member in its lower surface provided with a downturned lip at one end adapted to engage one edge of the roll stand beam on which the roll stand

rests, the upper surface of said base member having a groove therein, an uprising member slidably mounted in said groove, means for confining the uprising member in adjusted position in the groove on the upper surface of the base member, a vertically adjustable member on the uprising member having a central projection on its upper end adapted to serve as a gauge relative to a line passing through the bearings of a plurality of separated roll stand members.

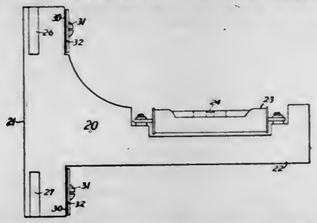
2,352,536
SPINDLE RAIL GAUGE
Albert M. Guillet, Charlotte, N. C.
Application December 11, 1943, Serial No. 513,905
2 Claims. (Cl. 33—169)



1. Apparatus for gauging the distance between the spindle rail and the roll stand beam in spinning and twisting frames comprising a spirit level frame having a slot at each end thereof, and having a base member disposed below each of the slots and a threaded bolt penetrating the slot and engaging the base member to secure the base member to the level frame, the base members being adapted to rest on the roll stand beams of the spinning or twisting frame, an extension arm having a plurality of holes therethrough adapted to be penetrated by said bolt for securing the extension arm over one of said slots, said extension arm having a projection extending downwardly therefrom into said slot and providing a sliding fit between the projection and the side walls of said slot, the outer end of the extension arm having a vertically adjustable rod secured therein, the lower end of the rod being adapted to engage the spindle rail, whereby when the spirit level frame, together with the extension arm and the downwardly depending rod are placed at different positions along the spinning or twisting frame, the distance between the spindle rail and the roll stand beam of the machine can be determined.

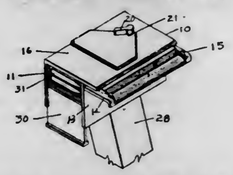
2,352,537
LEVEL FOR ROVING FRAMES
Albert M. Guillet, Charlotte, N. C.
Application December 11, 1943, Serial No. 513,906
2 Claims. (Cl. 33—207)

1. In a level adapted to be used in leveling roving frames and the like by detachably securing the same to ribs and grooves in the framework of said machine, a vertically disposed portion and a horizontally extending portion projecting at right angles to the vertically disposed portion, a spirit level mounted on the horizontally extending portion, the vertically disposed portion having laterally projecting portions on each side thereof at its upper and lower ends, and also having a removable leaf spring detachably secured at its upper and lower ends on the side remote from the point where the projections are positioned, each leaf spring having a washer associated therewith so that the washer and spring can be placed in one position so that the projections and the springs will fit into a groove and



hold the level in position for leveling the machine with relation to the vertically disposed grooves and said washer and leaf spring being reversible as to position relative to the vertically disposed portions, so as to space the springs farther away from the projections to permit one end of the spring and projection to fit over a vertically disposed rib associated with the framework of the machine.

2,352,538
MAGAZINE RAZOR BLADE HOLDER
Joseph Albert Guimond, Montreal, Quebec, Canada, assignor to Marie Florida Gisele Yvette Giguere (nee Guimond), Noranda, Quebec, Canada
Application October 25, 1943, Serial No. 507,637
2 Claims. (Cl. 30—40)



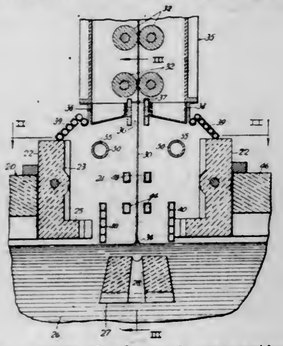
1. A magazine razor blade holder comprising a head having an open end, a blade container formed in said head and in alignment with the open end thereof, a closure for the open end of said head, a blade support forming a part of said head, a grip member mounted on the top wall of said head, a lever pivotly secured to said grip member through the top wall of said head, and a block connected to said lever and adapted to form the abutting means for engagement with the blades when in the head.

2,352,539
METHOD OF AND APPARATUS FOR DRAWING SHEET GLASS
Howard L. Halbach, Clarksburg, W. Va., George Donald Campbell, Tarentum, Pa., and Walter G. Koupal, Clarksburg, W. Va., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application December 1, 1939, Serial No. 307,086
15 Claims. (Cl. 49—17)

1. In the production of sheet glass in a drawing chamber in which drawn glass is adapted to become set in a setting area, the method which comprises drawing a sheet of glass upwardly from a molten glass bath through the chamber, and introducing a gaseous medium into said chamber in such position and at such pressure as to coun-

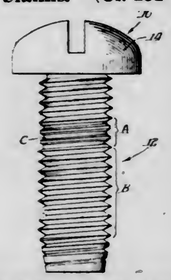
teract substantially to the point of equalization the upward movement of gases resulting from natural draft and convection currents adjacent the sheet of glass until the latter becomes set.

9. In a glass drawing apparatus, a drawing chamber having an upwardly opening glass-receiving passage therein and having mechanism for drawing a glass sheet upwardly in the chamber through said passage along a predetermined plane of drawing, said chamber having a molten glass bath therein from which the glass sheet is drawn



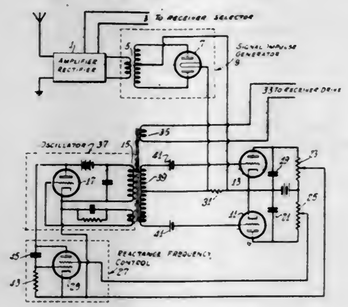
and from which draft and convection currents naturally tend to flow upwardly along the plane of drawing, said chamber having a volume of gaseous medium flowing in the upper portion thereof adjacent said passage and directed in counteracting relation to the upward flow of draft and convection currents from the molten bath to create a quiescent chamber atmosphere along the sides of the plane of drawing, and means for controlling the flow of said gaseous medium.

2,352,540
SELF-LOCKING SCREW
Walter M. Hanneman, Oak Park, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application January 12, 1942, Serial No. 426,397
5 Claims. (Cl. 151—32)



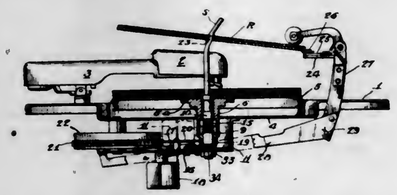
5. A self-locking screw device including a threaded shank, said threaded shank presenting a locking section and a threaded leading section in advance thereof, the thread convolutions on said leading section being of normal root diameter and conforming with conventional machine screw standards, the thread on said locking section having the same axial pitch as the thread on the leading section and having an outer diameter which is less than the outer diameter of the thread on said leading section and a root diameter which is sufficiently greater than the root diameter of the thread on said leading section to impinge the complementary crown portion of the thread in a work piece.

2,352,541
ELECTRONIC SYNCHRONIZATION SYSTEM
Ernest E. Harper, Chicago, Ill., assignor to Radio Corporation of America, a corporation of Delaware
Application April 20, 1942, Serial No. 439,620
6 Claims. (Cl. 178—69.5)



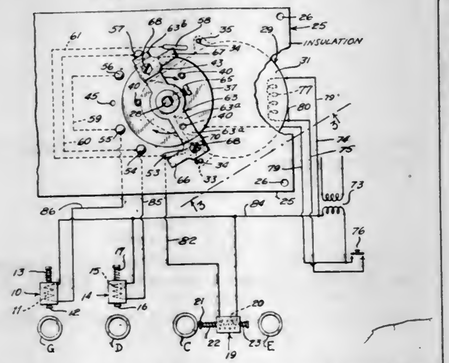
1. A synchronizing system for telegraph apparatus comprising an oscillator for controlling the speed at which said apparatus is driven, a reactance frequency control device in circuit with said oscillator, a pair of discharge tubes having input circuits which are differentially coupled to the output side of said oscillator, a bias resistor common to said input circuits, means operative in the presence of unbalanced outputs from said tubes for causing said reactance device to vary the frequency of said oscillator, and means responsive to mark-space transitions, also space-mark transitions, by which the incoming signals are characterized, for producing transient pulses through said resistor, departures of said pulses from a normal phase relation to the output wave from said oscillator being effective to unbalance the outputs from said tubes.

2,352,542
AUTOMATIC PHONOGRAPH
John J. Heins, Jr., Abington, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 24, 1941, Serial No. 420,304
9 Claims. (Cl. 274—10)



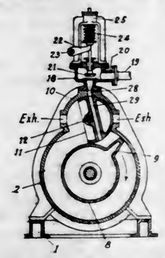
1. In an automatic phonograph of the type having a rotatable hub, means for supporting a stack of records above a turntable and mechanism for successively dropping said records into playing position, a central record-supporting spindle extending upward through the hub of the turntable, and means arranged below the surface of said turntable for supporting said spindle against rotative and axial movements, and for positioning said spindle in spaced relation to said hub, thereby isolating the record-supporting means from shocks arising in the turntable and its supporting structure.

2,352,543
SIGNAL CONTROL APPARATUS
John William Holzmann, New York, N. Y., assignor to Edwards and Company, Inc., Norwalk, Conn., a corporation of New York
Application April 24, 1941, Serial No. 390,057
1 Claim. (Cl. 200—11)



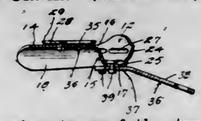
A control apparatus for making and breaking electrical circuits, in desired sequence and in desired time intervals, comprising a plate of insulating material having a plurality of spaced apertures arranged in an arc, a plurality of contact elements comprising at least one element having a shank for reception into an aperture and having a head exposed at one face of said plate and at least one other element that has two spaced shanks joined by an elongated part, said two shanks being received in two of said apertures for thereby exposing said part at said face of said plate and for thereby aligning said elongated part along said arc, said shanks having means for electrically connecting thereto the conductors of circuit connections to said contact elements, an arm having means mounting it for rotation in a plate spaced from said face of said plate and about the axis of said arc, said arm having a U-shaped sheet metal contactor with means securing one arm of said contactor to said rotary arm and for thereby holding the other arm of said contactor in position to successively engage the head and elongated part of said contact elements, and means for giving said rotary arm rotary movement about said axis.

2,352,544
ROTARY STEAM ENGINE
Anatol David Iskols, Bronx, N. Y.
Application August 14, 1941, Serial No. 406,827
6 Claims. (Cl. 121—78)



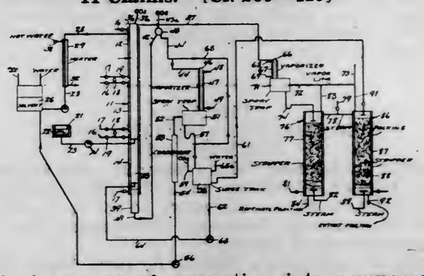
6. A steam engine of the rotary piston type, comprising a cylinder, a piston rotatably mounted therein, means to provide a seal between the rotating piston and the inner surface of the cylinder, a valve chamber on said cylinder communicating therewith, a valve mounted for movement within the valve chamber, cam means connected for rotation with the piston and disposed externally of the cylinder, spring means to move said valve, a member engaging the cam and adapted to be moved thereby and mechanism interconnecting the valve with the cam engaging member, said mechanism being adapted in one position thereof to connect the valve and cam engaging member for concurrent movement and in another position thereof to permit movement of the valve without movement of the cam engaging means.

2,352,545
IMPRESSION TRAY
Samuel Lionel Jefferies, Gaffney, S. C.
Application June 25, 1941, Serial No. 399,717
1 Claim. (Cl. 32—17)



In an impression tray of the type including a substantially semi-ovoidal-shaped receptacle-like body and including a base wall, said wall having the rear part of its central portion relatively flat and disposed above the remaining portion thereof; a coupling plate comprising a shallow cup-shaped outwardly opening member, said member including a relatively flat bottom and an upstanding marginal flange, said bottom contacting the central flat portion of said tray and said flange on the outer side thereof forming with the surface of said central flat portion a substantially V-shaped shank within which the impression material is adapted to engage, securing means passing through said plate and through said rear part of the central portion of said base wall, and means other than said securing means and spaced from the latter for positioning said plate on said body comprising a detent on said plate and a socket in said body, said detent being receivable in said socket.

2,352,546
SOLVENT EXTRACTION OF OILS AND ACIDS
John D. Jenkins, Forest Hills, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application May 13, 1940, Serial No. 335,006
11 Claims. (Cl. 260—419)



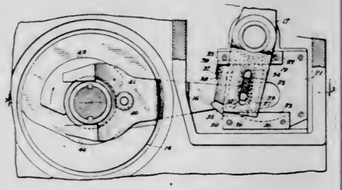
1. A process of separating into components a mixture selected from a class consisting of a mixture of a plurality of glycerides and a mixture consisting of a plurality of fatty acids derived from said glycerides, said mixture including a component which is relatively difficultly soluble and a component which is rela-

tively more soluble in a furane compound, which process comprises providing a mixture of a furane compound and the material under a blanket of inert gas and then separating the mixture, into liquid phases, one comprising the furane compound saturated with the more soluble component and the other comprising the less soluble component saturated with the furane compound.

2,352,547
REFINING OF TALL OIL
John D. Jenkins, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application December 19, 1941, Serial No. 423,626
1 Claim. (Cl. 260—97.5)

A process of separating resin acids from tall oil, which process comprises dissolving the oil in a polar solvent selected from the group consisting of mono methyl ether of ethylene glycol, and diacetone alcohol, the solvent containing a substantial amount of water, crystallizing out the resin acids from the solution and separating them from the liquid residue.

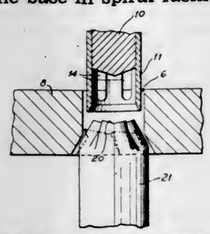
2,352,548
CROSS-SLIDE MECHANISM
Arthur H. Jobert and Jerome J. Taravella, New Britain, Conn., assignors to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application November 26, 1940, Serial No. 367,168
10 Claims. (Cl. 74—96)



1. A rocking member for transmitting motion from a driving member to a driven member, pivot means for said rocking member, substantially straight line guide means for said rocking member, driving means for said rocking member for bodily traversing said pivot means with said rocking member along said guide means and for rocking said rocking member about said pivot means, and means for pivotally connecting a driven member to said rocking member, for the purpose described.

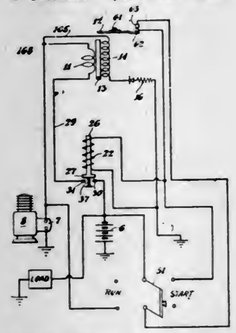
2,352,549
END CLOSURE FOR EXPLOSIVE CARTRIDGES
Charles R. Johnson, Glenn Mills, Pa., and William S. Pilcher, Woodbury, and Charles B. Stanley, Paulsboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Original application March 9, 1939, Serial No. 260,694. Divided and this application January 2, 1941, Serial No. 372,742
4 Claims. (Cl. 86—39)

3. In an apparatus for enclosing an explosive charge within a flexible wrapper, a folding member having an inner surface substantially the shape of a truncated cone provided with a predetermined number of grooves extending upward from the base in spiral fashion to form in-



terlocking folds in said wrapper upon being compressed thereon.

2,352,550
POWER PLANT
Francis M. Joseph, Cliffside Park, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application January 22, 1943, Serial No. 473,240
1 Claim. (Cl. 290—31)

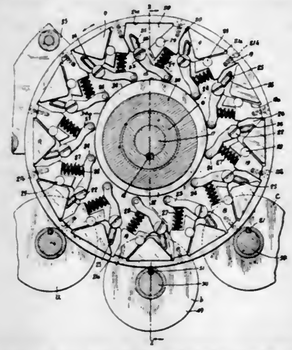


In combination with an engine, a dynamo-electric machine mounted thereon, a storage battery and a hand switch controlling the flow of energy between the battery and dynamo-electric machine, a reverse current relay including a winding in series relation to said battery and machine, and means responsive to movement of said hand switch to the "start" position to cause current to flow from said storage battery to said dynamo-electric machine, by way of said relay winding, to rotate said dynamo-electric machine and thereby cause initial rotation of the engine, and means responsive to movement of said hand switch to the "run" position to cause current generated in said dynamo-electric machine to be delivered to said storage battery, to re-charge said battery, said last-named means including contacts that are closed by the magnetic action resulting from reversal of the direction of current flow in said relay winding, which reversal in turn occurs when the engine driven dynamo-electric machine develops voltage in excess of battery voltage.

2,352,551
METHOD OF FORMING OPTICAL PRISMS
George Kende, Dobbs Ferry, and Eli Elison and Sten Johanson, New York, N. Y., assignors to Universal Camera Corporation, New York, N. Y., a corporation of New York
Application March 2, 1942, Serial No. 432,944
12 Claims. (Cl. 51—118)

6. A method of processing a molded glass triangular prism in its conversion into an optical

prism in a series of co-related automatically performed operations, which consists in simultaneously subjecting both sides of the prism to progressive reduction in the desired amount in a single continuing operation, then reducing one end of the prism and subjecting it to contour shaping in successive stages, in which opposite and connecting surfaces are simultaneously and progressively reduced to obtain the final end

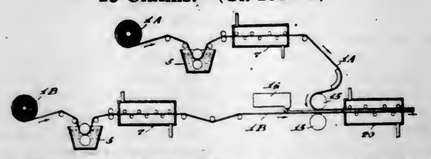


contour, in a second continuing operation, similarly reducing and profiling the other end of the prism in a corresponding second step of the end grinding operation and then successively bevelling the corners of the prism apex, reducing the apex to form the optical prism roof and reducing the bevelled corner-forming surfaces to attain the ultimate roof profile in the final continuing operation of the series.

2,352,552
CONDENSATION PRODUCTS OF UREA AND AMINES
Jean André Paul Kienzlé, Nogent sur Oise, France; vested in the Alien Property Custodian
No Drawing. Application June 4, 1940, Serial No. 338,782. In France July 8, 1939
11 Claims. (Cl. 260—2)

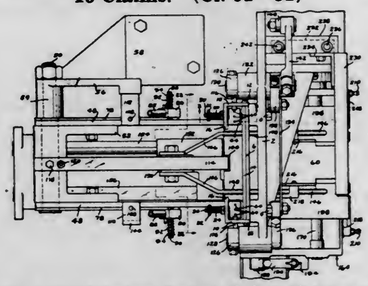
1. A process for obtaining nitrogen compounds which comprises heating to cause urea to react upon an amine containing at least one alcoholic OH-group and converting the nitrogen of the starting amine at least partially into quaternary ammonium, by means of a member of the group consisting of the alkyl and aralkyl esters of inorganic acids.

2,352,553
METHOD OF MAKING COMPOSITE BOARDS
Victor Lefebure, London, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application March 30, 1938, Serial No. 199,004
In Great Britain April 2, 1938
13 Claims. (Cl. 154—2)



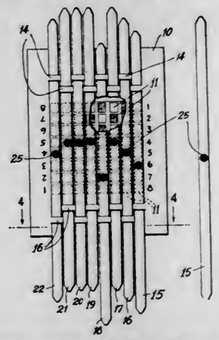
1. A method of manufacturing composite board such as plasterboard which comprises continuously forming the board by contacting a layer of unset water-setting cementitious material with substantially dry liners of fibrous material of sufficient strength to withstand the tension applied in forming the board on a continuous plasterboard machine and allowing said layer of cementitious material to set while in contact on both sides with said liners, at least one of which liners has been impregnated with an aqueous resin syrup containing an acid catalyst and belonging to the class consisting of urea-formaldehyde and thiourea-formaldehyde resin syrups, and subjecting the formed board to drying by passage through a drier having an inlet temperature of about 150° C. and an outlet temperature of about 65° C. for a period of the order of 1½–2 hours to dry the formed board and cure the resin.

2,352,554
STAMP FEEDING AND GLUING MECHANISM
Clarence J. Malhiot, Oak Park, Ill., assignor to F. B. Redington Co, Chicago, Ill., a corporation of Illinois
Application June 2, 1939, Serial No. 276,986
15 Claims. (Cl. 91—51)



1. In a mechanism for applying stamps or similar labels to articles, an adhesive applying roll, means for driving said roll, means for feeding stamps to said roll into engagement with the peripheral surface thereof, and mechanism including means engageable with the stamp edges for positively feeding the stamps in an arcuate path while in engagement with the roll and at the peripheral speed of the roll.

2,352,555
PUZZLE GAME
Rudi W. Mandl, New York, N. Y.
Application February 9, 1943, Serial No. 475,247
10 Claims. (Cl. 273—155)



1. In a puzzle game of the class described, the combination of a main body member, a checkered area on said body member comprising horizontal and vertical rows of squares, a longitudinal strip for each vertical row of squares, each strip having a spot or mark thereon disposed between

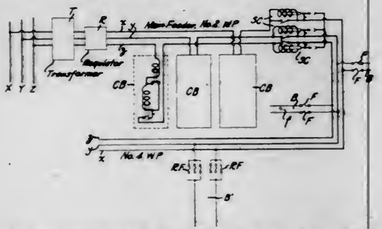
the ends thereof, and means for mounting said strips on said body member for axial movement so that the said spots may be selectively positioned in said squares in an arrangement which constitutes a solution to the puzzle.

2,352,556

APPARATUS FOR PROTECTING POWER LINES

George A. Matthews, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York

Application May 7, 1940, Serial No. 333,875
18 Claims. (Cl. 175—294)



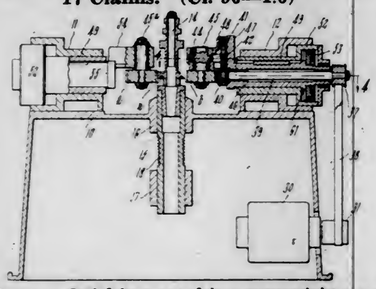
1. In an electrical distribution system, the combination with a current source, conductors extending from said current source to form a distribution circuit, circuit-interrupting means responsive to a fault on said circuit to open the same after a time delay during which arcing conduction resulting from a fault will damage said conductors, of means to protect said conductors against damage from transient faults; said protecting means comprising a shorting circuit including a normally open switch across said conductors, means responsive to a fault current to close said switch prior to the opening of the distribution circuit by said circuit-interrupting means, thereby to close the shorting circuit and remove the voltage from the fault point, and means to open said shorting circuit within a predetermined interval after the closing of said switch, whereby said circuit-interrupting means may function to open the distribution circuit in the event of a permanent fault.

2,352,557

GEAR FINISHING APPARATUS

Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application September 12, 1939, Serial No. 294,463
17 Claims. (Cl. 90—1.6)



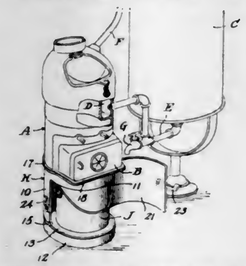
1. A gear finishing machine comprising a supporting structure having a stationary bearing, a work spindle rotatably mounted in said bearing, a series of gear-like tools arranged around the axis of said work spindle to mesh simultaneously with a gear mounted on the spindle at different sides thereof, and means for supporting said tools with provision for adjustment bodily toward and away from the work spindle and also angularly about axes substantially radial thereto.

2,352,558

SUPPLEMENTAL BASE FOR HOT-WATER HEATERS

John Minar, Maspeth, N. Y.

Application January 30, 1943, Serial No. 474,090
3 Claims. (Cl. 126—242)



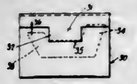
1. In a supplemental base for hot water heaters of the character set forth, a body including a fixed hollow semi-cylindrical medial portion and upper and lower hollow cylindrical portions contiguous with the upper and lower ends of the medial portion, a horizontal platform secured within and flush with the upper edge of the lower cylindrical portion of the body to provide a supporting surface for an ash receptacle adapted to be emplaced within the medial body portion and removed therefrom between the upper and lower body portions, a mating hollow semi-cylindrical medial body section displaceably associated with the fixed medial body portion and adapted when disposed in mated relation therewith to provide a closed housing for the ash receptacle, and an annular bearing frame mounted upon the upper edge of the upper body portion to support thereupon the water heater, said bearing frame having a depending funnel-shaped flange at its inner edge constituting a chute for directing the ashes and residue of the heater into the receptacle housed in the base.

2,352,559

CLOSURE OR SEALING MEANS FOR PAPER OR CARDBOARD RECEPTACLES

William Marcus, New York, and Albert Baum, Brooklyn, N. Y.

Application April 29, 1942, Serial No. 440,906
2 Claims. (Cl. 229—84)



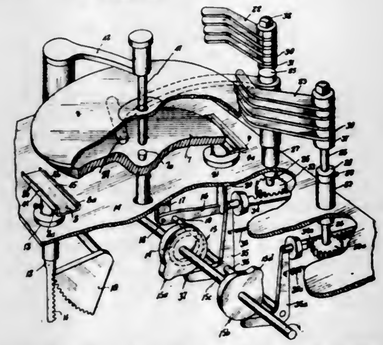
1. In a paper receptacle or the like having sealing means forming part of a blank from which said receptacle is manufactured; a flap forming part of said blank to close the receptacle, a tongue member extending from said flap and adapted for engagement with a slot provided in said blank and being of a width substantially corresponding to the length of said slot, lateral extensions of different lengths projecting from said tongue member, and notches positioned, respectively, between said extensions and said tongue member proper, said tongue member being adapted to engage said slot upon introducing the longer of said extensions first into said slot whereby said tongue member may be manipulated so that the shorter extension enters said slot thereafter and the tongue member is then fixed in position in said slot and extends therewithout to finally seal said closed receptacle.

2,352,560

RECORD DISCHARGE MECHANISM

Francis John Offen, Swindon, England, assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England, a corporation of Great Britain

Application August 4, 1942, Serial No. 453,593
9 Claims. (Cl. 274—10)



1. Mechanism for supporting and delivering disc records of different diameters in succession to the turntable of a phonograph comprising two sets of vanes oscillatably mounted outward of the periphery of the turntable for engaging the records in alternation, the vanes of each set being vertically spaced for extending beneath and supporting a plurality of records at their margins, a vertically movable support located outwardly of the periphery of the turntable opposite said sets of vanes and having horizontal and inclined surfaces for supporting at the margin of the lowermost record all the records supported by one or the other of the sets of vanes at a horizontal or inclined plane, means for alternately oscillating said two sets of vanes into and out of record-supporting position to transfer the support of the records from one set of vanes and the horizontal surface of the vertically movable support to the other set of vanes and the inclined surface of the vertically movable support, whereby the lowermost record is tilted below the level of the lowermost vane of the first set of vanes.

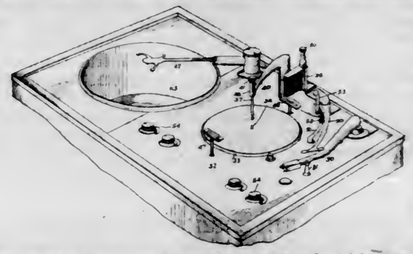
2,352,561

KNOCKOFF MECHANISM FOR PHONOGRAPHS

Francis John Offen, Swindon, England, assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England, a corporation of Great Britain

Application August 27, 1942, Serial No. 456,440
7 Claims. (Cl. 274—10)

1. The combination with an automatic motor-driven phonograph having a turntable, means for stacking a plurality of records above the turntable and successively releasing the records to the turntable for reproduction, a motor for driving the turntable and switch mechanism for controlling the operation of said motor; of mechanism for actuating the switch mechanism for automatically stopping the motor when the reproduction of the last record delivered to the turntable has been completed, said switch-actuating mechanism comprising a rotatable element, a cam operated independently of the motor, means engageable by said cam for interposing said element in the path of said cam, a member mounted adjacent the stacked records, means for actuating said member to normally abut the lowermost record of the stack, means for displacing said member laterally when the last record is released from the stack, means actuatable in the displacement of said member to operate said means for interposing said element in the path of said cam for operation thereby to effect the rotation of said element in one direction to locate said element in position for engagement with the switch mechanism, and means for rotating said element in the opposite direction operative at a predetermined point in the operation of said cam to engage the switch mechanism and actuate said mechanism to open position to stop said motor.

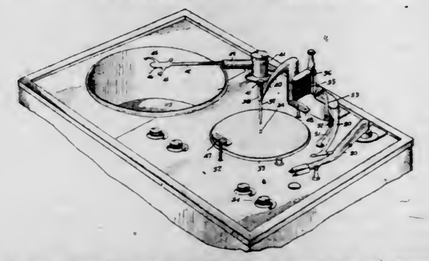


2,352,562

VANE STRUCTURE IN RECORD DISCHARGE MECHANISMS

Francis John Offen, Swindon, England, assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England, a corporation of Great Britain

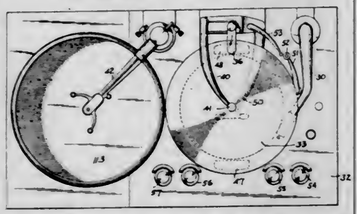
Original application May 7, 1941, Serial No. 392,200. Divided and this application August 27, 1942, Serial No. 456,441
6 Claims. (Cl. 274—10)



1. Mechanism for delivering a series of records arranged in a stack in succession to the turntable of a phonograph, comprising a vertically movable column, a plurality of record-engaging vanes mounted on said column for individual rotative movement thereon, independently of said column, each vane embodying an angularly disposed projection at its column-engaging end, means mounted on said column for maintaining said vanes in vertically spaced relation, a sleeve surrounding said column, said sleeve including a segmental extension embodying a sloping cam surface at its upper end and a ledge having an upstanding wall and a lateral projection forming a depressed continuation of said cam surface at its lowest point, the lateral projection of said ledge being normally disposed for engagement by the projection of the lowermost vane in record-engaging position to support all of said vanes, the upstanding wall of said ledge being

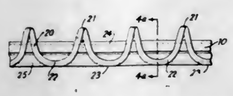
normally disposed for abutment by the projection of the lowermost vane in record-engaging position and means for oscillating said sleeve about said column, said means being operative upon movement in one direction to displace the lowermost vane engaged with said extension ledge out of record-engaging position and dispose the peak of said cam surface in supporting engagement with the projection of the next lowermost vane, said means upon movement in the opposite direction releasing the displaced vane from engagement with said extension ledge and permitting the lowering of all of the remaining vanes in record-engaging position, by gravity under the supporting guidance of said cam surface, for ultimate disposition of the projection of the succeeding lowermost vane in record-engagement with said ledge.

2,352,563
RECORD REVERSING MECHANISM
Francis John Offen, Swindon, England, assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England, a corporation of Great Britain
Application August 27, 1942, Serial No. 456,442
5 Claims. (Cl. 274—10)



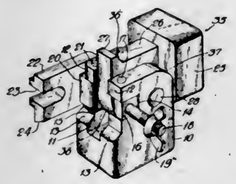
1. Mechanism for reversing a disc record, in the operation of a phonograph embodying a turntable and means for lifting a record from the turntable, to admit of the reproduction of the recordings on both surfaces of a record, said mechanism comprising a record carrying arm, a rotatably mounted support therefor, said arm being mounted on said support for rotative movement on its longitudinal axis relative to said support, mechanism for rotating said support to move said arm laterally in opposite directions, to alternately locate the free end of said arm above the turntable and in a second position remote from the turntable, record gripping means adjacent the outer end of said arm including a pair of levers pivotally mounted on said arm for opposite arcuate movement, each of said levers embodying a segmental protuberance at its outer end, said protuberances being adapted to enter the central aperture of a record for frictional engagement therewith to connect the record to said arm for movement therewith, lever-actuating means reciprocably mounted on said arm, means movable axially of said support operable when said arm is interposed between a lifted record and said turntable to become effective on said lever-actuating means to oppositely actuate said levers in a direction to expand said protuberances into frictional engagement with the record aperture to grip the record for the movement of said arm and the record superimposed thereon to the aforesaid second position, in response to the operation of said support rotating mechanism, means operative on said arm when it comes to rest in the latter position for rotating said arm on its longitudinal axis to invert said arm and said record engaged by said gripping means, whereby the record is dependently supported from said arm, said support rotating means sequentially operable to again move said arm to its position above the turntable and spring means effective for contracting said gripping means, for releasing the dependently supported record from said arm for redisposition on said turntable.

2,352,564
FASTENING STRIP
Louis M. Rabinowitz, Brooklyn, N. Y.
Application July 8, 1943, Serial No. 493,953
4 Claims. (Cl. 24—203)



3. A fastening device for garments or the like comprising a strip of fabric, a tape superimposed upon one face of said strip to form a plurality of spaced transverse branches extending through the entire width of the strip, in a plane adjacent said face thereof, and projecting laterally of one of the longitudinal edges of the strip, the tape being folded upon itself at the points of maximum projection of said transverse branches to form a plurality of loops laterally of the strip, any two adjacent transverse branches of said tape being in spaced relation to each other substantially throughout the width of the strip, and lines of stitching adjacent the longitudinal edges of the strip for securing the transverse branches of the tape to the face of the strip upon which they are superimposed and concurrently defining the base of the loops.

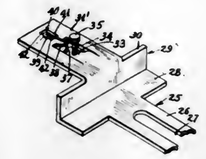
2,352,565
MOVABLE MAST SUPPORT
Edward H. Ranson, New Haven, Conn.
Application December 10, 1942, Serial No. 468,480
8 Claims. (Cl. 287—99)



1. A mast supporting device composed of a body formed with a pair of spaced cheeks having a beveled face adjacent to their lower ends, a mast head pivoted to the body and formed to support a mast and having a tongue formed to be received in the space between the cheeks and a lip adjacent to its lower end formed with a beveled face substantially corresponding to the said beveled faces on the cheeks, a latch movably mounted on the body and having a beveled face to engage the beveled face of the said lip and the beveled faces of the cheeks, and means to releasably hold the latch against movement.

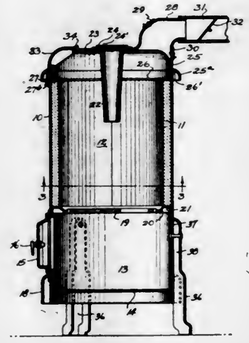
2,352,566
SPACING GAUGE FOR SEWING MACHINES
Hyman Rappaport, Bronx, N. Y.
Application October 19, 1942, Serial No. 462,462
3 Claims. (Cl. 112—153)

1. A spacing gauge for sewing machines, comprising a body having a stem portion with a slot for a clamp screw from the bed of a sewing machine, and an upwardly and outwardly overhanging head portion for engaging the edge and overhanging the edge portion of material being sewn on said sewing machine, said head portion comprising a vertical side wall and a horizontal top



wall, said side wall continuing from said stem portion and said top wall continuing from said side wall portion, and a prong stamped from said top wall, a clamp screw threadedly engaged through said prong, and means for limiting downward flexing of said prong.

2,352,567
STOVE
James Leonard Raulston, South Pittsburgh, Tenn.
Application March 30, 1943, Serial No. 481,125
3 Claims. (Cl. 126—58)



2. In a heating device or stove of the type specified, an outer shell extending for substantially the full height of the stove, a refractory lining disposed against the outer shell, said lining in conjunction with the adjacent portion of the outer shell defining a magazine chamber or fire box for the stove, a grate ring secured to said outer shell and constituting a bottom support for said refractory lining, a grate carried by said ring, a top assembly, an angular supporting ring for said top assembly resting on and substantially covering the top of said refractory lining and the top edge of said outer shell to thereby distribute the weight of the top assembly on said lining and shell, said ring having an upright wall formed with one or more draft openings and said top assembly including an annular member formed with a downwardly and outwardly projecting skirt overlying said draft openings, adjustable damper means controlling said openings, said top assembly also including a door for loading fuel into the magazine chamber and said top ring also functioning to protect the top portion of the refractory lining against chipping which might result from the fuel loading operation, and means for the admission of air into the stove below said grate for distribution to said fire box.

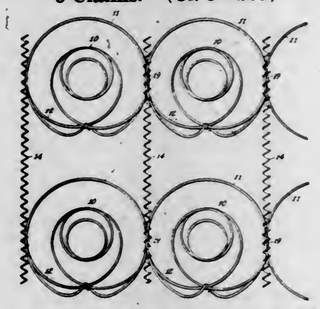
2,352,568
COMPOUNDS OF THE SATURATED AND UNSATURATED CYCLOPENTANOPOLYHYDROPHENANTHRENE-SERIES AND DERIVATIVES THEREOF, AND PROCESS OF PREPARING SAME
Tadeus Reichstein, Basel, and Hugo Frey, Olten, Switzerland, assignors to Ciba Pharmaceutical Products Incorporated, Summit, N. J., a corporation of New Jersey
No Drawing. Application May 27, 1941, Serial No. 395,484. In Switzerland July 31, 1940
11 Claims. (Cl. 260—397.4)

1. A process for the manufacture of hydroxyaldehydes of the saturated and unsaturated cyclopentanopolyhydrophenanthrene-series and the derivatives thereof, which comprises treating compounds of the said series, containing in 17-position a substituent of the formula

—CO—R

wherein R is a member of the group consisting of an acetalized and a mercaptalized aldehyde group, with a reducing agent capable of converting the keto group in 20-position in the side-chain into a carbinol group and selected from the group consisting of nascent hydrogen, catalytically generated hydrogen, and a metal alcoholate and alcohol, and transforming secondary nuclear carbinol groups present into keto groups.

2,352,569
SPRING ASSEMBLY
Murray J. Rymland, Baltimore, Md., and Eugene C. Lewis, New York, N. Y., assignors to Comfort Spring Corporation, Brooklyn, N. Y., a corporation of New York
Application March 6, 1942, Serial No. 433,546
3 Claims. (Cl. 5—269)

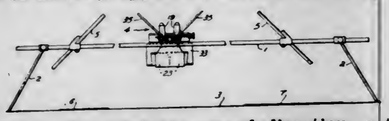


3. In a spring assembly, in combination, a plurality of rows of coil springs, the springs of each row being adjacent one another, the end coils of each coil spring having a pair of spaced indentations extending in a direction parallel to the spring axis, each end coil overlapping the corresponding end coil of the next adjacent spring and lying in said indentations, and helices extending from row to row and surrounding the overlapping portions of the end coils of the springs in each row, joining them together and to the springs in other rows.

2,352,570
OPTICAL BEAM DIRECTING DEVICE
Harold Emery Seely, Ottawa, Ontario, Canada
Application October 10, 1941, Serial No. 414,413
6 Claims. (Cl. 88—29)

1. In an optical instrument having image-producing means including a light-shielding enclosure and an objective carried thereby, image-in-

verting means externally of the enclosure comprising a mirror adapted to receive an optical beam extending in an upward direction from an object and to direct it laterally, a second mirror adapted to receive the beam from the first mirror and to direct it oppositely and substantially par-



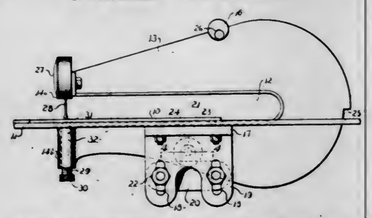
allelly to the original upward direction, a third mirror adapted to receive the beam from the second mirror and to direct it at right angles to and in a plane parallel to the laterally directed beam, and a fourth mirror adapted to receive the beam from the third mirror and to direct it substantially parallelly to the original upward direction and into said enclosure.

2,352,571

THICKNESS-MEASURING APPARATUS

Edward A. Sprigg, Wadsworth, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application March 21, 1942, Serial No. 435,606
5 Claims. (Cl. 33—147)



1. Thickness-measuring apparatus comprising a table support for contact with material to be measured, a C-frame having an elongated aperture to accommodate the material, a leg of said frame being below the table support and having a pivotal mounting with respect to said table support and an upper leg of said C-frame being in overlying relation to the table support, an adjustable gauging element carried by the lower leg, a second gauging element carried by the upper leg and having a movable feeler cooperable with the lower gauging element for measuring the material between said elements, said table support having an aperture through which the lower gauging element is movable, and a weight adjustably positioned on the upper leg of the C-frame for adjusting the unbalance of the frame about the pivot whereby the lower gauging element is adapted by virtue of the movability of said C-frame to contact a face of the material despite surface irregularity of the latter.

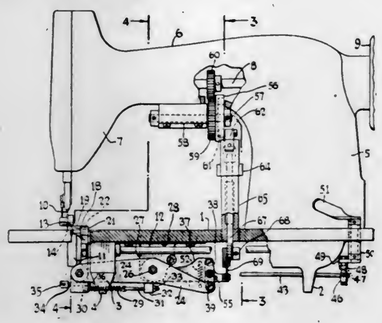
2,352,572

COMBINED SEAMING AND PINKING MECHANISM

Geoffrey Stevenson, Brookline, Mass., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine

Application October 3, 1940, Serial No. 359,515
6 Claims. (Cl. 112—123)

1. In a combined seaming and pinking mechanism, the combination comprising a frame, stitch-forming mechanism mounted in the frame, operating mechanism for the stitch-forming mechanism, pinking mechanism for serrating the edge of the material operated upon, and drive mechanism therefor including a positive track cam positively driven by said operating mechanism, a cam follower cooperating with the track



cam and a positive drive connection between the cam follower and the pinking mechanism including a longitudinally reciprocative connecting rod and flexible connections therewith.

2,352,573

METHOD OF PRESERVING LATEX AND PRODUCT THEREOF

William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Original application December 21, 1940, Serial No. 371,203. Divided and this application November 29, 1941, Serial No. 421,045
11 Claims. (Cl. 260—820)

1. The method of preserving latex which comprises adjusting the pH of the latex to not less than 9.8 nor more than 10.0 and adding a small proportion of a member of the class consisting of p-amino phenol, amino-benzoic acid, 2-amino-8-naphthol-6-sulfonic acid, and 1-amino-8-naphthol-3,6-disulfonic acid.

2,352,574

CIGARETTE REMOVING DEVICE FOR CIGARETTE PACKAGES

Max Suskowitz, Ozone Park, N. Y.

Application June 4, 1943, Serial No. 489,609
8 Claims. (Cl. 206—41.2)



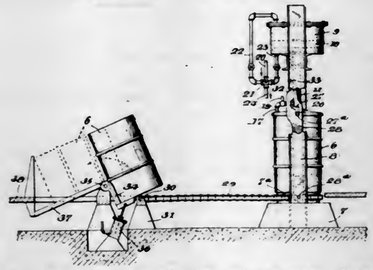
1. In combination with a cigarette of a package of cigarettes, or other similar articles, a strip of flexible material having a broad end portion which gradually narrows and continues into a narrow end portion, said broad end portion being wound around the bottom portion of said cigarette or other similar article and said narrow end portion engaging through a slot extending longitudinally in said broad end portion for lassoing and gripping said article, and said narrow end portion being bent laterally back and obliquely longitudinally of said wound around portion and extending upwards to the top of said article.

2,352,575

APPARATUS FOR USE IN STRAIGHTENING METAL BARRELS OR THE LIKE

Birney D. Titus and Clarence C. Blaine, El Dorado, Kans., assignors to Skelly Oil Company, Tulsa, Okla., a corporation of Delaware

Application April 18, 1942, Serial No. 439,588
9 Claims. (Cl. 226—115)



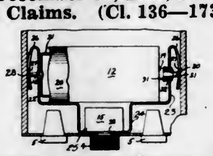
1. An apparatus of the character described, comprising means for securing a receptacle in a stationary position, means including a passageway for filling the receptacle with liquid under pressure while displacing air from the receptacle, a head connected to the passageway and adapted to engage the receptacle, a chamber in the head to receive the air displaced from the receptacle and to hold it under pressure, and a check valve interposed between the chamber and passageway to automatically release the air from said chamber into the passageway when the pressure on the liquid introduced into the receptacle is released.

2,352,576

BATTERY CLIP

Ray L. Triplett, Bluffton, Ohio

Application December 31, 1940, Serial No. 372,464
5 Claims. (Cl. 136—173)



1. As an article of manufacture, a battery clip formed of a strap of resilient material and having a U-shaped configuration, the ends of the strap being provided with reversely bent curvilinear portions which are adapted to bear against the sides of a box in which the battery is inserted, a cup-shaped element attached to an arm of the U-shaped strap which is adapted to support one end contact of the battery, said element bearing directly against said contact and serving as a terminal for a conductor which extends away from the strap, said reversely bent curvilinear portion which is attached to the said cup-shaped element serving to resiliently bear against the battery box and to resiliently force the cup-shaped element into contact with said battery end contact, where the battery is supported between the arms of the U-shaped strap.

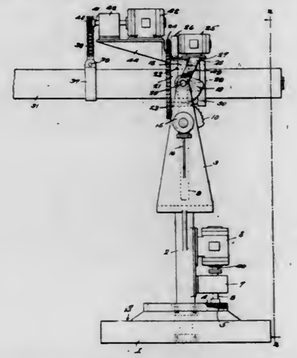
2,352,577

ANTIAIRCRAFT GUN

John Allen Veit, North Tonawanda, N. Y.

Application December 10, 1941, Serial No. 422,447
9 Claims. (Cl. 89—41)

1. In a device for pointing a gun at an aircraft in flight, a gun barrel having bores, all of which are located in a group of narrow cross-sectional area considered relatively to the cross-section of the barrel, the group being of unequal transverse dimensions, the longer transverse dimension of the group extending from a point near the longitudinal axis of the barrel to a point closely adjacent to the perimeter of the barrel, means for mounting the barrel for ver-



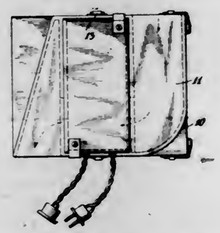
tical swinging movement and for horizontal swinging movement, each at the will of an operator, and for rotation on its longitudinal axis, to align the longer transverse dimension of the group with the path of flight of the aircraft, and mechanism under the control of an operator for rotating the barrel on its longitudinal axis.

2,352,578

RADIOMETEOROGRAPH TRANSMITTER

Charles F. Wallace, Westfield, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Original application December 31, 1941, Serial No. 425,026. Divided and this application October 8, 1942, Serial No. 461,325
4 Claims. (Cl. 200—136)



1. A radiometeorograph transmitter, comprising a circuit-controlling instrument having an element responsive to changes in an atmospheric condition, and a container in which said instrument is housed, said instrument being mounted with its contact devices in an upper part of the container and its responsive element in a lower part of the container, and the container being formed to serve as a protective enclosure for said instrument except for air openings in opposite side walls thereof in line with the responsive element, and having on one side a part providing an upwardly opening air intake passage leading to one of said air openings and having on the other side a downwardly opening air discharge passage leading from the other of said openings, whereby as the transmitter ascends a flow of air is maintained past the responsive element of the instrument while the contact members are out of the path of air flow.

2,352,579

COATING FILM FOR ZINC SURFACES AND METHOD OF MAKING THE SAME

Joseph J. Waters, Long Island City, N. Y., assignor to Etched Products Corporation, Long Island City, N. Y., a corporation of New York

No Drawing. Application November 6, 1942, Serial No. 464,938
3 Claims. (Cl. 106—195)

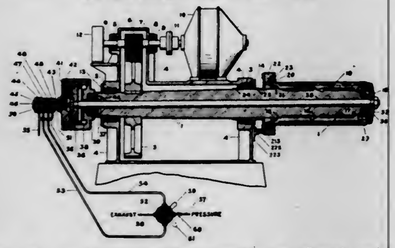
1. A method for treating a pyroxylin lacquer to render the same adhesive to zinc surfaces, which comprises adding zinc dust to the lacquer and, after permitting the zinc dust to settle, decanting therefrom the thus treated pyroxylin lacquer.

2,352,580

COIL FORMING DRUM

Frank L. Wettengel, Pittsburgh, Pa.

Application October 9, 1940, Serial No. 360,479
37 Claims. (Cl. 242—78)



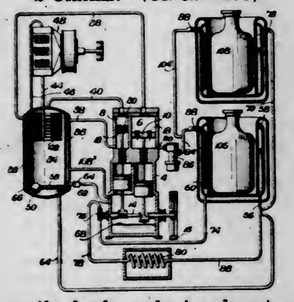
21. In a sheet rolling mill, a sheet winding means including a rotatable shaft for winding the sheet, combined radially and longitudinally shiftable segments carried by said shaft, means slidable through said shaft and coupled with an end of each segment for shifting said segments longitudinally of said shaft, correlated means carried partly by said segments and partly by said shaft for shifting said segments radially simultaneously with the longitudinal shifting thereof, each segment having a coil receiving channel therein, and electro-magnetic coils seated in said channels to thereby magnetize said segments and effect adherence of the leading end of the sheet thereto to thereby wind the sheet about said segments upon rotation of said shaft.

2,352,581

METHOD OF REFRIGERATION

Joseph F. Winkler, Philadelphia, Pa.

Application July 11, 1941, Serial No. 401,899
2 Claims. (Cl. 62—178)



1. The method of producing low temperature refrigeration which includes liquefying a mixture of ethane and propane in a closed circuit at a temperature of about 90 degrees F. and at a pressure of about 150 pounds per square inch in a first zone of said circuit, vaporizing all of said ethane and a portion of said propane in a first expansion chamber, vaporizing the remainder of the propane in a second expansion chamber, mixing the vapors produced in both of said expansion chambers, returning said mixture of vapors to said first zone and reliquefying said mixture to start another cycle of operation.

2,352,582

MANUFACTURE OF ESTERS

Howard E. Worne, Newark, N. J., assignor to Samuel Brass, Newark, N. J.

No Drawing. Application December 27, 1940, Serial No. 371,983
2 Claims. (Cl. 260—486)

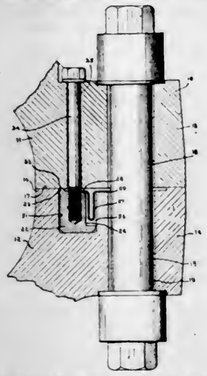
1. In a process of the character described involving formation of an alkyl ester of an unsaturated aliphatic monocarboxylic acid having a lower alkyl group substituted in the alpha position by reaction of an alkyl cyanhydrin with a lower aliphatic alcohol in an acid medium, the improvement which comprises conducting such reaction in the presence of mercuric ions as a catalyst.

2,352,583

JOINT CONSTRUCTION

Eric A. Zetterquist, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 3, 1942, Serial No. 460,719
7 Claims. (Cl. 189—36)



1. In a joint for a casing, first and second contiguous flanged portions, bolts for connecting the flanged portions, and sealing means for the joint and located between the bolts and the casing interior; said sealing means comprising a groove formed in the first flanged portion, a sealing member in the groove, means independent of said bolts for effecting sealing engagement of said sealing member with the second flanged portion, and flexible means connecting the sealing member with the first flanged portion and providing a sealed joint therebetween.

2,352,584

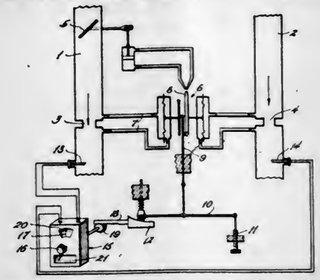
APPARATUS FOR CONTROLLING THE RATIO OF THE FLOWS OF TWO FLUIDS THROUGH CONDUITS

Herbert Ziebolz, Chicago, and John C. Vaaler, Highland Park, Ill., assignors to Askania Regulator Company, Chicago, Ill., a corporation of Illinois

Application November 4, 1940, Serial No. 364,336
7 Claims. (Cl. 137—164)

1. Apparatus for controlling the ratio of the flows of two fluids through conduits, comprising

means connected to be operated by changes in the flows of the fluids to maintain the volumetric ratio substantially constant; a ratio varying device associated with said means; temperature responsive means exposed to the respective fluid



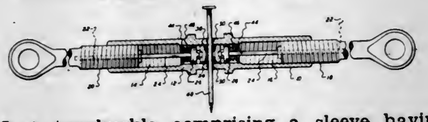
flows; and means associated with said temperature responsive means to adjust the ratio varying device to maintain a substatially constant ratio of weight flows as the absolute temperature of at least one fluid changes.

2,352,585

SELF-LOCKING TURNBUCKLE

Elwyn A. Camburn, Marshall, Mich., assignor to Ronan & Kunzl, Marshall, Mich., a copartnership consisting of K. M. Ronan and A. E. Kunzl

Application July 3, 1943, Serial No. 493,417
5 Claims. (Cl. 287—60)



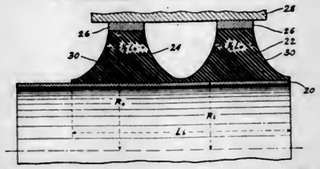
5. A turnbuckle comprising a sleeve having opposite ends thereof internally threaded, bolts externally threaded and operating within said sleeve, a cross bore in the central portion of said sleeve, locking means associated with said threaded bolts, resilient means projecting said locking means into said cross bore, interlocking means between said sleeve and locking means to prevent relative rotation between said sleeve and threaded bolts with a portion of said locking means projecting in said cross bore, insertion of a tool through said cross bore acting upon the portions of said locking means projecting therein to move the same to a nonlocking position.

2,352,586

TORSION UNIT

Karl B. Kilborn and Samuel D. Gehman, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application December 16, 1942, Serial No. 469,164
6 Claims. (Cl. 267—21)



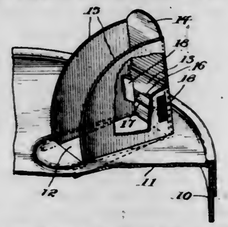
1. A torsion spring, comprising an axle member, a sleeve of resilient material secured at its inner surface to said axle member, said sleeve being circumferentially subdivided into a number of sections, each section varying in axial dimension substantially inversely with the square of its radial distance from the axis of the axle, the outer circumferential surface of all said sections being attached to one common member capable of rotary movement with respect to said axle member.

2,352,587

POURING SPOUT FOR CONTAINERS

Ferdinand H. Müller, Montclair, N. J., assignor to Wilmington Fibre Specialty Company, Wilmington, Del., a corporation of Delaware

Application May 12, 1942, Serial No. 442,679
2 Claims. (Cl. 222—531)



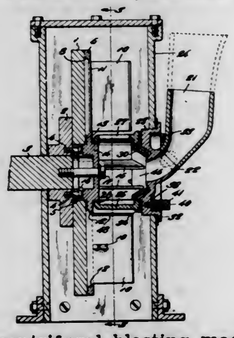
1. A pouring spout and closure for containers of the type having a wall of flexible material provided with a pouring opening, said spout having flexible integral bottom and side walls and provided with cooperating means to secure it to the container when assembled in its pouring opening, said means comprising a hinged tongue at one end of said opening engaged by said bottom wall and formed of a portion of said container and having a slot, a projection formed integral with said spout and engaged tightly in said slot for attaching said spout to the container, and inwardly extending opposing wings integral with the side walls having free inner edges bearing against the said hinged tongue on the side of said hinged tongue opposite to that side engaged by said bottom wall and holding said tongue in contact with said bottom wall.

2,352,588

DIRECTIONAL CONTROL CENTRIFUGAL BLASTING MACHINE

William A. Rosenberger and Walter L. Keefer, Hagerstown, Md., assignors to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland

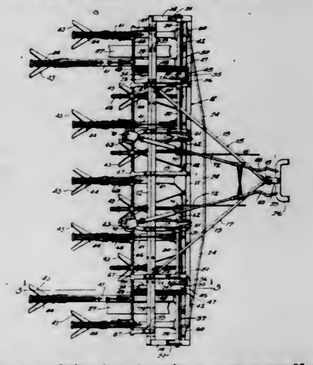
Application March 7, 1941, Serial No. 382,256
10 Claims. (Cl. 51—9)



10. In a centrifugal blasting machine and in combination, a rotor, an brasive supply with a discharge port coaxial the axis of the rotor and an interposed axially disposed transfer mechanism supplying the abrasive to the rotor and controlling the arc of discharge of the abrasive

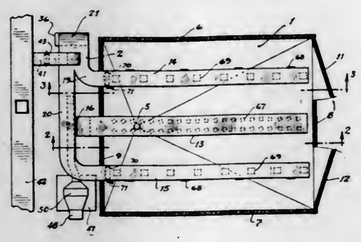
stream from the periphery thereof, said rotor comprising a head and a plurality of thin, widely separated, independently functioning blades, with the spaces therebetween free for the outward travel of the abrasive stream from the transfer mechanism across the orbit of the inner edges of the rotor blades, each rotor blade having its propelling face highly resistant to abrasion, without material abrupt change in direction, and extending substantially from the inner edge to the outer edge of the blade, the latter edge of the blade terminating at or adjacent the periphery of the head and said inner edge thereof terminating in close juxtaposition to the transfer mechanism, and each blade in radial length exceeding the radius of the outer member of the latter, said transfer mechanism including a multi-bladed, axial passage, impeller and an outer member determining the position of the arc of pick-up by the inner ends of the rotor blades of the abrasive propelled by the impeller.

2,352,589
AGRICULTURAL MACHINE
Arthur A. Scarlett and Stephen M. Young, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill., a corporation of New Jersey
Application August 1, 1942, Serial No. 453,196
6 Claims. (Cl. 97—234)



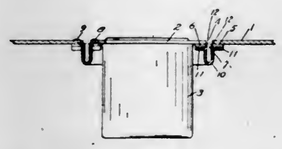
1. For a cultivator having a generally rectangular frame including transverse front and rear members and longitudinal end members, and cultivator elements carried by the frame for movement between raised and lowered positions: a pair of transversely spaced wheels for carrying the frame; a pair of supporting means respectively between the wheels and frame, each means including a crank-axle having a wheel-journaling portion and a frame-engaging portion; means for mounting the supporting means on the frame for transverse adjustment of said supporting means and wheels between positions laterally inside the respective end members of the frame to positions laterally outside said end members, each mounting means including means adjustably connecting the frame-engaging portion of a crank-axle to the frame, and a brace member connected between said crank-axle and the front transverse member of the frame for transverse adjustment as the supporting means is adjusted transversely; a pair of raising and lowering means on the frame associated with the cultivator elements; drive means respectively between said raising and lowering means and the wheels; and means respectively mounting said drive means for adjustment and operation according to the transverse adjustment of said wheels.

2,352,590
SMOKE OVEN
Robert H. Trinkle, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application April 5, 1940, Serial No. 328,081
9 Claims. (Cl. 99—229)



1. In a device for treating comestibles, the combination of an air pressure circulating system formed in part by an enlarged comestible receiving chamber and in part by supply and return flow maintaining means communicating with said enlarged comestible receiving chamber, said supply means having means for discharging air into said chamber in enveloping relation to comestibles disposed in said chamber, said return flow means being disposed in relation to said supply means for maintaining said enveloping circulatory movement of said fluid body in said chamber, means for introducing air into said system to supplement the air circulating therein, means for regulating the pressure of said air in said system, means for supplying a vapor into said system, means for heating the circulating air in said system, and automatically operable means for controlling the said pressure regulating means, air and vapor supply means, and said heating means to condition the said air within the system in accordance with predetermined operating requirements.

2,352,591
RESILIENT MOUNTING
Leon Wallerstein, Jr., Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application November 14, 1942, Serial No. 465,543
3 Claims. (Cl. 248—358)

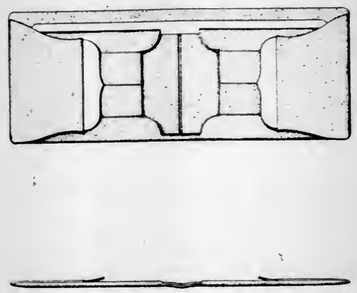


1. A mounting comprising members spaced apart forming an annular gap between them, and a connection between the members of resilient material, such as rubber, bridging the gap along at least portions thereof which are in angular relation, the connection extending out of straight line direct stress relation between the members, and the resistance to movement in any crosswise direction between the members being the resultant of shear and flexure resistances of the material in the said different portions of the gap.

DESIGNS

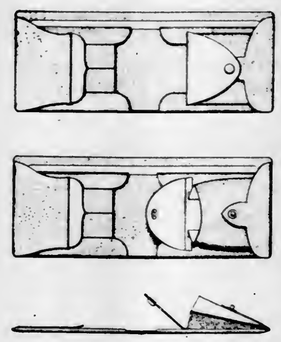
JUNE 27, 1944

138,134
DESIGN FOR A BILLFOLD
Samuel Benner, Milwaukee, Wis.
Application April 15, 1944, Serial No. 113,261
Term of patent 7 years
(Cl. D87—3)



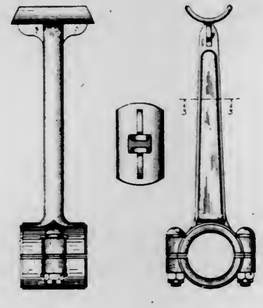
The ornamental design for a billfold, as shown and described.

138,135
DESIGN FOR A BILLFOLD
Samuel Benner, Milwaukee, Wis.
Application April 15, 1944, Serial No. 113,262
Term of patent 7 years
(Cl. D87—3)



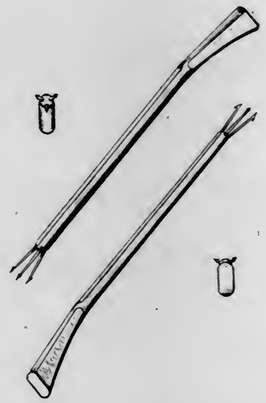
The ornamental design for a billfold, as shown and described.

138,136
DESIGN FOR A CONNECTING ROD
Arthur T. Britton, Santa Clara, Calif.
Application March 13, 1943, Serial No. 109,747
Term of patent 7 years
(Cl. D77—1)



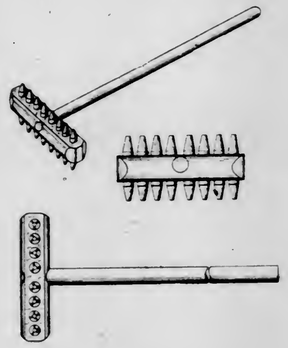
The ornamental design for a connecting rod, as shown.

138,137
DESIGN FOR A PICKLE FORK
John F. Brown, Los Angeles, Calif.
Application April 19, 1944, Serial No. 113,311
Term of patent 14 years
(Cl. D54—12)



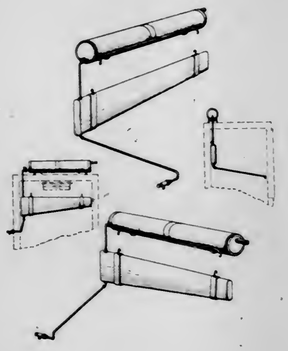
The ornamental design for a pickle fork, as shown.

138,138
DESIGN FOR A CLOTHES STICK
Julia T. Burg, Detroit, Mich.
Application April 10, 1944, Serial No. 113,202
Term of patent 7 years
(Cl. D49—1)



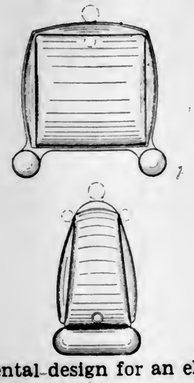
The ornamental design for a clothes stick, substantially as shown.

138,139
DESIGN FOR A BEVERAGE COOLER
Sydney A. Conway, Bloomfield, N. J.
Application March 29, 1944, Serial No. 113,059
Term of patent 14 years
(Cl. D67—2)



The ornamental design for a beverage cooler, as shown and described.

138,140
DESIGN FOR AN ELECTRIC TOASTER
Louis L. Von Cseh, East Cleveland, Ohio, assignor to Meters & Pumps, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 15, 1944, Serial No. 113,268
Term of patent 14 years
(Cl. D81—10)



The ornamental design for an electric toaster, as shown and described.

138,141
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Clifford A. Furst, New York, N. Y.
Application May 10, 1944, Serial No. 113,536
Term of patent 3½ years
(Cl. D45—19)

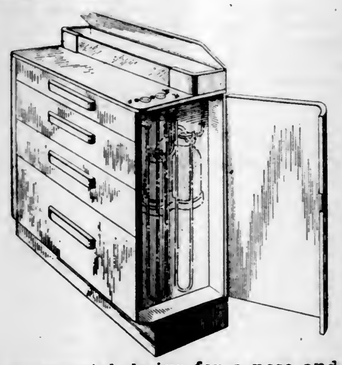


The ornamental design for a brooch or similar article, substantially as shown.

138,142
DESIGN FOR A NOSE AND THROAT TREATMENT CABINET
Aaron A. Goldstein, Buffalo, N. Y., assignor to The Gomco Surgical Manufacturing Corporation, Buffalo, N. Y., a corporation of New York
Application October 9, 1943, Serial No. 111,323
Term of patent 14 years
(Cl. D83—1)

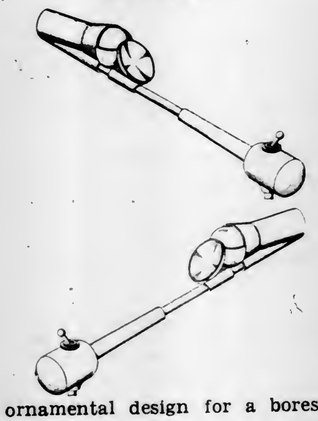


138,142—Continued



The ornamental design for a nose and throat treatment cabinet, as shown and described.

138,143
DESIGN FOR A BORESCOPE
Charles V. Lindbloom, Cranford, N. J.
Application April 11, 1944, Serial No. 113,224
Term of patent 7 years
(Cl. D57—1)



The ornamental design for a borescope, as shown.

138,144
DESIGN FOR A VALVE CHECK
Clarence Pool, Rivera, Calif.
Application February 7, 1944, Serial No. 112,497
Term of patent 7 years
(Cl. D91—1)



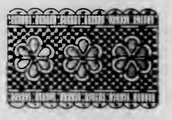
The ornamental design for a valve check, as shown.

138,145
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application April 1, 1944, Serial No. 113,114
Term of patent 3½ years
(Cl. D92—1)



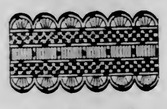
The ornamental design for an embroidered trimming or similar article, substantially as shown.

138,146
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application April 3, 1944, Serial No. 113,124
Term of patent 3½ years
(Cl. D92—1)



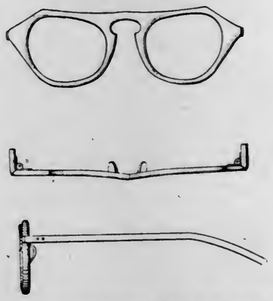
The ornamental design for an embroidered trimming or similar article, substantially as shown.

138,147
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application April 3, 1944, Serial No. 113,125
Term of Patent 3½ years
(Cl. D92—1)



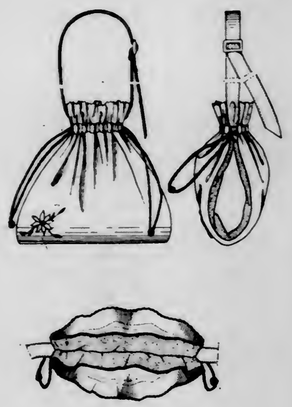
The ornamental design for an embroidered trimming or similar article, substantially as shown.

138,148
DESIGN FOR AN OPTICAL FRAME
Robert Weber and Edward Salvage, New York, N. Y.
Application July 21, 1943, Serial No. 110,728
Term of patent 7 years
(Cl. D57—1)



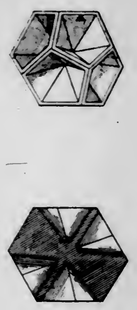
The ornamental design for an optical frame, substantially as shown and described.

138,149
DESIGN FOR A COMBINED MUFF AND HANDBAG OR SIMILAR ARTICLE
Morris Wolf, New York, N. Y.
Application March 8, 1944, Serial No. 112,824
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a combined muff and handbag or similar article, substantially as shown and described.

138,150
DESIGN FOR A RUBBER BALL
Clinton J. Davidson, San Diego, Calif.
Application January 22, 1944, Serial No. 112,300
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a rubber ball, substantially as shown.

138,151
DESIGN FOR A JEWELRY CASE OR THE LIKE
Joan Foster, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application April 4, 1944, Serial No. 113,133
Term of patent 3½ years
(Cl. D80—5)



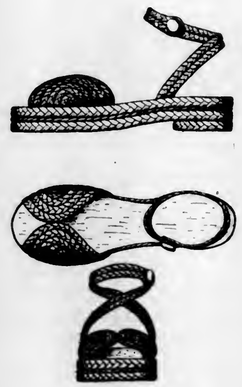
The ornamental design for a jewelry case or the like, substantially as shown.

138,152
DESIGN FOR A TACHOMETER
Wilbert M. Gilman, Wellesley Hills, Mass., assignor to Standard Machinery Company, Cranston, R. I., a corporation of Rhode Island
Application April 12, 1944, Serial No. 113,230
Term of patent 14 years
(Cl. D52—7)



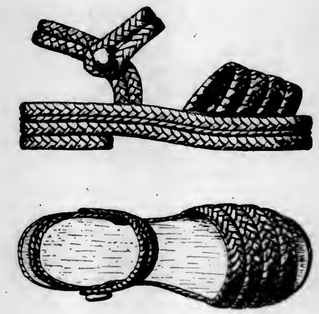
The ornamental design for a tachometer, substantially as shown.

138,153
DESIGN FOR A SHOE OR SIMILAR ARTICLE
David D. Goldstein, Pittsburgh, Pa.
Application April 25, 1944, Serial No. 113,360
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a shoe or similar article, as shown.

138,154
DESIGN FOR A SHOE OR SIMILAR ARTICLE
David D. Goldstein, Pittsburgh, Pa.
Application April 25, 1944, Serial No. 113,361
Term of patent 7 years
(Cl. D7—7)



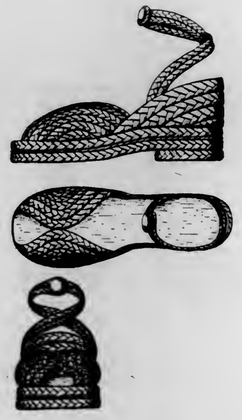
The ornamental design for a shoe or similar article, as shown.

138,155
DESIGN FOR A SHOE OR SIMILAR ARTICLE
David D. Goldstein, Pittsburgh, Pa.
Application April 25, 1944, Serial No. 113,362
Term of patent 7 years
(Cl. D7—7)



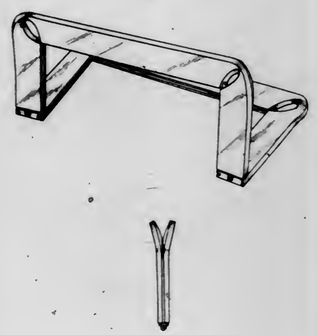
The ornamental design for a shoe or similar article, as shown.

138,156
DESIGN FOR A SHOE OR SIMILAR ARTICLE
David D. Goldstein, Pittsburgh, Pa.
Application April 25, 1944, Serial No. 113,363
Term of patent 7 years
(Cl. D7—7)



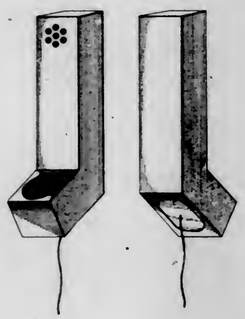
The ornamental design for a shoe or similar article, as shown.

138,157
DESIGN FOR A HANDBAG FRAME OR SIMILAR ARTICLE
Joseph Halpern, New York, N. Y.
Application May 12, 1944, Serial No. 113,557
Term of patent 3½ years
(Cl. D87—2)



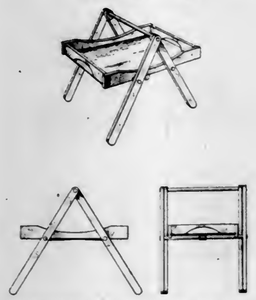
The ornamental design for a handbag frame or similar article, substantially as shown.

138,158
DESIGN FOR A TOY TELEPHONE
George R. Hirst, Merchantville, N. J.
Application April 13, 1944, Serial No. 113,242
Term of patent 14 years
(Cl. D34—15)



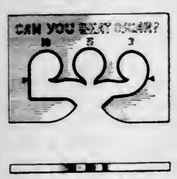
The ornamental design for a toy telephone, as shown.

138,159
DESIGN FOR A COMBINED FOLDING STAND AND SERVING TRAY
Ferdinand Kramer, Port Chester, N. Y., assignor to Allied Purchasing Corporation, New York, N. Y., a corporation of New York, Fred V. Gerstel, New York, Ferdinand Kramer, Port Chester, and Paul M. Mazur, New York, N. Y.
Application March 15, 1944, Serial No. 112,906
Term of patent 14 years
(Cl. D44—10)



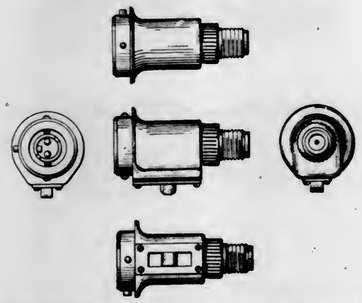
The ornamental design for a combined folding stand and serving tray, as shown.

138,160
DESIGN FOR A MARBLE GAME BOARD
Carl G. Lins, Tuckahoe, N. Y., assignor of one-half to Stuart R. Wallcott, Tuckahoe, N. Y.
Application April 12, 1944, Serial No. 113,232
Term of patent 14 years
(Cl. D34—5)



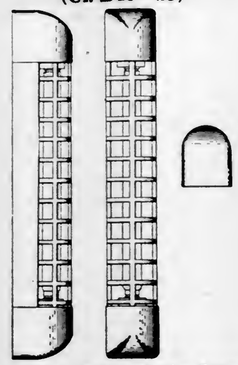
The ornamental design for a marble game board, as shown.

138,161
DESIGN FOR AN ELECTRIC SWITCH
Robert M. Lynn, Pasadena, Calif.
Application February 2, 1944, Serial No. 112,409
Term of patent 7 years
(Cl. D26—13)



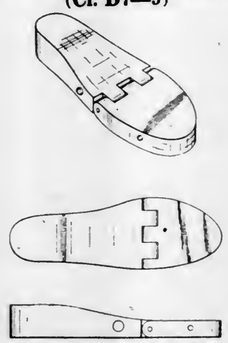
The ornamental design for an electric switch, as shown.

138,162
DESIGN FOR A FLUORESCENT LIGHTING FIXTURE
René G. Maurette, Beverly, Mass.
Application March 10, 1943, Serial No. 109,721
Term of patent 14 years
(Cl. D48—23)



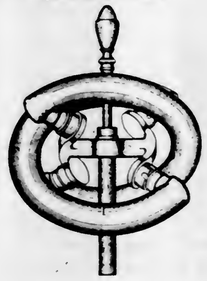
The ornamental design for a fluorescent lighting fixture, as shown.

138,163
DESIGN FOR A SANDAL SOLE
Lovell H. May, St. Paul, Minn.
Application April 15, 1944, Serial No. 113,257
Term of patent 14 years
(Cl. D7—5)

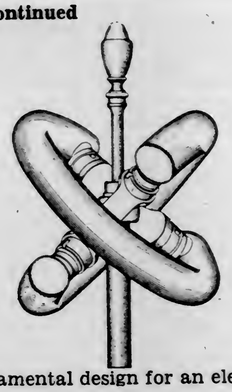


The ornamental design for a sandal sole, as shown.

138,164
DESIGN FOR AN ELECTRIC LAMP
Alphonse F. Pieper, Brighton, N. Y.
Application April 21, 1944, Serial No. 113,326
Term of patent 14 years
(Cl. D48—19)

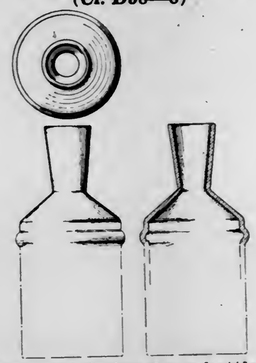


138,164—Continued



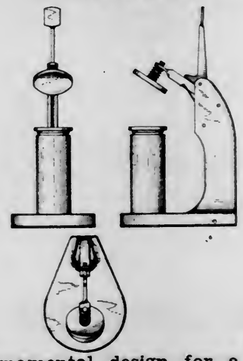
The ornamental design for an electric lamp, as shown.

138,165
DESIGN FOR A BOTTLE OR THE LIKE
Richard Ratner, New York, N. Y.
Application September 13, 1943, Serial No. 111,109
Term of patent 14 years
(Cl. D58—8)



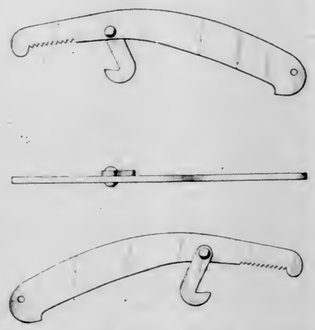
The ornamental design for a bottle or the like, substantially as shown and described.

138,166
DESIGN FOR A FABRIC PATCH MENDING MACHINE
Edward N. Simmons, Chicago, Ill.
Application April 17, 1944, Serial No. 113,279
Term of patent 7 years
(Cl. D70—2)



The ornamental design for a fabric patch mending machine, substantially as shown.

138,167
DESIGN FOR A COMBINATION JAR LID LIFTER AND BOTTLE CAP REMOVER
Earl J. Welch, Lorain, Ohio
Application April 1, 1944, Serial No. 113,115
Term of patent 14 years
(Cl. D44—29)



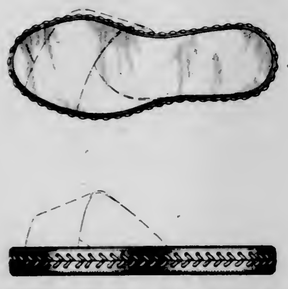
The ornamental design for a combination jar lid lifter and bottle cap remover, as shown.

138,168
DESIGN FOR A TEETHING RING
Moses H. Baine, San Antonio, Tex.
Application February 28, 1944, Serial No. 112,744
Term of patent 14 years
(Cl. D83—1)



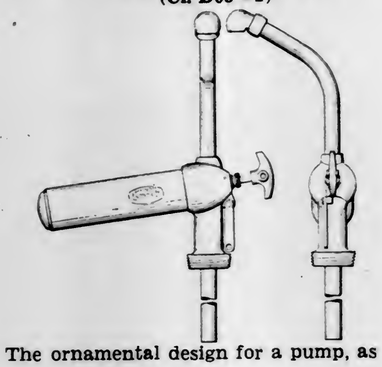
The ornamental design for a teething ring, as shown and described.

138,169
DESIGN FOR A SANDAL OR SIMILAR ARTICLE
Jack Meltzer, New York, N. Y.
Application February 8, 1944, Serial No. 112,513
Term of patent 14 years
(Cl. D7—5)



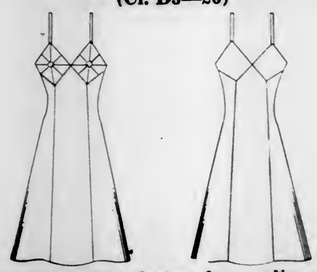
The ornamental design for a sandal or similar article, substantially as shown and described.

138,170
DESIGN FOR A PUMP
Joseph C. Woodford, Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware
Application April 15, 1944, Serial No. 113,265
Term of patent 14 years
(Cl. D65—1)



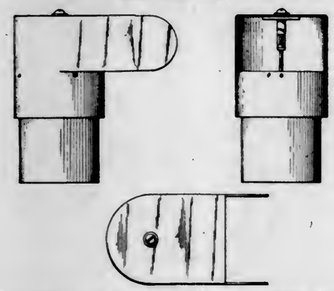
The ornamental design for a pump, as shown.

138,171
DESIGN FOR A SLIP OR SIMILAR ARTICLE
Samuel H. Geffner, New York, N. Y.
Application May 4, 1944, Serial No. 113,475
Term of patent 7 years
(Cl. D3—26)



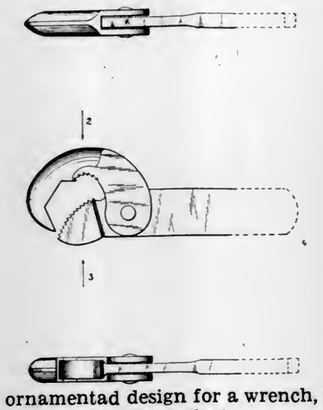
The ornamental design for a slip or similar article, substantially as shown.

138,172
DESIGN FOR A ROTARY HEAD VENTILATOR FOR FLUES OR STACKS
Burt M. Lutze, Flint, Mich.
Application March 27, 1944, Serial No. 113,050
Term of patent 14 years
(Cl. D62—3)



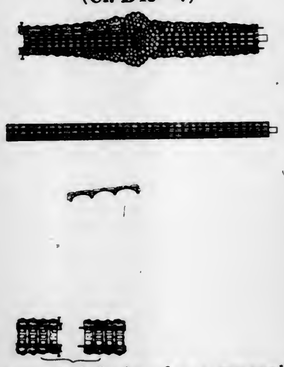
The ornamental design for a rotary head ventilator for flues or stacks, as shown.

138,173
DESIGN FOR A WRENCH
Edward Matthews, Denver, Colo.
Application November 8, 1943, Serial No. 111,631
Term of patent 14 years
(Cl. D54—16)



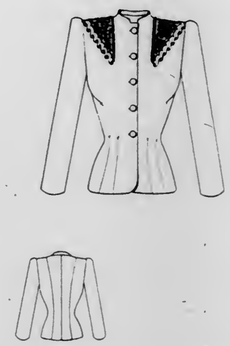
The ornamentad design for a wrench, substantially as shown and described.

138,174
DESIGN FOR A SEPARABLE BRACELET
John Rubel, New York, N. Y.
Application March 20, 1944, Serial No. 112,963
Term of patent 14 years
(Cl. D45—7)



The ornamental design for a separable bracelet or similar article, substantially as shown.

138,175
DESIGN FOR A JACKET
Jacob Barbel, New York, N. Y.
Application May 29, 1944, Serial No. 113,779
Term of Patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

138,176
DESIGN FOR A DRESS
Samuel Salsky, New York, N. Y.
Application May 30, 1944, Serial No. 113,817
Term of Patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abelson, L., & Son, New York, N. Y. Overcoats, top coats and fingertip coats. Serial No. 469,140; June 27. Class 39.

Agicide Laboratories, Inc., Racine, Wis. Nutshell and fruit pit flour as a partially prepared pigment. Serial No. 469,072; June 27. Class 1.

Air Devices, Inc., New York, N. Y. Air filters. Serial No. 469,884; June 27. Class 31.

Akron Linen Products Company. (See Searer, Harold J.)

Alox Corporation, Niagara Falls, N. Y. Oil composition. Serial No. 460,131; June 27. Class 15.

American Crayon Company, The, Sandusky, Ohio. Art goods in the form of blocks and a powder. Serial No. 460,917; June 27. Class 1.

Ar-Ex Cosmetics Inc., Chicago, Ill. Cosmetic hand cream. Serial No. 467,910; June 27. Class 6.

Armaly Sponge & Chamois Co. Inc., Detroit, Mich. Sisal pad filters. Serial No. 469,183; June 27. Class 31.

Armand Company, The, Des Moines, Iowa. Face powder. Serial No. 468,275; June 27. Class 6.

Associated Distributors, Chicago, Ill. Lipstick, rouge, face powder, etc. Serial No. 466,138; June 27. Class 6.

Associated Distributors, Chicago, Ill. Lipstick, rouge, anti-perspirant, etc. Serial No. 468,588; June 27. Class 6.

Associated Distributors, Chicago, Ill. Vanity cases, compacts and lipstick cases. Serial No. 468,589; June 27. Class 2.

Astlett, H. A., & Co., New York, N. Y. Refrigerators. Serial No. 469,109; June 27. Class 31.

Astlett, H. A., & Co., New York, N. Y. Toilet tissue, paper napkins, paper towels, etc. Serial No. 469,111; June 27. Class 37.

Atlanta Woolen Mills, Atlanta, Ga. Woolen piece goods. Serial No. 467,263; June 27. Class 42.

Attapulgus Clay Company, Wilmington, Del., and Philadelphia, Pa. Adsorbent materials. Serial No. 467,746; June 27. Class 6.

Aviation Equipment Manufacturing Company. (See McCarty, J. Daniel.)

Bailey, Prihoda & Co., doing business as D'Sapeer Co., Kalamazoo, Mich. Deodorant. Serial No. 468,771; June 27. Class 6.

Beacon Importing Co., Boston, Mass. Canned fish. Serial No. 468,997; June 27. Class 46.

Bendel, Henri, Inc., New York, N. Y. Purses, hand bags, wallets, etc. Serial No. 468,591; June 27. Class 3.

Bendel, Henri, Inc., New York, N. Y. Hand and face lotions, face and bath powder, bath oil, etc. Serial Nos. 468,940–1; June 27. Class 6.

Binky Baby Products Company, New York, N. Y. Toy animals, toy wagons, toy army tanks, etc. Serial No. 468,104; June 27. Class 22.

Binky Baby Products Company, New York, N. Y. Teething rings, pacifiers, and nipples. Serial No. 468,106; June 27. Class 44.

Blackman, Julius, Corporation, doing business as Supreme Pharmaceutical Company, New York, N. Y. Vitamin tablets, capsules and pills. Serial No. 466,721; June 27. Class 6.

Brody Mfg. Co., Not Inc., Chicago, Ill. Pillows. Serial No. 469,890; June 27. Class 32.

California Importing Co., Los Angeles, Calif. Salad oil. Serial No. 467,391; June 27. Class 46.

Carlson, Gustave W., doing business as Super-Gleeps Company, Superior, Wis. Caramelized pop corn. Serial No. 469,590; June 27. Class 46.

Carrington, George S., Co., Chicago, Ill. Certain board game. Serial No. 467,750; June 27. Class 22.

Ceco Steel Products Corporation, Omaha, Nebr. Metal screen cloth, hardware cloth, window lifts, etc. Serial No. 464,565; June 27. Class 13.

Central Chemical Corporation, Everett, Pa., and Hagerstown, Md. Insecticide and fungicide. Serial Nos. 468,951–2; June 27. Class 6.

Central Soya Company, Inc., Fort Wayne, Ind. Coarse size defatted soy flour. Serial No. 469,381; June 27. Class 46.

City Engineering Company, The, Dayton, Ohio. Gages. Serial No. 466,429; June 27. Class 26.

Clark, J. R., Company, The, Minneapolis, Minn. Ironing tables. Serial No. 460,287; June 27. Class 24.

Cosmos Dental Products, Inc., New York, N. Y. Fast drying liquid film acrylic investment separation. Serial No. 469,432; June 27. Class 44.

Craig Manufacturing Company, Inc., New York, N. Y. Comforts. Serial No. 464,690; June 27. Class 42.

Darby, Harry, doing business as Harry Darby, Manufacturer, Kansas City, Kans. Motor boats, barges, buoys, etc. Serial No. 464,019; June 27. Class 19.

Darby, Harry, doing business as Harry Darby, Manufacturer, Kansas City, Kans. Motor boats, barges, buoys, etc. Serial No. 465,736; June 27. Class 19.

Darby, Harry, Manufacturer. (See Darby, Harry.)

Dell Publishing Company, Inc., New York, N. Y. Bimonthly illustrated story magazine. Serial No. 452,852; June 27. Class 38.

Democrat Printing & Lithographing Company, Little Rock, Ark. Invoices, statements, ledger leaves, and partially printed labels. Serial No. 460,175; June 27. Class 37.

D'Sapeer Co. (See Bailey, Prihoda & Co.)

Durene Association of America, New York, N. Y. Wearing apparel. Serial No. 457,824; June 27. Class 39.

Emard Packing Company, Seattle, Wash. Salmon eggs. Serial No. 467,968; June 27. Class 22.

Everfast Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 467,653; June 27. Class 42.

Everfast Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 467,656; June 27. Class 42.

Everfast Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 468,071; June 27. Class 42.

First Texas Chemical Manufacturing Co., Dallas, Tex. Vitamin preparation. Serial No. 469,330; June 27. Class 6.

Ford Motor Company, Dearborn, Mich. Precision gage blocks. Serial No. 469,594; June 27. Class 26.

Gillette Safety Razor Company, Boston, Mass. Safety razors and safety razor blades. Serial No. 468,790; June 27. Class 23.

Global Spark Plug Co. (See Replogle, Delbert E.)

Heywood Boot & Shoe Co., Worcester, Mass. Leather boots and shoes. Serial No. 468,919; June 27. Class 39.

Higginsville Flour Mills. (See Stout, Charles B.)

Hi-Way Service Corporation, Milwaukee, Wis. Shovel attachment for trucks and tractors. Serial No. 468,798; June 27. Class 23.

Imperial Chemical Industries, Limited, London, England. Polymerised ethylene (polythene). Serial No. 462,166; June 27. Class 6.

Imperial Glass Corporation, Bellaire, Ohio. Glassware. Serial No. 466,697; June 27. Class 33.

Kelley Island Lime and Transport Company, The, Cleveland, Ohio. Agricultural lime. Serial No. 468,889; June 27. Class 6.

Keyes Fibre Company, Waterville, Maine. Molded pulp plates, dishes, trays, and cups and resin-bearing fibrous articles. Serial No. 465,339; June 27. Class 2.

Laverne Originals, New York, N. Y. Wall papers. Serial No. 469,405; June 27. Class 37.

Lehn & Fink Products Corporation, Bloomfield, N. J. Estrogenic hormone preparation. Serial No. 469,358; June 27. Class 6.

Lifton Manufacturing Company, Inc., The, New York, N. Y. Brief cases. Serial No. 469,052; June 27. Class 3.

Look, Inc., Des Moines, Iowa. Motion picture films, sound films, etc. Serial No. 466,945; June 27. Class 26.

Lord Jeff Knitting Company, Incorporated, New York, N. Y. Sweaters, mufflers and cotton basque shirts. Serial No. 457,095; June 27. Class 39.

Lorenz, David M., Kansas City, Kans. Stands. Serial No. 462,258; June 27. Class 13.

Lowy, Larry, Rockaway Park, New York, N. Y. Combined phonograph and motion picture toy. Serial No. 469,407; June 27. Class 22.

Lydia, New York, N. Y. Ladies' and misses' hats. Serial No. 468,801; June 27. Class 39.

McCarty, J. Daniel, doing business as Aviation Equipment Manufacturing Company, Washington, D. C. Aircraft servicing equipment and parts thereof. Serial No. 467,458; June 27. Class 23.

Mednick, Philip, Brooklyn, N. Y. Brushes. Serial No. 467,102; June 27. Class 29.

Mim's Dog Food Company, Los Angeles, Calif. Dog food. Serial No. 469,208; June 27. Class 46.

Mosesian, Paul A., & Sons, Inc., Fresno, Calif. Fresh grapes, fresh deciduous fruits, fresh melons, and dried fruits. Serial No. 455,708; June 27. Class 46.

National Mineral Company, The, Chicago, Ill. Machineless hair washing solution and Croquignole hair waving solution. Serial No. 468,925; June 27. Class 6.

National Mineral Company, The, Chicago, Ill. Hair waving equipment. Serial No. 468,927; June 27. Class 44.

National Plastic Products Company, Odenton, Md. Dining room furniture, bedroom furniture, office furniture, etc. Serial No. 466,356; June 27. Class 32.

Pacific Lumber Company, The, San Francisco, Calif. Soil lightener and mulch. Serial No. 469,016; June 27. Class 10.

Pedigree Fabrics, Inc., New York, N. Y. Rayon piece goods. Serial No. 468,851; June 27. Class 42.

Pincus, Lester, Shoe Corp., New York, N. Y. Shoes. Serial No. 468,682; June 27. Class 39.

Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Water meters. Serial No. 463,604; June 27. Class 26.
Press Wireless, Inc., Chicago, Ill. Radio transmitters. Serial No. 469,576; June 27. Class 21.
Replogle, Delbert E., doing business as Global Spark Plug Co., Paterson, N. J. Spark plugs. Serial No. 465,211; June 27. Class 21.
Research Drug Co. Inc., New York, N. Y. Preparation to be used internally for the treatment of allergies. Serial No. 469,169; June 27. Class 6.
Ryco Laboratories, Inc., New York, N. Y. Medicated surgical gauze. Serial No. 469,133; June 27. Class 6.
Salfair, New York, N. Y. Ladies' and misses' hats. Serial No. 466,862; June 27. Class 39.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. Serial No. 469,790; June 27. Class 44.
Searer, Harold J., doing business as Akron Linen Products Company, Akron, Ohio. Synthetic rubber. Serial No. 460,772; June 27. Class 1.
Siegel Bros. Garment Corp., New York, N. Y. Woolen or worsted fabrics in the piece. Serial No. 469,614; June 27. Class 42.
Specific Pharmaceuticals, Inc., New York, N. Y. Bismuth injection. Serial No. 468,765; June 27. Class 6.
Stauffer, B. H., Research Laboratory, Los Angeles, Calif. Automatic body alignment tables used for therapeutic purposes. Serial No. 469,287; June 27. Class 44.
Stout, Charles B., doing business as Higginsville Flour Mill, Memphis, Tenn. Wheat flour. Serial No. 469,739; June 27. Class 46.
Super-Gleeps Company. (See Carlson, Gustave W.)
Supreme Pharmaceutical Company. (See Blackman, Julius.)
Sylvania Industrial Corporation, Fredericksburg, Va., and New York, N. Y. Chemical compounds. Serial No. 469,369; June 27. Class 6.
Tasler, Sonya, Tucson, Ariz. Deodorant powder. Serial No. 467,440; June 27. Class 6.
Tri-Pirin Corporation, New York, N. Y. Aspirin preparation. Serial No. 469,315; June 27. Class 6.
Troop, Jessie, Chicago, Ill. Hair preparation. Serial No. 468,766; June 27. Class 6.
Vitamins, Inc., Chicago, Ill. Vitamins A, C, and D for therapeutic purposes. Serial No. 467,055; June 27. Class 6.
Warner, William R., & Co. Inc., Wilmington, Del., and New York, N. Y. Amino acid preparations. Serial No. 467,479; June 27. Class 6.
Wella Corporation, The, New York, N. Y. Permanent wave solution. Serial No. 469,177; June 27. Class 6.
Wells Manufacturing Corporation, Fond du Lac, Wis. Magneto service parts. Serial No. 469,551; June 27. Class 21.
Western Auto Supply Company, Kansas City, Mo. Wall paper. Serial No. 469,292; June 27. Class 37.
White Rock Mineral Springs Company, New York, N. Y. Sarsaparilla. Serial No. 461,400; June 27. Class 45.
Whiting-Plover Paper Company, Stevens Point, Wis. Bond paper, ledger paper and onion skin paper. Serial No. 467,990; June 27. Class 37.
Whiz Fish Products Company, Seattle, Wash. Fish and fish products. Serial No. 461,084; June 27. Class 46.
Winthrop's Vacuum Cleaner Corp., Paterson, N. J. Electric vacuum cleaners and attachments therefor. Serial No. 469,483; June 27. Class 21.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning, cleansing and detergent material. Serial No. 464,840; June 27. Class 4.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning, cleansing and detergent material. Serial No. 464,842; June 27. Class 4.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning, cleansing and detergent material. Serial No. 464,844; June 27. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Olive Company, Inc., Los Angeles, Calif. Olives. 407,805; June 27; Serial No. 466,872; published Apr. 18, 1944. Class 46.
Addressograph-Multigraph Corporation, Cleveland, Ohio. Typewriter ribbon. 407,820; June 27; Serial No. 467,390; published Apr. 18, 1944. Class 11.
Admiral Corporation, Chicago, Ill. Cabinets for radios, cabinets for combination radios and phonographs, record players, etc. 407,816; June 27; Serial No. 467,218; published Apr. 18, 1944. Class 32.
Air Comfort Corporation, Chicago, Ill. Freezer storage cabinets, and parts thereof. 407,817; June 27; Serial No. 467,220; published Apr. 18, 1944. Class 31.
Aldon Rug Mills, Philadelphia, Pa. Rugs and carpets. 407,864; June 27. Class 42.
Allied Mills, Inc., Chicago, Ill. Horse and mule feed. 407,794; June 27; Serial No. 466,473; published Apr. 18, 1944. Class 46.
Allied Toiletries, Inc., Philadelphia, Pa. Foam bath, lipsticks, toilet water, etc. 407,776; June 27; Serial No. 464,804; published Apr. 11, 1944. Class 6.
American Bleached Goods Company, Inc., assignor to American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 189,907; renewed Sept. 30, 1944.
American Chain & Cable Company, Inc. (See Waterbury Company, assignor.)
American Field Publishing Co., The, Chicago, Ill. Weekly magazine. 190,361; renewed Oct. 14, 1944.
American Instrument Company, Silver Spring, Md. Specially designed autoclaves, valves, fittings, etc. 407,774; June 27; Serial No. 464,462; published Apr. 18, 1944. Class 26.
American Steel Foundries, Chicago, Ill. Steel. 185,375; renewed June 17, 1944.
Anheuser-Busch, Inc., assignor to Anheuser-Busch, Inc., St. Louis, Mo. Corn sugar. 190,695; renewed Oct. 21, 1944.
Ardin, Lucien, Inc., New York, N. Y. Wines. 407,845; June 27. Class 47.
Arnold, Paul D., Port Chester, N. Y. Combined bread supporting and slicing board. 407,830; June 27. Class 13.
Art Metal Products Company, Chicago, Ill. Radiator covers. 190,889; renewed Oct. 28, 1944.
Asbell, Mellege S., doing business as Romera Drug Company, El Paso, Tex. Laxative pills. 184,218; renewed May 20, 1944.
Associated Distributors, Chicago, Ill. Lipstick, rouge, antiperspirant, etc. 407,797; June 27; Serial No. 466,716; published Apr. 11, 1944. Class 6.
Associated Distributors, Chicago, Ill. Lipstick, rouge, antiperspirant, etc. 407,798; June 27; Serial No. 466,717; published Apr. 11, 1944. Class 6.
Bahr, Bernard, doing business as Rodeo Leather Goods Co., Los Angeles, Calif. Leather goods. 407,804; June 27; Serial No. 466,823; published Apr. 18, 1944. Class 3.
Baker, H. W., Linen Company, New York, N. Y. Bath towels. 407,858; June 27. Class 42.
Baker Importing Company, Minneapolis, Minn. Coffee extract. 407,796; June 27; Serial No. 466,635; published Apr. 18, 1944. Class 46.
Bastian-Morley Co., La Porte, Ind., by change of name to Bastian-Morley Co., Inc. Gas water heaters. 185,167; renewed June 10, 1944.
Bastian-Morley Co., Inc. (See Bastian-Morley Co.)
Beaulieu Vineyard, Rutherford and San Francisco, Calif. Wines. 407,867; June 27. Class 47.
Ben-Hur Products, Inc., New York, N. Y. Combs and barrettes. 407,865; June 27. Class 40.
Berkshire Knitting Mills, Wyomissing, Pa. Hosiery. 407,846; June 27. Class 39.
Berry Brothers, Inc. (See Berry Brothers, Limited, assignor.)
Berry Brothers, Limited, assignor to Berry Brothers, Inc., Detroit, Mich. Varnish. 25,141; re-renewed Aug. 14, 1944.
Beverly Novelty Co. (See Dashevsky, Isadore.)
Botfield, Leonard B., doing business as Botfield Refractories Company, assignor to Botfield Refractories Company, Philadelphia, Pa. Refractory bricks and high-temperature cement. 190,868; renewed Oct. 28, 1944.
Botfield Refractories Company. (See Botfield, Leonard B., assignor.)
Boxygen Laboratories Limited, Toronto, Ontario, Canada. Antiseptic dentifrice. 407,752; June 27; Serial No. 451,403; published Aug. 25, 1942. Class 6.
Brown, Clarence S., & Co., Inc., New York, N. Y. Cotton piece goods, rayon piece goods, etc. 407,812; June 27; Serial No. 467,086; published Apr. 18, 1944. Class 42.
Buckley, Margo A., New York, N. Y. Yarns. 407,822; June 27; Serial No. 467,426; published Apr. 18, 1944. Class 43.
Burns, E. Reed, Manufacturing Corporation. (See Burns, E. Reed, Mfg. Corp.)
Burns, E. Reed, Mfg. Corp., Brooklyn, N. Y., Chicago, Ill., and Cleveland, Ohio, to E. Reed Burns Manufacturing Corporation, Brooklyn, N. Y. Polishing and buffing compound. 190,445; renewed Oct. 14, 1944.
Caldwell-Clements, Inc., New York, N. Y. Publication. 407,835; June 27. Class 38.
Cellucotton Products Company, Neenah, Wis., assignor, by mesne assignments, to International Cellucotton Products Company, Chicago, Ill. Absorbent pad or sheets. 190,517; renewed Oct. 14, 1944.
Central Chemical Corporation of Maryland, Hagerstown, Md. Liquid asphalt and asbestos roof coating. 407,793; June 27; Serial No. 466,428; published Apr. 18, 1944. Class 12.
Chanosky, Adolph, Fort Worth, Tex. Metallic product. 407,768; June 27; Serial No. 462,846; published Apr. 4, 1944. Class 14.
Chateau Montelena, Inc., Calistoga, Calif. Wines. 407,873; June 27. Class 47.

Chipman Knitting Mills, Easton, Pa., assignor to Chas. Chipman's Sons Co., Inc., New York, N. Y. Hosiery. 189,317; renewed Sept. 16, 1944.
Chipman Knitting Mills, Easton, Pa., assignor to Chas. Chipman's Sons Co., Inc., New York, N. Y. Hosiery. 190,016; renewed Sept. 30, 1944.
Chipman Knitting Mills, Easton, Pa., assignor to Chas. Chipman's Sons Co., Inc., New York, N. Y. Hosiery. 190,256; renewed Oct. 7, 1944.
Chipman's, Chas., Sons Co., Inc. (See Chipman Knitting Mills, assignor.)
Cincinnati Galvanizing Company, The, Cincinnati, Ohio. Galvanized, enameled, and japan ware. 187,429; renewed Aug. 5, 1944.
Cleveland Tungsten, Inc., Cleveland, Ohio. Products in which tungsten is a principal ingredient. 407,762; June 27; Serial No. 460,951; published Apr. 18, 1944. Class 21.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. 407,856; June 27. Class 39.
Clute, Edgar W., doing business as West-Craft Manufacturing Company, Chicago, Ill. Toy miniature U. S. Army "Jeep" construction kit. 407,806; June 27; Serial No. 466,875; published Apr. 18, 1944. Class 22.
Colin-Hall-Marx Co., New York, N. Y. Piece goods. 407,851; June 27. Class 42.
Congoleum-Nairn Inc. (See Nairn Linoleum Company, The, assignor.)
Coope Products Company. (See Van Pelt, Charles H. C.)
Coralite Dental Products Company, Chicago, Ill. Dental materials. 407,818; June 27; Serial No. 467,289; published Apr. 18, 1944. Class 44.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 407,810; June 27; Serial No. 466,940; published Apr. 11, 1944. Class 6.
Crescent Truck Company, Lebanon, Pa. Motor shop trucks. 407,844; June 27. Class 19.
Curtiss Candy Company, The, Chicago, Ill. Candy and candy bars. 186,802; renewed July 22, 1944.
Curtiss Candy Company, Chicago, Ill. Candy. 188,495; renewed Aug. 26, 1944.
Dasco Import Co., Inc., assignor to D. A. Schulte, Inc., New York, N. Y. Pipes and cigar and cigarette holders. 187,893; renewed Aug. 12, 1944.
Dashevsky, Isadore, doing business as Beverly Novelty Co., Philadelphia, Pa. Toy kazoos. 407,787; June 27; Serial No. 466,007; published Apr. 18, 1944. Class 22.
Davis & Lawrence Co., Dobbs Ferry, N. Y. Remedy for coughs. 407,854; June 27. Class 6.
Decca Records, Inc., New York, N. Y. Phonograph records. 407,772; June 27; Serial No. 463,991; published Nov. 23, 1943. Class 36.
Delapenha, R. U., & Co. Inc., New York, N. Y. Brandy. 407,859; June 27. Class 49.
Delapenha, R. U., & Co. Inc., New York, N. Y. Brandy 407,863; June 27. Class 49.
Denver Alfalfa Milling & Products Co., Lamar, Colo. Alfalfa meal. 190,738; renewed Oct. 21, 1944.
Destin, Farel, Inc., New York, N. Y. Perfumed deodorant. 407,749; June 27; Serial No. 434,061; published Nov. 9, 1943. Class 6.
Destin, Farel, Inc., New York, N. Y. Lipstick and rouges. 407,791; June 27; Serial No. 466,375; published Apr. 11, 1944. Class 6.
DeWitt, E. C., & Co. Inc., Chicago, Ill. Laxative cold tablets, headache tablets, catarrhal cream, etc. 190,422; renewed Oct. 14, 1944.
Dodson, Weston, & Co., Inc., Bethlehem, Pa. Coal. 190,977; renewed Oct. 28, 1944.
Duggan's, Limited, Brooklyn, N. Y. Whiskey. 407,860; June 27. Class 49.
Du Mont, Allen B., Laboratories, Inc., Passaic, N. J. Instruments for examining metals. 402,783; June 27; Serial No. 465,740; published Apr. 18, 1944. Class 26.
Duplan Corporation, The, New York, N. Y., assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Piece textile fabrics. 407,756; June 27; Serial No. 458,206; published Apr. 18, 1944. Class 42.
Duranol Products, Inc. (See Meyer, Joseph H., Bros., assignor.)
Durkee Marine Products Corporation, Grasmere, Staten Island, N. Y. Cord pulleys, awning blocks, anchor trip hooks, etc. 407,778; June 27; Serial No. 466,074; published Apr. 18, 1944. Class 13.
Ebco Manufacturing Company. (See Ebinger, B. A., Sanitary Mfg. Co., assignor.)
Ebinger, D. A., Sanitary Mfg. Co., assignor to Ebco Manufacturing Company, Columbus, Ohio. Urinals, closets, lavatories, etc. 190,125; renewed Oct. 7, 1944.
Empire Twine and Yarn Co., Inc., New York, N. Y. Seine twine. 407,765; June 27; Serial No. 462,180; published Apr. 18, 1944. Class 7.
Eno, J. C., (U. S.), Limited, Bloomfield, N. J. Non-alcoholic maltless beverage and compound for making the same. 407,750; June 27; Serial No. 441,393; published Apr. 11, 1944. Class 45.
Erlanger, N., Blumgart & Co. Inc., New York, N. Y. Fabrics. 407,773; June 27; Serial No. 464,249; published Apr. 18, 1944. Class 42.
Ethyl Corporation. (See General Motors Chemical Company, assignor.)
Everfast Fabrics, Inc., New York, N. Y. Textile fabrics. 407,861–2; June 27. Class 42.
Everson, Franklin E., doing business as F. E. Everson, New York, N. Y. Water softener. 407,780; June 27; Serial No. 465,288; published Apr. 11, 1944. Class 6.
Fackler, Langford & Taylor, Meansville, Ga. Canned fruits and vegetables. 407,807; June 27; Serial No. 466,877; published Apr. 18, 1944. Class 46.
Fairfacts Company, Inc., The, New York, to The Fairfacts Company, Inc., New York, N. Y., and Trenton, N. J. Bathroom fixtures. 186,728; renewed July 22, 1944.
Fields Clothes, Inc., Asheville, N. C. Ladies' dresses and ladies' and men's suits, trousers, and coats. 407,848; June 27. Class 39.
Firestone Tire & Rubber Company, The, Akron, Ohio. Action toys. 407,763; June 27; Serial No. 461,629; published Apr. 18, 1944. Class 22.
Forest City Products, Inc., Cleveland, Ohio. Corn pads, callous and bunion pads, corn files, etc. 407,760; June 27; Serial No. 459,540; published Apr. 18, 1944. Class 44.
Fort Wayne Printing Company, Inc., Fort Wayne, Ind. Calendars. 407,870–1; June 27. Class 38.
Franco Corset Co., Inc., assignor to Franco Corset Company, New York, N. Y. Corsets and girdles. 191,028; renewed Oct. 28, 1944.
Franco Corset Company. (See Franco Corset Co., Inc., assignor.)
Gaby, Inc., Philadelphia, Pa. Beauty and toilet preparations, etc. 407,789; June 27; Serial No. 466,198; published Apr. 11, 1944. Class 6.
Garfield & Rosen, Boston, Mass. Shoes and slippers. 407,838; June 27. Class 39.
Gawmal Incorporated, New York, N. Y. Dental alloys. 407,770; June 27; Serial No. 463,515; published Apr. 18, 1944. Class 44.
General Mills, Inc., Minneapolis, Minn. Feed for animals. 407,782; June 27; Serial No. 465,599; published Apr. 18, 1944. Class 46.
General Motors Chemical Company, Moraine City, near Dayton, Ohio, assignor to Ethyl Corporation, New York, N. Y. Motor fuel component. 187,410; renewed Aug. 5, 1944.
Goldsmith Metal Lath Company, The, Cincinnati, Ohio. Metal lath. 190,832; renewed Oct. 28, 1944.
Goodman, A., & Sons, Inc., New York, N. Y. Alimentary paste products and matzoths. 183,430; renewed Apr. 29, 1944.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Footballs, basket balls, striking bags, etc. 407,803; June 27; Serial No. 466,792; published Apr. 18, 1944. Class 22.
Halowax Corporation, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, New York, N. Y. Chlorinated organic compounds. 186,048; renewed July 1, 1944.
Hanover Star Milling Company, Germantown, Ill. Wheat flour. 186,429; renewed July 8, 1944.
Hanover Star Milling Company, Germantown, Ill. Wheat flour. 186,436; renewed July 8, 1944.
Harriman Hosiery Mills, Harriman, Tenn. Hosiery. 407,855; June 27.
Harrington & Richardson Arms Company, Worcester, Mass. Rifles and submachine guns. 407,869; June 27. Class 9.
Hebard, W. F., & Co., Chicago, Ill. Industrial tractors. 407,827; June 27. Class 23.
Heller, Louis, New York, N. Y. Ladies' coats and suits. 407,761; June 27; Serial No. 459,835; published June 15, 1943. Class 39.
Hudnut, Richard, New York, N. Y. Body powder, talc, sachet. 407,766; June 27; Serial No. 462,342; published Apr. 11, 1944. Class 6.
Hull, Alfred S., to Kate L. Hull, Burlington, Vt., successor. Food-flavoring extracts. 185,274; renewed June 10, 1944.
Hull, Kate L. (See Hull, Alfred S.)
Ideal Novelty & Toy Co., Long Island City, N. Y. Stuffed dolls and toy animals. 407,819; June 27; Serial No. 467,342; published Apr. 18, 1944. Class 22.
Inland Steel Company, Chicago, Ill. Re-inforcing steel bars. 407,795; June 27; Serial No. 466,532; published Apr. 18, 1944. Class 12.
International Cellucotton Products Company. (See Cellucotton Products Company, assignors.)
Jaffin, Abraham, New York, N. Y. Ladies' underwear. 407,849; June 27. Class 39.
James, R. L., and Son, Marion, N. C. Men's hosiery. 407,872; June 27. Class 39.
Jamieson, C. E. & Co., Detroit, Mich. Nutritive tonic. 407,759; June 27; Serial No. 459,118; published June 1, 1943. Class 6.
Jay-Thorpe, Inc., assignor, by mesne assignments, to Parfums Corday, Inc., New York, N. Y. Perfumes. 188,741; renewed Sept. 2, 1944.
Johns-Manville Corporation. (See Johns-Manville Incorporated.)
Johns-Manville Incorporated, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Heat-insulating felt. 185,792; renewed June 24, 1944.
Johnston Fruit Company, Santa Barbara, Calif. Fresh citrus fruits. 190,959; renewed Oct. 28, 1944.
Johnstown Wool Shoe Co., Johnstown, N. Y. Shoes and slippers. 191,041; renewed Oct. 28, 1944.
Justi, H. D., & Son, Inc., Philadelphia, Pa. Acrylic materials. 407,808; June 27; Serial No. 466,915; published Apr. 18, 1944. Class 44.

Kandel, Morton, doing business as Pembrooke Lingerie Company, New York, N. Y. Misses' and ladies' underwear. 407,843; June 27. Class 39.
Kem Manufacturing Co., Inc., New York, N. Y. Electrical parts for automobiles. 407,850; June 27. Class 21.
Kepec Chemical Corporation. (See Kepec Company, The.)
Kepec Company, The, Milwaukee, Wis., by change of name to Kepec Chemical Corporation. Protective liquid chemical. 190,746; renewed Oct. 21, 1944.
Knoxville Fertilizer Company, The, Knoxville, Tenn. Fertilizer. 184,864; renewed June 3, 1944.
Koret, Joe, doing business as Koret of California, San Francisco, Calif. Girls' and women's skirts. 407,831; June 27. Class 39.
Koret of California. (See Koret, Joe.)
La Crosse Rubber Mills Co., La Crosse, Wis. Shoes and boots. 189,337; renewed Sept. 16, 1944.
Larkin Store Corporation, Buffalo, N. Y. Toilet preparations. 407,755; June 27; Serial No. 456,311; published Apr. 11, 1944. Class 6.
Lawrence, A. C., Leather Company, Boston, to A. C. Lawrence Leather Company, Peabody, Mass. Leather. 188,407; renewed Aug. 26, 1944.
Loft Candy Corporation. (See Loft, Incorporated, assignor.)
Loft, Incorporated, New York, assignor to Loft Candy Corporation, Long Island City, N. Y. Candy. 190,945; renewed Oct. 28, 1944.
Mabley and Carew Company, The, Cincinnati, Ohio. Women's coats, suits, sportswear. 407,836; June 27. Class 39.
Machinery Supplies Comp. (See Schaller, Rose.)
Martinson, Jos., & Co. (See Martinson, Joseph.)
Martinson, Joseph, to Jos. Martinson & Co., New York, N. Y., successor. Coffee. 190,897; renewed Oct. 28, 1944.
Masonic Service Association of the United States, The, Washington, D. C. Bulletin. 407,840; June 27. Class 38.
McKessons & Robbins, Incorporated, New York, N. Y. Insecticides, and specifically ant poison. 407,784; June 27; Serial No. 465,743; published Apr. 11, 1944. Class 6.
Mead Sales Company, The, Dayton, Ohio. Mimeograph print paper, antique paper, and bulking book paper. 184,204; renewed May 20, 1944.
Meadtex Fabrics Co., New York, N. Y. Piece goods. 407,764; June 27; Serial No. 461,823; published Oct. 19, 1943. Class 42.
Melton Hat Company, Bethel, Conn. Men's hats. 407,841; June 27. Class 39.
Metro Chocolate Co., Inc., The, Brooklyn, N. Y. Candy. 187,248; renewed July 29, 1944.
Metropolitan Device Corporation, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Rubber tubing. 188,931; renewed Sept. 9, 1944.
Meyer, Joseph H., Bros., assignor to Duranol Products, Inc., Brooklyn, N. Y. Display bins, cabinets, cases, etc. 407,753; June 27; Serial No. 454,509; published Apr. 18, 1944. Class 32.
Murdock Mfg. & Supply Company, The, Cincinnati, Ohio. Hydrants, street washers, drinking fountains, etc. 190,587; renewed Oct. 14, 1944.
Nachman, L., & Sons, Philadelphia, Pa. Women's and misses' textile aprons. 407,802; June 27; Serial No. 466,766; published Apr. 18, 1944. Class 39.
Nairn Linoleum Company, The, assignor to Congoleum-Nairn Inc., Kearney, N. J. Inlaid linoleum. 189,840; renewed Sept. 30, 1944.
New Mode Infants Wear Co. Inc., The, New York, N. Y. Baby buntings, sleeping bags, robes, etc. 407,857; June 27. Class 39.
New York Handkerchief Manufacturing Co., Chicago, Ill. Handkerchiefs. 186,449; renewed July 18, 1944.
No-Flame Chemical Corporation, Los Angeles, Calif. Prepared chemicals. 407,853; June 27. Class 6.
North American Philips Company, Inc., Dobbs Ferry, N. Y. Testing apparatus for testing hermetic seals and X-ray apparatus. 407,777; June 27; Serial No. 464,950; published Apr. 18, 1944. Class 26.
Novadel-Agene Corporation, Belleville, N. J. Flour-enriching compositions. 407,826; June 27. Class 6.
Owens-Corning Fiberglas Corporation. (See Duplan Corporation, The.)
Ox Fibre Brush Company, New York, N. Y., and Frederick, assignor to Ox Fibre Brush Company, Inc., Frederick, Md. Brushes. 182,922; renewed Apr. 22, 1944.
Ox Fibre Brush Company, New York, N. Y., and Frederick, assignor to Ox Fibre Brush Company, Inc., Frederick, Md. Brushes. 182,923; renewed Apr. 22, 1944.
Ox Fibre Brush Company, Inc. (See Ox Fibre Brush Company, assignor.)
Page & Hill Co., Minneapolis, Minn. Treated wood poles. 407,792; June 27; Serial No. 466,414; published Apr. 18, 1944. Class 12.
Parke, Davis & Company, Detroit, Mich. Chemotherapeutic agent for use in the treatment of bacterial infections. 407,811; June 27; Serial No. 467,046; published Apr. 11, 1944. Class 6.
Parfums Corday, Inc. (See Jay-Thorpe, Inc., assignor.)
Pembrooke Lingerie Company. (See Kandel, Morton.)
Phelps Associates, New York, N. Y. Handbags and haversacks. 407,823; June 27; Serial No. 467,465; published Apr. 18, 1944. Class 3.
Philadelphia Steel and Wire Corporation, Philadelphia, Pa. Spring washers. 407,799–800; June 27; Serial Nos. 466,741–2; published Apr. 18, 1944. Class 13.
Physicians & Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 407,767; June 27; Serial No. 462,594; published Jan. 4, 1944. Class 6.
Pinaud Incorporated, New York, N. Y. Toilet water. 407,837; June 27. Class 6.
Pneumocol Company. (See Gladson, Albert.)
Ponsell Floor Machine Company, New York, N. Y. Electrically-operated floor scrubbing, polishing, scraping, and grinding machines. 190,675; renewed Oct. 21, 1944.
Quering, Mary M., Chicago, Ill. Eye shields and sinus compressors. 407,781; June 27; Serial No. 465,369; published Apr. 18, 1944. Class 44.
Rand McNally & Company, Chicago, Ill. Terrestrial globes, terrestrial globe supports or bases, and parts thereof. 407,757–8; June 27; Serial Nos. 458,404–5; published Apr. 18, 1944. Class 26.
Rebajes, Inc., New York, N. Y. Jewelry. 407,852; June 27. Class 28.
Respro Inc., Providence, to Respro Inc., Cranston, R. I. Sheet fabric. 190,853; renewed Oct. 28, 1944.
Respro Inc., Providence, to Respro Inc., Cranston, R. I. Manufactured or substitute leather. 190,858; renewed Oct. 28, 1944.
Rice, Newton J. (See Wimelbacher & Rice, assignor.)
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Cotton piece goods. 407,769; June 27; Serial No. 463,331; published Apr. 18, 1944. Class 42.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Cotton plaids and checks, cotton sheetings, etc. 407,813; June 27; Serial No. 467,171; published Apr. 18, 1944. Class 42.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheeting, sheets and pillow cases. 407,814; June 27; Serial No. 467,172; published Apr. 18, 1944. Class 42.
Rodeo Leather Goods Co. (See Bahr, Bernard.)
Romera Drug Company. (See Asbell, Mellege S.)
Rosenstein Bros., Paterson, N. J. Piece goods. 407,829; June 27. Class 42.
Roth Fabrics Corporation, New York, N. Y. Silk and rayon fabrics in the piece. 407,809; June 27; Serial No. 466,934; published Apr. 11, 1944. Class 42.
Royal Blue Stores, Inc., Chicago, Ill. Canned fruits and fruit preserves, canned vegetables, etc. 190,839; renewed Oct. 28, 1944.
Schaller, Rose, doing business as Machinery Supplies Comp., New York, N. Y. Preparations for dissolving and removing rust and for rust prevention. 407,779; June 27; Serial No. 465,298; published Apr. 11, 1944. Class 6.
Schulte, D. A., Inc. (See Dasco Import Co., Inc., assignor.)
Seattle Lighting Fixture Co., Seattle, Wash. Lighting fixtures. 190,667; renewed Oct. 21, 1944.
Selberling Rubber Company, Akron, Ohio. Elastic vehicle tires. 188,590; renewed Sept. 2, 1944.
Self & Janick, Pharr, Tex. Fresh vegetables. 407,821; June 27; Serial No. 467,407; published Apr. 18, 1944. Class 46.
Showa Shoyu Brewing Co. (See Tadano, George Y.))
Siegel Bros. Garment Corp., New York, N. Y. Ladies' and misses' coats and suits. 407,868; June 27. Class 39.
Smart Maid Coat Co. Inc., New York, N. Y. Girls' and misses' coats. 407,834; June 27. Class 39.
Smith, Isidore, New York, N. Y. Woolen and worsted fabrics. 407,801; June 27; Serial No. 466,748; published Apr. 18, 1944. Class 42.
Southern Advance Bag & Paper Co. Inc, Bangor, Maine, and Boston, Mass. Paper bags. 407,771; June 27; Serial No. 463,945; published Apr. 18, 1944. Class 2.
Spatz Bros., Inc., New York, N. Y. Ladies' raincoats. 407,824; June 27. Serial No. 467,544; published Apr. 18, 1944. Class 39.
Spielman, Leon A., Philadelphia, Pa. Toy machine guns. 407,785; June 27; Serial No. 465,765; published Apr. 18, 1944. Class 22.
Star Electric Motor Company, Bloomfield, N. J. Electric motors. 407,786; June 27; Serial No. 465,993; published Apr. 18, 1944. Class 21.
Stearns, Dick E., Shreveport, Ind. Apparatus for testing insulating coatings. 407,778; June 27. Serial No. 464,982; published Apr. 18, 1944. Class 26.
Submarine Signal Company, Boston, Mass. Electrical apparatus. 407,775; June 27. Serial No. 464,523; published Apr. 18, 1944. Class 26.
Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Suits and coats. 191,033; renewed Oct. 28, 1944.
Symington-Gould Corporation, The. (See Symington, T. H., Company, The, assignor.)
Symington, T. H., Company, The, New York and Rochester, assignor, by mesne assignments, to The Symington-Gould Corporation, Rochester, N. Y. Journal boxes, truck side frames, draft-rigging parts, etc. 186,307; renewed July 8, 1944.

Tadano, George Y., doing business as Showa Shoyu Brewing Co., Glendale, Ariz. Soya bean sauce. 407,790; June 27; Serial No. 466,315; published Apr. 18, 1944. Class 46.
Tapo Citrus Association, Santa Susana, to Tapo Citrus Association, Simi, Calif. Fresh citrus fruits. 190,902; renewed Oct. 28, 1944.
Thompson, J. L., doing business as J. L. Thompson Company, Somerton and Yuma, Ariz. Fresh vegetables. 407,825; June 27; Serial No. 467,626; published Apr. 18, 1944. Class 46.
Thompson, J. L., Company. (See Thompson, J. L.)
Titanium Alloy Manufacturing Company, The, Niagara Falls, N. Y. Ferrous and a non-ferrous alloy. 407,754; June 27; Serial No. 455,893; published Apr. 14, 1944. Class 14.
Tork Clock Company, Inc., The. (See Tork Company, Inc., assignor.)
Tork Company, Inc., New York, assignor to The Tork Clock Company, Inc., Mount Vernon, N. Y. Clocks. 182,046; renewed Apr. 1, 1944.
Tork Company, Inc., New York, assignor to The Tork Clock Company, Inc., Mount Vernon, N. Y. Electrical or electrically-operated switches. 183,410; renewed Apr. 29, 1944.
Trabulsi Textile Co., New York, N. Y. Mufflers, scarfs, and men's neckties. 407,839; June 27; Class 39.
Triangle Grain Company, Ltd., Bellflower, Calif. Dairy feed. 407,828; June 27. Class 46.
Tulite Auto Bulb Company, New York, N. Y., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Incandescent electric bulbs. 190,687; renewed Oct. 21, 1944.
Tung-Sol Lamp Works, Inc. (See Tulite Auto Bulb Company, assignor.)
Ulmann, Bernhard, Co. Inc., New York, N. Y. Wool yarns. 407,815; June 27; Serial No. 467,181; published Apr. 18, 1944. Class 43.
Ulmer Pharmacal Company. (See Physicians & Hospitals Supply Company, Inc.)
Union Carbide and Carbon Corporation. (See Halowax Corporation, assignor.)
United Coal & Dock Company, Milwaukee, Wis. Coal. 186,461; renewed July 8, 1944.
Van Pelt, Charles H. C., doing business as Coope Products Company, Winer Park, Fla. Packaged citrus fruit product. 407,847; June 27. Class 46.
Vitreous Enameling Company, assignor to Viterous Steel Products Co., Cleveland, Ohio. Table tops, chemical pans, washtub covers, etc. 190,584; renewed Oct. 14, 1944.
Vitreous Enameling Company, assignor to Viterous Steel Products Co., Cleveland, Ohio. Table tops, chemical pans, washtub covers, etc. 190,867; renewed Oct. 28, 1944.
Vitreous Steel Products Co. (See Vitreous Enameling Company, assignor.)
Wansco Paper Products Co. Inc., New York, N. Y. Typewriting paper, writing paper, envelopes, etc. 407,866; June 27. Class 37.
Ward Manufacturing Co., Inc., North Arlington, N. J. Optical frames. 407,751; June 27; Serial No. 450,926; published July 21, 1942. Class 26.
Waterbury Company, Jersey City, N. J., and New York, N. Y., assignor, by mesne assignments, to American Chain & Cable Company, Inc., Bridgeport, Conn. Wire rope. 185,331; renewed June 10, 1944.
Watkins, J. R., Company, The, Winona, Minn. Leg make-up. 407,842; June 27. Class 6.
Wawak Company Inc., Chicago, Ill. Piece goods. 407,832–3; June 27. Class 42.
West-Craft Manufacturing Company. (See Clute, Edgar W.)
Wimelbacher & Rice, assignor to Newton J. Rice, doing business as Wimelbacher & Rice, New York, N. Y. Gloves. 191,011; renewed Oct. 28, 1944.
Wolfsie, Irving. (See Wolfsie Knitting Mills, Inc.)
Wolfsie Knitting Mills, Inc., New York, to Irving Wolfsie, New Rochelle and New York, N. Y., successor. Knitted sweaters, knitted scarfs, knitted ties, etc. 185,761; renewed June 24, 1944.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. United Coal & Dock Company. 186,461; renewed July 8, 1944.
Coal. Weston Dodson & Co. 190,977; renewed Oct. 28, 1944.
Leather. A. C. Lawrence Leather Company. 188,407; renewed Aug. 26, 1944.

CLASS 2

Bags, Paper. Southern Advance Bag & Paper Co. Inc. 407,771; June 27; Serial No. 463,945; published Apr. 18, 1944.
Galvanized, enameled, and japan ware. Cincinnati Galvanizing Company. 187,429; renewed Aug. 5, 1944.

CLASS 3

Handbags and haversacks. Phelps Associates. 407,823; June 27; Serial No. 467,465; published Apr. 18, 1944.
Leather goods. B. Bahr. 407,804; June 27; Serial No. 466,823; published Apr. 18, 1944.

CLASS 4

Polishing and buffing compound. E. Reed Burns Mfg. Corp. 190,445; renewed Oct. 14, 1944.

CLASS 6

Agent for use in the treatment of bacterial infections, Chemotherapeutic. Parke, Davis & Company. 407,811; June 27; Serial No. 467,046; published Apr. 11, 1944.
Beauty and toilet preparations, etc. Gaby, Inc. 402,789; June 27; Serial No. 466,198; published Apr. 11, 1944.
Body powder, talc, sachet. R. Hudnut. 407,766; June 27; Serial No. 462,342; published Apr. 11, 1944.
Chemicals, Prepared. No-Flame Chemical Corporation. 407,853; June 27.
Chlorinated organic compounds. Halowax Corporation. 186,048; renewed July 1, 1944.
Dentifrice, Antiseptic. Boxygen Laboratories Limited. 407,752; June 27; Serial No. 451,403; published Aug. 25, 1942.
Deodorant, Perfumed. Farel Destin, Inc. 407,749; June 27; Serial No. 434,061; published Nov. 9, 1943.
Face powder, dusting powder, toilet water, etc. Coty, Inc. 407,810; June 27; Serial No. 466,940; published Apr. 11, 1944.
Flour-enriching compositions. Novadel-Agene Corporation. 407,826; June 27.
Foam bath, lipsticks, toilet water, etc. Allied Toiletries, Inc. 407,776; June 27; Serial No. 464,804; published Apr. 11, 1944.
Fuel component, Motor. General Motors Chemical Company. 187,410; renewed Aug. 5, 1944.
Insecticides, and specifically ant poison. McKesson & Robbins, Incorporated. 407,784; June 27; Serial No. 465,743; published Apr. 11, 1944.
Laxative cold tablets, headache tablets, catarrhal cream, etc. E. C. DeWitt & Co. Inc. 190,422; renewed Oct. 14, 1944.
Leg make-up. J. R. Watkins Company. 407,842; June 27.
Lipstick and rouges. Farel Destin, Inc. 407,791; June 27; Serial No. 466,375; published Apr. 11, 1944.
Lipstick, rouge, antiperspirant, etc. Associated Distributors. 407,797–8; June 27; Serial Nos. 466,716–17; published Apr. 11, 1944.
Medical preparation. Physicians & Hospitals Supply Company. 407,767; June 27; Serial No. 462,594; published Jan. 4, 1944.
Perfumes. Jay-Thorpe, Inc. 188,741; renewed Sept. 2, 1944.
Pills, Laxative. M. S. Asbell. 184,218; renewed May 20, 1944.
Preparations for dissolving and removing rust and for rust prevention. R. Schaller. 407,779; June 27; Serial No. 465,298; published Apr. 11, 1944.
Preparations, Toilet. Larkin Store Corporation. 407,755; June 27; Serial No. 456,311; published Apr. 11, 1944.
Remedy for coughs. Davis & Lawrence Co. 407,854; June 27.
Toilet water. Pinaud Incorporated. 407,837; June 27.
Tonic, Nutritive. C. E. Jamieson & Co. 407,759; June 27; Serial No. 459,118; published June 1, 1943.
Water softener. F. E. Everson. 407,780; June 27; Serial No. 465,288; published Apr. 11, 1944.

CLASS 7

Rope, Wire. Waterbury Company. 185,331; renewed June 10, 1944.
Twine, Seine. Empire Twine and Yarn Co. Inc. 407,765; June 27; Serial No. 462,180; published Apr. 18, 1944.

CLASS 8

Pipes and cigar and cigarette holders. Dasco Import Co. 187,893; renewed Aug. 12, 1944.

CLASS 9

Rifles and submachine guns. Harrington & Richardson Arms Company. 407,869; June 27.

CLASS 10

Fertilizer. Knoxville Fertilizer Company. 184,864; renewed June 3, 1944.

CLASS 11

Typewriter ribbon. Addressograph-Multigraph Corporation. 407,820; June 27; Serial No. 467,390; published Apr. 18, 1944.

CLASS 12

Asphalt and asbestos roof coating, Liquid. Central Chemical Corporation of Maryland. 407,793; June 27; Serial No. 466,428; published Apr. 18, 1944.
Bricks and high-temperature cement, Refractory. L. B. Botfield. 190,868; renewed Oct. 28, 1944.
Felt, Heat-insulating. Johns-Manville Incorporated. 185,792; renewed June 24, 1944.
Lath, Metal. Goldsmith Metal Lath Company. 190,832; renewed Oct. 28, 1944.
Poles, Treated wood. Page & Hill Co. 407,792; June 27; Serial No. 466,414; published Apr. 18, 1944.
Steel bars, Re-inforcing. Inland Steel Company. 407,795; June 27; Serial No. 466,532; published Apr. 18, 1944.

CLASS 13

Bathroom fixtures. Fairfacts Company. 186,728; renewed July 22, 1944.
Bread supporting and slicing board, Combined. P. D. Arnold. 407,830; June 27.
Hydrants, street washers, drinking fountains, etc. Murdock Mfg. & Supply Company. 190,587; renewed Oct. 14, 1944.
Pulleys, awning blocks, anchor trip hooks, etc. Cord. Durkee Marine Products Corporation. 407,788; June 27; Serial No. 466,074; published Apr. 18, 1944.
Spring washers. Philadelphia Steel and Wire Corporation. 407,799–800; June 27; Serial Nos. 466,741–2; published Apr. 18, 1944.
Table tops, chemical pans, washtub covers, etc. Vitreous Enameling Company. 190,584; renewed Oct. 14, 1944.
Table tops, chemical pans, washtub covers, etc. Vitreous Enameling Company. 190,867; renewed Oct. 28, 1944.
Urinals, closets, lavatories, etc. D. A. Ebinger Sanitary Mfg. Co. 190,125; renewed Oct. 7, 1944.

CLASS 14

Alloy, Ferrous and a non-ferrous. Titanium Alloy Manufacturing Company. 407,754; June 27; Serial No. 455,893; published Apr. 4, 1944.
Metallic product. A. Chanosky. 407,768; June 27; Serial No. 462,846; published Apr. 4, 1944.
Steel. American Steel Foundries. 185,375; renewed June 17, 1944.

CLASS 16

Liquid chemical, Protective. Kepec Company. 190,746; renewed Oct. 21, 1944.
Varnish. Berry Brothers, Limited. 25,141; re-renewed Aug. 14, 1944.

CLASS 19

Journal boxes, truck side frames, draft-rigging parts, etc. T. H. Symington Company. 186,307; renewed July 8, 1944.
Trucks, Motor shop. Crescent Truck Company. 407,844; June 27.

CLASS 20

Linoleum, Inlaid. Nairn Linoleum Company. 189,840; renewed Sept. 30, 1944.

CLASS 21

Electric bulbs, Incandescent. Tulite Auto Bulb Company. 190,687; renewed Oct. 21, 1944.
Electric motors. Star Electric Motor Company. 407,786; June 27; Serial No. 465,993; published Apr. 18, 1944.
Electrical or electrically-operated switches. Tork Company. 183,410; renewed Apr. 29, 1944.
Electrical parts for automobiles. Kem Manufacturing Co. 407,850; June 27.
Electrically-operated floor scrubbing, polishing, scraping, and grinding machines. Ponsell Floor Machine Company. 190,675; renewed Oct. 21, 1944.
Lighting fixtures. Seattle Lighting Fixture Co. 190,667; renewed Oct. 21, 1944.
Products in which tungsten is a principal ingredient. Cleveland Tungsten, Inc. 407,762; June 27; Serial No. 460,951; published Apr. 18, 1944.

CLASS 22

Dolls and toy animals, Stuffed. Ideal Novelty & Toy Co. 407,819; June 27; Serial No. 467,342; published Apr. 18, 1944.
Footballs, basket balls, striking bags, etc. B. F. Goodrich Company. 407,803; June 27; Serial No. 466,792; published Apr. 18, 1944.
Toy kazoos. I. Dahevsky. 407,787; June 27; Serial No. 466,007; published Apr. 18, 1944.
Toy machine guns. L. A. Spielman. 407,785; June 27; Serial No. 465,765; published Apr. 18, 1944.
Toy miniature U. S. Army "Jeep" construction kit. E. W. Clute. 407,806; June 27; Serial No. 466,875; published Apr. 18, 1944.
Toys, Action. Firestone Tire & Rubber Company. 407,763; June 27; Serial No. 461,629; published Apr. 18, 1944.

CLASS 23

Tractors, Industrial. W. F. Hebard & Co. 407,827; June 27.

CLASS 26

Apparatus for testing insulating coatings. D. E. Stearns. 407,778; June 27; Serial No. 464,982; published Apr. 8, 1944.
Autoclaves, valves, fittings, etc., Specially designed. American Instrument Company. 407,774; June 27; Serial No. 464,462; published Apr. 18, 1944.
Electrical apparatus. Submarine Signal Company. 407,775; June 27; Serial No. 464,523; published Apr. 18, 1944.
Frames, Optical. Ward Manufacturing Co. 407,751; June 27; Serial No. 450,926; published July 21, 1942.
Globes, terrestrial globe supports or bases, and parts thereof, Terrestrial. Rand McNally & Company. 407,757–8; June 27; Serial Nos. 458,404–5; published Apr. 18, 1944.
Instruments for examining metals. Allen B. Du Mont Laboratories, Inc. 407,783; June 27; Serial No. 465,740; published Apr. 18, 1944.
Testing apparatus for testing hermetic seals and X-ray apparatus. North American Phillips Company, Inc. 407,777; June 27; Serial No. 464,950; published Apr. 18, 1944.

CLASS 27

Clocks. Tork Company. 182,046; renewed Apr. 1, 1944.

CLASS 28

Jewelry. Rebajes, Inc. 407,852; June 27.

CLASS 29

Brushes. Ox Fibre Brush Company. 182,922; renewed Apr. 22, 1944.
Brushes. Ox Fibre Brush Company. 182,923; renewed Apr. 22, 1944.

CLASS 31

Storage cabinets, and parts thereof, Freezer. Air Comfort Corporation. 407,817; June 27; Serial No. 467,220; published Apr. 18, 1944.

CLASS 32

Bins, cabinets, cases, etc., Display. Joseph H. Meyer Bros. 407,753; June 27; Serial No. 454,509; published Apr. 18, 1944.
Cabinets for radios, cabinets for combination radios and phonographs, etc. Admiral Corporation. 407,816; June 27; Serial No. 467,218; published Apr. 18, 1944.

CLASS 34

Heaters, Gas water. Bastian-Morley Co. 185,167; renewed June 10, 1944.
Radiator covers. Art Metal Products Company. 190,889; renewed Oct. 28, 1944.

CLASS 35

Tires, Elastic vehicle. Seiberling Rubber Company. 188,590; renewed Sept. 2, 1944.
Tubing, Rubber. Metropolitan Device Corporation. 188,931; renewed Sept. 9, 1944.

CLASS 36

Phonograph records. Decca Records, Inc. 407,772; June 27; Serial No. 463,991; published Nov. 23, 1943.

CLASS 37

Paper, antique paper, and bulking book paper, Mimeograph print. Mead Sales Company. 184,204; renewed May 20, 1944.
Paper, writing paper, envelopes, etc., Typewriting. Wansco Paper Products Co. Inc. 407,866; June 27.

CLASS 38

Bulletin. Masonic Service Association of the United States. 407,840; June 27.
Calendars. Fort Wayne Printing Company. 407,870–1; June 27.
Magazine, Weekly. American Field Publishing Co. 190,361; renewed Oct. 14, 1944.
Publication. Caldwell-Clements, Inc. 407,835; June 27.

CLASS 39

Aprons, Women's and misses' textile. L. Nachman & Sons. 407,802; June 27; Serial No. 466,766; published Apr. 18, 1944.
Buntings, sleeping bags, robes, etc., Baby. New Mode Infants Wear Co. Inc. 407,857; June 27.
Coats and suits, Ladies'. L. Heller. 407,761; June 27; Serial No. 459,835; published June 15, 1943.
Coats and suits, Ladies' and misses. Siegel Bros. Garment Corp. 407,868; June 27.
Coats, Girls' and misses'. Smart Maid Coat Co. Inc. 407,834; June 27.
Coats, suits, sportswear, Women's. Mabley and Carew Company. 407,836; June 27.
Collars. Cluett, Peabody & Co. 407,856; June 27.
Corsets and girdles. Franco Corset Co. 191,028; renewed Oct. 28, 1944.
Dresses and ladies' and men's suits, trousers, and coats, Ladies'. Fields Clothes, Inc. 407,848; June 27.
Gloves. Wimelbacher & Rice. 191,011; renewed Oct. 28, 1944.

Handkerchiefs. New York Handkerchief Manufacturing Co. 186,449; renewed July 8, 1944.
Hats, Men's. Melton Hat Company. 407,841; June 27.
Hosiery. Berkshire Knitting Mills. 407,846; June 27.
Hosiery. Chipman Knitting Mills. 189,317; renewed Sept. 16, 1944.
Hosiery. Chipman Knitting Mills. 190,016; renewed Sept. 30, 1944.
Hosiery. Chipman Knitting Mills. 190,256; renewed Oct. 7, 1944.
Hosiery. Harriman Hosiery Mills. 407,855; June 27.
Hosiery, Men's. R. L. James and Son. 407,872; June 27.
Mufflers, scarfs and men's neckties. Trabulsi Textile Co. 407,839; June 27.
Raincoats, Ladies'. Spatz Bros., Inc. 407,824; June 27; Serial No. 467,544; published Apr. 18, 1944.
Shoes and boots. La Crosse Rubber Mills Co. 189,337; renewed Sept. 16, 1944.
Shoes and slippers. Garfield & Rosen. 407,838; June 27.
Shoes and slippers. Johnstown Wool Shoe Co. 191,041; renewed Oct. 28, 1944.
Skirts, Girls' and women's. J. Koret. 407,831; June 27.
Suits and coats. Sweet-Orr & Co. 191,033; renewed Oct. 28, 1944.
Sweaters, knitted scarfs, knitted ties, etc., Knitted. Wolfsie Knitting Mills, Inc. 185,761; renewed June 24, 1944.
Underwear, Ladies'. A. Jaffin. 407,849; June 27.
Underwear, Misses' and ladies'. M. Kandel. 407,843; June 27.

CLASS 40

Combs and barrettes. Ben-Hur Products, Inc. 407,865; June 27.

CLASS 42

Cotton piece goods. Riverside & Dan River Cotton Mills, Inc. 407,769; June 27; Serial No. 463,331; published Apr. 18, 1944.
Cotton piece goods, rayon piece goods, etc. Clarence S. Brown & Co. 407,812; June 27; Serial No. 467,086; published Apr. 18, 1944.
Cotton plaids and checks, cotton sheetings, etc. Riverside & Dan River Cotton Mills, Inc. 407,813; June 27; Serial No. 467,171; published Apr. 18, 1944.
Fabrics. N. Erlanger, Blumgart & Co. Inc. 407,773; June 27; Serial No. 464,249; published Apr. 18, 1944.
Fabrics in the piece, Silk and rayon. Roth Fabrics Corporation. 407,809; June 27; Serial No. 466,934; published Apr. 11, 1944.
Fabrics, Piece textile. Duplan Corporation. 407,756; June 27; Serial No. 458,206; published Apr. 18, 1944.
Fabrics, Textile. Everfast Fabrics, Inc. 407,861–2; June 27.
Fabrics, Woolen and worsted. I. Smith. 407,801; June 27; Serial No. 466,748; published Apr. 18, 1944.
Piece goods. Cohn-Hall-Marx Co. 407,851; June 27.
Piece goods. Meadtex Fabrics Co. 407,764; June 27; Serial No. 461,823; published Oct. 19, 1943.
Piece goods. Rosenstein Bros. 407,829; June 27.
Piece goods. Wawak Company, Inc. 407,832–3; June 27.
Piece goods, Cotton. American Bleached Goods Company. 189,907; renewed Sept. 30, 1944.
Rugs and carpets. Aldon Rug Mills. 407,864; June 27.
Sheeting, sheets and pillow cases. Riverside & Dan River Cotton Mills, Inc. 407,814; June 27; Serial No. 467,172; Apr. 18, 1944.
Towels, Bath. H. W. Baker Linen Company. 407,858; June 27.

CLASS 43

Yarns. M. A. Buckley. 407,822; June 27; Serial No. 467,426; published Apr. 18, 1944.
Yarns, Wool. Bernhard Ulmann Co. Inc. 407,815; June 27; Serial No. 467,181; published Apr. 18, 1944.

CLASS 44

Acrylic materials. H. D. Justi & Son, Inc. 407,808; June 27; Serial No. 466,915; published Apr. 18, 1944.
Dental alloys. Gawmal Incorporated. 407,770; June 27; Serial No. 463,515; published Apr. 18, 1944.
Dental materials. Coralite Dental Products Company. 407,818; June 27; Serial No. 467,289; published Apr. 18, 1944.
Pads, callous and bunion pads, corn files, etc., Corn. Forest City Products, Inc. 407,760; June 27; Serial No. 459,540; published Apr. 18, 1944.
Pads or sheets, Absorbent. Cellucotton Products Company. 190,517; renewed Oct. 14, 1944.
Shields and sinus compressors, Eye. M. M. Quering. 407,781; June 27; Serial No. 465,369; published Apr. 18, 1944.

CLASS 45

Beverage and compound for making the same, Non-alcoholic maltless. J. C. Eno (U. S.), Limited. 407,750; June 27; Serial No. 441,393; published Apr. 11, 1944.

CLASS 46

Alfalfa meal. Denver Alfalfa Milling & Products Co. 190,738; renewed Oct. 21, 1944.
Candy. Curtiss Candy Company. 188,495; renewed Aug. 26, 1944.
Candy. Loft, Incorporated. 190,945; renewed Oct. 28, 1944.
Candy. Metro Chocolate Co. 187,248; renewed July 29, 1944.
Candy and candy bars. Curtiss Candy Company. 186,802; renewed July 22, 1944.
Canned fruits and fruit preserves, canned vegetables, etc. Royal Blue Stores, Inc. 190,839; renewed Oct. 28, 1944.
Canned fruits and vegetables. Fackler, Langford & Taylor. 407,807; June 27; Serial No. 466,877; published Apr. 18, 1944.
Citrus fruit product, Packaged. C. H. C. Van Pelt. 407,847; June 27.
Coffee. J. Martinson. 190,897; renewed Oct. 28, 1944.
Coffee extract. Baker Importing Company. 407,796; June 27; Serial No. 466,635; published Apr. 18, 1944.
Extracts, Food-flavoring. A. S. Hull. 185,274; renewed June 10, 1944.
Feed, Dairy. Triangle Grain Company, Ltd. 407,828; June 27.
Feed for animals. General Mills, Inc. 407,782; June 27; Serial No. 465,599; published Apr. 18, 1944.
Feed, Horse and mule. Allied Mills, Inc. 407,794; June 27; Serial No. 466,473; published Apr. 18, 1944.
Flour, Wheat. Hanover Star Milling Company. 186,429; renewed July 8, 1944.
Flour, Wheat. Hanover Star Milling Company. 186,436; renewed July 8, 1944.
Fruits, Fresh citrus. Tapo Citrus Association. 190,902; renewed Oct. 28, 1944.
Fruits, Fresh citrus. Johnson Fruit Company. 190,959; renewed Oct. 28, 1944.
Olives. Acme Olive Company. 407,805; June 27; Serial No. 466,872; published Apr. 18, 1944.
Paste products and matzoths, Alimentary. A. Goodman & Sons, Inc. 183,430; renewed Apr. 29, 1944.
Sauce, Soya bean. G. Y. Padano. 407,790; June 27; Serial No. 466,315; published Apr. 18, 1944.
Sugar, Corn. Anheuser-Busch, Inc. 190,695; renewed Oct. 21, 1944.
Vegetables, Fresh. Self & Jancik. 407,821; June 27; Serial No. 467,407; published Apr. 18, 1944.
Vegetables, Fresh. J. L. Thompson. 407,825; June 27; Serial No. 467,626; published Apr. 18, 1944.

CLASS 47

Wines. Lucien Ardin, Inc. 407,845; June 27.
Wines. Beaulieu Vineyard. 407,867; June 27.
Wines. Chateau Montelena, Inc. 407,873; June 27.

CLASS 49

Brandy. R. U. Delapenha & Co. Inc. 407,859; June 27.
Brandy. R. U. Delapenha & Co. Inc. 407,863; June 27.
Whiskey. Duggan's, Limited. 407,860; June 27.

CLASS 50

Fabric, Sheet. Respro Inc. 190,853; renewed Oct. 28, 1944.
Leather, Manufactured or substitute. Respro Inc. 190,858; renewed Oct. 28, 1944.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Campbell, John H., Cleveland Heights, Ohio, assignor to General Electric Company. Circuit for electric discharge devices. Re. 22,503; June 27.

Earle, Ralph H., Wauwatosa, and A. G. Steinmayer, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Lightning arrester. Re. 22,504; June 27.

Eaton, George R., Antioch, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. Re. 22,505; June 27.

General Electric Company. (See Campbell, John H., assignor.)

General Electric Company. (See Hahn, William C., assignor.)

Griffith, Le Roy A. (See Kutzler, R. J., and Griffith.)

Hahn, William C., Scotia, N. Y., assignor to General Electric Company. Electrical discharge device. Re. 22,506; June 27.

Heigis, Henry E., Nutley, assignor to Specialties Development Corporation, Bloomfield, N. J. Cylinder rack. Re. 22,507; June 27.

Kellogg Switchboard and Supply Company. (See Eaton, George R., assignor.)

Kutzler, Robert J., and L. A. Griffith, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor control system. Re. 22,508; June 27.

Line Material Company. (See Earle, R. H., and Steinmayer, assignors.)

Minneapolis-Honeywell Regulator Company. (See Kutzler, R. J., and Griffith, assignors.)

Specialties Development Corporation. (See Helgis, Henry E., assignor.)

Steinmayer, Alwin G. (See Earle, R. H., and Steinmayer.)

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc. (See Lammerts, Walter E., assignor.)

Bowers, William I., Yakima County, Wash. Apricot tree. 630; June 27.

Lammerts, Walter E., West Los Angeles, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 631; June 27.

Lammerts, Walter E., West Los Angeles, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 632; June 27.

LIST OF DESIGN PATENTEES

Allied Purchasing Corporation, et al. (See Kramer, Ferdinand, assignor.)

Baine, Moses H., San Antonio, Tex. Teething ring. 138,168; June 27.

Barbel, Jacob, New York, N. Y. Jacket. 138,175; June 27.

Benner, Samuel, Milwaukee, Wis. Billfold. 138,134; June 27.

Benner, Samuel, Milwaukee, Wis. Billfold. 138,135; June 27.

Britton, Arthur T., Santa Clara, Calif. Connecting rod. 138,136; June 27.

Brown, John F., Los Angeles, Calif. Pickle fork. 138,137; June 27.

Burg, Julia T., Detroit, Mich. Clothes stick. 138,138; June 27.

Conway, Sydney A., Bloomfield, N. J. Beverage cooler. 138,139; June 27.

Davidson, Clinton J., San Diego, Calif. Rubber ball. 138,150; June 27.

Dennison Manufacturing Company. (See Foster, Joan, assignor.)

Foster, Joan, assignor to Dennison Manufacturing Company, Framingham, Mass. Jewelry case or the like. 138,151; June 27.

Furst, Clifford A., New York, N. Y. Brooch or similar article. 138,141; June 27.

Geffner, Samuel H., New York, N. Y. Slip or similar article. 138,171; June 27.

Gerstel, Fred V., et al. (See Kramer, Ferdinand, assignor.)

Gilman, Wilbert M., Wellesley Hills, Mass., assignor to Standard Machinery Company, Cranston, R. I. Tachometer. 138,152; June 27.

Goldstein, Aaron A., assignor to The Gomco Surgical Manufacturing Corporation, Buffalo, N. Y. Nose and throat treatment cabinet. 138,142; June 27.

Goldstein, David D., Pittsburgh, Pa. Shoe or similar article. 138,153; June 27.

Goldstein, David D., Pittsburgh, Pa. Shoe or similar article. 138,154; June 27.

Goldstein, David D., Pittsburgh, Pa. Shoe or similar article. 138,155; June 27.

Goldstein, David A., Pittsburgh, Pa. Shoe or similar article. 138,156; June 27.

Gomco Surgical Manufacturing Corporation, The. (See Goldstein, Aaron A., assignor.)

Halpern, Joseph, New York, N. Y. Handbag frame or similar article. 138,157; June 27.

Hirst, George R., Merchantville, N. J. Toy telephone. 138,158; June 27.

Kramer, Ferdinand, Port Chester, assignor to Allied Purchasing Corporation, F. V. Gerstel, New York, F. Kramer, Port Chester, and P. M. Mazur, New York, N. Y. Combined folding stand and serving tray. 138,159; June 27.

Lindbloom, Charles V., Cranford, N. J. Borescope. 138,143; June 27.

Lins, Carl G., assignor of one-half to S. R. Walcott, Tuckahoe, N. Y. Marble game board. 138,160; June 27.

Lutze, Burt M., Flint, Mich. Rotary head ventilator for flues or stacks. 138,172; June 27.

Lynn, Robert M., Pasadena, Calif. Electric switch. 138,161; June 27.

Matthews, Edward, Denver, Colo. Wrench. 138,173; June 27.

Maurette, René G., Beverly, Mass. Fluorescent lighting fixture. 138,162; June 27.

May, Lovell H., St. Paul, Minn. Sandal sole. 138,163; June 27.

Mazur, Paul M., et al. (See Kramer, Ferdinand, assignor.)

Meltzer, Jack, New York, N. Y. Sandal or similar article. 138,169; June 27.

Meters & Pumps, Inc. (See Von Cseh, Louis L., assignor.)

Pieper, Alphonse F., Brighton, N. Y. Electric lamp. 138,164; June 27.

Pool, Clarence, Rivera, Calif. Valve check. 138,144; June 27.

Ratner, Richard, New York, N. Y. Bottle or the like. 138,165; June 27.

Rubel, John, New York, N. Y. Separable bracelet. 138,174; June 27.

Salsky, Samuel, New York, N. Y. Dress. 138,176; June 27.

Salvage, Edward. (See Weber, R., and Salvage.)

Simmons, Edward N., Chicago, Ill. Fabric patch mending machine. 138,166; June 27.

Standard Machinery Company. (See Gilman, Wilbert M., assignor.)

Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 138,145; June 27.

Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 138,146; June 27.

Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 138,147; June 27.

Von Csch, Louis L., East Cleveland, assignor to Meters & Pumps, Inc., Cleveland, Ohio. Electric toaster. 138,140; June 27.

Walcott, Stuart R. (See Lins, Carl G., assignor.)

Weber, Robert, and E. Salvage, New York, N. Y. Optical frame. 138,148; June 27.

Welch, Earl J., Lorain, Ohio. Combination jar lid lifter and bottle cap remover. 138,167; June 27.

Wolf, Morris, New York, N. Y. Combined muff and handbag or similar article. 138,149; June 27.

Wood, John, Manufacturing Company. (See Woodford, Joseph C., assignor.)

Woodford, Joseph C., Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Pump. 138,170; June 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. P. W. Paper Co. (See Sherman, John C., assignor.)

Adel Precision Products Corp. (See Ellinwood, Herman R., assignor.)

Advance Engineering Company. (See Leline, Arnold W., assignor.)

Aerni, Clarence L., Ferriday, La. Tire guard for straddle trucks. 2,352,464; June 27.

Aero Service Corporation. (See Schuch, E. A., and Masino, assignors.)

Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hoist control mechanism. 2,352,241; June 27.

Air Reduction Company. (See Anderson, James L., assignor.)

Air Reduction Company. (See Hughey, Howard G., assignor.)

Albertson, Victor N., Minneapolis, Minn. Auto parts washer. 2,352,356; June 27.

Alexander, Charles B., Melbourne, Victoria, Australia. Combination mathematical instrument. 2,352,169; June 27.

Alien Property Custodian. (See Grabec, Josef A.)

Alien Property Custodian. (See Kienzlé, Jean A. P.)

Alien Property Custodian. (See Kleine, Johannes.)

Alien Property Custodian. (See Lang, R., and Koch.)

Alien Property Custodian. (See Mautsch, Robert.)

Allbright-Nell Company, The. (See Meyers, Carl G., assignor.)

Aller, Willis F., and L. J. Mahlmeister, assignors to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,352,507; June 27.

Allied Chemical & Dye Corporation. (See Greenburg, Richard B., assignor.)

Almond, John R., assignor to The Midland Steel Products Company, Cleveland, Ohio. Pneumatically assisted hydraulic brake system. 2,352,357; June 27.

Alvey, Le Roy E. (See Bullard, E. P., III, Alvey, and Mussler.)

American Brake Shoe Company. (See Pogue, R. B., and Trainer, assignors.)

American Brake Shoe Company. (See Trainer, Maurice N., assignor.)

American Diagrid Corporation. (See Szego, Stephen D., assignor.)

American Electro Metal Corporation. (See Goetzel, Claus G., assignor.)

American Hoist & Derrick Company. (See Ljungkull, Rolf E., assignor.)

American Machine and Metals, Inc. (See Bassett, Rex E., Jr., assignor.)

American Nepheline Corporation. (See Hubler, William G., assignor.)

Anaconda Wire and Cable Company. (See Engh, Harold V., assignor.)

Anastasoff, Vladimir. (See Weiss, F. T., and Anastasoff.)

Andersen, Andrew C., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Adjustable automobile seat. 2,352,358; June 27.

Anderson, Carl L., assignor to Eagle Signal Corporation, Moline, Ill. Timing mechanism. 2,352,156; June 27.

Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Tube welding and smoothing. 2,352,306; June 27.

Anderson, Leslie J., Haddonfield, N. J., assignor to Radio Corporation of America. Microphone. 2,352,305; June 27.

Anderson, Maurice K., Seattle, Wash. Flexible foot foundation. 2,352,170; June 27.

Anderson, Max L., Los Angeles, Calif. Faucet spray nozzle. 2,352,359; June 27.

Anderson, Richard T., St. Paul, and C. Olson, Minneapolis, Minn. Door latch. 2,352,465; June 27.

Anfinson, Anton, assignor of one-third to O. E. Artus and W. Bentley, Deadwood, S. Dak. Window. 2,352,171; June 27.

Angus, William C. (See Bell, A. S., and Angus.)

Apstein, Maurice, Brooklyn, N. Y. Potential recording marker. 2,352,242; June 27.

Archer, John, Woodford, assignor to English Steel Corporation Limited, Vickers Works, Sheffield, Yorkshire, England. Adjustable reamer. 2,352,508; June 27.

Arey, Alton L., East Cleveland, Ohio. Faucet washer. 2,352,307; June 27.

Arps, Bruno F., assignor to Arps Corporation, New Holstein, Wis. Power pickup and dumping scraper attachment for tractors. 2,352,466; June 27.

Arps Corporation. (See Arps, Bruno F., assignor.)

Art Metal Works, Inc. (See Harris, Alexander, assignor.)

Artus, Oren E., et al. (See Anfinson, Anton, assignor.)

Askania Regulator Company. (See Ziebolz, H., and Vaaler, assignors.)

Auer, László, East Orange, assignor to Ridbo Laboratories, Inc., Paterson, N. J. Protective and decorative coating. 2,352,172; June 27.

Auer, László, East Orange, assignor to Ridbo Laboratories, Inc., Paterson, N. J. Lacquer. 2,352,173; June 27.

Auto Research Corporation. (See Kocher, Edward H., assignor.)

Autogiro Company of America. (See Pitcairn, Harold F., assignor.)

Automatic Electric Laboratories, Inc. (See Ostline, John E., assignor.)

Automotive Products Company Limited. (See Carlton, Quintin H., assignor.)

Ayers, Fred L., Watertown, Mass. Inseam fastening machine. 2,352,509; June 27.

Ayers, Fred L., Watertown, Mass. Innersole and making the same. 2,352,510; June 27.

Baier, Ludwig S., Portland, Oreg. Plywood life boat. 2,352,360; June 27.

Bailey, Robert A., Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Lateral control system for aircraft. 2,352,308; June 27.

Baker, David B. (See Scarratt, A. W., Baker, and Hagen.)

Baldwin, Harold S., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Transparency mount. 2,352,243; June 27.

Ballestero, Manuel E., Baltimore, Md. Educational article. 2,352,361; June 27.

Bardwell & McAlister, Inc. (See Rose, Jess C., assignor.)

Barrows, Donald S., assignor to The Symington-Gould Corporation, Rochester, N. Y. Antiskidding device. 2,352,174; June 27.

Bassett, Rex E., Jr., South Bend, Ind., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill. Laundry machine. 2,352,362; June 27.

Bassett, Rex E., Jr., Miami Beach, Fla., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill. Laundry machine. 2,352,363; June 27.

Batkin, Herbert William, near Whitchurch, assignor to Salopian Engineers, Limited, Whitchurch, England. Coupling means for connecting horsedrawn vehicles to tractors. 2,352,511; June 27.

Bauder, Raymond E., Chicago, Ill. Bank account expediter. 2,352,175; June 27.

Baum, Albert. (See Marcus, W., and Baum.)

Bausch & Lomb Optical Company. (See Holman, Arthur J., assignor.)

Bedford, Clay P., Berkeley, Calif. Welding. 2,352,364; June 27.

Bell, Angus S., and W. C. Angus, Spondon, near Derby, England, assignors to Celanese Corporation of America. Textile material. 2,352,244; June 27.

Bell, Angus S., and W. C. Angus, Spondon, near Derby, England, assignors to Celanese Corporation of America. Textile material and the production thereof. 2,352,245; June 27.

Bell Telephone Laboratories, Incorporated. (See Bishop, Walter M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Curtis, Harold E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lang, W. Y., and Singer, assignors.)

Bell Telephone Laboratories, Incorporated. (See Large, W. V. K., Lucek, and Marshall, assignors.)

Bell Telephone Laboratories, Incorporated. (See Wagenseil, William O., assignor.)

Bendix Aviation Corporation. (See Hyland, Lawrence A., assignor.)

Bendix Aviation Corporation. (See Jandasek, Joseph, assignor.)

Bendix Aviation Corporation. (See Joseph, Francis M., assignor.)

Benner, Raymond C., and W. G. Soley, assignors to The Carborundum Company, Niagara Falls, N. Y. Making abrasive articles. 2,352,246; June 27.

Bennett, Richard, Phoenix, Ariz. Fluid meter. 2,352,157; June 27.

Benson, Melvin B., Scotch Plains, assignor to Lidgerwood Manufacturing Company, Elizabeth, N. J. Towing machine. 2,352,309; June 27.

Bentley, William, et al. (See Anfinson, Anton, assignor.)

Berkenbosch, Rinke. (See Hoeffelman, J. M., and Berkenbosch.)
Berninger, Kenneth L. (See Martin, T. B., and Berninger.)
Bishop, Walter M., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Deep sea apparatus housing. 2,352,158; June 27.
Blaine, Clarence C. (See Titus, B. D., and Blaine.)
Blau, Ludwig W., and G. E. Cannon, Houston, Tex., assignors to Standard Oil Development Company. Thermal well-logging. 2,352,247; June 27.
Bloch, Herman S. (See Thomas, C. L., and Bloch.)
Bocksruker, Alexander F. (See Land, H. A., and Bocksruker.)
Bogopolsky, Jacques, New York, N. Y., now by judicial change of name Jacques Bolsey. Photographic arrangement. 2,352,176; June 27.
Bolsey, Jacques. (See Bogopolsky, Jacques.)
Bolsey, Jacques, New York, N. Y. Mirror for reflex cameras. 2,352,177; June 27.
Bolsey, Jacques, New York, N. Y. Support for lens blanks and processes of securing lens blanks to said supports. 2,352,178; June 27.
Bolsey, Jacques, New York, N. Y. Lens centering device. 2,352,179; June 27.
Bolsey, Jacques, New York, N. Y. Machine for the treatment of lenses. 2,352,180; June 27.
Bolsey, Jacques, New York, N. Y. Camera with removable film magazine. 2,352,181; June 27.
Booth, Robert B., Springdale, Conn., and A. M. Webb, Bronxville, assignors to Chemical Construction Corporation, New York, N. Y. Recovery of fatty substances by froth flotation. 2,352,365; June 27.
Boyden, J. Hanson, et al. (See McFall, Robert J., assignor.)
Braloff, Henry E., Rockville Centre, N. Y. Fire extinguishing apparatus. 2,352,512; June 27.
Bramming, Carl, Anderson, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp socket and switch construction. 2,352,248; June 27.
Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Apparatus for refining residual petroleum stocks. 2,352,513; June 27.
Brass, Samuel. (See Worne, Howard E., assignor.)
Brett Lithographing Co. (See Lee, George N., assignor.)
Briggs, Robert L., Jr., Pasadena, Calif. Valve. 2,352,249; June 27.
Brodén, John G. M., Malmo, Sweden. Alarm apparatus. 2,352,467; June 27.
Brodersen, Max M., Alhambra, Calif., assignor to The Slusser-McLean Scraper Company, Sidney, Ohio. Traction power operated winch. 2,352,250; June 27.
Brodie, Ruthford E., Lanesboro, Mass., assignor to General Electric Company. Terminal structure. 2,352,159; June 27.
Brown, Alexander C., assignor to Emery Industries, Inc., Cincinnati, Ohio. Distillation. 2,352,160; June 27.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Filling cutting means. 2,352,366; June 27.
Brown, Hugh S., and S. T. Comfort, assignors to The Buda Company, Harvey, Ill. Railway crossing gate. 2,352,310; June 27.
Brown, Myrl L., Harrisburg, Pa., assignor to Camboseo Scientific Company, Boston, Mass. Educational apparatus. 2,352,182; June 27.
Brownlow, David B., assignor to The Russell Manufacturing Company, Middletown, Conn. Testing machine. 2,352,161; June 27.
Brunner, August H., Jr. (See Reckmeyer, V. H., and Brunner.)
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Unsaturated polynitriles and making same. 2,352,515; June 27.
Bruson, Herman A., and T. W. Riener, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Oximino ethers. 2,352,514; June 27.
Bruson, Herman A., and T. W. Riener, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Oximino ether. 2,352,516; June 27.
Buck, Foster. (See Walker, E. C., and Buck.)
Buckwalter, Tracy V., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Car truck. 2,352,162; June 27.
Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Car truck. 2,352,163; June 27.
Buda Company, The. (See Brown, H. S., and Comfort, assignors.)
Budd, Wilbert H. (See Schellenger, N. C., and Budd.)
Buffalo Foundry & Machine Co. (See Harcourt, G. N., and Lavett, assignors.)
Bujdossy, Ylona, Los Angeles, Calif. Brassière. 2,352,367; June 27.
Bullard Company, The. (See Bullard, Edward P., III, assignor.)
Bullard, Edward P., III, Fairfield, Conn., assignor to The Bullard Company. Control mechanism. 2,352,183; June 27.
Bullard, Edward P., III, Fairfield, Conn., assignor to The Bullard Company. Control mechanism. 2,352,184; June 27.
Bullard, Edward P., III, Fairfield, L. E. Alvey, Bridgeport, and F. H. Mussler, Stratford, Conn., assignors to The Bullard Company. Machine tool. 2,352,185; June 27.
Burnam, Thompson W., Inglewood, Calif. Drilling fluid. 2,352,468; June 27.
Burnett, Robert N., deceased, Monrovia, by S. Hoffmann, Glendale, Calif., executor. Valve. 2,352,368; June 27.
Burnham, Hugh D., Edwardsville, Ill., and F. T. Weiss, Normandy, Mo., assignors to Shell Development Company, San Francisco, Calif. Metal deactivator. 2,352,164; June 27.
Buzza, Henry M., assignor, by mesne assignments, to J. G. Hames, Toronto, Ontario, Canada. Positioning index for turret machines. 2,352,165; June 27.
Callaway Mills. (See Ott, Thomas O., Jr.)
Calleson, Amos and E. A., Merrick, N. Y., assignors, by mesne assignments, to Crown Can Company, Philadelphia, Pa. Valved container. 2,352,251; June 27.
Calleson, Edgar A. (See Calleson, Amos and E. A.)
Cambosco Scientific Company. (See Brown, Myrl L., assignor.)
Camburn, Elwyn A., assignor to Ronan & Kunzl, Marshall, Mich. Self-locking turnbuckle. 2,352,585; June 27.
Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Electric induction apparatus. 2,352,166; June 27.
Campbell, George D. (See Halbach, H. L., Campbell, and Koupal.)
Campbell, Leon W., Hendersonville, N. C. Drawing roll for spinning frames. 2,352,167; June 27.
Canetta, John, Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Sanding control means. 2,352,252; June 27.
Cannon, George E. (See Blau, L. W., and Cannon.)
Carborundum Company, The. (See Benner, R. C., and Soley, assignors.)
Cardox Corporation. (See Myers, Leonard D., assignor.)
Carew, Herman, Easton, Pa., assignor to Dixie Cup Company. Container making machine. 2,352,369; June 27.
Carlson, Bert G., Erieside, assignor to Jack & Heintz, Inc., Bedford, Ohio. Self-aligning and temperature compensating rotor bearing assembly. 2,352,469; June 27.
Carlton, Quintin H., assignor to Automotive Products Company Limited, Leamington Spa, England. Fluid pressure remote control system. 2,352,470; June 27.
Carruthers, Robert L., New Iberia, La. Derrick support for underwater drilling. 2,352,370; June 27.
Casey, Charles L., Chicago, Ill. Vending machine. 2,352,471; June 27.
Cashman, Aloysius F. (See Lieber, E., Sadlon, and Cashman.)
Caterpillar Tractor Co. (See Rosen, C. G. A., and Maxwell, assignors.)
Celanese Corporation of America. (See Bell, A. S., and Angus, assignors.)
Chase Brass & Copper Co. (See Reichenbach, Howard F., assignor.)
Chemical Construction Corporation. (See Booth, R. B., and Webb, assignors.)
Chicago Telephone Supply Company. (See Schellenger, N. C., and Budd, assignors.)
Christensen, Leo M., Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y. Promoting mold growth. 2,352,168; June 27.
Christensen, Paul M., Newington, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Thermal circuit breaker. 2,352,517; June 27.
Church, Walter L., assignor of one-half to C. Ware, Houston, Tex. Packer assembly. 2,352,423; June 27.
Ciba Pharmaceutical Products Incorporated. (See Reichstein, Tadeus, and Frey, assignors.)
Cities Service Oil Company. (See Brandt, David G., assignor.)
Clarke, John E., assignor to Magnoflux Corporation, Chichago, Ill. Magnetic testing apparatus and method of magnetizing. 2,352,371; June 27.
Cochran, Joseph T., Chicago, Ill. Printing cut and making it. 2,352,518; June 27.
Cockerille, Frank O., Albemarle County, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of aliphatic acids and anhydrides. 2,352,253; June 27.
Colarusso, Gesuele, Old Boston Settlement, Pa. Hose clamp. 2,352,372; June 27.
Colt's Patent Fire Arms Manufacturing Company. (See Christensen, Paul M., assignor.)
Comfort, Samuel T. (See Brown, H. S., and Comfort.)
Comfort Spring Corporation. (See Rymland, M. J., and Lewis, assignors.)
Commercial Solvents Corporation. (See Robinette, Hillary, Jr., assignor.)
Compo Shoe Machinery Corporation. (See Dawson, Fred, assignor.)
Cone, James H. (See Knochel, W. J., and Cone.)
Consolidated Engineering Corporation. (See Olesen, Raymond C., assignor.)
Container Corporation of America, et al. (See Walton, Richard R., assignor.)

Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,352,472; June 27.
Corhart Refractories Company. (See Fulcher, G. S., and Field, assignors.)
Corrigan, John T., Newport, R. I. Variable pitch propeller. 2,352,186; June 27.
Cortese, Francesco P., Highland Park, Mich. Wrist attached purse. 2,352,473; June 27.
Costa, Joseph L., Hinsdale, Ill., and W. H. Kahler, Sayiesville, assignors to Manville Jenckes Corporation, Manville, R. I. Treatment of acid setting baths used in the manufacture of cellulose products from viscose. 2,352,519; June 27.
Cottrell, C. B., & Sons Company. (See Meyer, Joseph E., assignor.)
Crown Can Company. (See Calleson, Amos and E. A., assignors.)
Curtis, Harold E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency modulated wave transmission. 2,352,254; June 27.
Dain Manufacturing Company of Iowa. (See Jones, Frank D., assignor.)
Darli Industrial Management, Incorporated. (See Ligh, David R., assignor.)
Davis, Edward A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for spooling wrappings. 2,352,255; June 27.
Davis & Furber Machine Company. (See Rowe, Irving R., assignor.)
Dawson, Fred, West Roxbury, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Manufacture of footwear. 2,352,520; June 27.
Delta Manufacturing Company. (See Tautz, Herbert E., assignor.)
De Motte, Maurice P., Indianapolis, Ind., assignor to Union Carbide and Carbon Corporation. Hydraulic back-pressure arrester. 2,352,256; June 27.
Derieg, Daniel P., Oakland, Calif. Liquid dispenser. 2,352,424; June 27.
Detroit Edison Company, The. (See Matthews, George A., assignor.)
Detroit Harvester Company. (See Kost, Harold W., assignor.)
Detroit Lubricator Company. (See Landon, Walter S., assignor.)
Dewey & Almy Chemical Company, et al. (See Walton, Richard R., assignor.)
Deyrup, Alden J., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lead-free enamel. 2,352,425; June 27.
Di Toro, Michael J., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Oscillation translating device. 2,352,311; June 27.
Dixie Cup Company. (See Carew, Herman, assignor.)
Dixon, Joseph, Crucible Company. (See Miller, Kay, assignor.)
Dodge Manufacturing Corporation. (See Firth, D., and Lower, assignors.)
Donaldson, Robert R., Forest Hills, Pa. Pressure responsive device. 2,352,312; June 27.
Dormeyer, A. F., Mfg. Co. (See Strauss, Alfred, assignor.)
Draper Corporation. (See Brown, Carl D., assignor.)
Dray, Walter R., Geneseo, Ill. Harvester-thresher combine. 2,352,257; June 27.
Du Mais, Leo J., Chicago, Ill. Cigarette case. 2,352,521; June 27.
Dunbar-Kapple & Company. (See Kapple, F., and Sikora, assignors.)
Du Pont, E. I., de Nemours & Company. (See Cockerille, Frank O., assignor.)
Du Pont, E. I., de Nemours & Company. (See Deyrup, Alden J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Johnson, C. R., Pilcher, and Stanley, assignors.)
Du Pont, E. I., de Nemours & Company. (See Walker, Joseph F., assignor.)
Eagle Signal Corporation. (See Anderson, Carl L., assignor.)
Eagle Signal Corporation. (See Reinecke, Erwin P., assignor.)
Eash, Andrew S., Wellman, Iowa. Poultry drinking fountain. 2,352,373; June 27.
Eastman Kodak Company. (See Hiatt, G. D., and Emerson, assignors.)
Edison, Thomas A., Incorporated. (See Di Toro, Michael J., assignor.)
Edwards and Company. (See Holzmann, John W., assignor.)
Elnson-Freeman Co. (See Horr, John V., assignor.)
Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)
Eitel, William W., and J. A. McCullough, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electrical discharge device and making the same. 2,352,522; June 27.
Elison, Eli. (See Kende, G., Elison, and Johanson.)
Ellinwood, Herman R., Burbank, Calif., assignor to Adel Precision Products Corp. Temperature compensating accumulator for hydraulic systems. 2,352,187; June 27.
Emerson, John. See Hiatt, G. D., and Emerson.)
Emerson, John H., Cambridge, Mass. Apparatus and method for artificially inducing breathing. 2,352,523; June 27.
Emery Industries, Inc. (See Brown, Alexander C., assignor.)
Engh, Harold V., Irvington, N. Y., assignor to Anaconda Wire and Cable Company. Manufacture of insulated wire. 2,352,426; June 27.
English Steel Corporation Limited. (See Archer, John, assignor.)
Etched Products Corporation. (See Waters, Joseph J., assignor.)
Evans, Ralph L., Bay Shore, and E. G. McDonough, Yonkers, assignors to Sales Affiliates, Inc., New York, N. Y. Depilatory. 2,352,524; June 27.
Evans, William J. R., Blackley, England, assignor to Imperial Chemical Industries Limited. Chlorination of polymeric materials. 2,352,525; June 27.
Ex-Cell-O Corporation. (See Hofler, James F., assignor.)
Faltz, William D., Pittsburgh, Pa. Stapling device. 2,352,475; June 27.
Farnsworth Television and Radio Corporation. (See Mayle, Louis F., assignor.)
Farrand, Hiram A., Berlin, N. H. Collapsible structure. 2,352,526; June 27.
Farrell, William S., Los Angeles, Calif. Sound reproducing system and coin collecting actuator therefor. 2,352,188; June 27.
Favor, Arthur B., Llanerch, Pa. Home humidifying system. 2,352,527; June 27.
Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)
Fennis, Albert M. (See Powers, E. D., and Fennis.)
Fergueson, Arthur P., and G. W. Schatzman, assignors to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield construction and assembly. 2,352,374; June 27.
Fernald, Everett H., Smithfield, R. I. Gauge. 2,352,313; June 27.
Fernholz, Erhard, Princeton, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. 2-methyl-1,4-naphthohydroquinone derivatives, and preparing them. 2,352,189; June 27.
Ferry, John T., Ilion, assignor to Remington Rand Inc., Buffalo, N. Y. Sorter. 2,352,258; June 27.
Field, Theodore E. (See Fulcher, G. S., and Field.)
Fieser, Louis F., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Anti-hemorrhagic compounds. 2,352,528; June 27.
Firth, David, South Bend, and D. P. Lower, assignors to Dodge Manufacturing Corporation, Mishawaka, Ind. Sheave. 2,352,474; June 27.
Fischer, Albert C., Chicago, Ill. Construction material. 2,352,314; June 27.
Foote, Daniel J., West Allis, and H. E. Soref; assignors to Master Lock Company, Milwaukee, Wis. Padlock. 2,352,190; June 27.
Fox, Martin, Chicago, Ill., assignor to The Seng Company. Sofa bed. 2,352,375; June 27.
Francis, Oliver T., Renville, Minn. Infrared control device. 2,352,377; June 27.
Frankel, Pearl, Long Beach, N. Y. Ornament. 2,352,529; June 27.
French, Fred A., Norwalk, Ohio. Shotgun shell adapter. 2,352,476; June 27.
Frey, Hugo. (See Reichstein, Tadeus, and Frey.)
Friden Calculating Machine Co. (See Friden, Carl M., assignor.)
Friden, Carl M., Pleasanton, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,352,376; June 27.
Fulcher, Gordon S., Chevy Chase, Md., and T. E. Field, assignors to Corhart Refractories Company, Louisville, Ky. Refractory zirconia casting. 2,352,530; June 27.
Gallo, Conrad, Brooklyn, N. Y. Drapery. 2,352,531; June 27.
Gantt, Jacob P., Rock Hill, S. C. Necktie press. 2,352,427; June 27.
Garand, John C., Springfield, Mass. Hammer mechanism. 2,352,191; June 27.
Garrard Engineering & Manufacturing Company, Limited. (See Offen, Francis J., assignor.)
Garside, John L., West Boylston, assignor to Norton Company, Worcester, Mass. External-internal cylindrical grinding machine. 2,352,428; June 27.
Gasche, Fred, assignor to Struthers Wells-Titusville Corporation, Titusville, Pa. Closure. 2,352,192; June 27.
Gearench Manufacturing Company. (See (Saul, J., assignor), Olsen, and Peterson.)
Geertz, Eric, Glen Ellyn, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Fire extinguishing method and apparatus. 2,352,378; June 27.
Geertz, Eric, Glen Ellyn, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Mobile fire fighting apparatus. 2,352,379; June 27.
Gelman, Samuel D. (See Kilborn, K. B., and Gelman.)
General Aniline & Film Corporation. (See Baldwin, Harold S., assignor.)
General Aniline & Film Corporation. (See Hopff, H., Weickmann, and Kern, assignors.)
General Aniline & Film Corporation. (See Reckmeyer, V. H., and Brunner, assignors.)
General Electric Company. (See Brodie, Rutherford E., assignor.)

General Electric Company. (See Camilli, Guglielmo, assignor.)
General Electric Company. (See Stratton, Jerry L., assignor.)
General Electric Company. (See Summerhayes, Harry R., Jr., assignor.)
General Motors Corporation. (See Martin, T. B., and Berninger, assignors.)
General Motors Corporation. (See White, Joe, assignor.)
Ghez, Henry and O., New York, N. Y. Articulated sole of wood or other stiff material. 2,352,532; June 27.
Ghez, Oscar. (See Ghez, Henry and O.)
Giguere, Marie F. G. Y., (nee Guimond). (See Guimond, Joseph A., assignor.)
Gilbert, Geoffrey, assignor to Gilbert Process Corporation, Plainfield, N. J. Lubricating oil filter for airplane engines. 2,352,315; June 27.
Gilbert Process Corporation. (See Gilbert, Geoffrey, assignor.)
Gingery, Walter G., Indianapolis, Ind. Map projection. 2,352,380; June 27.
Globe Hoist Company. (See Thompson, Elmer B., assignor.)
Goetzel, Claus G., assignor to American Electro Metal Corporation, Yonkers, N. Y. Producing shaped bodies from powdery ferrous material. 2,352,316; June 27.
Goff, Leonard D., and R. O. Monroe, assignors to The Johnson Corporation, Three Rivers, Mich. Rotary syphon joint assembly. 2,352,317; June 27.
Goldman, Paul R., Andover, assignor to Plymold Corporation, Lawrence, Mass. Manufacture of wood tubing and the like. 2,352,533; June 27.
Goldstein, Samuel D., St. Louis, Mo. Figure link for jewelry. 2,352,381; June 27.
Comperz, Theodore, Budapest, Hungary. Tool for upsetting die heads. 2,352,429; June 27.
Good, John N., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Valve device. 2,352,259; June 27.
Goodman Manufacturing Company. (See Holstein, John H., assignor.)
Goodrich, B. F., Company, The. (See Davis, Edward A., assignor.)
Goodrich B. F., Company, The. (See Sprigg, Edward A., assignor.)
Goodrich B. F., Company, The. (See Stewart, William D., assignor.)
Gorton, Walter T., Springfield, Mass. Automatic firearm. 2,352,193; June 27.
Grabec, Josef A., Bratislava, Czechoslovakia; vested in the Alien Property Custodian. Molding perforated elastic material. 2,352,194; June 27.
Green, Vernon L. (See Nystrom, K. F., and Green.)
Greenburg, Richard B., Cheltenham Township, Montgomery County, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Azeotropic distillation of benzene fractions. 2,352,534; June 27.
Griffin Wheel Company. (See Vial, Frederick K., assignor.)
Guarnaschelli, Stephen, Mount Vernon, assignor to Packless Metal Products Corporation, New Rochelle, N. Y. Flexible cable support. 2,352,318; June 27.
Guillet, Albert M., Charlotte, N. C. Roll stand bearing gauge. 2,352,535; June 27.
Guillet, Albert M., Charlotte, N. C. Spindle rail gauge. 2,352,536; June 27.
Guillet, Albert M., Charlotte, N. C. Level for roving frames. 2,352,537; June 27.
Guimond, Joseph A., Montreal, Quebec, assignor to M. F. G. Y. Giguere (nee Guimond) Noranda, Quebec, Canada. Magazine razor blade holder. 2,352,538; June 27.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Garment hanger. 2,352,477; June 27.
Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Uncurling guide for sewing machines. 2,352,430; June 27.
Hagen, Clarence R. (See Scarratt, A. W., Baker, and Hagen.)
Halbach, Howard L., Clarksburg, W. Va., G. D. Campbell, Tarentum, Pa., and W. G. Koupal, Clarksburg, W. Va., assignors to Pittsburgh Plate Glass Company. Method of and apparatus for drawing sheet glass. 2,352,539; June 27.
Halford, Frank B., Edgware, assignor to D. Napier & Son Limited, London, England. Variable radio transmission mechanism. 2,352,478; June 27.
Hames, John G. (See Buzza, Henry M., assignor.)
Hanneman, Walter M., Oak Park, assignor to Illinois Tool Works, Chicago, Ill. Self-locking screw. 2,352,540; June 27.
Harcourt, Guy N., and C. O. Lavett, assignors to Buffalo Foundry & Machine Co., Buffalo, N. Y. Method and apparatus for removing a continuous film of material from the surface of drying drums. 2,352,195; June 27.
Hardy, Frank H., Andover, Mass. Dabbing brush. 2,352,431; June 27.
Harper, Ernest E., Chicago, Ill., assignor to Radio Corporation of America. Electronic synchronization system. 2,352,541; June 27.
Harrington, Michael F., Buffalo, N. Y. Surgical cast cutter. 2,352,432; June 27.
Harris, Alexander, Scobeyville, N. J., assignor to Art Metal Works, Inc. Storage receptacle. 2,352,319; June 27.
Hartmann, Paul, New York, N. Y. Binding blank. 2,352,196; June 27.
Harvey, Earle M., Springfield, Mass. Automatic valve. 2,352,197; June 27.
Hatch, Leo G., Concord, N. H. Garden tool. 2,352,320; June 27.
Hayes Industries, Inc. (See Hollerith, Charles, assignor.)
Hazel-Atlas Glass Company. (See Ross, James W., assignor.)
Heins, John J., Jr., Abington, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Automatic phonograph. 2,352,542; June 27.
Hendricks, Walter H., Sycamore, Ill. Closure. 2,352,382; June 27.
Herbener, Henry M., Thomasville, Ga. Folder for bills, cards, coins, keys or the like. 2,352,383; June 27.
Herman, Victor G., New York, N. Y. Whistling projectile. 2,352,260; June 27.
Herzog, Gerard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Well logging. 2,352,433; June 27.
Heuer, Harry, Philadelphia, Pa. Metallurgical method and apparatus. 2,352,321; June 27.
Hiatt, Gordon D., and J. Emerson, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing dicarboxylic acid esters. 2,352,261; June 27.
Hinson, Jay B., Hartsdale, N. Y. Cigarette extinguisher. 2,352,198; June 27.
Hoagland, Walter H., Mount Vernon, N. Y., assignor to Shell Development Company, San Francisco, Calif. Pressure cylinder connection. 2,352,434; June 27.
Hoch, John, Corona, Long Island, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Tin-coated collapsible tube. 2,352,384; June 27.
Hoeffelman, Johan M., and R. Berkenbosch, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Organic sulphur compound and its preparation. 2,352,435; June 27.
Hoffer, James F., assignor to Ex-Cell-O Corporation, Detroit, Mich. Pressure reduction check valve. 2,352,322; June 27.
Hoffmann, Sylvester, executor. (See Burnett, Robert N.)
Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Wheel and brake structure. 2,352,385; June 27.
Holman, Arthur J., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical flat generator. 2,352,386; June 27.
Holstein, John H., assignor to Goodman Manufacturing Company, Chicago, Ill. Angle drive. 2,352,262; June 27.
Holzmann, John W., New York, N. Y., assignor to Edwards and Company, Inc., Norwalk, Conn. Signal control apparatus. 2,352,543; June 27.
Hooker, John H., Miami, Fla. Passenger and freight carrying aircraft. 2,352,323; June 27.
Hoover Company, The. (See Coons, Curtis C., assignor.)
Hoover Company, The. (See White, Harry B., assignor.)
Hopff, Heinrich, A. Weickmann, and R. Kern, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Production of condensation products. 2,352,387; June 27.
Hopper, Frederick N., Niagara Falls, N. Y., assignor to Niacet Chemicals Corporation. Stabilization of vinyl esters. 2,352,263; June 27.
Horr, John V., Hastings-on-Hudson, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Collapsible cardboard display device. 2,352,436; June 27.
Horton, Osborne L., Baltimore, Md. Coat hanger. 2,352,264; June 27.
Houdaille-Hershey Corporation. (See Fergueson, A. P., and Schatzman, assignors.)
Houdaille-Hershey Corporation. (See O'Connor, Bernard E., assignor.)
Houdaille-Hershey Corporation. (See Wohlfield, Frederick W., assignor.)
Howard, Forbes, Los Angeles, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Clasp fastener. 2,352,437; June 27.
Hrnby, John O., Jr., assignor to L. A. Maas, Glendale, Calif. Musical instrument. 2,352,438; June 27.
Hubler, William G., Duparquet, Ontario, Canada, assignor to American Nepheline Corporation, Rochester, N. Y. Beneficiation of feldspathic and similar ores. 2,352,324; June 27.
Huddle, Edwin F., Elmwood Park, Ill., assignor to International Harvester Company. Windrower. 2,352,479; June 27.
Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Continuous soft soldering. 2,352,325; June 27.
Hyland, Lawrence A., Washington, D. C., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Spark plug. 2,352,480; June 27.
Hyland, Lawrence A., Washington, D. C., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Spark plug structure. 2,352,481; June 27.
Illinois Tool Works. (See Hanneman, Walter M., assignor.)

Imperial Chemical Industries Limited. (See Evans, William J. R., assignor.)
Imperial Chemical Industries Limited. (See Lefebure, Victor, assignor.)
Industrial Patents Corporation. (See Trinkle, Robert H., assignor.)
International Business Machines Corporation. (See Leathers, W., and Panissidi, assignors.)
International Harvester Company. (See Huddle, Edwin F., assignor.)
International Harvester Company. (See Land, H. A., and Bocksruker, assignors.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Harvester Company. (See McNamara, Gordon G., Jr., assignor.)
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Orelind, John R., assignor.)
International Harvester Company. (See Scarlett, A. A., and Young, assignors.)
International Harvester Company. (See Scarratt, A. W., Baker, and Hagen, assignors.)
International Harvester Company. (See Slavicek, George, assignor.)
International Harvester Company. (See Walker, E. C., and Buck, assignors.)
International Harvester Company. (See Zirckel, Charles H., assignor.)
International Nickel Company, The. (See Rote, Franklin B., assignor.)
Ipatieff, Vladimir N., and G. S. Monroe, assignors to Universal Oil Products Company, Chicago, Ill. Production of toluene. 2,352,199; June 27.
Ipatieff, Vladimir N., and G. S. Monroe, assignors to Universal Oil Products Company, Chicago, Ill. Production of toluene. 2,352,200; June 27.
Iskols, Anatol D., Bronx, N. Y. Rotary steam engine. 2,352,544; June 27.
Jack & Heintz, Inc. (See Carlson, Bert G., assignor.)
Jack & Heintz, Inc. (See Seme, John J., assignor.)
Jacob, Ezekiel J., assignor to B. Liebowitz, New York, N. Y. Composition of matter. 2,352,201; June 27.
James Manufacturing Company. (See Markey, George T., assignor.)
Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbo transmission. 2,352,482; June 27.
Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbo transmission. 2,352,483; Jue 27.
Jeffries, Samuel L., Gaffney, S. C. Impression tray. 2,352,545; June 27.
Jenckes, Manville, Corporation. (See Costa, J. L., and Kahler, assignors.)
Jenkins, John D., Forest Hills, assignor to The Pittsburgh Plate Glass Company, Allegheny County, Pa. Solvent extraction of oils and acids. 2,352,546; June 27.
Jenkins, John D., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Refining of tall oil. 2,352,547; June 27.
Jobert, Arthur H., and J. J. Taravella, assignors to The New Britain Machine Company, New Britain, Conn. Cross-slide mechanism. 2,352,548; June 27.
Johanson, Sten. (See Kende, G., Elison, and Johanson.)
Johnson, C. S., Company, The. (See Johnson, Charles H., assignor.)
Johnson, Charles H., assignor to The C. S. Johnson Company, Champaign, Ill. Mixing plant. 2,352,202; June 27.
Johnson, Charles R., Glenn Mills, Pa., W. S. Pilcher, Woodbury, and C. B. Stanley, Paulsboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. End closure for explosive cartridges. 2,352,549; June 27.
Johnson Corporation, The. (See Goff, L. D., and Monroe, assignors.)
Johnson & Johnson. (See Wenzelberger, E. P., and Manley, assignors.)
Johnson, Roger C., Moline, Ill. Thermostatic valve. 2,352,203; June 27.
Jones, Frank D., Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa. Hay Press. 2,352,388; June 27.
Jordan, Thomas, Salt Lake City, Utah. Automatic sample cutting machine. 2,352,204; June 27.
Joseph, Francis M., Cliffside Park, assignor to Bendix Aviation Corporation, Bendix, N. J. Power plant. 2,352,550; June 27.
K-D Lamp Co., The. (See Trautner, Wagn, assignor.)
Kahler, William H. (See Costa, J. L., and Kahler.)
Kandle, Charles W., Chicago, Ill. Earth drill. 2,352,326; June 27.
Kanhofer, Elmer R., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic treatment of hydrocarbons. 2,352,484; June 27.
Kapple, Frank, and J. F. Sikora, assignors to Dunbar-Kapple & Company, Chicago, Ill. Producing cup washers. 2,352,265; June 27.
Karlson, Julius H., Chicago, Ill. Drink mixing tumbler. 2,352,205; June 27.
Keefer, Walter L. (See Rosenberger, W. A., and Keefer.)
Keinath, George, Larchmont, N. Y. Jewel bearing and making same. 2,352,266; June 27.
Keller, Henry V., Minneapolis, Minn. Ironing table. 2,352,389; June 27.
Kelsey, Cadwallader W., Troy, N. Y. Motor. 2,352,267; June 27.
Kendall, George H., Noroton Heights, Conn. Controlled temperature bearing. 2,352,206; June 27.
Kende, George, Dobbs Ferry, and E. Elison and S. Johanson, assignors to Universal Camera Corporation, New York, N. Y. Forming optical prisms. 2,352,551; June 27.
Kern, Rudolf. (See Hopff, H., Weickmann, and Kern.)
Kienzlé, Jean A. P., Nogent sur Oise, France; vested in the Alien Property Custodian. Condensation products of urea and amines. 2,352,552; June 27.
Kilborn, Karl B., and S. D. Gehman, assignors to Wingfoot Corporation, Akron, Ohio. Torsion unit. 2,352,586; June 27.
Kimberlin, Charles N., Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Recovery of ethyl chloride. 2,352,268; June 27.
Kirkland, Everett R., Torrance, Calif. Hydraulic jack. 2,352,390; June 27.
Kirn, Howard C., Peterborough, Ontario, Canada, assignor to The Quaker Oats Company, Chicago, Ill. Grain huller. 2,352,327; June 27.
Kitselman, Donald C., U. S. Army, Las Vegas, Nev. Flexible tension member. 2,352,391; June 27.
Kleine, Johannes, Dessau, Germany; vested in the Alien Property Custodian. Artificial filament, fiber and foil. 2,352,328; June 27.
Knight, Thomas F., Rockaway, and F. E. Tregenza, Kenvil, N. J. Funnel for molten explosives. 2,352,207; June 27.
Knochel, William J., East Orange, and J. H. Cone, Montclair, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Grid. 2,352,208; June 27.
Koch, Fritz. (See Lang, R., and Koch.)
Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Lubrication. 2,352,209; June 27.
Koppel, Ernst R., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Cast-iron gas burner. 2,352,329; June 27.
Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Sheet clamping device. 2,352,392; June 27.
Koupal, Walter G. (See Halbach, H. L., Campbell, and Koupal.)
Kraft Cheese Company. (See Kraft, Norman, assignor.)
Kraft, Norman, Chicago, Ill., assignor to Kraft Cheese Company. Cheese forming method and apparatus. 2,352,210; June 27.
Kraissl, Frederick, Jr., North Hackensack, N. J. Strainer and filter. 2,352,269; June 27.
Kratzmaier, Paul, Kansas City, Mo. Die working machinery. 2,352,211; June 27.
Kritzer, Richard W., Chicago, Ill. Unit heater. 2,352,485; June 27.
Land, Harry A., Chicago, and A. F. Bocksruker, Berwyn, Ill., assignors to International Harvester Company. Power transmission mechanism. 2,352,270; June 27.
Landon, Walter S., assignor to Detroit Lubricator Company, Detroit, Mich. Heat actuated device. 2,352,439; June 27.
Lang, Richard, Ravensburg, and F. Koch, Friedrichshafen, Bodensee, Germany; vested in the Alien Property Custodian. Power and speed transmission for motor vehicles. 2,352,212; June 27.
Lang, Wilmarth Y., Towaco, N. J., and F. J. Singer, Rockville Centre, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter pay station circuit. 2,352,271; June 27.
Large, Wayne V. K., Glenwood Landing, C. W. Lucek, Port Chester, and T. A. Marshall, Floral Park, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inverse neutral telegraph repeater concentration group cord and attendants. 2,352,272; June 27.
Lavett, Charles O. (See Harcourt, G. N., and Lavett.)
Leathers, Ward, Brooklyn, and H. Panissidi, Jamaica, assignors to International Business Machines Corporation, New York, N. Y. Time recording mechanism. 2,352,440; June 27.
Lee, George N., Yonkers, assignor to Brett Lithographing Co., Long Island City, N. Y. Collapsible paper board receptacle. 2,352,393; June 27.
Lee, Graham, assignor to Oliver United Filters Incorporated, Oakland, Calif. Filter and automatic valve. 2,352,330; June 27.
Lefebure, Victor, London, England, assignor to Imperial Chemical Industries Limited. Making composite boards. 2,352,553; June 27.
Leline, Arnold W., assignor to Advance Engineering Company, Chicago, Ill. Phonograph record changer. 2,352,331; June 27.
Lessard, Thomas, Eaglesham, and W. Mund, Wanham, Alberta, Canada. Dust remover. 2,352,273; June 27.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,352,274; June 27.

Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,352,275; June 27.

Lewis, Earle B., assignor to E. O. Lewis, Southington Conn. Clarifier for oxidizing solutions. 2,352,441; June 27.

Lewis, Ethel O. (See Lewis, Earle B., assignor.)

Lewis, Eugene C. (See Rymland, M. J., and Lewis.)

Lewis Invisible Stitch Machine Company. (See Stevenson, Geoffrey, assignor.)

Lidgerwood Manufacturing Company. (See Benson, Melvin B., assignor.)

Lieber, Eugene, Staten Island, N. Y., M. M. Sadlon, Roselle Park, and A. F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company. Lubricant and preparing same. 2,352,213; June 27.

Liebowitz, Benjamin. (See Jacob, Ezekiel J., assignor.)

Ligh, David R., New Dorp, N. Y., assignor to Darli Industrial Management, Incorporated, Hartford, Conn. Optical system and method. 2,352,214; June 27.

Limpel, Eugene J., assignor to A. O. Smith Corporation, Milwaukee, Wis. Induction heating. 2,352,332; June 27.

Lindgren, Alexus C., Chicago, Ill., assignor to International Harvester Company. Tractor implement. 2,352,276; June 27.

Little, Charles K., Vicksburg, Miss. Hydraulic dredging apparatus. 2,352,394; June 27.

Ljungkull, Rolf E., assignor to American Hoist & Derrick Company, St. Paul, Minn. Material handling apparatus. 2,352,395; June 27.

Lockheed Aircraft Corporation. (See Bailey, Robert A., assignor.)

Loewy Engineering Company Limited, The. (See Loewy, L., and Salter, assignors.)

Loewy, Ludwig, Bournemouth, and F. S. Salter, Parkstone, assignors to The Loewy Engineering Company Limited, London, England. Straightening machine for metal bars. 2,352,442; June 27.

Loftus, Alice McC., et al. (See Salverda, Henry P., assignor.)

Lord Manufacturing Company. (See Wallerstein, Leon, Jr., assignor.)

Lotter, Adolph G., assignor to Stationers Loose Leaf Company, Milwaukee, Wis. Visible record loose-leaf binder. 2,352,486; June 27.

Louisville Drying Machinery Company. (See Overton, Glen, assignor.)

Lower, Donald P. (See Firth, D., and Lower.)

Lucek, Charles W. (See Large, W. V. K., Lucek, and Marshall.)

Lukens, William R., Hillsboro, Ohio. Recording clinical thermometer. 2,352,333; June 27.

Maas, Louis A. (See Hruby, John O., Jr., assignor.)

Mack, Carl T., et al. (See McFall, Robert J., assignor.)

Macomber, Thomas W., Mountain View, Calif. Aircraft control system. 2,352,334; June 27.

Magg, Wolfgang J., Melbourne, Victoria, Australia. Oil burning heating stove. 2,352,335; June 27.

Magnoflux Corporation. (See Clarke, John E., assignor.)

Mahlmeister, Louis J. (See Aller, W. F., and Mahlmeister.)

Malhiot, Clarence J., Oak Park, assignor to F. B. Redington Co., Chicago, Ill. Stamp feeding and gluing mechanism. 2,352,554; June 27.

Maltby, Kenneth R., Lavonia Township, Mich. Internal-combustion engine. 2,352,396; June 27.

Mandl, Rudi W., New York, N. Y. Puzzle game. 2,352,555; June 27.

Manley, Everett R., Fairmont, W. Va. Apparatus for undercutting commutators. 2,352,278; June 27.

Manley, Frank N. (See Wenzelberger, E. P., and Manley.)

Mantle Lamp Company of America, The. (See Bramming, Carl, assignor.)

Marcus, William, New York, and A. Baum, Brooklyn, N. Y. Closure or sealing means for paper or cardboard receptacles. 2,352,559; June 27.

Mark, Charles E., Barryton, Mich. Draft hitch. 2,352,397; June 27.

Markey, George T., assignor to James Manufacturing Company, Fort Atkinson, Wis. Combination incubator and hatcher. 2,352,398; June 27.

Marshall, Tola A. (See Large, W. V. K., Lucek, and Marshall.)

Martin, Thomas B., and K. L. Berninger, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Lift-off seal for adapters and regulators. 2,352,336; June 27.

Masino, Joseph F. (See Schuch, E. A., and Masino.)

Mason, Richard H. (See Summerbell, W., and Mason.)

Master Lock Company. (See Foote, D. J., and Soref, assignors.)

Matthews, George A., assignor to The Detroit Edison Company, Detroit, Mich. Apparatus for protecting power lines. 2,352,556; June 27.

Mautsch, Robert, Brussels, Belgium; vested in the Alien Property Custodian. Process and installation for the manufacture of shaped metal products. 2,352,443; June 27.

Maxwell, Carl R. (See Rosen, C. G. A., and Maxwell.)

Mayle, Louis F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Video signal control system. 2,352,488; June 27.

McCarron, Frank J., et al. (See Salverda, Henry P., assignor.)

McClure, Glenn T., McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,352,277; June 27.

McCullough, Jack A. (See Eitel, W. W., and McCullough.)

McDonough, Everett G. (See Evans, R. L., and McDonough.)

McFall, Robert J., Arlington, Va., assignor to J. A. Stone, J. H. Boyden, and C. T. Mack, Washington, D. C., jointly. Control means for automatic stokers. 2,352,215; June 27.

McNamara, Gordon G., Jr., Chicago, Ill., assignor to International Harvester Company. Wheel. 2,352,487; June 27.

Meehanite Metal Corporation. (See Reece, H. A., and Smalley, assignors.)

Mehan, Thomas O., Park Ridge, Ill. Detachable spool mounting. 2,352,279; June 27.

Melin, William, Detroit, Mich. Device for machining ends of articles. 2,352,489; June 27.

Melvin, Grant C., and S. B. White, Dayton, Ohio. Automatic miniature radio range equipment. 2,352,216; June 27.

Meyer, Joseph E., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Ink fountain for rotary intaglio presses. 2,352,217; June 27.

Meyer, Joseph E., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Ink fountain for rotary intaglio presses. 2,352,337; June 27.

Meyers, Carl G., assignor to The Allbright-Nell Company, Chicago, Ill. Measuring and filling machine. 2,352,490; June 27.

Midland Steel Products Company, The. (See Almond, John R., assignor.)

Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Production of wax modifying agents. 2,352,280; June 27.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Gear finishing apparatus. 2,352,557; June 27.

Miller, Kay, New Brunswick, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Preparing newsprint paper for use as pencil sheaths. 2,352,444; June 27.

Minar, John, Maspeth, N. Y. Supplemental base for hot water heaters. 2,352,558; June 27.

Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)

Monroe, George S. (See Ipatieff, V. N., and Monroe.)

Monroe, Rollo O. (See Goff, L. D., and Monroe.)

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Working tool attachment. 2,352,281; June 27.

Muirhead, Donald M., Duxbury, Mass. Building structure for insulation against insects. 2,352,338; June 27.

Müller, Ferdinand H., Montclair, N. J., assignor to Wilmington Fibre Specialty Company, Wilmington, Del. Pouring spout for containers. 2,352,587; June 27.

Mund, William. (See Lessard, T., and Mund.)

Mussler, Frank H. (See Bullard, E. P., III, Alvey, and Mussler.)

Myers, Leonard D., Washington, D. C., assignor to Cardox Corporation, Chicago, Ill. Fire extinguishing method and apparatus. 2,352,399; June 27.

Napier, D., & Son Limited. (See Halford, Frank B., assignor.)

Napier, D., & Son Limited. (See Youhill, Joseph, assignor.)

National Agrol Company. (See Christensen, Leo M., assignor.)

New Britain Machine Company, The. (See Jobert, A. H., and Taravella, assignors.)

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Stage controlled air conditioning system. 2,352,282; June 27.

Niacet Chemicals Corporation. (See Hopper, Frederick N., assignor.)

Northern Illinois College of Optometry. (See Shepard, Carl F., assignor.)

Norton Company. (See Garside, John I., assignor.)

Nystrom, Karl F., and Vernon L. Green, Milwaukee, Wis. Railroad passenger car truck. 2,352,400; June 27.

O'Connor, Bernard E., Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Shock absorbing strut. 2,352,401; June 27.

Oetzel, John G., Beloit, assignor to Warner Electric Brake Manufacturing Company, South Beloit, Wis. Brake. 2,352,218; June 27.

Offen, Francis J., assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England. Record discharge mechanism. 2,352,560; June 27.

Offen, Francis J., assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England. Knockoff mechanism for phonographs. 2,352,561; June 27.

Offen, Francis J., assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England. Vane structure in record discharge mechanisms. 2,352,562; June 27.

Offen, Francis J., assignor to Garrard Engineering & Manufacturing Company, Limited, Swindon, England. Record reversing mechanism. 2,352,563; June 27.

Olesen, Raymond C., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Vibration measuring system. 2,352,219; June 27.

Oliver United Filters Incorporated. (See Lee, Graham, assignor.)

Oliver United Filters Incorporated. (See Oswald, Harold F., assignor.)

Olney, Nathaniel M., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, U. Y. Apparatus for blanking materials. 2,352,339; June 27.

Olson, Carl. (See Anderson, R. T., and Olson.)

Olsen, Carl E. (See Saul, J., Olsen, and Peterson.)

Onions, John H. (See Thornhill, Peter W., assignor.)

Orelind, John R., Wilmetter, Ill., assignorto International Harvester Company. Agricultural implement. 2,352,491; June 27.

Ostline, John E., Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Telephone system. 2,352,492; June 27.

Oswald, Harold F., Elizabeth, N. J., assignor to Oliver United Filters Incorporated, Oakland, Calif. Filter. 2,352,340; June 27.

Ott, Thomas O., Jr., assignor to Callaway Mills, La Grange, Ga. Loom. 2,352,341; June 27.

Overholt, Ralph, Jr., Dayton, Ohio, assignor to The Union Switch and Signal Company, Swissvale, Pa. Electrical rectifier. 2,352,283; June 27.

Overton, Glen, Dowagiac, Mich., assignor to Louisville Drying Machinery Company. Dehydrating machine. 2,352,220; June 27.

Packless Metal Products Corporation. (See Guarnaschelli, Stephen, assignor.)

Palmer, James D., Monmouth, Ill. Illuminated automobile ash tray. 2,352,493; June 27.

Pangborn Corporation. (See Rosenberger, W. A., and Keefer, assignors.)

Panissidi, Hugo. (See Leathers, W., and Panissidi.)

Pankonin, William G. (See Schaefer, Frank M., assignor.)

Parker Appliance Company, The. (See Parker, Arthur L., assignor.)

Parker, Arthur L., assignor to The Parker Oppliance Company, Cleevland, Ohio. Tube straightening machine. 2,352,284; June 27.

Parr, Josephus O., Jr., assignor to Olive S. Petty, San Antonio, Tex. Seismic surveying. 2,352,494; June 27.

Payne, William J., Georgetown, Ky. Heater. 2,352,402; June 27.

Peterson, Joseph A. (See Saul, J., Olsen, and Peterson.)

Petty, Olive S. (See Parr, Josephus O., Jr., assignor.)

Philco Corporation. (See Rundell, Theodore W., assignor.)

Philco Radio and Television Corporation. (See Heins, John J., Jr., assignor.)

Philco Radio and Television Corporation. (See Thompson, Elmer O., assignor.)

Phillips, Herbert L., Watertown, Mass. Photographic stand. 2,352,221; June 27.

Phillips Petroleum Company. (See Swerdloff, William, assignor.)

Photoswitch Incorporated. (See Wolfner, William F., II, assignor.)

Pieper, George F., Milwaukee, Wis. Multiple rotary diesel engine. 2,352,403; June 27.

Pilcher, William S. (See Johnson, C. R., Pilcher, and Stanley.)

Pinckney, Arthur S., Los Angeles, Calif. Device for dispensing strip material. 2,352,445; June 27.

Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Willow Grove, Pa. Aircraft equipped with sustaining rotors. 2,352,342; June 27.

Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Sustaining rotor for aircraft. 2,352,404; June 27.

Pittsburgh Plate Glass Company. (See Halbach, H. L., Campbell, and Koupal, assignors.)

Pittsburgh Plate Glass Company, The. (See Jenkins, John D., assignor.)

Plymold Corporation. (See Goldman, Paul R., assignor.)

Pogue, Robert B., Orange, and M. N. Trainer, East Orange, N. J., assignors to American Brake Shoe Company. Braking apparatus. 2,352,222; June 27.

Pointer, Robert W., Portland, Oreg. Spring support for motor vehicles. 2,352,446; June 27.

Polowe, David, Paterson, N. J. Navigation instrument. 2,352,405; June 27.

Pond, Clyde C., Shelbyville, Ind. Tool hanger. 2,352,406; June 27.

Potts, Roy C., Takoma Park, Md. Bendable fastener. 2,352,407; June 27.

Powers, Edward D., Queenston, Ontario, and A. M. Fennis, Niagara Falls, Ontario Canada. Apparatus for producing edible articles. 2,352,447; June 27.

Proctor, B. A., Company. (See Proctor, Barton A., assignor.)

Proctor, Barton A., Larchmont, assignor to B. A. Proctor Company, Inc., New York, N. Y. Making phonograph record stampers. 2,352,285; June 27.

Quaker Oats Company, The. (See Kirn, Howard C., assignor.)

Rabinowitz, Louis M., Brooklyn, N. Y. Fastening strip. 2,352,564; June 27.

Radio Corporation of America. (See Anderson, Leslie J., assignor.)

Radio Corporation of America. (See Harper, Ernest E., assignor.)

Radio Corporation of America. (See Young, Lloyd L., assignor.)

Ranson, Edward H., New Haven, Conn. Movable mast support. 2,352,565; June 27.

Rappaport, Hyman, Bronx, N. Y. Spacing gauge for sewing machines. 2,352,566; June 27.

Rau, Charles R., assignor to Samuel Stamping and Enameling Company, Chattanooga, Tenn. Can closure. 2,352,495; June 27.

Raulston, James L., South Pittsburgh, Tenn. Stove. 2,352,567; June 27.

Raytheon Manufacturing Company. (See Spencer, Percy L., assignor.)

Read, David Y., New York, assignor to Remington Rand Inc., Buffalo, N. Y. Calculating machine. 2,352,286; June 27.

Read, Felix O., Houston, Tex. Electrical connector. 2,352,224; June 27.

Reckmeyer, Verne H., and A. H. Brunner, Jr., Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Aminophenol derivatives. 2,352,287; June 27.

Reconstruction Finance Corporation. (See Geertz, Eric, assignor.)

Redington, F. B., Co. (See Malhiot, Clarence J., assignor.)

Reece, Herbert A., Cleveland Heights, Ohio, and O. Smalley, Pittsburgh, Pa., assignors to Meehanite Metal Corporation. Producing ferrous castings having desired physical properties. 2,352,408; June 27.

Reichenbach, Howard F., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Holder for lipsticks and the like. 2,352,448; June 27.

Reichstein, Tadeus, Basel, and H. Frey, Olten, Switzerland, assignors to Ciba Pharmaceutical Products Incorporated, Summit, N. J. Compounds of the saturated and unsaturated cyclopentanopolyhydrophenanthrene-series and derivatives thereof, and preparing same. 2,352,568; June 27.

Reinecke, Erwin P., assignor to Eagle Signal Corporation, Moline, Ill. Timing mechanism. 2,352,449; June 27.

Reinholz, William H., Irondequoit, N. Y. Baby walker. 2,352,450; June 27.

Remington Rand Inc. (See Ferry, John T., assignor.)

Remington Rand Inc. (See Read, David Y., assignor.)

Research Corporation. (See Fieser, Louis F., assignor.)

Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)

Resinous Products & Chemical Company, The. (See Bruson, H. A., and Riener, assignors.)

Reynolds, Noel S., St. Louis, Mo. Seal. 2,352,343; June 27.

Ridbo Laboratories, Inc. (See Auer, László, assignor.)

Riddiford, Charles E., Washington, D. C. Map globe and globe construction. 2,352,225; June 27.

Riener, Thomas W. (See Bruson, H. A., and Riener.)

Robinette, Hillary, Jr., Arlington, Mass., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Mercerizing assistant. 2,352,409; June 27.

Rockwell, Edward A., West Hartford, Conn. Hydraulic travel modulation control. 2,352,344; June 27.

Roemisch, Joseph L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency converter. 2,352,451; June 27.

Ronan & Kunzl. (See Camburn, Elwyn A., assignor.)

Ronning, Adolph, Minneapolis, Minn. Mine. 2,352,226; June 27.

Rosco Manufacturing Company. (See Rosholt, Thorman W., assignor.)

Rose, Jess C., assignor to Bardwell & McAlister, Inc., Los Angeles, Calif. Collapsible and vertically adjustable stand for work lamps. 2,352,496; June 27.

Rosen, Carl G. A., Peoria, and C. R. Maxwell, Washington, Ill., assignor to Caterpillar Traction Co., San Leandro, Calif. Engine. 2,352,497; June 27.

Rosenberger, William A., and W. L. Keefer, assignors to Pangborn Corporation, Hagerstown, Md. Directional control centrifugal blasting machine. 2,352,588; June 27.

Rosholt, Thorman W., assignor to Rosco Manufacturing Company, Minneapolis, Minn. Road spraying apparatus. 2,352,498; June 27.

Ross, James W., Washington, Pa., assignor to Hazel-Atlas Glass Company, Wheeling, W. V. Glass feeder. 2,352,288; June 27.

Rote, Franklin B., Ann Arbor, Mich., assignor to The International Nickel Company, Inc., New York, N. Y. Treating cast iron. 2,352,452; June 27.

Rowe, Irving R., Westerly, R. I., assignor to Davis & Furber Machine Company, North Andover, Mass. Compressor roll for textile machines. 2,352,289; June 27.

Rubber & Plastics Compaund Company. (See Treves, Angiolo, assignor.)

Rundell, Theodore W., Abington, assignor to Philco Corporation, Philadelphia, Pa. Refrigerator. 2,352,345; June 27.

Rushmer, John R., Amarillo, Tex. Piston valve assembly. 2,352,410; June 27.

Russell Manufacturing Company, The. (See Brownlow, David B., assignor.)

Rymland, Murray J., Baltimore, Md., and E. C. Lewis, New York, assignors to Comfort Spring Corporation, Brooklyn, N. Y. Spring assembly. 2,352,569; June 27.
Sadlon, Martin M. (See Lieber, E., Sadlon, and Cashman.)
Sales Affiliates, Inc. (See Evans, R. L., and McDonough, assignors.)
Salopian Engineers, Limited. (See Batkin, Herbert W., assignor.)
Salter, Frank S. (See Loewy, L., and Salter.)
Salverda, Henry P., assignor of one-half to F. J. McCarron and A. McCarron Loftus, Dayton's Bluff Station, Minn. Well tool extracting device. 2,352,453; June 27.
Samuel Stamping and Enameling Company. (See Rau, Charles R., assignor.)
Sandretto, Peter C., Chicago, Ill., assignor to United Air Lines, Inc. Static suppressor. 2,352,411; June 27.
Sandstone, Harvey D., Los Angeles, Calif. Casing protector and booster. 2,352,412; June 27.
Sarossy, Albert, West Orange, N. J. Thread milling assembly. 2,352,227; June 27.
Saul, Joseph, Pasadena, and C. E. Olsen, and J. A. Peterson; said Saul assignor to Gearench Manufacturing Company, Houston, Tex. Flange spreader. 2,352,290; June 27.
Scarlett, Arthur A., and S. M. Young, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Agricultural machine. 2,352,589; June 27.
Scarratt, Albert W., Kenilworth, D. B. Baker, Riverside, and C. R. Hagen, Chicago, Ill., assignors to International Harvester Company. Cotton harvester. 2,352,291; June 27.
Schaefer, Frank M., assignor of one-half to W. G. Pankonin, Chicago, Ill. Self-basting pan. 2,342,292; June 27.
Schatzman, George W. (See Fergueson, A. P., and Schatzman.)
Schellenger, Newton C., Ey Paso, Tex., and W. H. Budd, assignors to Chicago Telephone Supply Company, Elkhart, Ind. Tab mounting variable resistor. 2,352,454; June 27.
Schiffl, Charles, Montclair, N. J. Electroplated bearing element. 2,352,346; June 27.
Schuch, Edward A., and J. F. Masino, assignors to Aero Service Corporation, Philadelphia, Pa. Production of Mosaic maps. 2,352,413; June 27.
Schulman, Louis, Brooklyn, assignor of one-third to M. E. Sparrow, New York, N. Y. Catamenial bandage making machine or the like. 2,352,228; June 27.
Scolding Locks Corporation. (See Van Housen, Thomas C., Jr., assignor.)
Scranton, De Hart G., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Knitting needle. 2,352,347; June 27.
Sears, Richard E., assignor to Willard Storage Battery Company, Cleveland, Ohio. Electrical testing apparatus and method. 2,352,499; June 27.
Seely, Harold E., Ottawa, Ontario, Canada. Optical beam directing device. 2,352,570; June 27.
Seme, John J., Maple Heights, assignor to Jack & Heintz, Inc., Bedford, Ohio. Chamfering tool. 2,352,348; June 27.
Seng Company, The. (See Fox, Martin, assignor.)
Shappirio, Sol, Washington, D. C. Composition containing antioxidant. 2,352,229; June 27.
Shaw, John E. B., Chicago, Ill. Drip tube dispensing unit. 2,352,349; June 27.
Sheffield Corporation, The. (See Aller, W. F., and Mahlmeister, assignors.)
Shell Development Company. (See Burnham, H. D., and Weiss, assignors.)
Shell Development Company. (See Hoagland, Walter H., assignor.)
Shell Development Company. (See Hoeffelman, J. M., and Berkenbosch, assignors.)
Shell Development Company. (See Weiss, F. T., and Anastasoff, assignors.)
Shepard, Carl F., assignor to Northern Illinois College of Optometry, Chicago, Ill. Device for testing visual acuity. 2,352,500; June 27.
Sherman, John C., Attleboro, Mass. assignor to A. P. W. Paper Co., Inc., Albany, N. Y. Paper making. 2,352,293; June 27.
Sikora, Joseph F. (See Kapple, F., and Sikora.)
Singer, Fred J. (See Lang, W. Y., and Singer.)
Singer Manufacturing Company, The. (See Hacklander, Hans, assignor.)
Skelly Oil Company. (See Titus, B. D., and Blaine, assignors.)
Slavicek, George, Berwyn, Ill., assignor to International Harvester Company. Weld fabricated roll. 2,352,501; June 27.
Slusser-McLean Scraper Company, The. (See Brodersen, Max M., assignor.)
Smalley, Oliver. (See Reece, H. A., and Smalley.)
Smith, A. O., Corporation. (See Koppel, Ernst R., assignor.)
Smith, A. O., Corporation. (See Limpel, Eugene J., assignor.)
Smith, William A., Philadelphia, Pa. Pressure leakage gauge. 2,352,350; June 27.
Smith, William E., Goodland, Kans. Antiaircraft projectile. 2,352,502; June 27.
Soley, William G. (See Benner, R. C., and Soley.)
Soref, Harry E. (See Foote, D. J., and Soref.)
Sparrow, Maxwell E. (See Schulman, Louis, assignor.)
Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Arc starting electrode and forming same. 2,352,230; June 27.
Spooner, Reginald A. W., Walton-on-the-Thames, assignor to Woodfield Engineering Limited, London, England. Connecting device. 2,352,414; June 27.
Sprigg, Edward A., Wadsworth, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Thickness-measuring apparatus. 2,352,571; June 27.
Squibb, E. R., & Sons. (See Fernholz, Erhard, assignor.)
Standard Oil Development Company. (See Blau, L. W., and Cannon, assignors.)
Standard Oil Development Company. (See Kimberlin, Charles N., Jr., assignor.)
Standard Oil Development Company. (See Lieber, E., Sadlon, and Cashman, assignors.)
Standard Oil Development Company. (See Mikeska, Louis A., assignor.)
Stanley, Charles B. (See Johnson, C. R., Pilcher, and Stanley.)
Stapff, Frederick W., assignor of one-fourth to A. S. Wyckoff, San Mateo, Calif. Handpiece for billiard cues and the like. 2,352,294; June 27.
Stationers Loose Leaf Company. (See Lotter, Adolph G., assignor.)
Stephens, Thomas M., Montgomery, W. Va. Arbor holder. 2,352,415; June 27.
Stevenson, Geoffrey, Brookline, Mass., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Combined seaming and pinking mechanism. 2,352,572; June 27.
Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preserving latex and product thereof. 2,352,573; June 27.
Stone, J. Austin, et al. (See McFall, Robert J., assignor.)
Stratton, Jerry L., Schenectady, N. Y., assignor to General Electric Company. Electric valve control circuit. 2,352,231; June 27.
Strauss, Alfred, Chicago, Ill., assignor to A. F. Dormeyer Mfg. Co. Food mixer. 2,352,232; June 27.
Struthers Wells-Titusville Corporation. (See Gasche, Fred, assignor.)
Summerbell, William, Watervliet, N. Y., and R. H. Mason, Havre de Grace, Md. Recoil apparatus. 2,352,233; June 27.
Summerhayes, Harry R., Jr., Schenectady, N. Y., assignor to General Electric Company. Frequency multiplier. 2,352,455; June 27.
Suskowitz, Max, Ozone Park, N. Y. Cigarette removing device for cigarette packages. 2,352,574; June 27.
Swearingen, Clair V., Chattanooga, Tenn. Sampling machine. 2,352,234; June 27.
Swerdloff, William, Bartlesville, Okla., assignor to Phillips Petroleum Company. Absorption process. 2,352,295; June 27.
Symington-Gould Corporation, The. (See Barrows, Donald S., assignor.)
Szego, Stephen D., New York, N. Y., assignor to American Diagrid Corporation. Beam grid structure for ships, airplanes and the like. 2,352,296; June 27.
Taravella, Jerome J. (See Jobert, A. H., and Taravella.)
Tautz, Herbert E., Englewood, Colo., assignor, by mesne assignments, to Delta Manufacturing Company, Milwaukee, Wis. Saw guard. 2,352,235; June 27.
Temple, George W., Flushing, assignor to Victor Metal Products Corporation, Brooklyn. Collapsible tube. 2,352,456; June 27.
Ternstedt Manufacturing Company. (See Andersen, Andrew C., assignor.)
Texas Company, The. (See Herzog, Gerhard, assignor.)
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,352,236; June 27.
Thomas, Charles L., and H. S. Bloch, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic reforming. 2,352,416; June 27.
Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Boat hoist. 2,352,457; June 27.
Thompson, Elmer O., Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Temperature compensator for inductance coils. 2,352,458; June 27.
Thornhill, Peter W., Leamington Spa, assignor to J. H. Onions, Coventry, England. Shock absorber. 2,352,351; June 27.
Thorson, Alvin O., Puyallup, Wash. Shield for welders' hood windows. 2,352,417; June 27.
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Titus, Birney D., and C. C. Blaine, El Dorado, Kans., assignors to Skelly Oil Company, Tulsa, Okla. Apparatus for use in straightening metal barrels or the like. 2,352,575; June 27.
Trainer, Maurice N. (See Pogue, R. B., and Trainer.)
Trainer, Maurice N., East Orange, N. J., assignor to American Brake Shoe Company. Braking apparatus. 2,352,223; June 27.

Trautner, Wagn, Hamilton, assignor to The K-D Lamp Co., Cincinnati, Ohio. Black-out lamp. 2,352,459; June 27.
Tregenza, Frederick E. (See Knight, T. F., and Tregenza.)
Treves, Angiolo, assignor, by mesne assignments, to Rubber & Plastics Compound Company, Inc., New York, N. Y. Treatment of rubber waste. 2,352,460; June 27.
Trinkle, Robert H., assignor to Industrial Patents Corporation, Chicaga, Ill. Smoke oven. 2,352,590; June 27.
Triplett, Ray L., Bluffton, Ohio. Battery clip. 2,352,576; June 27.
Twiford, Harry G., Los Angeles, Calif. Ore reduction apparatus. 2,352,418; June 27.
Union Carbide and Carbon Corporation. (See De Motte, Maurice P., assignor.)
Union Switch and Signal Company, The. (See Overholt, Ralph. J., assignor.)
Union Switch & Signal Company, The. (See Walker, Alec H. B., assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
United Air Lines, Inc. (See Sandretto, Peter C., assignor.)
United-Carr Fastener Corporation. (See Howard, Forbes, assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
Universal Camera Corporation. (See Kende, G., Elison, and Johanson, assignors.)
Universal Oil Products Company. (See Ipatieff, V. N., and Monroe, assignors.)
Universal Oil Products Company. (See Kanhofer, Elmer R., assignor.)
Universal Oil Products Company. (See Thomas, Charles L., assignor.)
Universal Oil Products Company. (See Thomas, C. L., and Bloch, assignors.)
Vaaler, John C. (See Ziebolz, H., and Vaaler.)
Van Housen, Thomas C., Jr., assignor to Scolding Locks Corporation, Appleton, Wis. Bowlegged hair fastener. 2,352,419; June 27.
Velt, John A., North Tonawanda, N. Y. Antiaircraft gun. 2,352,577; June 27.
Vial, Frederick K., assignor to Griffin Wheel Company, Chicago, Ill. Cast article and making. 2,352,237; June 27.
Victor Metal Products Corporation. (See Hoch, John, assignor.)
Victor Metal Products Corporation. (See Temple, George W., assignor.)
Wagenseil, William O., New Rochelle, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selector switch. 2,352,352; June 27.
Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)
Wales, George F., Kenmore, N. Y. Bolt. 2,352,297; June 27.
Wales, Nathaniel B., Detroit, Mich. Magnetic transmission. 2,352,238; June 27.
Walker, Alec H. B., King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the conversion or inversion of direct electric current to alternating current. 2,352,299; June 27.
Walker, Earl C., Altadena, Calif., and F. Buck, Lisle, Ill., assignors to International Harvester Company. Filter element. 2,352,300; June 27.
Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. High molecular weight unsaturated organic acids and preparing them. 2,352,461; June 27.
Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Radiometeorograph transmitter. 2,352,578; June 27.
Wallace, Herbert A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,352,298; June 27.
Wallace & Tiernan Products, Inc. (See Wallace, Charles F., assignor.)
Wallerstein, Leon, Jr., assignor to Lord Manufacturing Company, Erie, Pa. Resilient mounting. 2,352,591; June 27.
Walton, Richard R., Wellesley, Mass., assignor of one-half to Container Corporation of America, Chicago, Ill., and one-half to Dewey & Almy Chemical Company, Cambridge, Mass. Container. 2,352,503; June 27.
Ware, Cecil. (See Church, Walter L., assignor.)
Warner Electric Brake Manufacturing Company. (See Oetzel, John G., assignor.)
Waters, Joseph J., assignor to Etched Products Corporation, Long Island City, N. Y. Coating film for zinc surfaces and making the same. 2,352,579; June 27.
Webb, Adolphus M. (See Booth, R. B., and Webb.)
Weickmann, August. (See Hopff, H., Weickmann, and Kern.)
Weiss, Frederick T. (See Burnham, H. D., and Weiss.)
Weiss, Frederick T., Normandy, and V. Anastasoff, St. Louis, Mo., assignors to Shell Development Company, San Francisco, Calif. Metal deactivator. 2,352,462; June 27.
Welles, Halsey V., Detroit, Mich. Vehicle drive. 2,352,301; June 27.
Wenzelberger, Elwood P., Plainfield, and F. N. Manley, Highland Park, assignors to Johnson & Johnson, New Brunswick, N. J. Adhesive coated fabric and barrier coating composition therefor. 2,352,463; June 27.
Western Electric Company. (See Olney, Nathaniel M., assignor.)
Western Electric Company. (See Roemisch, Joseph L., assignor.)
Western Electric Company. (See Scrantom, De Hart G., assignor.)
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company, The. (See Canetta, John, assignor.)
Westinghouse Air Brake Company, The. (See Good, John N., assignor.)
Westinghouse Air Brake Company, The. (See McClure, Glenn T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Knochel, W. J., and Cone, assignors.)
Westinghouse Electric & Manufacturing Company. (See Zetterquist, Eric A., assignor.)
Wettengel, Frank L., Pittsburgh, Pa. Coil forming drum. 2,352,580; June 27.
White, Bond C., Bellefonte, Pa. Kitchen range. 2,352,239; June 27.
White, Harry B., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,352,504; June 27.
White, Joe, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Time delay relay system. 2,352,353; June 27.
White, Stanley B. (See Melvin, G. C., and White.)
Willard Storage Battery Company. (See Sears, Richard E., assignor.)
Wilmington Fibre Specialty Company. (See Müller, Ferdinand H., assignor.)
Wingfoot Corporation. (See Kilborn, K. B., and Gehman assignors.)
Winkler, Joseph F., Philadelphia, Pa. Method of refrigeration. 2,352,581; June 27.
Winters, Leo, Detroit, Mich. Flexible wall or partition. 2,352,420; June 27.
Wohlfield, Frederick W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender and fender shield construction. 2,352,421; June 27.
Wolfner, William F., II, Methuen, assignor to Photoswitch Incorporated, Cambridge, Mass. Electronic apparatus. 2,352,240; June 27.
Woodfield Engineering Limited. (See Spooner, Reginald A. W., assignor.)
Worne, Howard E., assignor to S. Brass, Newark, N. J. Manufacture of esters. 2,352,582; June 27.
Wyckoff, Anna S. (See Stapff, Frederick W., assignor.)
Youhill, Joseph, Staines, assignor to D. Napier & Son Limited, London, England. Manufacture of nuts and other screw-threaded members. 2,352,505; June 27.
Young, Frank W., Upper Montclair, N. J. Filter. 2,352,303; June 27.
Young, Stephen M. (See Scarlett, A. A., and Young.)
Young, Frank W., Upper Montclair, N. J. Filter. 2,352,304; June 27.
Young, Lloyd L., Patchogue, N. Y., assignor to Radio Corporation of America. Pressure measuring device. 2,352,302; June 27.
Young, William D., Greenville, S. C. Method and apparatus for forming bandage strips. 2,352,354; June 27.
Young, William D., Greenville, S. C. Attaching tie tapes to bandage strips. 2,352,355; June 27.
Zetterquist, Eric A., Drexel Hill, assignor to Westinghous Electric & Manufacturing Company, East Pittsburgh, Pa. Joint construction. 2,352,583; June 27.
Ziebolz, Herbert, Chicago, and J. C. Vaaler, Highland Park, assignors to Askania Regulator Company, Chicago, Ill. Apparatus for controlling the ratio of the flows of two fluids through conduits. 2,352,584; June 27.
Zigler, Ward G., Chicago, Ill. Ironing machine. 2,352,422; June 27.
Zirckel, Charles H., Chicago, Ill., assignor to International Harvester Company. Vine lifter and divider. 2,352,506; June 27.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1944

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Circuit for electric discharge devices. J. H. Campbell. Re. 22,503; June 27.
Electrical discharge device. W. C. Hahn. Re. 22,506; June 27.
Lightning arrester. R. H. Earle and A. G. Steinmayer. Re. 22,504; June 27.
Motor control system. R. J. Kutzler and L. A. Griffith. Re. 22,508; June 27.
Rack, Cylinder. H. E. Heigis. Re. 22,507; June 27.
Telephone system, Automatic. G. R. Eaton. Re. 22,505; June 27.

LIST OF PLANT INVENTIONS

Apricot tree. W. I. Bowers. 630; June 27.
Rose plant. W. E. Lammerts. 631–2; June 27.

LIST OF DESIGN INVENTIONS

Ball, Rubber. C. J. Davidson. 138,150; June 27.
Billfold. S. Benner. 138,134–5; June 27.
Borescope. C. V. Lindbloom. 138,143; June 27.
Bottle or the like. R. Ratner. 138,165; June 27.
Bracelet, Separable. J. Rubel. 138,174; June 27.
Brooch or similar article. C. A. Furst. 138,141; June 27.
Cabinet, Nose and throat treatment. A. A. Goldstein. 138,142; June 27.
Case or the like, Jewelry. J. Foster. 138,151; June 27.
Cooler, Beverage. S. A. Conway. 138,139; June 27.
Dress. S. Salsky. 138,176; June 27.
Fork, Pickle. J. F. Brown. 138,137; June 27.
Frame, Optical. R. Weber and E. Salvage. 138,148; June 27.
Handbag frame or similar article. J. Halpern. 138,157; June 27.
Jacket. J. Barbel. 138,175; June 27.
Lamp, Electric. A. F. Pieper. 138,164; June 27.
Lid lifter and bottle cap remover, Combination jar. E. J. Welch. 138,167; June 27.
Lighting fixture, Fluorescent. R. G. Maurette. 138,162; June 27.
Marble game board. C. G. Lins. 138,160; June 27.
Mending machine, Fabric patch. E. N. Simmons. 138,166; June 27.
Muff and handbag or similar article, Combined. M. Wolf. 138,149; June 27.
Pump. J. C. Woodford. 138,170; June 27.
Ring, Teething. M. H. Baine. 138,168; June 27.
Rod, Connecting. A. T. Britton. 138,136; June 27.
Sandal or similar article. J. Meltzer. 138,169; June 27.
Shoe or similar article. D. D. Goldstein. 138,153–6; June 27.
Slip or similar article. S. H. Geffner. 138,171; June 27.
Sole, Sandal. L. H. May. 138,163; June 27.
Stand and serving tray, Combined folding. F. Kramer. 138,159; June 27.
Stick, Clothes. J. T. Burg. 138,138; June 27.
Switch, Electric. R. M. Lynn. 138,161; June 27.
Tachometer. W. M. Gilman. 138,152; June 27.
Toaster, Electric. L. L. Von Cseh. 138,140; June 27.
Toy telephone. G. R. Hirst. 138,158; June 27.
Trimming or similar article, Embroidered. H. Tobler. 138,145–7; June 27.
Valve check. C. Pool. 138,144; June 27.
Ventilator for flues or stacks, Rotary head. B. M. Lutze. 138,172; June 27.
Wrench. E. Matthews. 138,173; June 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1944

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive articles, Making. R. C. Benner and W. G. Soley. 2,352,246; June 27.
Absorption process. W. Swerdloff. 2,352,295; June 27.
Acid setting baths used in the manufacture of cellulose products from viscose, Treatment of. J. L. Costa and W. H. Kahler. 2,352,519; June 27.
Acids and anhydrides, Purification of aliphatic. F. O. Cockerill. 2,352,253; June 27.
Acids and preparing them, High molecular weight unsaturated organic. J. F. Walker. 2,352,461; June 27.
Adjustable automobile seat. A. C. Andersen. 2,352,358; June 27.
Agricultural implement. J. R. Orelind. 2,352,491; June 27.
Agricultural machine. A. A. Scarlett and S. M. Young. 2,352,589; June 27.
Air conditioning system, Stage controlled. A. B. Newton. 2,352,282; June 27.
Aircraft control system. T. W. Macomber. 2,352,334; June 27.
Aircraft equipped with sustaining motors. H. F. Pitcairn. 2,352,342; June 27.
Aircraft, Passenger and freight carrying. J. H. Hooker. 2,352,323; June 27.
Alarm apparatus. J. G. M. Broden. 2,352,467; June 27.
Aminophenol derivatives. V. H. Reckmeyer and A. H. Brunner, Jr. 2,352,287; June 27.
Angle drive. J. H. Holstein. 2,352,262; June 27.
Antihemorrhagic compounds. L. F. Fieser. 2,352,528; June 27.
Antiskidding device. D. S. Barrows. 2,352,174; June 27.
Apparatus and method for artificially inducing breathing. J. H. Emerson. 2,352,523; June 27.
Apparatus for blanking materials. N. M. Olney. 2,352,339; June 27.
Apparatus for controlling the ratio of the flows of two fluids through conduits. H. Ziebolz and J. C. Vaaler. 2,352,584; June 27.
Apparatus for producing edible articles. E. D. Powers and A. M. Fennis. 2,352,447; June 27.
Apparatus for protecting power lines. G. A. Matthews. 2,352,556; June 27.
Apparatus for refining residual petroleum stocks. D. G. Brandt. 2,352,513; June 27.
Apparatus for spooling wrappings. E. A. Davis. 2,352,255; June 27.
Apparatus for the conversion or inversion of direct electric current to alternating current. A. H. B. Walker. 2,352,299; June 27.
Apparatus for undercutting commutators. E. R. Manley. 2,352,278; June 27.
Apparatus for use in straightening metal barrels or the like. B. D. Titus and C. C. Blaine. 2,352,575; June 27.
Arbor holder. T. M. Stephens. 2,352,415; June 27.
Arc starting electrode and forming same. P. L. Spencer. 2,352,230; June 27.
Auto parts washer. V. N. Albertson. 2,352,356; June 27.
Automatic valve. E. M. Harvey. 2,352,197; June 27.
Baby walker. W. H. Reinholz. 2,352,450; June 27.
Bandage strips, Method and apparatus for forming. W. D. Young. 2,352,354; June 27.
Base for hot water heaters, Supplemental. J. Minar. 2,352,558; June 27.
Battery clip. R. L. Triplett. 2,352,576; June 27.
Beam grid structure for ships, airplanes and the like. S. D. Szego. 2,352,296; June 27.
Bearing element, Electroplated. C. Schiffl. 2,352,346; June 27.
Bed, Sofa. M. Fox. 2,352,375; June 27.
Bendable fastener. R. C. Potts. 2,352,407; June 27.
Beneficiation of feldspathic and similar ores. W. G. Hubler. 2,352,324; June 27.
Benzene fractions, Azeotropic distillation of. R. B. Greenburg. 2,352,534; June 27.
Binder, Visible record loose-leaf. A. G. Lotter. 2,352,486; June 27.
Black-out lamp. W. Trautner. 2,352,459; June 27.
Blank, Binding. P. Hartmann. 2,352,196; June 27.
Boat, Plywood life. L. S. Baier. 2,352,360; June 27.
Bolt. G. F. Wales. 2,352,297; June 27.
Bowlegged hair fastener. T. C. Van Housen, Jr. 2,352,419; June 27.
Brake: *See*—
Fluid pressure brake.
Brake. J. G. Oetzel. 2,352,218; June 27.
Brake system, Pneumatically assisted hydraulic. J. R. Almond. 2,352,357; June 27.
Braking apparatus. R. B. Pogue and M. N. Trainer. 2,352,222; June 27.
Braking apparatus. M. N. Trainer. 2,352,223; June 27.
Brassière. Y. Bujdossy. 2,352,367; June 27.
Brush, Dabbing. F. H. Hardy. 2,352,431; June 27.
Building structure for insulation against insects. D. M. Muirhead. 2,352,338; June 27.
Burner: *See*—
Cast-iron gas burner.
Calculating machine. C. M. Friden. 2,352,376; June 27.
Calculating machine. D. Y. Read. 2,352,286; June 27.
Camera with removable film magazine. J. Bolsey. 2,352,181; June 27.
Can closure. C. R. Rau. 2,352,495; June 27.
Cardboard display device, Collapsible. J. V. Horr. 2,352,436; June 27.
Case: *See*—
Cigarette case.
Cast article and making. F. K. Vial. 2,352,237; June 27.
Cast-iron gas burner. E. R. Koppel. 2,352,329; June 27.
Catalytic reforming. C. L. Thomas and H. S. Bloch. 2,352,416; June 27.
Catamenial bandage making machine or the like. L. Schulman. 2,352,228; June 27.
Chamfering tool. J. J. Seme. 2,352,348; June 27.
Cheese forming method and apparatus. N. Kraft. 2,352,210; June 27.
Cigarette case. L. J. Du Mais. 2,352,521; June 27.
Cigarette removing device for cigarette packages. M. Suskowitz. 2,352,574; June 27.
Circuit: *See*—
Electric valve control circuit.
Teletypewriter pay station circuit.
Clamp: *See*—
Hose clamp.
Clarifier for oxidizing solutions. E. B. Lewis. 2,352,441; June 27.
Clasp fastener. F. Howard. 2,352,437; June 27.
Cleaner: *See*—
Suction cleaner.
Clip: *See*—
Battery clip.
Closure. F. Gasche. 2,352,192; June 27.
Closure. W. H. Hendricks. 2,352,382; June 27.
Closure for explosive cartridges, End. C. R. Johnson, W. S. Pilcher, and C. B. Stanley. 2,352,549; June 27.
Closure or sealing means for paper or cardboard receptacles. W. Marcus and A. Baum. 2,352,559; June 27.
Coat hanger. O. L. Horton. 2,352,264; June 27.
Collapsible paper board receptacle. G. N. Lee. 2,352,393; June 27.
Collapsible structure. H. A. Farrand. 2,352,526; June 27.
Collapsible tube. G. W. Temple. 2,352,456; June 27.
Composite boards, Forming. V. Lefebure. 2,352,553; June 27.
Composition containing antioxidant. S. Shappirio. June 27.
Composition of matter. E. J. Jacob. 2,352,201; June 27.
Compounds of the saturated and unsaturated cyclopentanopolyhydrophenanthrene-series and derivatives thereof, and preparing same. T. Reichstein and H. Frey. 2,352,568; June 27.
Compressor roll for textile machines. I. R. Rowe. 2,352,289; June 27.
Condensation products of urea and amines. J. A. P. Kienzle. 2,352,552; June 27.
Condensation products, Production of. H. Hopff, A. Weickmann, and R. Kern. 2,352,387; June 27.
Connecting device. R. A. W. Spooner. 2,352,414; June 27.
Connector: *See*—
Electrical connector.
Construction material. A. C. Fischer. 2,352,314; June 27.
Container: *See*—
Valved container.
Container. R. R. Walton. 2,352,503; June 27.
Container making machine. H. Carew. 2,352,369; June 27.
Control device, Infrared. O. T. Francis. 2,352,377; June 27.
Control means for automatic stokers. R. J. McFall. 2,352,215; June 27.

Control mechanism. E. P. Bullard, III. 2,352,183–4; June 27.
Control system for aircraft, Lateral. R. A. Bailey. 2,352,308; June 27.
Cotton harvester. A. W. Scarratt, D. Baker, and C. R. Hagen. 2,352,291; June 27.
Coupling means for connecting horse-drawn vehicles to tractors. H. W. Batkin. 2,352,511; June 27.
Cross-slide mechanism. A. H. Jobert and J. J. Taravella. 2,352,548; June 27.
Cup washers, Producing. F. Kapple and J. F. Sikora. 2,352,265; June 27.
Cutter: *See*—
Surgical cast cutter.
Dehydrating machine. G. Overton. 2,352,220; June 27.
Depilatory. R. L. Evans and E. G. McDonough. 2,352,524; June 27.
Derrick support for underwater drilling. R. L. Carruthers. 2,352,370; June 27.
Detachable spool mounting. T. O. Mehan. 2,352,279; June 27.
Device for dispensing strip material. A. S. Pinckney. 2,352,445; June 27.
Device for machining ends of articles. W. Melin. 2,352,489; June 27.
Device for testing visual acuity. C. F. Shepard. 2,352,500; June 27.
Die working machinery. P. Kratzmaier. 2,352,211; June 27.
Directional control centrifugal blasting machine. W. A. Rosenberger and W. L. Keefer. 2,352,588; June 27.
Dispenser: *See*—
Liquid dispenser.
Distillation. A. C. Brown. 2,352,160; June 27.
Door latch. R. T. Anderson and C. Olson. 2,352,465; June 27.
Draft hitch. C. E. Mark. 2,352,397; June 27.
Drapery. C. Gallo. 2,352,531; June 27.
Drawing roll for spinning frames. L. W. Campbell. 2,352,167; June 27.
Drill: *See*—
Earth drill.
Drilling fluid. T. W. Burnam. 2,352,468; June 27.
Drum, Coil forming. F. L. Wettengel. 2,352,580; June 27.
Dust remover. T. Lessard and W. Mund. 2,352,273; June 27.
Earth drill. C. W. Kandle. 2,352,326; June 27.
Educational apparatus. M. L. Brown. 2,352,182; June 27.
Educational article. M. E. Ballestero. 2,352,361; June 27.
Electric induction apparatus. G. Camilli. 2,352,166; June 27.
Electric valve control circuit. J. L. Stratton. 2,352,231; June 27.
Electrical connector. F. O. Read. 2,352,224; June 27.
Electrical discharge device and making the same. W. W. Eitel and J. A. McCullough. 2,352,522; June 27.
Electrical rectifier. R. Overholt, Jr. 2,352,283; June 27.
Electrical testing apparatus and method. R. E. Sears. 2,352,499; June 27.
Electronic apparatus. W. F. Wolfner, II. 2,352,240; June 27.
Electronic synchronization system. E. E. Harper. 2,352,541; June 27.
Enamel, Lead-free. A. J. Deyrup. 2,352,425; June 27.
Engine: *See*—
Internal-combustion engine.
Rotary steam engine.
Engine. C. G. A. Rosen and C. R. Maxwell. 2,352,497; June 27.
Esters, Manufacture of. H. E. Worne. 2,352,582; June 27.
Esters, Preparing dicarboxylic acid. G. D. Hiatt and J. Emerson. 2,352,261; June 27.
Esters, Stabilization of vinyl. F. N. Hopper. 2,352,263; June 27.
Ethyl chloride, Recovery of. C. N. Kimberlin, Jr. 2,352,268; June 27.
Expediter, Bank account. R. E. Bauder. 2,352,175; June 27.
Extinguisher, Cigarette. J. B. Hinson. 2,352,198; June 27.
Fabric and barrier coating composition therefor, Adhesive coated. E. P. Wenzelberger and F. N. Manley. 2,352,463; June 27.
Fastener: *See*—
Bendable fastener.
Clasp fastener.
Bowlegged hair fastener.
Fastening strip. L. M. Rabinowitz. 2,352,564; June 27.
Faucet washer. A. L. Arey. 2,352,307; June 27.
Feeder: *See*—
Glass feeder.
Fender and fender shield construction. F. W. Wohlfield. 2,352,421; June 27.
Fender shield construction and assembly. A. P. Ferguson and G. W. Schatzman. 2,352,374; June 27.
Ferrous castings having desired physical properties, Producing. H. A. Reece and O. Smalley. 2,352,408; June 27.
Ferrous material, Producing shaped bodies from powdery. C. G. Goetzel. 2,352,316; June 27.
Filament, fiber, and foil, Artificial. J. Kleine. 2,352,328; June 27.
Filling cutting means. C. D. Brown. 2,352,366; June 27.
Film for zinc surfaces and making the same, Coating. J. J. Waters. 2,352,579; June 27.
Filter. H. F. Oswald. 2,352,340; June 27.
Filter. F. W. Young. 2,352,303–4; June 27.
Filter and automatic valve. G. Lee. 2,352,330; June 27.
Filter element. E. C. Walker and F. Buck. 2,352,300; June 27.
Filter for airplane engines, Lubricating oil. G. Gilbert. 2,352,315; June 27.
Firearm, Automatic. W. T. Gorton. 2,352,193; June 27.
Fire extinguishing apparatus. H. E. Braloff. 2,352,512; June 27.
Fire extinguishing method and apparatus. L. D. Myers. 2,352,399; June 27.
Fire extinguishing method and apparatus. E. Geertz. 2,352,378; June 27.
Flexible cable support. S. Guarnaschelli. 2,352,318; June 27.
Fluid meter. R. Bennett. 2,352,157; June 27.
Fluid pressure brake. G. T. McClure. 2,352,277; June 27.
Fluid pressure remote control system. Q. H. Carlton. 2,352,470; June 27.
Folder for bills, cards, coins, keys or the like. H. M. Herbener. 2,352,383; June 27.
Food mixer. A. Strauss. 2,352,232; June 27.
Foot foundation, Flexible. M. K. Anderson. 2,352,170; June 27.
Footwear, Manufacture of. F. Dawson. 2,352,520; June 27.
Fountain, Poultry drinking. A. S. Eash. 2,352,373; June 27.
Frequency converter. J. L. Roemisch. 2,352,451; June 27.
Frequency modulated wave transmission. H. E. Curtis. 2,352,254; June 27.
Frequency multiplier. H. R. Summerhayes, Jr. 2,352,455; June 27.
Funnel for molten explosives. T. F. Knight and F. E. Tregenza. 2,352,207; June 27.
Game, Puzzle. R. W. Mandl. 2,352,555; June 27.
Garden tool. L. G. Hatch. 2,352,320; June 27.
Garment hanger. R. Guyer. 2,352,477; June 27.
Gate: *See*—
Railway crossing gate.
Gauge: *See*—
Pressure leakage gauge.
Spindle rail gauge.
Roll stand bearing gauge.
Gauge. E. H. Fernald. 2,352,313; June 27.
Gauging device. W. F. Aller and L. J. Mahlmeister. 2,352,507; June 27.
Gear finishing apparatus. E. W. Miller. 2,352,557; June 27.
Generator: *See*—
Optical flat generator.
Glass feeder. J. W. Ross. 2,352,288; June 27.
Glass, Method of and apparatus for drawing sheet. H. L. Halbach, G. D. Campbell, and W. G. Koupal. 2,352,539; June 27.
Grid. W. J. Knochel and J. H. Cone. 2,352,208; June 27.
Grinding machine, External-internal cylindrical. J. I. Garside. 2,352,428; June 27.
Guard, Saw. H. E. Tautz. 2,352,235; June 27.
Guide for sewing machines, Uncurling. H. Hacklander. 2,352,430; June 27.
Gun, Anti-aircraft. J. A. Veit. 2,352,577; June 27.
Hammer mechanism. J. C. Garand. 2,352,191; June 27.
Handpiece for billiard cues and the like. F. W. Stapff 2,352,294; June 27.
Hanger: *See*—
Coat hanger.
Tool hanger.
Garment hanger.
Harvester-thresher combine. W. R. Dray. 2,352,257; June 27.
Hay press. F. D. Jones. 2,352,388; June 27.
Heat actuated device. W. S. Landon. 2,352,439; June 27.
Heater: *See*—
Unit heater.
Heater. W. J. Payne. 2,352,402; June 27.
Hoist, Boat. E. B. Thompson. 2,352,457; June 27.
Hoist control mechanism. B. S. Aikman. 2,352,241; June 27.
Holder: *See*—
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Holder for lipsticks and the like. H. F. Reichenbach. 2,352,448; June 27.
Home humidifying system. A. B. Favor. 2,352,527; June 27.
Hose clamp. G. Colarusso. 2,352,372; June 27.
Housing, Deep sea apparatus. W. M. Bishop. 2,352,158; June 27.
Huller, Grain. H. C. Kirn. 2,352,327; June 27.
Hydraulic back-pressure arrester. M. P. De Motte. 2,352,256; June 27.
Hydraulic dredging apparatus. C. K. Little. 2,352,394; June 27.
Hydraulic jack. E. R. Kirkland. 2,352,390; June 27.

Hydrocarbons, Catalytic treatment of. E. R. Kanhofer. 2,352,484; June 27.
Hydrocarbons, Treatment of. C. L. Thomas. 2,352,236; June 27.
Implement, Tractor. A. C. Lindgren. 2,352,276; June 27.
Incubator and hatcher, Combination. G. T. Markey. 2,352,398; June 27.
Induction heating. E. J. Limpel. 2,352,332; June 27.
Ink fountain for rotary intaglio presses. J. E. Meyer. 2,352,217; June 27.
Ink fountain for rotary intaglio presses. J. E. Meyer. 2,352,337; June 27.
Innersole and making the same. F. L. Ayers. 2,352,510; June 27.
Inseam fastening machine. F. L. Ayers. 2,352,509; June 27.
Internal-combustion engine. K. R. Maltby. 2,352,396; June 27.
Ironing machine. W. G. Zigler. 2,352,422; June 27.
Ironing table. H. V. Keller. 2,352,389; June 27.
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Jewel bearing and making same. G. Keinath. 2,352,266; June 27.
Joint construction. E. A. Zetterquist. 2,352,583; June 27.
Kitchen range. B. C. White. 2,352,239; June 27.
Knockoff mechanism for phonographs. F. J. Offen. 2,352,561; June 27.
Lacquer. L. Auer. 2,352,173; June 27.
Lamp: *See*—
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Lamps, Collapsible and vertically adjustable stand for work. J. C. Rose. 2,352,496; June 27.
Latch: *See*—
Door latch.
Latex and product thereof, Preserving. W. D. Stewart. 2,352,573; June 27.
Laundry machine. R. E. Bassett, Jr. 2,352,362–3; June 27.
Lens centering device. J. Bolsey. 2,352,179; June 27.
Level for roving frames. A. M. Guillet. 2,352,537; June 27.
Lifter and divider, Vine. C. H. Zirckel. 2,352,506; June 27.
Link for jewelry, Figure. S. D. Goldstein. 2,352,381; June 27.
Liquid dispenser. D. P. Derieg. 2,352,424; June 27.
Loom. T. O. Ott, Jr. 2,352,341; June 27.
Lubricant and preparing same. E. Lieber, M. M. Sadlon, and A. F. Cashman. 2,352,213; June 27.
Lubrication. E. H. Kocher. 2,352,209; June 27.
Machine for the treatment of lenses. J. Bolsey. 2,352,180; June 27.
Machine tool. E. P. Bullard, III, L. E. Alvey, and F. H. Mussler. 2,352,185; June 27.
Magazine razor blade holder. J. A. Guimond. 2,352,538; June 27.
Magnetic testing apparatus and magnetizing. J. E. Clarke. 2,352,371; June 27.
Magnetic transmission. N. B. Wales. 2,352,238; June 27.
Map globe and globe construction. C. E. Riddiford. 2,352,225; June 27.
Map projection. W. G. Gingery. 2,352,380; June 27.
Maps, Production of mosaic. E. A. Schuch and J. F. Masino. 2,352,413; June 27.
Marker, Potential recording. M. Apstein. 2,352,242; June 27.
Material handling apparatus. R. E. Ljungkull. 2,352,395; June 27.
Materials, Chlorination of polymeric. W. J. R. Evans. 2,352,525; June 27.
Mathematical instrument, Combination. C. B. Alexander. 2,352,169; June 27.
Measuring and filling machine. C. G. Meyers. 2,352,490; June 27.
Measuring system, Vibration. R. C. Olesen. 2,352,219; June 27.
Mercerizing assistant. H. Robinette, Jr. 2,352,409; June 27.
Metal deactivator. H. D. Burnham and F. T. Weiss 2,352,164; June 27.
Metal deactivator. F. T. Weiss and V. Anastasoff. 2,352,462; June 27.
Metal products, Process and installation for the manufacture of shaped. R. Mautsch. 2,352,443; June 27.
Metallurgical method and apparatus. H. Heuer. 2,352,321; June 27.
Meter: *See*—
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Mine. A. Ronning. 2,352,226; June 27.
Mirror for reflex cameras. J. Bolsey. 2,352,177; June 27.
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Mobile fire fighting apparatus. E. Geertz. 2,352,379; June 27.
Modulation control, Hydraulic travel. E. A. Rockwell. 2,352,344; June 27.
Mold growth, Promoting. L. M. Christensen. 2,352,168; June 27.
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Movable mast support. E. H. Ranson. 2,352,565; June 27.
Multiple rotary Diesel engine. G. F. Pieper. 2,352,403; June 27.
Musical instrument. J. O. Hruby, Jr. 2,352,438; June 27.
Navigation instrument. D. Polowe. 2,352,405; June 27.
Necktie press. J. P. Gantt. 2,352,427; June 27.
Needle, Knitting. D. G. Scranton. 2,352,347; June 27.
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Nuts and other screw-threaded members, Manufacture of. J. Youhill. 2,352,505; June 27.
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Organic sulphur compound and its preparation. J. M. Hoeffelman and R. Berkenbosch. 2,352,435; June 27.
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Packer assembly. W. L. Church. 2,352,423; June 27.
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Pan, Self-basting. F. M. Schaefer. 2,352,292; June 27.
Paper for use as pencil sheaths, Preparing newsprint. K. Miller. 2,352,444; June 27.
Paper making. J. C. Sherman. 2,352,293; June 27.
Perforated elastic material, Molding. J. A. Grabec. 2,352,194; June 27.
Phonograph, Automatic. J. J. Heins, Jr. 2,352,542; June 27.
Phonograph record changer. A. W. Leline. 2,352,331; June 27.
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Photographic arrangement. J. Bogopolsky. 2,352,176; June 27.
Photographic stand. H. L. Phillips. 2,352,221; June 27.
Piston valve assembly. J. R. Rushmer. 2,352,410; June 27.
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Pressure reduction check valve. J. F. Hoffer. 2,352,322; June 27.
Pressure responsive device. R. R. Donaldson. 2,352,312; June 27.
Printing cut and making it. J. T. Cochran. 2,352,518; June 27.
Projectile, Antiaircraft. W. E. Smith. 2,352,502; June 27.
Projectile, Whistling. V. G. Herman. 2,350,260; June 27.
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Protector and booster, Casing. H. D. Sandstone. 2,352,412; June 27.
Purse, Wrist attached. F. P. Cortese. 2,352,473; June 27.
Radio range equipment, Automatic miniature. G. C. Melvin and S. B. White. 2,352,216; June 27.
Railway crossing gate. H. S. Brown and S. T. Comfort. 2,352,310; June 27.
Railway traffic controlling apparatus. H. A. Wallace. 2,352,298; June 27.
Ratio transmission mechanism, Variable. F. B. Halford. 2,352,478; June 27.

Reamer, Adjustable. J. Archer. 2,352,508; June 27.
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Record reversing mechanism. F. J. Offen. 2,352,563; June 27.
Refractory zirconia casting. G. S. Fulcher and T. E. Field. 2,352,530; June 27.
Refrigeration. C. C. Coons. 2,352,472; June 27.
Refrigeration. J. F. Winkler. 2,352,581; June 27.
Refrigerator. T. W. Rundell. 2,352,345; June 27.
Removing a continuous film of material from the surface of drying drums, Method and apparatus for. G. N. Harcourt and C. O. Lavett. 2,352,195; June 27.
Resilient mounting. L. Wallerstein, Jr. 2,352,591; June 27.
Road spraying apparatus. T. W. Rosholt. 2,352,498; June 27.
Roll stand bearing gauge. A. M. Guillet. 2,352,535; June 27.
Roll, Weld fabricated. G. Slavicek. 2,352,501; June 27.
Rotary steam engine. A. D. Iskols. 2,352,544; June 27.
Rotary syphon joint assembly. L. D. Goff and R. O. Monroe. 2,352,317; June 27.
Rotor bearing assembly, Self-aligning and temperature compensating. B. G. Carlson. 2,352,469; June 27.
Rotor for aircraft, Sustaining. H. F. Pitcairn. 2,352,404; June 27.
Rubber waste, Treatment of. A. Treves. 2,352,460; June 27.
Sample cutting machine, Automatic. T. Jordan. 2,352,204; June 27.
Sampling machine. C. V. Swearingen. 2,352,234; June 27.
Sanding control means. J. Canetta. 2,352,252; June 27.
Scraper attachment for tractors, Power pickup and dumping. B. F. Arps. 2,352,466; June 27.
Screw, Self-locking. W. M. Hanneman. 2,352,540; June 27.
Seal. N. S. Reynolds. 2,352,343; June 27.
Seal for adapters and regulators, Lift-off. T. B. Martin and K. L. Berninger. 2,352,336; June 27.
Seaming and pinking mechanism, Combined. G. Stevenson. 2,352,572; June 27.
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Seismic surveying. J. O. Parr, Jr. 2,352,494; June 27.
Selector switch. W. O. Wagensell. 2,352,352; June 27.
Sewing machine. B. T. Leveque. 2,352,274–5; June 27.
Sheave. D. Firth and D. P. Lower. 2,352,474; June 27.
Sheet clamping device. H. W. Kost. 2,352,392; June 27.
Shell adapter, Shotgun. F. A. French. 2,352,476; June 27.
Shield for welders' hood windows. A. O. Thorson. 2,352,417; June 27.
Shock absorber. P. W. Thornhill. 2,352,351; June 27.
Shock absorbing strut. B. E. O'Connor. 2,352,401; June 27.
Signal control apparatus. J. W. Holzmann. 2,352,543; June 27.
Smoke oven. R. H. Trinkle. 2,352,590; June 27.
Socket and switch construction, Lamp. C. Bramming. 2,352,248; June 27.
Soldering, Continuous soft. H. G. Hughey. 2,352,325; June 27.
Sole of wood or other stiff material, Articulated. H. and O. Ghez. 2,352,532; June 27.
Solvent extraction of oils and acids. J. D. Jenkins. 2,352,546; June 27.
Sorter. J. T. Ferry. 2,352,258; June 27.
Sound reproducing system and coin collecting actuator therefor. W. S. Farrell. 2,352,188; June 27.
Spacing gauge for sewing machines. H. Rappaport. 2,352,566; June 27.
Spark plug. L. A. Hyland. 2,352,480; June 27.
Spark plug structure. L. A. Hyland. 2,352,481; June 27.
Spindle rail gauge. A. M. Guillet. 2,352,536; June 27.
Spout for containers, Pouring. F. H. Müller. 2,352,587; June 27.
Spreader, Flang. J. Saul, C. E. Olsen, and J. A. Peterson. 2,352,290; June 27.
Spring assembly. M. J. Rymland and E. C. Lewis. 2,352,569; June 27.
Spring support for spring vehicles. R. W. Pointer. 2,352,446; June 27.
Stamp feeding and gluing mechanism. C. J. Malhiot. 2,352,554; June 27.
Stapling device. W. D. Faltz. 2,352,475; June 27.
Static suppressor. P. C. Sandretto. 2,352,411; June 27.
Storage receptacle. A. Harris. 2,352,319; June 27.
Stove. J. L. Raulston. 2,352,567; June 27.
Stove, Oil burning heating. W. J. Magg. 2,352,335; June 27.
Strainer and filter. F. Kraissl, Jr. 2,352,269; June 27.
Straightening machine for metal bars. L. Loewy and F. S. Salter. 2,352,442; June 27.
Substances by froth flotation, Recovery of fatty. R. B. Booth and A. M. Webb. 2,352,365; June 27.
Suction cleaner. H. B. White. 2,352,504; June 27.
Support: *See*—
Flexible cable support.
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Support for lens blanks and processes of securing lens blanks to said support. J. Bolsey. 2,352,178; June 27.
Surgical cast cutter. M. F. Harrington. 2,352,432; June 27.
Switch: *See*—
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Tab mounting variable resistor. N. C. Schellenger and W. H. Budd. 2,352,454; June 27.
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Tall oil, Refining of. J. D. Jenkins. 2,352,547; June 27.
Telegraph repeater concentration group cord and attendant's circuit, Inverse neutral. W. V. K. Large, C. W. Lusek, and T. A. Marshall. 2,352,272; June 27.
Telephone system. J. E. Ostline. 2,352,492; June 27.
Teletypewriter pay station circuit. W. Y. Lang and F. J. Singer. 2,352,271; June 27.
Temperature bearing, Controlled. G. H. Kendall. 2,352,206; June 27.
Temperature compensating accumulator for hydraulic systems. H. R. Ellinwood. 2,352,187; June 27.
Temperature compensator for inductance coils. E. O. Thompson. 2,352,458; June 27.
Tension member, Flexible. D. C. Kitselman. 2,352,391; June 27.
Terminal structure. R. E. Brodie. 2,352,159; June 27.
Testing machine. D. B. Brownlow. 2,352,161; June 27.
Textile material. A. S. Bell and W. C. Angus. 2,352,244; June 27.
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Thermal circuit breaker. P. M. Christensen. 2,352,517; June 27.
Thermal well-logging. L. W. Blau and G. E. Cannon. 2,352,247; June 27.
Thermometer, Recording clinical. W. R. Lukens. 2,352,333; June 27.
Thermostatic valve. R. C. Johnson. 2,352,203; June 27.
Thickness-measuring apparatus. E. A. Sprigg. 2,352,571; June 27.
Thread milling assembly. A. Sarossy. 2,352,227; June 27.
Tie tapes to bandage strips, Attaching. W. D. Young. 2,352,355; June 27.
Time delay relay system. J. White. 2,352,353; June 27.
Time recording mechanism. W. Leathers and H. Panissidi. 2,352,440; June 27.
Timing mechanism. C. L. Anderson. 2,352,156; June 27.
Timing mechanism. E. P. Reinecke. 2,352,449; June 27.
Tin-coated collapsible tube. J. Hoch. 2,352,384; June 27.
Tire guards for straddle trucks. C. L. Aerni. 2,352,464; June 27.
Toluene, Production of. V. N. Ipatieff and G. S. Monroe. 2,352,199–200; June 27.
Tool: *See*—
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Tool attachment, Working. C. W. Mott. 2,352,281; June 27.
Tool for upsetting die heads. T. Gomperz. 2,352,429; June 27.
Tool hanger. C. C. Pond. 2,352,406; June 27.
Torsion unit. K. B. Kilborn and S. D. Gehman. 2,352,586; June 27.
Towing machine. M. B. Benson. 2,352,309; June 27.
Transmitter, Radiometeorograph. C. F. Wallace. 2,352,578; June 27.
Transparency mount. H. S. Baldwin. 2,352,243; June 27.
Tray, Illuminated automobile ash. J. D. Palmer. 2,352,493; June 27.
Tray, Impression. S. L. Jeffries. 2,352,545; June 27.
Treating cast iron. F. B. Rote. 2,352,452; June 27.
Truck, Car. T. V. Buckwalter. 2,352,162–3; June 27.
Truck, Railroad passenger car. K. F. Nystrom and V. L. Green. 2,352,400; June 27.
Tube: *See*—
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Tube dispensing unit, Drip. J. E. B. Shaw. 2,352,349; June 27.
Tube straightening machine. A. L. Parker. 2,352,284; June 27.
Tube welding and smoothing. J. L. Anderson. 2,352,306; June 27.
Tumbler, Drink mixing. J. H. Karlson. 2,352,205; June 27.
Turbo transmission. J. Jandasek. 2,352,482–3; June 27.
Turnbuckle, Self-locking. E. A. Camburn. 2,352,585; June 27.
2-methyl-1,4-naphthohydroquinone derivatives and preparing them. E. Fernholz. 2,352,189; June 27.
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Unit heater. R. W. Kritzer. 2,352,485; June 27.
Unsaturated polynitriles and making same. H. A. Bruson. 2,352,515; June 27.
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Vending machine. C. L. Casey. 2,352,471; June 27.
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Wall or partition, Flexible. L. Winters. 2,352,420; June 27.
Washer: *See*—
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Winch, Traction power operated. M. M. Brodersen. 2,352,250; June 27.
Window. A. Anfinson. 2,352,171; June 27.
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Wire, Manufacture of insulated. H. V. Engh. 2,352,426; June 27.
Wood tubing and the like, Manufacture of. P. R. Goldman. 2,352,533; June 27.

CLASSIFICATION OF PATENTS

ISSUED JUNE 27, 1944

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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